

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

RE: 4939030 - JSJ, Maplewood Prime B (5-8-25)

Trenco

818 Soundside Rd Edenton, NC 27932

Site Information:

Project Customer: JSJ Builders Project Name:

Lot/Block: 22 Subdivision: ILA'S WAY

Address: 119 BAXLEY DR

City: DUNN State: NC

Name Address and License # of Structural Engineer of Record, If there is one, for the building.

Name: License #:

Address:

City, County: State:

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

Design Code: IRC2015/TPI2014 Design Program: MiTek 20/20 8.8

Wind Code: ASCE 7-10 Design Method: MWFRS (Envelope)/C-C hybrid Wind ASCE 7-10

Wind Speed: 130 mph

Roof Load: 40.0 psf Floor Load: N/A psf

This package includes 18 individual, dated Truss Design Drawings and 0 Additional Drawings.

No.	Seal#	Job ID#	Truss Name	Date
1	177544882	4939030	A01	11/5/25
2	177544883 177544884	4939030 4939030	A02 A03	11/5/25 11/5/25
4	177544885	4939030	A04	11/5/25
4 5	177544886	4939030		11/5/25
6 7	177544887 177544888	4939030 4939030	B01	11/5/25
8	177544889	4939030 4939030	B02 C01	11/5/25 11/5/25
9	177544890	4939030	ČÖ2	11/5/25
10	177544891	4939030	004	11/5/25
11 12	177544892 177544893	4939030 4939030	C04 V01	11/5/25 11/5/25
13	177544894	4939030	V02	11/5/25
14	177544895	4939030	V03	11/5/25
16	177544896 177544897	4939030 4939030	V04 V05	11/5/25 11/5/25
17	177544898	4939030	V05 V06	11/5/25
18	177544899	4939030	V07	11/5/25

The truss drawing(s) referenced above have been prepared by Truss Engineering Co. under my direct supervision based on the parameters provided by Builders FirstSource-Sumter,SC.

Truss Design Engineer's Name: Gilbert, Eric

My license renewal date for the state of North Carolina is December 31, 2025

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



November 5,2025

Gilbert, Eric



RE: \$JOBNAME - \$JOBDESC

Trenco 818 Soundside Rd Edenton, NC 27932

Site Information:

Project Customer: \$SI_CUSTOMER Project Name: \$SI_JOBNAME
Lot/Block: \$SI_LOTNUM Subdivision: \$SI_SUBDIV
Address: \$SI_SITEADDR

City, County: \$SI_SITECITY State: \$SI_SITESTATE



RE: \$JOBNAME - \$JOBDESC

Trenco 818 Soundside Rd Edenton, NC 27932

Site Information:

Project Customer: \$SI_CUSTOMER Project Name: \$SI_JOBNAME
Lot/Block: \$SI_LOTNUM Subdivision: \$SI_SUBDIV
Address: \$SI_SITEADDR

City, County: \$SI_SITECITY State: \$SI_SITESTATE

Job	Truss	Truss Type	Qty	Ply	JSJ, Maplewood Prime B (5-8-25)	
4939030	A01	Common Supported Gable	1	1	Job Reference (optional)	177544882

31-11-0

15-11-8

15-11-8

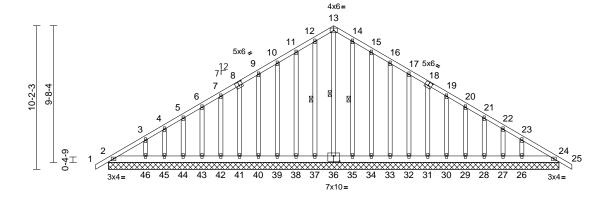
Builders FirstSource (Sumter, SC), Sumter, SC - 29153,

-0-11-0

0-11-0

Run: 8.83 S Sep 3 2025 Print: 8.830 S Sep 3 2025 MiTek Industries, Inc. Tue Nov 04 14:15:35 ID:YFAsy9mqBrEqN0MGY4iGStzmvGV-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f





Scale = 1:81.6

Plate Offsets (X, Y): [8:0-3-0,0-3-0], [18:0-3-0,0-3-0], [36:0-5-0,0-4-8]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.15	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.18	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.12	Horz(CT)	0.02	24	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS							Weight: 286 lb	FT = 20%

31-11-0

LUMBER TOP CHORD BOT CHORD OTHERS BRACING TOP CHORD BOT CHORD	2x6 SP N 2x4 SP N Structural 10-0-0 oc	o.2 o.3 I wood she purlins.	athing directly applied or applied or 6-0-0 oc		Max Grav	2=0 (LC 8), 24=125 (LC 24), 26=210 (LC 20), 27=83 (LC 20), 28=127 (LC 20), 29=118 (LC 20), 30=112 (LC 20), 31=120 (LC 20), 32=122 (LC 20), 33=118 (LC 20), 34=114 (LC 20), 35=137 (LC 20), 36=260 (LC 21), 37=133 (LC 19), 38=115 (LC 19), 39=117 (LC 19), 40=124 (LC 19), 41=116 (LC 19),
WEBS	1 Row at	midpt	13-36, 12-37, 14-35			42=117 (LC 19), 43=109 (LC 19),
REACTIONS		2=31-11-0	0, 24=31-11-0,			44=175 (LC 1), 45=100 (LC 8), 46=460 (LC 1)
			-0, 27=31-11-0,	FORCES	(lb) - Max	imum Compression/Maximum
					Tension	, , , , , , , , , , , , , , , , , , , ,
		28=31-11-0, 29=31-11-0, 30=31-11-0, 31=31-11-0, 32=31-11-0, 33=31-11-0, 34=31-11-0, 35=31-11-0, 36=31-11-0, 36=31-11-0, 36=31-11-0, 39=31-11-0, 40=31-11-0, 41=31-11-0, 42=31-11-0, 44=31-11-0, 45=31-11-0, 46=31-11-0, 31=62 (LC 38=64 (LC 13), 31=62 (LC 38=64 (LC 13), 35=-32 (LC 37=29 (LC 12), 38=-73 (LC 37=29 (LC 12), 40=62 (LC 41=64 (LC 12), 42=-53 (LC 43=69 (LC 12), 44=-36 (LC 43=69 (LC 12), 44=-36 (LC 41=64 (L	-0, 33=31-11-0, -0, 35=31-11-0, -0, 37=31-11-0, -0, 39=31-11-0, -0, 41=31-11-0, -0, 45=31-11-0, -0, 45=31-11-0, -0 (50) C 10) 20), 24=-62 (LC 9), C 13), 27=-48 (LC 13), C 13), 29=-62 (LC 13), C 13), 31=-62 (LC 13), C 13), 35=-32 (LC 13), C 13), 35=-32 (LC 12), C 12), 40=-62 (LC 12), C 12), 40=-62 (LC 12),	TOP CHORD BOT CHORD	1-2=0/28, 4-5=-103, 7-9=-103, 10-11=-1: 12-13=-2: 14-15=-2: 14-15=-2: 12-22=-1: 23-24=-2: 2-46=-24: 44-45=-2: 44-45=-2: 44-43=-2: 40-41=-2: 38-39=-2: 33-34=-2: 29-30=-2:	2-3=-207/259, 3-4=-154/218, (220, 5-6=-61/205, 6-7=-34/192, (196, 9-10=-141/204, 77/230, 11-12=-219/280, 41/306, 13-14=-241/306, 19/280, 15-16=-177/235, 41/224, 17-19=-103/215, 03/220, 20-21=-129/233, 56/247, 22-23=-181/254, 36/284, 24-25=0/28 1/273, 45-46=-241/273, 41/273, 44-42=-241/273, 41/273, 41-42=-241/273, 44/274, 39-40=-242/274, 42/274, 39-40=-242/274, 42/274, 30-31=-240/272, 40/272, 28-29=-240/272, 40/272, 28-29=-240/272, 40/272, 26-27=-240/272, 40/272, 28-29=-240/272, 4

WEBS 13-36=-234/130, 12-37=-107/45, 11-38=-110/89, 10-39=-99/77, 9-40=-105/79, 8-41=-100/80, 7-42=-95/71, 6-43=-100/79, 5-44=-105/75, 4-45=-86/87, 3-46=-158/96, 14-35=-110/48, 15-34=-110/88, 16-33=-99/77, 17-32=-104/80, 18-31=-101/78, 19-30=-94/72, 20-29=-100/78, 21-28=-102/78, 22-27=-87/70, 23-26=-144/102

0-11-0

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NOTES

- 1) Unbalanced roof live loads have been considered for this design
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable,



November 5,2025

ontinued on page 2

Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE

WARNING - Veniry design parameters and READ NOTES ON THIS AND INCLUDED MITTER REFERENCE PAGE MIT-473 rev. 17/2/2023 BEFORE USE.

Design valid for use only with MITE&® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see _ANS//TP1 Quality Criteria and DSB-22 _available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)



Job	Truss	Truss Type	Qty	Ply	JSJ, Maplewood Prime B (5-8-25)	
4939030	A01	Common Supported Gable	1	1	Job Reference (optional)	1882

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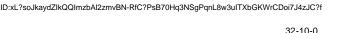
- All plates are 2x4 (||) MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 1-4-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads. * This truss has been designed for a live load of 20.0psf
- on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1 lb uplift at joint 2, 62 lb uplift at joint 24, 29 lb uplift at joint 37, 73 lb uplift at joint 38, 61 lb uplift at joint 39, 62 lb uplift at joint 40, 64 Ib uplift at joint 41, 53 lb uplift at joint 42, 69 lb uplift at joint 43, 36 lb uplift at joint 44, 217 lb uplift at joint 45, 59 lb uplift at joint 46, 32 lb uplift at joint 35, 72 lb uplift at joint 34, 61 lb uplift at joint 33, 64 lb uplift at joint 32, 62 Ib uplift at joint 31, 56 lb uplift at joint 30, 62 lb uplift at joint 29, 64 lb uplift at joint 28, 48 lb uplift at joint 27, 99 lb uplift at joint 26 and 1 lb uplift at joint 2.

LOAD CASE(S) Standard



Job	Truss	Truss Type	Qty	Ply	JSJ, Maplewood Prime B (5-8-25)	
4939030	A02	Common	5	1	Job Reference (optional)	177544883

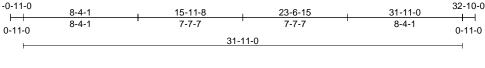
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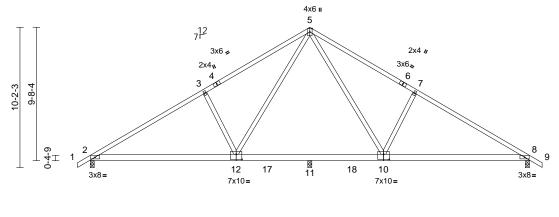


31-11-0

10-7-4

Page: 1





Scale = 1:83.7

Plate Offsets (X, Y): [10:0-5-0,0-4-8], [12:0-5-0,0-4-8]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.84	Vert(LL)	-0.13	10-16	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.72	Vert(CT)	-0.33	10-16	>584	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.73	Horz(CT)	0.05	8	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS		Wind(LL)	0.19	12-14	>999	240	Weight: 179 lb	FT = 20%

15-11-8

5-4-4

21-3-12

5-4-4

LUMBER

TOP CHORD 2x4 SP No.2 **BOT CHORD** 2x6 SP No.2 2x4 SP No.3 WEBS

BRACING

TOP CHORD Structural wood sheathing directly applied. Rigid ceiling directly applied or 9-10-6 oc **BOT CHORD**

bracing.

REACTIONS (size) 2=0-3-8, 8=0-3-8, 11=0-3-8

Max Horiz 2=328 (LC 11)

Max Uplift 2=-359 (LC 12), 8=-362 (LC 13) 2=1246 (LC 1), 8=1246 (LC 1), Max Grav

11=318 (LC 19)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/28, 2-3=-1854/673, 3-5=-1804/750, 5-7=-1803/749, 7-8=-1854/673, 8-9=0/28 **BOT CHORD** 2-11=-504/1630, 8-11=-418/1519

WEBS 5-12=-328/790, 3-12=-563/428, 5-10=-332/789, 7-10=-563/428

NOTES

- 1) Unbalanced roof live loads have been considered for this design
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.

Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 359 lb uplift at joint 2 and 362 lb uplift at joint 8.

LOAD CASE(S) Standard

10-7-4

10-7-4

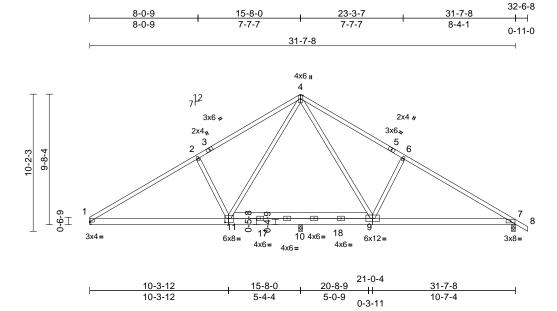
November 5,2025



Job	Truss	Truss Type	Qty	Ply	JSJ, Maplewood Prime B (5-8-25)	
4939030	A03	Common	6	1	Job Reference (optional)	177544884

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Scale = 1:85.6

Loading	(psf)	Spacing	2-0-0	csı		DEFL	in	(loc)	l/defl	I /d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.83	Vert(LL)	-0.12	9-16	>999		MT20	244/190
TCDL	10.0	Lumber DOL		BC		` '		9-16		240	IVITZU	244/190
		1	1.15	-	0.66	` ′	-0.29	9-16	>660			
BCLL	0.0*	Rep Stress Incr	YES	WB	0.61	Horz(CT)	0.04	7	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS		Wind(LL)	0.16	9-16	>999	240	Weight: 200 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2 2x6 SP No.2 **BOT CHORD** 2x4 SP No.3 WEBS

BRACING

TOP CHORD Structural wood sheathing directly applied or

2-2-0 oc purlins.

BOT CHORD Rigid ceiling directly applied or 10-0-0 oc

bracing.

REACTIONS 1= Mechanical, 7=0-3-8, 10=0-3-8 (size)

Max Horiz 1=-322 (LC 8)

Max Uplift 1=-277 (LC 12), 7=-317 (LC 13),

10=-92 (LC 12)

1=1035 (LC 1), 7=1097 (LC 1), Max Grav

10=565 (LC 19)

FORCES (lb) - Maximum Compression/Maximum

Tension TOP CHORD

1-2=-1579/550, 2-4=-1479/604,

4-6=-1526/616, 6-7=-1620/562, 7-8=0/28

BOT CHORD 1-10=-430/1412, 7-10=-324/1320

4-11=-259/579. 2-11=-547/422. 4-9=-275/648. **WEBS**

6-9=-559/426

NOTES

- 1) Unbalanced roof live loads have been considered for this design
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.

- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 277 lb uplift at joint 1, 317 lb uplift at joint 7 and 92 lb uplift at joint 10.

LOAD CASE(S) Standard



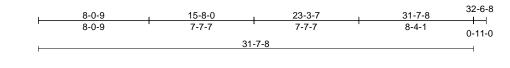
November 5,2025

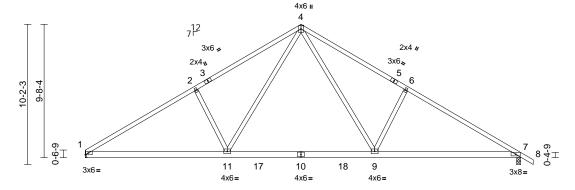


Job	Truss	Truss Type	Qty	Ply	JSJ, Maplewood Prime B (5-8-25)	
4939030	A04	Common	6	1	Job Reference (optional)	177544885

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10-3-12	21-0-4	31-7-8
10-3-12	10-8-8	10-7-4

Scale = 1:83.7

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.90	Vert(LL)	-0.20	9-11	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.71	Vert(CT)	-0.30	9-11	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.72	Horz(CT)	0.05	7	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS		Wind(LL)	0.16	9-16	>999	240	Weight: 176 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2 2x6 SP No.2 **BOT CHORD** 2x4 SP No.3 WEBS

BRACING

TOP CHORD Structural wood sheathing directly applied. **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc

bracing.

REACTIONS (size) 1= Mechanical, 7=0-3-8

Max Horiz 1=-322 (LC 8)

Max Uplift 1=-323 (LC 12), 7=-357 (LC 13) Max Grav 1=1287 (LC 19), 7=1344 (LC 20)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-2025/668, 2-4=-1927/744,

4-6=-1973/756, 6-7=-2068/679, 7-8=0/28 **BOT CHORD** 1-11=-490/1881, 9-11=-148/1205,

7-9=-424/1678

4-11=-314/914, 2-11=-543/423, 4-9=-329/984, WEBS

6-9=-558/428

NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Refer to girder(s) for truss to truss connections.

6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 323 lb uplift at joint 1 and 357 lb uplift at joint 7.

LOAD CASE(S) Standard

November 5,2025

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

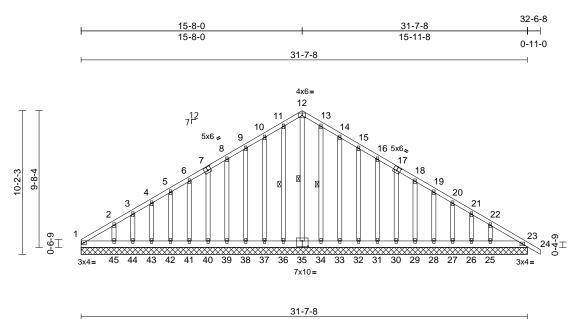
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TP11 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)



Job	Truss	Truss Type	Qty	Ply	JSJ, Maplewood Prime B (5-8-25)	
4939030	A05	Common Supported Gable	1	1	Job Reference (optional)	177544886

Run: 8.83 S Sep 3 2025 Print: 8.830 S Sep 3 2025 MiTek Industries, Inc. Tue Nov 04 14:15:37 ID:8W9RimTznmkG21WMuR4oqWzmv2g-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:81.6

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.08	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.05	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.12	Horz(CT)	0.01	23	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS							Weight: 283 lb	FT = 20%

BCDL		10.0	Code	IRC2015/TPI2014	
LUMBER					M
TOP CHORD	2x4 SP N	0.2			
BOT CHORD	2x6 SP N	0.2			
OTHERS	2x4 SP N	0.3			
BRACING					
TOP CHORD	Structura	wood she	athing direc	tly applied or	
	6-0-0 oc	ourlins.	· ·		
BOT CHORD	Rigid ceil	ing directly	applied or	10-0-0 oc	
	bracing.				
WEBS	1 Row at	midpt	12-35, 11-3	36, 13-34	
REACTIONS	(size)	1=31-7-8,	23=31-7-8	, 25=31-7-8,	
		26=31-7-8	3 27=31-7-	8 28=31-7-8	

at	midpt	12-35, 11-36, 13-34	
	1=31-7-8	3, 23=31-7-8, 25=31-7-8,	
	26=31-7	-8, 27=31-7-8, 28=31-7-8,	
	29=31-7	-8, 30=31-7-8, 31=31-7-8,	
	32=31-7	-8, 33=31-7-8, 34=31-7-8,	
	35=31-7	-8, 36=31-7-8, 37=31-7-8,	
	38=31-7	-8, 39=31-7-8, 40=31-7-8,	
	41=31-7	-8, 42=31-7-8, 43=31-7-8,	
	44=31-7	-8, 45=31-7-8	
riz	1=-322 (LC 8)	

Max Uplift 1=-62 (LC 10), 23=-9 (LC 9), 25=-99 (LC 13), 26=-48 (LC 13), 27=-64 (LC 13), 28=-62 (LC 13), 31=-64 (LC 13), 32=-61 (LC 13), 31=-64 (LC 13), 32=-61 (LC 13), 33=-73 (LC 13), 34=-30 (LC 13), 36=-38 (LC 12), 37=-70 (LC 12), 38=-61 (LC 12), 39=-64 (LC 12), 40=-62 (LC 12), 41=-56 (LC 12), 42=-60 (LC 12), 43=-69 (LC 12), 44=-28 (LC 12), 45=-145 (LC 12)

Max Grav 1=152 (LC 20), 23=161 (LC 1), 25=214 (LC 20), 26=80 (LC 20), 27=128 (LC 20), 28=117 (LC 20), 29=114 (LC 20), 30=119 (LC 20), 31=122 (LC 20), 32=118 (LC 20), 33=121 (LC 20), 35=206 (LC 13), 36=124 (LC 19), 37=118 (LC 19), 40=118 (LC 19), 41=114 (LC 19), 42=117 (LC 19), 43=129 (LC 19), 44=75 (LC 1), 45=229 (LC 19)

FORCES (Ib) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=-287/224, 2-3=-221/193, 3-4=-195/181, 4-5=-169/163, 5-6=-155/151, 6-8=-143/170, 8-9=-140/198, 9-10=-177/224, 10-11=-218/256, 11-12=-240/284, 12-13=-240/284, 13-14=-218/256, 14-15-477/207, 15-14-218/256, 14-15-477/207, 15-14-218/256, 14-15-477/207, 15-14-218/256, 14-15-477/207, 15-14-218/256, 14-15-477/207, 15-14-218/256, 14-15-477/207, 15-14-218/256, 14-15-477/207, 15-14-218/256, 14-15-477/207, 15-14-218/256, 14-15-477/207, 15-14-218/256, 14-15-477/207, 15-14-218/256, 14-15-477/207, 15-14-218/256, 14-14

14-15=-177/207, 15-16=-140/163, 16-18=-102/117, 18-19=-66/61, 19-20=-78/69, 20-21=-115/86, 21-22=-158/99, 22-23=-21/156, 23-24=0/28 1-45=-170/261, 44-45=-170/261, 43-44=-170/261, 40-41=-170/261, 41-42=-170/261, 40-41=-170/261.

43-44-170/261, 42-43-170/261, 43-40-170/261, 40-41-170/261, 39-40-172/261, 38-39-172/261, 37-38-172/261, 36-37-172/261, 34-36-172/261, 33-34-172/261, 32-33-472/261, 31-32-172/261, 30-31-172/261, 29-30-170/260, 28-29-170/260, 27-28-170/260, 26-27-170/260, 25-26-170/260, 23-25-170/260 Weight: 283 lb FT = 2
WEBS 12-35=-199/130, 11-36=-97/54

10-37=-110/86, 9-38=-99/77, 8-39=-104/80, 7-40=-100/78, 6-41=-94/72, 5-42=-100/78, 4-43=-102/79, 3-44=-87/67, 2-45=-140/108, 13-34=-89/46, 14-33=-110/89, 15-32=-99/77, 16-31=-104/80, 17-30=-100/78, 18-29=-94/72, 19-28=-100/78, 20-27=-102/78, 21-26=-87/70, 22-25=-144/102

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) zone; cantilever left and right exposed; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designed as per ANSI/TPI 1



November 5,2025

Max Hor

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall

BOT CHORD

a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI (audity Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)



Job	Truss	Truss Type	Qty	Ply	JSJ, Maplewood Prime B (5-8-25)	
4939030	A05	Common Supported Gable	1	1	Job Reference (optional)	

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- All plates are 2x4 (||) MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 1-4-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads. * This truss has been designed for a live load of 20.0psf
- on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 69 lb uplift at joint 1, 38 lb uplift at joint 36, 70 lb uplift at joint 37, 61 lb uplift at joint 38, 64 lb uplift at joint 39, 62 lb uplift at joint 40, 56 lb uplift at joint 41, 60 lb uplift at joint 42, 69 lb uplift at joint 43, 28 lb uplift at joint 44, 145 lb uplift at joint 45, 30 lb uplift at joint 34, 73 lb uplift at joint 33, 61 lb uplift at joint 32, 64 lb uplift at joint 31, 62 lb uplift at joint 30, 56 Ib uplift at joint 29, 62 lb uplift at joint 28, 64 lb uplift at joint 27, 48 lb uplift at joint 26, 99 lb uplift at joint 25, 9 lb uplift at joint 23 and 69 lb uplift at joint 1.
- 10) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 1, 46.

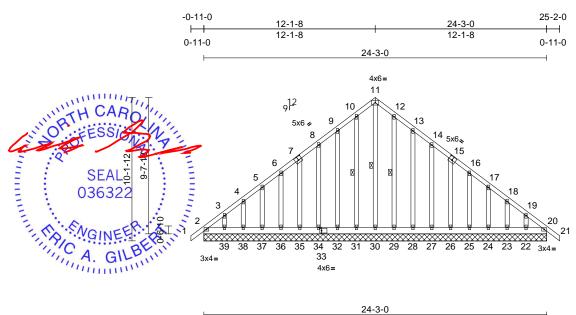
LOAD CASE(S) Standard



818 Soundside Road Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	JSJ, Maplewood Prime B (5-8-25)	
4939030	B01	Common Supported Gable	1	1	Job Reference (optional)	177544887

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Scale = 1:81.5

Plate Offsets (X, Y):	[7:0-3-0,0-3-0], [15:0-3-0,0-3-0], [33:0-1-8,0-2-0]
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Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.08	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.05	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.12	Horz(CT)	0.01	20	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS							Weight: 224 lb	FT = 20%

and C-C Exterior (2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown;

Lumber DOL=1.60 plate grip DOL=1.60

DODL		10.0	0000	IITOZOI	0/11/12/01/1	Matrix MO	<u> </u>
LUMBER	0: 4 OD N	- 0		F	ORCES	(lb) - Maximum Compress Tension	ion/Maximum
TOP CHORD BOT CHORD	2x4 SP N 2x6 SP N			Т	OP CHORD	1-2=0/33, 2-3=-338/227, 3	-4=-276/203
OTHERS	2x4 SP N			•	0	4-5=-211/179, 5-6=-167/19	
BRACING	2210111	0.0				8-9=-129/177, 9-10=-186/2	220,
TOP CHORD	Structura	l wood she	athing directly applied	d or		10-11=-218/254, 11-12=-2	18/254,
TOT OHORD	0100001		atting directly applied	u oi		12-13=-186/213, 13-14=-1	29/145,
BOT CHORD			applied or 10-0-0 oc			14-16=-75/87, 16-17=-95/	,
	bracing.					17-18=-159/103, 18-19=-2	
WEBS	1 Row at	midpt	11-30, 10-31, 12-29	_		19-20=-287/202, 20-21=0/	
REACTIONS	(size)	2=24-3-0.	20=24-3-0, 22=24-3-	-0. B	OT CHORD	2-39=-192/291, 38-39=-19	
	,	23=24-3-0), 24=24-3-0, 25=24-3	3-0,		37-38=-192/291, 36-37=-1	
		26=24-3-0), 27=24-3-0, 28=24-3	3-0,		35-36=-192/291, 34-35=-1 32-34=-196/293, 31-32=-1	
		29=24-3-0), 30=24-3-0, 31=24-3	3-0,		30-31=-196/293, 29-30=-1	
), 34=24-3-0, 35=24-3			28-29=-196/293, 27-28=-1	
), 37=24-3-0, 38=24-3	3-0,		26-27=-196/293, 25-26=-1	
		39=24-3-0				24-25=-192/289, 23-24=-1	
	Max Horiz	,	,			22-23=-192/289, 20-22=-1	92/289
	Max Uplift		8), 20=-42 (LC 9),	W	EBS	11-30=-219/149, 10-31=-1	01/68,
			LC 13), 23=-68 (LC 1 C 13), 25=-64 (LC 13			9-32=-122/102, 8-34=-120	
			C 13), 25=-64 (LC 13 C 13), 27=-82 (LC 13			6-36=-99/81, 5-37=-114/9	-, ,
		,	C 13), 27=-62 (LC 13 C 13), 29=-45 (LC 13	, ,		3-39=-116/92, 12-29=-93/	
			C 12), 32=-86 (LC 12			13-28=-122/104, 14-27=-1	,
			C 12), 35=-78 (LC 12			15-26=-112/94, 16-25=-99	
			C 12), 37=-81 (LC 12			18-23=-112/93, 19-22=-11	6/91
		38=-66 (L	C 12), 39=-116 (LC 1	(2)			
	Max Grav	2=194 (LC	C 21), 20=167 (LC 22	.),	OTES		
			.C 20), 23=120 (LC 2			ed roof live loads have been	considered for
		,	C 20), 25=112 (LC 2	′′ 2\	this design	ı. CE 7-10; Vult=130mph (3-se	cond auct)
			.C 20), 27=130 (LC 2			mph; TCDL=6.0psf; BCDL=6	
			.C 20), 29=120 (LC 2			Enclosed; MWFRS (envelop	
		30=222 (L	.C 13), 31=128 (LC 1	9),		vterior (2) zene: centilever le	

- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- All plates are 2x4 (||) MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 1-4-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 92 lb uplift at joint 2, 42 lb uplift at joint 20, 52 lb uplift at joint 31, 86 lb uplift at joint 32, 83 lb uplift at joint 34, 78 lb uplift at joint 35, 64 lb uplift at joint 36, 81 lb uplift at joint 37, 66 lb uplift at joint 38, 116 lb uplift at joint 39, 45 lb uplift at joint 29, 88 Ib uplift at joint 28, 82 lb uplift at joint 27, 78 lb uplift at joint 26, 64 lb uplift at joint 25, 81 lb uplift at joint 24, 68 Ib uplift at joint 23, 109 lb uplift at joint 22, 92 lb uplift at joint 2 and 42 lb uplift at joint 20.

November 5,2025

Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE

32=122 (LC 19), 34=130 (LC 19), 35=123 (LC 19), 36=112 (LC 19),

37=126 (LC 19), 38=118 (LC 19),

39=139 (LC 19)

WARNING - Ventry design parameters and READ NOTES ON THIS AND INCLUDED MITTER REFERENCE PAGE MIT-473 rev. 1/2/2023 BEFORE USE.

Design valid for use only with MITEK's connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TP1 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)



Job	Truss	Truss Type	Qty	Ply	JSJ, Maplewood Prime B (5-8-25)	
4939030	B01	Common Supported Gable	1	1	Job Reference (optional)	177544887

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LOAD CASE(S) Standard

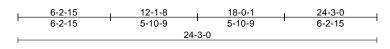
Page: 2



Job Truss Truss Type Qty Ply JSJ, Maplewood Prime B (5-8-25) 177544888 3 4939030 B₀2 Common Girder Job Reference (optional)

Builders FirstSource (Sumter, SC), Sumter, SC - 29153,

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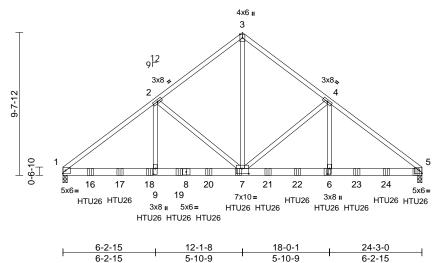


Plate Offsets (X, Y): [6:0-4-8,0-1-8], [7:0-5-0,0-4-4], [9:0-4-12,0-1-8]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.67	Vert(LL)	-0.10	7-9	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.45	Vert(CT)	-0.20	7-9	>999	240		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.63	Horz(CT)	0.04	5	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS		Wind(LL)	0.11	7-9	>999	240	Weight: 451 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2

BOT CHORD 2x6 SP 2400F 2.0E or 2x6 SP DSS

2x4 SP No.2 WEBS

BRACING

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins.

BOT CHORD Rigid ceiling directly applied or 10-0-0 oc

bracing.

REACTIONS 1=0-3-8, 5=0-3-8 (size) Max Horiz 1=303 (LC 24)

Max Uplift 1=-2056 (LC 8), 5=-2152 (LC 9)

Max Grav 1=7658 (LC 1), 5=7841 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

1-2=-10256/2765, 2-3=-6803/1967, TOP CHORD 3-4=-6803/1967, 4-5=-9677/2653

BOT CHORD 1-9=-2281/8286, 7-9=-2281/8286,

6-7=-2021/7686 5-6=-2021/7686

3-7=-2155/7696, 4-7=-3028/1086,

4-6=-863/3279, 2-7=-3771/1202,

2-9=-1003/4098

NOTES

WFBS

- 3-ply truss to be connected together with 10d (0.131"x3") nails as follows:
 - Top chords connected as follows: 2x4 1 row at 0-9-0
 - Bottom chords connected as follows: 2x6 2 rows staggered at 0-5-0 oc.
- Web connected as follows: 2x4 1 row at 0-9-0 oc. All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B),
- unless otherwise indicated. 3) Unbalanced roof live loads have been considered for this design.

- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom 5) chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 2056 lb uplift at joint 1 and 2152 lb uplift at joint 5.
- Use Simpson Strong-Tie HTU26 (20-10d Girder, 11-10dx1 1/2 Truss) or equivalent spaced at 2-0-0 oc max. starting at 1-10-4 from the left end to 23-10-4 to connect truss(es) to back face of bottom chord.
- Fill all nail holes where hanger is in contact with lumber.

LOAD CASE(S) Standard

Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (lb/ft)

Vert: 1-3=-60, 10-13=-20, 3-5=-60

Concentrated Loads (lb)

Vert: 7=-1244 (B), 6=-1015 (B), 15=-1021 (B), 16=-1244 (B), 17=-1244 (B), 18=-1244 (B), 19=-1244 (B), 20=-1244 (B), 21=-1015 (B), 22=-1015 (B), 23=-1015 (B), 24=-1015 (B)

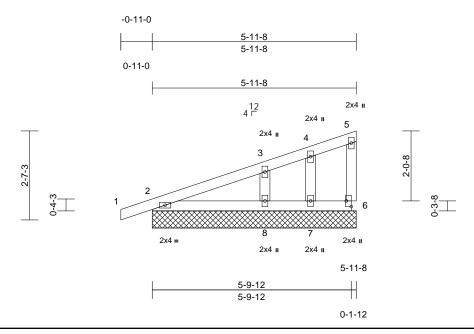


November 5,2025



Job	Truss	Truss Type	Qty	Ply	JSJ, Maplewood Prime B (5-8-25)	
4939030	C01	Monopitch Supported Gable	1	1	Job Reference (optional)	177544889

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Scale = 1:33.6

Plate Offsets (X, Y): [6:Edge,0-1-12]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.10	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	ВС	0.08	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.06	Horz(CT)	0.00	2	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MP							Weight: 25 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2 2x4 SP No.2 **BOT CHORD** 2x4 SP No.2 WEBS 2x4 SP No.3 **OTHERS**

BRACING

TOP CHORD Structural wood sheathing directly applied or

5-11-8 oc purlins, except end verticals. **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc

bracing.

REACTIONS (size) 2=5-11-8, 6=5-11-8, 7=5-11-8,

8=5-11-8

Max Horiz 2=122 (LC 8)

Max Uplift 2=-73 (LC 8), 6=-21 (LC 12), 7=-23 (LC 8), 8=-108 (LC 12)

2=172 (LC 1), 6=49 (LC 1), 7=43 Max Grav

(LC 1), 8=255 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/17, 2-3=-111/52, 3-4=-44/13,

4-5=-17/9, 5-6=-34/41 2-8=-30/54, 7-8=0/0, 6-7=0/0

BOT CHORD WEBS 4-7=-46/67, 3-8=-167/185

NOTES

- Unbalanced roof live loads have been considered for this design
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) zone; cantilever left and right exposed; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Gable requires continuous bottom chord bearing.

- Gable studs spaced at 1-4-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 73 lb uplift at joint 2, 21 lb uplift at joint 6, 23 lb uplift at joint 7, 108 lb uplift at joint 8 and 73 lb uplift at joint 2.

LOAD CASE(S) Standard

November 5,2025



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

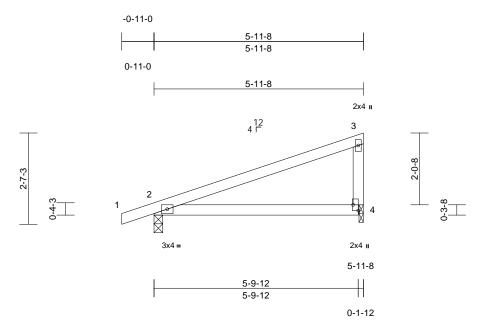
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall

building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)



Job	Truss	Truss Type	Qty	Ply	JSJ, Maplewood Prime B (5-8-25)	
4939030	C02	Monopitch	5	1	Job Reference (optional)	177544890

Run: 8.83 S Sep 3 2025 Print: 8.830 S Sep 3 2025 MiTek Industries, Inc. Tue Nov 04 14:15:38 ID:G2QI0vEc7W9ycxln8Lct_Ozmuvx-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Scale = 1:32.8

Plate Offsets ()	X, Y):	[4:Edge,	0-1-12
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Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.53	Vert(LL)	0.18	4-7	>385	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.53	Vert(CT)	-0.12	4-7	>591	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	2	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MP							Weight: 22 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 5-11-8 oc purlins, except end verticals.

BOT CHORD Rigid ceiling directly applied or 10-0-0 oc

bracing.

REACTIONS (size) 2=0-3-0, 4=0-1-8

Max Horiz 2=122 (LC 8)

Max Uplift 2=-193 (LC 8), 4=-167 (LC 8) Max Grav 2=292 (LC 1), 4=228 (LC 1) (lb) - Maximum Compression/Maximum

FORCES (lb) - Maxii Tension

TOP CHORD 1-2=0/17, 2-3=-100/136, 3-4=-152/203

BOT CHORD 2-4=-190/101

NOTES

- Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) zone; cantilever left and right exposed; end vertical left exposed; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Bearing at joint(s) 4 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.

- 6) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 4.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 193 lb uplift at joint 2 and 167 lb uplift at joint 4.

LOAD CASE(S) Standard



Page: 1

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a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)

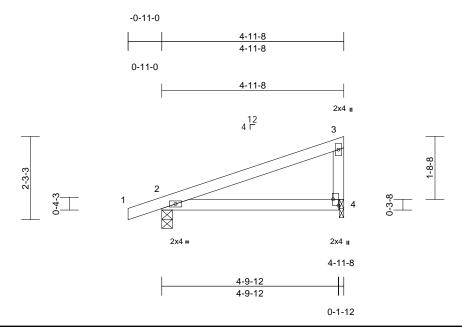


818 Soundside Road Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	JSJ, Maplewood Prime B (5-8-25)	
4939030	C03	Monopitch	12	1	Job Reference (optional)	177544891

Run: 8.83 S Sep 3 2025 Print: 8.830 S Sep 3 2025 MiTek Industries, Inc. Tue Nov 04 14:15:38 ID:Zgtq37XfTuBYVdaPYO1WySzmuvZ-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.32	Vert(LL)	-0.02	4-7	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.26	Vert(CT)	-0.05	4-7	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	2	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MP		Wind(LL)	0.04	4-7	>999	240	Weight: 19 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 4-11-8 oc purlins, except end verticals. **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc

bracing.

REACTIONS 2=0-3-8, 4=0-1-8 (size) Max Horiz 2=105 (LC 8)

> Max Uplift 2=-111 (LC 8), 4=-79 (LC 12) Max Grav 2=253 (LC 1), 4=187 (LC 1) (lb) - Maximum Compression/Maximum

FORCES Tension

TOP CHORD 1-2=0/17, 2-3=-81/32, 3-4=-124/140

BOT CHORD 2-4=-65/98

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) zone; cantilever left and right exposed; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Bearing at joint(s) 4 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate at joint(s) 4.

7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 111 lb uplift at joint 2 and 79 lb uplift at joint 4.

LOAD CASE(S) Standard

November 5,2025



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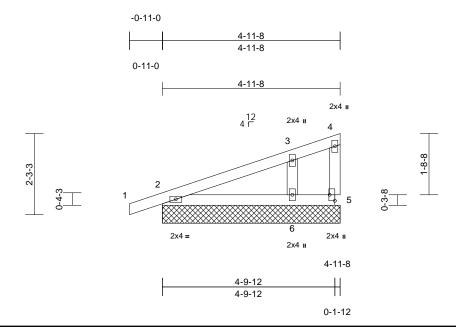
building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TP11 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)



Job	Truss	Truss Type	Qty	Ply	JSJ, Maplewood Prime B (5-8-25)	
4939030	C04	Monopitch Supported Gable	1	1	Job Reference (optional)	177544892

Run: 8.83 S Sep 3 2025 Print: 8.830 S Sep 3 2025 MiTek Industries, Inc. Tue Nov 04 14:15:38 ID:wvC8geoSleyQ8?Gdq?Rgr5zmuvD-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:32.2

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.12	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.10	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.06	Horz(CT)	0.00	2	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MP							Weight: 20 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2 **BOT CHORD** 2x4 SP No.2 2x4 SP No.2 WEBS 2x4 SP No.3 OTHERS

BRACING

TOP CHORD Structural wood sheathing directly applied or

4-11-8 oc purlins, except end verticals. BOT CHORD Rigid ceiling directly applied or 10-0-0 oc

bracing.

REACTIONS 2=4-11-8, 5=4-11-8, 6=4-11-8 (size)

Max Horiz 2=105 (LC 8)

Max Uplift 2=-83 (LC 8), 5=-29 (LC 1), 6=-121 (I C 12)

Max Grav 2=182 (LC 1), 5=12 (LC 12), 6=287

(LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/17, 2-3=-82/43, 3-4=-26/1, 4-5=-3/13

BOT CHORD 2-6=-31/59, 5-6=0/0 WFBS 3-6=-189/215

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) zone; cantilever left and right exposed; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face). see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 1-4-0 oc.

- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 83 lb uplift at joint 2, 29 lb uplift at joint 5, 121 lb uplift at joint 6 and 83 lb uplift at joint 2.

LOAD CASE(S) Standard



November 5,2025

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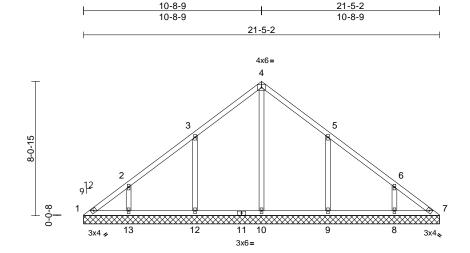
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Job	Truss	Truss Type	Qty	Ply	JSJ, Maplewood Prime B (5-8-25)	
4939030	V01	Valley	1	1	Job Reference (optional)	177544893

Run: 8.83 S Sep 3 2025 Print: 8.830 S Sep 3 2025 MiTek Industries, Inc. Tue Nov 04 14:15:39 ID:9V??y3pPQBcJjgHZpYrH6ezmvKI-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



21-5-2 Scale = 1:69.3

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.20	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.19	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.25	Horiz(TL)	0.01	7	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS							Weight: 99 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2 2x4 SP No.2 **BOT CHORD** 2x4 SP No.3 **OTHERS**

BRACING

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins.

BOT CHORD Rigid ceiling directly applied or 10-0-0 oc

bracing.

REACTIONS (size)

1=21-5-2, 7=21-5-2, 8=21-5-2, 9=21-5-2, 10=21-5-2, 12=21-5-2,

13=21-5-2

Max Horiz 1=-263 (LC 8)

Max Uplift 1=-67 (LC 8), 7=-5 (LC 9), 8=-181 (LC 13), 9=-259 (LC 13), 12=-258

(LC 12), 13=-186 (LC 12)

1=151 (LC 20), 7=106 (LC 22),

8=319 (LC 20), 9=457 (LC 20),

10=432 (LC 22), 12=457 (LC 19),

13=325 (LC 19)

FORCES (lb) - Maximum Compression/Maximum

Max Grav

1-2=-248/214, 2-3=-183/161, 3-4=-214/237, TOP CHORD

4-5=-214/227, 5-6=-115/82, 6-7=-187/128 **BOT CHORD** 1-13=-118/190, 12-13=-118/190,

10-12=-118/190, 9-10=-118/190,

8-9=-118/190, 7-8=-118/190

4-10=-216/7, 3-12=-364/307, 2-13=-286/228,

WEBS 5-9=-364/307, 6-8=-286/226

NOTES

- Unbalanced roof live loads have been considered for 1) this design
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- All plates are 2x4 (||) MT20 unless otherwise indicated. Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 67 lb uplift at joint 1, 5 lb uplift at joint 7, 258 lb uplift at joint 12, 186 lb uplift at joint 13, 259 lb uplift at joint 9 and 181 lb uplift at joint 8

LOAD CASE(S) Standard



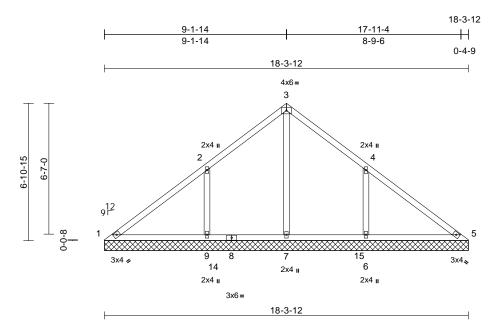
November 5,2025



Job	Truss	Truss Type	Qty	Ply	JSJ, Maplewood Prime B (5-8-25)	
4939030	V02	Valley	1	1	Job Reference (optional)	177544894

Run: 8.83 S Sep 3 2025 Print: 8.830 S Sep 3 2025 MiTek Industries, Inc. Tue Nov 04 14:15:39 ID:hay2JX0Sf5d2e8Velv71m0zmvK2-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

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Scale	=	1:5
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Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.32	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.23	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.31	Horiz(TL)	0.00	5	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS							Weight: 79 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2 2x4 SP No.2 **BOT CHORD** 2x4 SP No.3 **OTHERS**

BRACING

TOP CHORD Structural wood sheathing directly applied or 10-0-0 oc purlins.

BOT CHORD Rigid ceiling directly applied or 6-0-0 oc

bracing.

REACTIONS (size) 1=18-3-12, 5=18-3-12, 6=18-3-12,

7=18-3-12, 9=18-3-12

Max Horiz 1=-225 (LC 8)

Max Uplift 1=-30 (LC 8), 6=-309 (LC 13), 9=-313 (LC 12)

1=116 (LC 20), 5=103 (LC 24), Max Grav

6=550 (LC 20), 7=532 (LC 19),

9=554 (LC 19)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-215/318, 2-3=-25/218, 3-4=0/205,

4-5=-157/270

BOT CHORD 1-9=-264/214, 7-9=-264/214, 6-7=-264/214,

5-6=-264/214

WEBS 3-7=-368/39, 2-9=-417/334, 4-6=-417/333

NOTES

- Unbalanced roof live loads have been considered for 1) this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable or consult qualified building designer as per ANSI/TPI 1.
- Gable requires continuous bottom chord bearing.

- Gable studs spaced at 4-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 30 lb uplift at joint 1, 313 lb uplift at joint 9 and 309 lb uplift at joint 6.

LOAD CASE(S) Standard



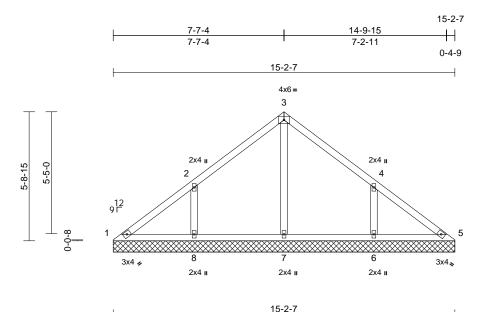
November 5,2025



Job	Truss	Truss Type	Qty	Ply	JSJ, Maplewood Prime B (5-8-25)	
4939030	V03	Valley	1	1	Job Reference (optional)	177544895

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Page: 1



Scale = 1:51.3

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.21	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.11	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.14	Horiz(TL)	0.00	5	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS							Weight: 64 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2 **BOT CHORD** 2x4 SP No.2 2x4 SP No.3 **OTHERS**

BRACING

TOP CHORD Structural wood sheathing directly applied or

10-0-0 oc purlins.

BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS (size) 1=15-2-7, 5=15-2-7, 6=15-2-7, 7=15-2-7, 8=15-2-7

Max Horiz 1=-186 (LC 8)

Max Uplift 1=-33 (LC 8), 6=-249 (LC 13),

8=-252 (LC 12)

1=125 (LC 20), 5=96 (LC 24), Max Grav

6=406 (LC 20), 7=317 (LC 1),

8=410 (LC 19)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-160/183, 2-3=-93/149, 3-4=-93/128, 4-5=-115/131

1-8=-119/149, 7-8=-119/138, 6-7=-119/138, 5-6=-119/138

WEBS 3-7=-245/20, 2-8=-349/282, 4-6=-349/281

NOTES

BOT CHORD

- 1) Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable or consult qualified building designer as per ANSI/TPI 1.
- 4) Gable requires continuous bottom chord bearing.

- Gable studs spaced at 4-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 33 lb uplift at joint 1, 252 lb uplift at joint 8 and 249 lb uplift at joint 6.

LOAD CASE(S) Standard



November 5,2025



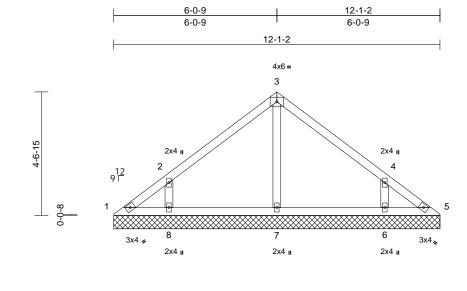




Job	Truss	Truss Type	Qty	Ply	JSJ, Maplewood Prime B (5-8-25)	
4939030	V04	Valley	1	1	Job Reference (optional)	177544896

Run: 8.83 S Sep 3 2025 Print: 8.830 S Sep 3 2025 MiTek Industries, Inc. Tue Nov 04 14:15:39 ID:LiGsX4nzpSZ6ipplxemoplzmvJ3-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:42.7

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.18	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.12	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.08	Horiz(TL)	0.00	5	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS							Weight: 48 lb	FT = 20%

12-1-2

LUMBER

TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No.2 OTHERS 2x4 SP No.3

BRACING

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins.

BOT CHORD Rigid ceiling directly applied or 10-0-0 oc

bracing.

REACTIONS (size) 1=12-1-2, 5=12-1-2, 6=12-1-2,

7=12-1-2, 8=12-1-2 Max Horiz 1=-147 (LC 8)

Max Uplift 1=-45 (LC 8), 5=-9 (LC 9), 6=-209

(LC 13), 8=-213 (LC 12)

Max Grav 1=97 (LC 20), 5=69 (LC 19), 6=342 (LC 20), 7=253 (LC 1), 8=347 (LC

19)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-140/127, 2-3=-146/139, 3-4=-146/132,

4-5=-98/74 1-8=-46/85, 7-8=-42/85, 6-7=-42/85,

5-6=-42/85 WEBS 3-7=-167/20, 2-8=-332/276, 4-6=-332/274

NOTES

BOT CHORD

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) zone; cantilever left and right exposed; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Gable requires continuous bottom chord bearing.

- 5) Gable studs spaced at 4-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 45 lb uplift at joint 1, 9 lb uplift at joint 5, 213 lb uplift at joint 8 and 209 lb uplift at joint 6.

LOAD CASE(S) Standard

SEAL 036322

November 5,2025

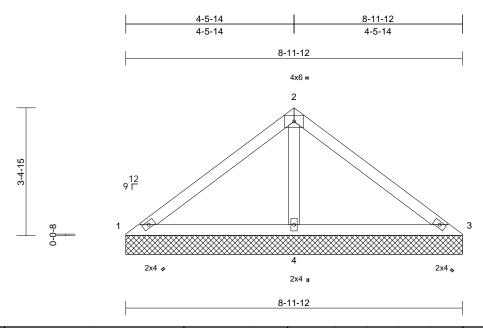


818 Soundside Road Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	JSJ, Maplewood Prime B (5-8-25)		
4939030	V05	Valley	1	1	Job Reference (optional)	177544897	

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Loading	(psf)	Spacing	2-0-0	csı		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.23	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.22	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.12	Horiz(TL)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS							Weight: 33 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2 2x4 SP No.2 **BOT CHORD** 2x4 SP No.3 OTHERS

BRACING

TOP CHORD Structural wood sheathing directly applied or

8-11-12 oc purlins.

BOT CHORD Rigid ceiling directly applied or 6-0-0 oc

bracing.

REACTIONS (size) 1=8-11-12, 3=8-11-12, 4=8-11-12

Max Horiz 1=-108 (LC 10)

Max Uplift 1=-13 (LC 24), 3=-20 (LC 8),

4=-194 (LC 12)

1=76 (LC 23), 3=76 (LC 24), 4=633 Max Grav

(LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-112/271, 2-3=-112/264

BOT CHORD 1-4=-257/178, 3-4=-257/178 2-4=-523/277 WEBS

NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 13 lb uplift at joint 1, 20 lb uplift at joint 3 and 194 lb uplift at joint 4.

LOAD CASE(S) Standard



November 5,2025

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

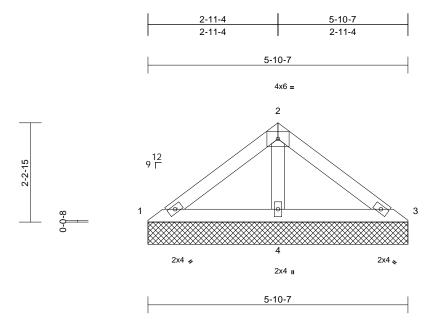
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TP11 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)



Job	Truss	Truss Type	Qty	Ply	JSJ, Maplewood Prime B (5-8-25)	
4939030	V06	Valley	1	1	Job Reference (optional)	177544898

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Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.10	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.11	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.05	Horiz(TL)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MP							Weight: 21 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2 **BOT CHORD** 2x4 SP No.2 2x4 SP No.3 **OTHERS**

BRACING

TOP CHORD Structural wood sheathing directly applied or

5-10-7 oc purlins.

BOT CHORD Rigid ceiling directly applied or 6-0-0 oc

bracing.

REACTIONS (size) 1=5-10-7, 3=5-10-7, 4=5-10-7

1=69 (LC 9) Max Horiz

Max Uplift 1=-5 (LC 12), 3=-18 (LC 13),

4=-105 (LC 12)

1=67 (LC 23), 3=67 (LC 24), 4=367 Max Grav

(LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-61/135, 2-3=-61/127 1-4=-143/109, 3-4=-143/109

BOT CHORD WEBS 2-4=-257/135

NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 3-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 5 lb uplift at joint 1, 18 lb uplift at joint 3 and 105 lb uplift at joint 4.

LOAD CASE(S) Standard



November 5,2025

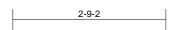


Job	Truss	Truss Type	Qty	Ply	JSJ, Maplewood Prime B (5-8-25)	
4939030	V07	Valley	1	1	Job Reference (optional)	177544899

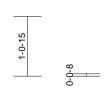
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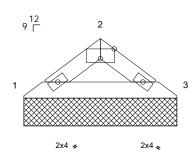
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3x6 =





2-9-2

Scale = 1:20.8

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.05	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.05	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horiz(TL)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MP							Weight: 8 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2 2x4 SP No.2 BOT CHORD

BRACING

TOP CHORD Structural wood sheathing directly applied or 2-9-2 oc purlins.

BOT CHORD Rigid ceiling directly applied or 10-0-0 oc

bracing.

REACTIONS (size) 1=2-9-2, 3=2-9-2

Max Horiz 1=-30 (LC 10)

Max Uplift 1=-28 (LC 12), 3=-28 (LC 13) Max Grav 1=110 (LC 1), 3=110 (LC 1) (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-146/58, 2-3=-146/58

BOT CHORD 1-3=-34/118

NOTES

FORCES

- 1) Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) $Vasd=103mph;\ TCDL=6.0psf;\ BCDL=6.0psf;\ h=25ft;\ Cat.$ II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) Gable requires continuous bottom chord bearing.
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom 6) chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.

Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 28 lb uplift at joint 1 and 28 lb uplift at joint 3.

LOAD CASE(S) Standard



November 5,2025

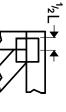
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent bucking of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TP11 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)

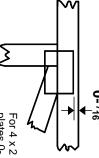


Symbols

PLATE LOCATION AND ORIENTATION



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



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

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

* Plate location details available in MiTek software or upon request

PLATE SIZE

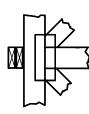
to slots. Second dimension is the length parallel to slots. width measured perpendicular The first dimension is the plate

LATERAL BRACING LOCATION



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

BEARING



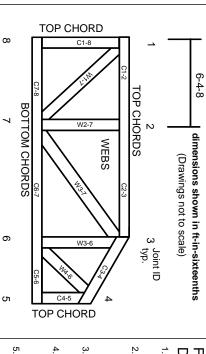
Min size shown is for crushing only number/letter where bearings occur reaction section indicates joint (supports) occur. Icons vary but Indicates location where bearings

Industry Standards:

National Design Specification for Metal Plate Connected Wood Trusses Installing, Restraining & Bracing of Metal Guide to Good Practice for Handling, Building Component Safety Information, Design Standard for Bracing. Plate Connected Wood Truss Construction.

DSB-22: ANSI/TPI1:

Numbering System



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

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

Product Code Approvals

ICC-ES Reports:

ESR-1988, ESR-2362, ESR-2685, ESR-3282 ESR-4722, ESL-1388

Design General Notes

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

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

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MiTek



MiTek Engineering Reference Sheet: MII-7473 rev. 1/2/2023

General Safety Notes

Damage or Personal Injury Failure to Follow Could Cause Property

- Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI
- Ņ Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves may require bracing, or alternative Tor I bracing should be considered.
- Never exceed the design loading shown and never stack materials on inadequately braced trusses.
- Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
- Cut members to bear tightly against each other

'n

- joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TPI 1. Place plates on each face of truss at each
- Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI 1.
- Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.

œ

- 9 Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
- Camber is a non-structural consideration and is the camber for dead load deflection responsibility of truss fabricator. General practice is to
- 11. Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
- Lumber used shall be of the species and size, and in all respects, equal to or better than that
- Top chords must be sheathed or purlins provided at spacing indicated on design.
- Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
- 15. Connections not shown are the responsibility of others
- Do not cut or alter truss member or plate without prior approval of an engineer.
- Install and load vertically unless indicated otherwise.
- Use of green or treated lumber may pose unacceptable project engineer before use. environmental, health or performance risks. Consult with
- 19. Review all portions of this design (front, back, words is not sufficient. and pictures) before use. Reviewing pictures alone
- Design assumes manufacture in accordance with ANSI/TPI 1 Quality Criteria.
- 21. The design does not take into account any dynamic or other loads other than those expressly stated.