

RE: P240540-01 - Roof - Osage Lot 78

Site Information:

Project Customer: Clayton Properties Project Name: Twin Emerald Lot/Block: 78

Subdivision: Osage

Model:

Address: 3710/3712 SW Knoxville Ct

City: Lee's Summit State: MO

General Truss Engineering Criteria & Design Loads (Individual Truss Design

Drawings Show Special Loading Conditions):

Design Code: IRC2018/TPI2014

Wind Code: ASCE 7-16 Wind Speed: 115 mph Roof Load: 45.0 psf

Mean Roof Height (feet): 35

Design Program: MiTek 20/20 8.6

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

MiTek, Inc.

314.434.1200

16023 Swingley Ridge Rd.

Chesterfield, MO 63017

Floor Load: N/A psf

Exposure Category: C

No.	Seal#	Truss Name	Date
1	168740741	A2	10/9/24
	168740742	A3	10/9/24
2 3 4 5	168740743 168740744	A4 B1	10/9/24 10/9/24
5	168740745	B2	10/9/24
6	168740746	C2	10/9/24
7	168740747	C3	10/9/24
8	168740748	C4	10/9/24
9	168740749	E1	10/9/24
10	168740750	E2	10/9/24
11	168740751	G1A	10/9/24
12	168740752	G2A	10/9/24
13	168740753	V1	
14	168740754	V2	10/9/24
15	168740755	V3	
16	168740756	V4	10/9/24 10/9/24
17	168740757	V5	10/9/24

The truss drawing(s) referenced above have been prepared by MiTek USA, Inc. under my direct supervision based on the parameters provided by Premier Building Supply (Springhill, KS)20300 W 207th Street.

Truss Design Engineer's Name: Sevier, Scott

My license renewal date for the state of Missouri 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.



October 9,2024

Job	Truss	Truss Type	Qty	Ply	Roof - Osage Lot 78	
P240540-01	A2	Roof Special	2	1	Job Reference (optional)	168740741

Run: 8.63 S Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries. Inc. Mon Oct 07 13:01:35 ID:QF_s_JP9cHCCgLmFn8Tnnyz_c3R-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

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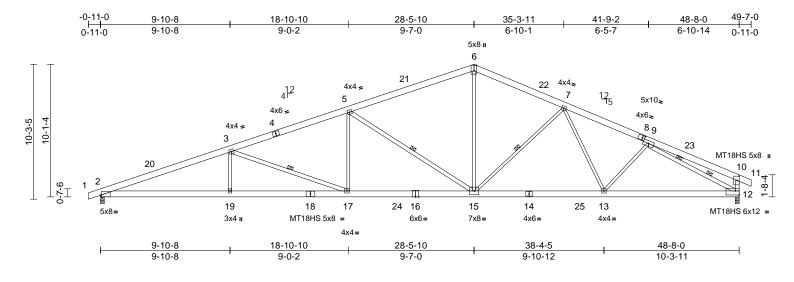


Plate Offsets (X, Y): [2:0-0-14,Edge], [6:0-4-14,Edge], [8:0-2-2,0-2-0], [10:0-4-0,0-1-12], [12:Edge,0-3-12]

Loading	(psf)	Spacing	2-0-0	csı	•	DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.59	Vert(LL)	-0.45	13-15	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	вс	0.50	Vert(CT)	-0.73	13-15	>796	180	MT18HS	244/190
BCLL	0.0*	Rep Stress Incr	YES	WB	1.00	Horz(CT)	0.15	12	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 303 lb	FT = 20%

LUMBER

TOP CHORD 2x6 SP 2400F 2.0E *Except* 8-11,8-6:2x6

SPF No.2

BOT CHORD 2x6 SP 2400F 2.0E *Except* 0-0:2x6 SPF

No.2

2x3 SPF No.2 *Except* WEBS

12-10,15-5,17-3,12-9:2x4 SP No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or 3-6-6 oc purlins, except end verticals.

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

bracing.

WEBS 1 Row at midpt 5-15, 3-17, 7-15 WEBS 2 Rows at 1/3 pts 9-12

REACTIONS (size)

2=0-3-8, 12=0-3-8 Max Horiz 2=184 (LC 16)

Max Uplift 2=-449 (LC 8), 12=-328 (LC 13)

Max Grav 2=2347 (LC 2), 12=2364 (LC 2)

(lb) - Maximum Compression/Maximum

FORCES Tension

1-2=0/11, 2-3=-5818/1176, 3-5=-4574/983, TOP CHORD

5-6=-3156/770. 6-7=-3219/790.

7-9=-3783/820, 9-10=-463/202, 10-11=0/29,

10-12=-478/297

BOT CHORD 2-19=-1047/5432, 17-19=-1047/5432,

15-17=-756/4260, 13-15=-569/3325,

12-13=-634/3286

WEBS 3-19=0/390, 6-15=-279/1738, 9-13=-2/309,

5-17=-21/807, 7-13=0/333, 5-15=-1651/460,

3-17=-1262/365, 7-15=-688/295,

9-12=-3441/633

NOTES

Unbalanced roof live loads have been considered for this design.

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-11-0 to 4-1-0, Interior (1) 4-1-0 to 28-5-10, Exterior(2R) 28-5-10 to 33-5-10, Interior (1) 33-5-10 to 49-7-0 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
- All plates are MT20 plates unless otherwise indicated.
- 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.
- All bearings are assumed to be SP 2400F 2.0E crushing capacity of 805 psi.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 328 lb uplift at joint 12 and 449 lb uplift at joint 2.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



October 9,2024



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

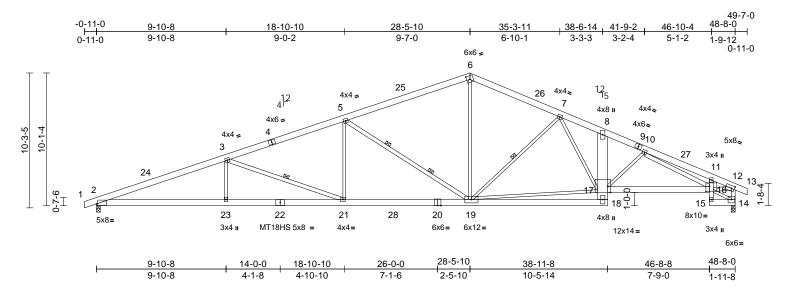
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not



Job	Truss	Truss Type	Qty	Ply	Roof - Osage Lot 78	
P240540-01	A3	Roof Special	5	1	Job Reference (optional)	168740742

Run: 8.63 S Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Mon Oct 07 13:01:36 ID:m_P9pcXgCxbN3mpg9BHX8Rz_bfT-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

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Scale - 1:87 8

Plate Offsets (X, Y): [2:0-1-2,Edge], [6:0-3-1,0-3-4], [12:0-2-12,0-2-8], [16:0-3-4,0-4-12], [17:0-2-8,Edge]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.36	Vert(LL)	-0.37	21-23	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.96	Vert(CT)	-0.68	21-23	>848	180	MT18HS	244/190
BCLL	0.0*	Rep Stress Incr	YES	WB	0.82	Horz(CT)	0.24	14	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 328 lb	FT = 20%

LUMBER

TOP CHORD 2x6 SP 2400F 2.0E *Except* 9-13,9-6:2x6

SPF No.2

BOT CHORD 2x6 SPF No.2 *Except* 18-8:1 1/2" x 9 1/4" 2.0E Microllam® LVL, 11-15:2x4 SP No.2,

2.0E Microllam® LVL, 11-15:2x4 SP No.2, 15-14,20-22,22-2,20-18:2x6 SP 2400F 2.0E 2x3 SPF No.2 *Except*

14-12,21-3,19-5,16-10,12-16:2x4 SP No.2

BRACING

WFBS

TOP CHORD Structural wood sheathing directly applied or 3-4-6 oc purlins, except end verticals.

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

bracing, Except:

2-2-0 oc bracing: 16-17.
WEBS 1 Row at midpt 3-21, 7-19
WEBS 2 Rows at 1/3 pts 5-19
REACTIONS (size) 2=0-3-8, 14=0-3-8

Max Horiz 2=184 (LC 12)

Max Uplift 2=-449 (LC 8), 14=-328 (LC 13)

Max Grav 2=2331 (LC 2), 14=2322 (LC 2)

FORCES (Ib) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/11. 2-3=-5793/1162. 3-5=-4529/985.

5-6=-3073/774, 6-7=-3143/795, 7-8=-3888/912, 8-10=-4450/969, 10-11=-4016/931, 11-12=-3727/811,

12-13=0/29, 12-14=-2224/556 BOT CHORD 17-18=0/189, 8-17=0/117, 16-17=-828

17-18=0/189, 8-17=0/117, 16-17=-828/4190, 15-16=0/21, 11-16=-191/158, 14-15=-77/186,

2-23=-1033/5408, 21-23=-1033/5408, 19-21=-757/4218, 18-19=-367/2037

WEBS 3-23=0/418, 6-19=-278/1678,

3-21=-1285/352, 5-21=-17/836, 5-19=-1689/455, 10-17=-242/161, 7-19=-800/309, 10-16=-619/152, 7-17=-72/519, 14-16=-133/94, 12-16=-700/3324, 17-19=-232/1318 Unbalanced roof live loads have been considered for this design.

- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-11-0 to 4-1-0, Interior (1) 4-1-0 to 28-5-10, Exterior(2R) 28-5-10 to 33-5-10, Interior (1) 33-5-10 to 49-7-0 zone; cantilever left and right exposed; c-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- All plates are MT20 plates unless otherwise indicated.
- 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.
- All bearings are assumed to be SP 2400F 2.0E crushing capacity of 805 psi.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 449 lb uplift at joint 2 and 328 lb uplift at joint 14.
- This truss is designed in accordance with the 2018
 International Residential Code sections R502.11.1 and
 R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



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NOTES

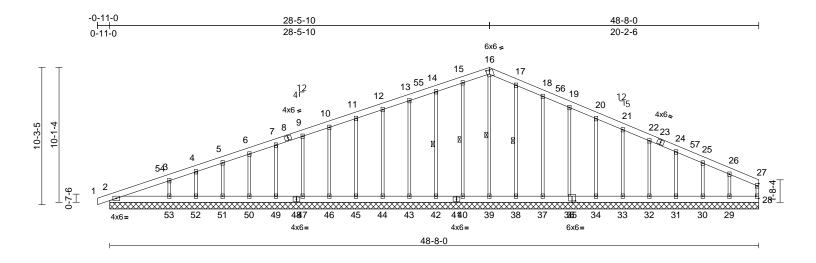
MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.



Job	Truss	Truss Type	Qty	Ply	Roof - Osage Lot 78	
P240540-01	A4	Roof Special Supported Gable	1	1	Job Reference (optional)	168740743

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REACTIONS (size)

Plate Offsets (X, Y):	[16:0-3-0,0-0-15],	[28:Edge,0-2-8],	[36:0-3-0,0-1-4]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.10	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.06	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.21	Horz(CT)	0.00	28	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 275 lb	FT = 20%

LUMBER		Max Grav	2=240 (LC 1), 28=84 (LC 1),
TOP CHORD	2x6 SPF No.2		29=203 (LC 26), 30=171 (LC 1),
BOT CHORD	2x6 SPF No.2		31=184 (LC 26), 32=189 (LC 1),
WEBS	2x3 SPF No.2		33=172 (LC 26), 34=183 (LC 1),
OTHERS	2x3 SPF No.2		36=176 (LC 26), 37=186 (LC 26),
BRACING			38=183 (LC 1), 39=204 (LC 22),
TOP CHORD	Structural wood sheathing directly applied or		40=184 (LC 1), 42=183 (LC 25),
	6-0-0 oc purlins, except end verticals.		43=180 (LC 25), 44=180 (LC 1),
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc		45=180 (LC 25), 46=174 (LC 25),
20.0	bracing.		47=184 (LC 1), 49=189 (LC 1),
WEBS	1 Row at midpt 16-39, 15-40, 14-42.		50=169 (LC 25), 51=198 (LC 1),
	17-38		52=91 (LC 25), 53=393 (LC 25)

37=48-8-0, 38=48-8-0, 39=48-8-0,

40=48-8-0, 42=48-8-0, 43=48-8-0,

44=48-8-0, 45=48-8-0, 46=48-8-0,

47=48-8-0, 49=48-8-0, 50=48-8-0,

51=48-8-0. 52=48-8-0. 53=48-8-0

30=-43 (LC 13), 31=-58 (LC 13),

32=-59 (LC 13), 33=-51 (LC 13),

34=-53 (LC 13), 36=-58 (LC 13),

37=-64 (LC 13), 38=-20 (LC 13),

40=-26 (LC 12), 42=-57 (LC 8),

43=-50 (LC 8), 44=-49 (LC 12),

45=-49 (LC 12), 46=-46 (LC 8),

47=-51 (LC 8), 49=-54 (LC 12),

50=-45 (LC 8), 51=-52 (LC 12),

52=-30 (LC 8), 53=-111 (LC 12)

Max Uplift 2=-44 (LC 13), 29=-94 (LC 13),

Max Horiz 2=192 (LC 12)

t midpt	16-39, 15-40, 14-42, 17-38		50=169 (LC 25), 51=198 (LC 1) 52=91 (LC 25), 53=393 (LC 25)
2=48-8-0), 28=48-8-0, 29=48-8-0,	FORCES	(lb) - Maximum Compression/Maximum
	-0, 31=48-8-0, 32=48-8-0,	TOP CHORD	Tension 1-2=0/11, 2-3=-194/131, 3-4=-144/145,

3=-194/131, 3-4=-144/145, 4-5=-124/159, 5-6=-102/176, 6-7=-81/193, 7-9=-84/211, 9-10=-96/229, 10-11=-107/246, 11-12=-119/263, 12-13=-131/287, 13-14=-143/317, 14-15=-156/348, 15-16=-161/365, 16-17=-165/367, 17-18=-157/334, 18-19=-140/285, 19-20=-125/245, 20-21=-109/209, 21-22=-96/173, 22-24=-79/134, 24-25=-63/96. 25-26=-50/62. 26-27=-55/34.

27-28=-66/22 BOT CHORD 2-53=-35/58, 52-53=-35/58, 51-52=-35/58, 50-51=-35/58, 49-50=-35/58, 47-49=-35/58 46-47=-35/58, 45-46=-35/58, 44-45=-35/58, 43-44=-35/58, 42-43=-35/58, 40-42=-35/58, 39-40=-35/58, 38-39=-35/58, 37-38=-35/58, 36-37=-35/58, 34-36=-35/58, 33-34=-35/58, 32-33=-35/58, 31-32=-35/58, 30-31=-35/58, 29-30=-35/58, 28-29=-35/58

WEBS 16-39=-164/19, 15-40=-144/56, 14-42=-143/97, 13-43=-140/74, 12-44=-140/73, 11-45=-140/73, 10-46=-134/70, 9-47=-144/75, 7-49=-149/78, 6-50=-131/69, 5-51=-149/77, 4-52=-84/47, 3-53=-286/172, 17-38=-144/59, 18-37=-143/105, 19-36=-140/80, 20-34=-140/78, 21-33=-133/74, 22-32=-149/84, 24-31=-143/80, 25-30=-132/93, 26-29=-158/135

NOTES

- Unbalanced roof live loads have been considered for 1) this design
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-11-0 to 4-1-0. Interior (1) 4-1-0 to 28-5-10, Exterior(2R) 28-5-10 to 33-5-10, Interior (1) 33-5-10 to 48-6-12 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



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Continued on page 2

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



Job	Truss	Truss Type	Qty	Ply	Roof - Osage Lot 78	
P240540-01	A4	Roof Special Supported Gable	1	1	Job Reference (optional)	168740743

Run: 8.63 S Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Mon Oct 07 13:01:36 ID:9CS9baXEWIG0D9YvLzpIp8z_bgl-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

- 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 3x4 MT20 unless otherwise indicated.
- 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 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.
- All bearings are assumed to be SPF No.2 crushing capacity of 425 psi.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 44 lb uplift at joint 2, 26 lb uplift at joint 40, 57 lb uplift at joint 42, 50 lb uplift at joint 43, 49 lb uplift at joint 44, 49 lb uplift at joint 45, 46 lb uplift at joint 46, 51 lb uplift at joint 47, 54 lb uplift at joint 49, 45 lb uplift at joint 50, 52 lb uplift at joint 51, 30 lb uplift at joint 52, 111 lb uplift at joint 53, 20 lb uplift at joint 38, 64 lb uplift at joint 37, 58 lb uplift at joint 36, 53 lb uplift at joint 34, 51 lb uplift at joint 33, 59 lb uplift at joint 32, 58 lb uplift at joint 31, 43 lb uplift at joint 30 and 94 lb uplift at joint 29.
- 11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

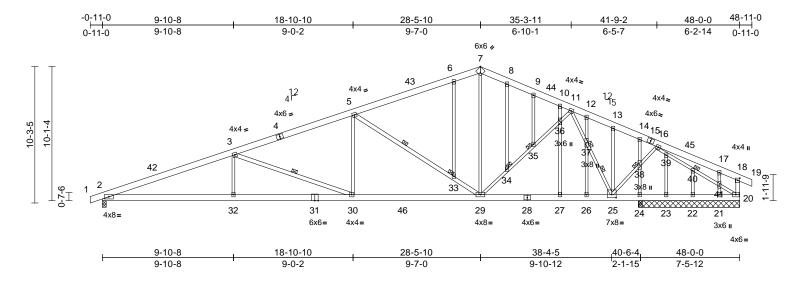


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Job	Truss	Truss Type	Qty	Ply	Roof - Osage Lot 78	
P240540-01	B1	Roof Special Structural Gable	2	1	Job Reference (optional)	168740744

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WEBS

BOT CHORD

Plate Offsets (X, Y): [7:0-4-2,Edge], [18:0-2-0,0-1-12], [25:0-4-0,0-2-12]

							-	-	-			
Loading	(psf)	Spacing	1-11-4	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.73	Vert(LL)	-0.24	30-32	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.38	Vert(CT)	-0.44	30-32	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.58	Horz(CT)	0.09	24	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 315 lb	FT = 20%

LUMBER
TOP CHORD 2x6 SPF No.2
BOT CHORD 2x6 SP 2400F 2.0E

2x3 SPF No.2 *Except* 30-3,29-5,20-18:2x4 SP No.2

OTHERS 2x3 SPF No 2

BRACING 2x3 SPF No.

TOP CHORD Structural wood sheathing directly applied or

2-10-12 oc purlins, except end verticals. Rigid ceiling directly applied or 6-0-0 oc

bracing.

WEBS 1 Row at midpt 3-30, 5-33, 25-37 JOINTS 1 Brace at Jt(s): 33,

34, 35, 37, 38, 40

REACTIONS (size) 2=0-3-8, 20=7-7-8, 21=7-7-8, 22=7-7-8, 23=7-7-8, 24=0-3-8

22=7-7-8, 23=7-7-8, Max Horiz 2=179 (LC 16)

Max Uplift 2=-385 (LC 8), 20=-335 (LC 27),

21=-177 (LC 13), 23=-366 (LC 27),

24=-368 (LC 8)

Max Grav 2=1874 (LC 2), 20=87 (LC 12),

21=701 (LC 1), 22=161 (LC 2), 23=120 (LC 8), 24=2334 (LC 2)

FORCES (lb) - Maximum Compression/Maximum

Tension
TOP CHORD 1-2=0/11

1-2=0/11, 2-3=-4435/916, 3-5=-3202/724,

5-6=-1783/516, 6-7=-1675/536, 7-8=-1701/529, 8-9=-1756/523,

9-10=-1701/329, 6-9=-1730/323, 9-10=-1796/511, 10-11=-1838/482, 11-12=-358/236, 12-13=-497/254,

13-14=-607/241, 14-16=-330/139,

16-17=-22/148, 17-18=-45/254, 18-19=0/28,

16-17=-22/148, 17-18=-4 18-20=-35/219 BOT CHORD 2-32=-828/4130, 30-32=-828/4130, 29-30=-524/2958, 27-29=-158/1153, 26-27=-158/1153, 25-26=-158/1153, 24-25=-210/84, 23-24=-210/84, 22-23=-210/84, 21-22=-210/84,

20-21=-210/84

WEBS 3-32=0/378, 3-30=-1258/361, 5-30=-19/833,

5-33=-1625/426, 29-33=-1681/447, 7-29=-128/811, 16-39=-313/71, 39-40=-145/141, 40-41=-167/115,

20-41=-170/127, 29-34=-127/731, 34-35=-120/700, 35-36=-123/707, 11-36=-130/816, 11-37=-1702/321

11-36=-139/816, 11-37=-1792/321, 25-37=-1666/299, 25-38=-96/882,

16-38=-79/772, 6-33=-103/38, 8-34=-11/46, 9-35=-20/11, 10-36=0/123, 27-36=0/209, 12-37=-70/259, 26-37=-45/145,

13-25=-5/198, 14-38=-1027/244, 24-38=-1174/266, 23-39=-242/51, 22-40=-17/68, 17-41=-611/266,

21-41=-622/270

NOTES

- Unbalanced roof live loads have been considered for this design.
- 2) Wind: AŠCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-11-0 to 4-1-0, Interior (1) 4-1-0 to 28-5-10, Exterior(2R) 28-5-10 to 33-5-10, Interior (1) 33-5-10 to 48-11-0 zone; cantilever 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) All plates are 3x4 MT20 unless otherwise indicated.

- 5) Gable studs spaced at 2-0-0 oc.
- 5) 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, with BCDL = 10.0psf.
- All bearings are assumed to be SP 2400F 2.0E crushing capacity of 805 psi.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 385 lb uplift at joint 2, 335 lb uplift at joint 20, 366 lb uplift at joint 23, 177 lb uplift at joint 21 and 368 lb uplift at joint 24.
- 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



October 9,2024

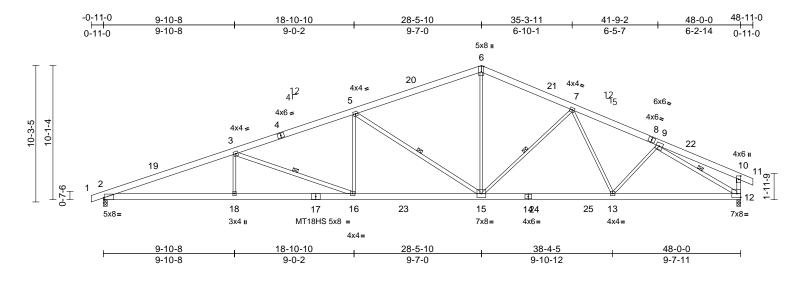




Job	Truss	Truss Type	Qty	Ply	Roof - Osage Lot 78	
P240540-01	B2	Roof Special	4	1	Job Reference (optional)	168740745

Run: 8.63 S Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries. Inc. Mon Oct 07 13:01:36 ID:TM3IYxriHVdLiBeK5VA5RVz_dHe-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:86.8

Plate Offsets (X, Y): [2:0-1-2,Edge], [6:0-4-14,Edge], [10:0-3-0,0-1-12]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.41	Vert(LL)	-0.34	13-15	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.44	Vert(CT)	-0.61	16-18	>942	180	MT18HS	244/190
BCLL	0.0*	Rep Stress Incr	YES	WB	1.00	Horz(CT)	0.14	12	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 299 lb	FT = 20%

LUMBER

BOT CHORD

TOP CHORD 2x6 SP 2400F 2.0E *Except* 6-8,8-11:2x6

SPF No.2

2x6 SP 2400F 2 0F

2x3 SPF No.2 *Except* **WEBS**

BRACING

16-3,15-5,12-10,9-12:2x4 SP No.2

TOP CHORD **BOT CHORD**

Structural wood sheathing directly applied or

3-8-2 oc purlins, except end verticals. Rigid ceiling directly applied or 10-0-0 oc

bracing

WEBS 1 Row at midpt 3-16, 5-15, 7-15, 9-12

REACTIONS 2=0-3-8, 12=0-3-8 (size)

Max Horiz 2=185 (LC 12) Max Uplift 2=-446 (LC 8), 12=-320 (LC 13)

Max Grav 2=2317 (LC 2), 12=2336 (LC 2)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/11 2-3=-5719/1149 3-5=-4481/967

5-6=-3060/754, 6-7=-3121/773,

7-9=-3529/767, 9-10=-297/162, 10-11=0/29,

10-12=-380/259

BOT CHORD 2-18=-1040/5339, 16-18=-1040/5339,

15-16=-759/4172, 13-15=-554/3153,

12-13=-584/2944

WFBS 3-18=0/393, 3-16=-1261/356, 5-16=-21/810,

5-15=-1655/459, 6-15=-268/1671,

7-15=-605/277, 7-13=-55/206, 9-13=0/425,

9-12=-3309/629

NOTES

Unbalanced roof live loads have been considered for this design

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-11-0 to 4-1-0, Interior (1) 4-1-0 to 28-5-10, Exterior(2R) 28-5-10 to 33-5-10, Interior (1) 33-5-10 to 48-11-0 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
- All plates are MT20 plates unless otherwise indicated.
- 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.
- All bearings are assumed to be SP 2400F 2.0E crushing capacity of 805 psi.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 446 lb uplift at joint 2 and 320 lb uplift at joint 12.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



October 9,2024



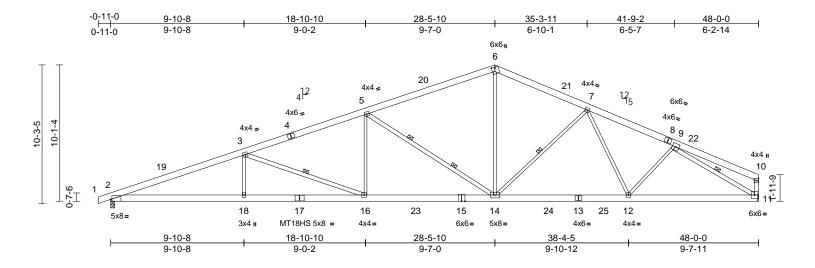
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not



Job	Truss	Truss Type	Qty	Ply	Roof - Osage Lot 78	
P240540-01	C2	Roof Special	2	1	Job Reference (optional)	168740746

Run: 8.63 S Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries. Inc. Mon Oct 07 13:01:36 ID:4EauqFdo3SKWQ9muUfydzZz_WW6-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f Page: 1



Scale = 1:85.4

Plate Offsets (X, Y): [2	2:0-1-2,Edge], [6:0-0-15,0-3-0]
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Loading	(psf)	Spacing	2-0-0	csı		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.36		-0.40	12-14	>999		MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.48	Vert(CT)	-0.68	16-18	>847	180	MT18HS	244/190
BCLL	0.0*	Rep Stress Incr	YES	WB	0.87	Horz(CT)	0.15	11	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 298 lb	FT = 20%

LUMBER

TOP CHORD 2x6 SP 2400F 2.0E *Except* 8-10,8-6:2x6

SPF No.2

BOT CHORD 2x6 SP 2400F 2 0F

2x3 SPF No.2 *Except* **WEBS** 11-10,14-5,16-3,11-9:2x4 SP No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or

3-7-11 oc purlins, except end verticals. Rigid ceiling directly applied or 10-0-0 oc

BOT CHORD bracing.

WEBS 1 Row at midpt

3-16, 7-14, 9-11

WFBS 2 Rows at 1/3 pts 5-14

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

Max Horiz 2=193 (LC 12)

Max Uplift 2=-446 (LC 8), 11=-293 (LC 13)

Max Grav 2=2317 (LC 2), 11=2274 (LC 2)

FORCES (lb) - Maximum Compression/Maximum

Tension TOP CHORD

1-2=0/11, 2-3=-5764/1144, 3-5=-4482/966,

5-6=-3039/756, 6-7=-3099/781,

7-9=-3586/778, 9-10=-258/140,

10-11=-281/167

BOT CHORD 2-18=-1071/5380, 16-18=-1071/5380,

14-16=-793/4173, 12-14=-594/3173,

11-12=-631/2988 **WEBS** 3-18=0/423, 6-14=-270/1656, 9-12=0/438,

5-16=-17/828, 7-12=-27/287, 5-14=-1678/454, 3-16=-1302/352,

7-14=-631/272, 9-11=-3419/679

NOTES

1) Unbalanced roof live loads have been considered for this design.

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-11-0 to 4-1-0, Interior (1) 4-1-0 to 28-5-10, Exterior(2R) 28-5-10 to 33-5-10, Interior (1) 33-5-10 to 47-10-4 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
- All plates are MT20 plates unless otherwise indicated.
- 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.
- Bearings are assumed to be: Joint 2 SP 2400F 2.0E crushing capacity of 805 psi.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 446 lb uplift at joint 2 and 293 lb uplift at joint 11.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



October 9,2024



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

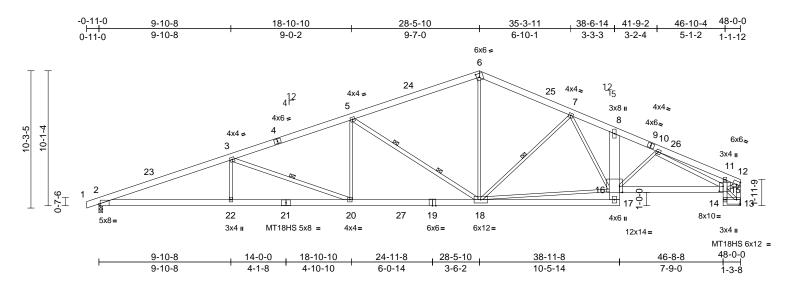
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not



Job	Truss	Truss Type	Qty	Ply	Roof - Osage Lot 78	
P240540-01	C3	Roof Special	5	1	Job Reference (optional)	168740747

Run: 8.63 S Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Mon Oct 07 13:01:37 ID:Sb0KJjJkHtSHkuN7kDNnkhz_WMA-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:86.2

Plate Offsets (X, Y): [2:0-1-2,Edge], [6:0-2-9,0-3-4], [13:Edge,0-4-0], [15:0-3-8,0-4-8], [16:0-2-8,Edge]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.36	Vert(LL)	-0.34	20-22	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.87	Vert(CT)	-0.63	20-22	>903	180	MT18HS	197/144
BCLL	0.0*	Rep Stress Incr	YES	WB	0.92	Horz(CT)	0.21	13	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 320 lb	FT = 20%

LUMBER

TOP CHORD 2x6 SP 2400F 2.0E *Except* 9-12,9-6:2x6

SPF No.2

BOT CHORD 2x6 SPF No.2 *Except* 17-8:2x10 SP 2400F

2.0E, 11-14:2x4 SP No.2

21-2,19-17,19-21:2x6 SP 2400F 2.0E WEBS 2x3 SPF No.2 *Except* 13-12:2x4 SPF No.3,

20-3,15-10,18-5:2x4 SP No.2

20-3,15-10,18-5:2X4 SP No..

BRACING

TOP CHORD

TOP CHORD Structural wood sheathing directly applied or 3-6-8 oc purlins, except end verticals.

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

bracing, Except:

8-1-1 oc bracing: 15-16.
WEBS 1 Row at midpt 3-20, 7-18
WEBS 2 Rows at 1/3 pts 5-18

REACTIONS (size) 2=0-3-8, 13= Mechanical

Max Horiz 2=193 (LC 12)

Max Uplift 2=-446 (LC 8), 13=-293 (LC 13)

Max Grav 2=2300 (LC 2), 13=2230 (LC 2)

FORCES (lb) - Maximum Compression/Maximum

Tension

1-2=0/11, 2-3=-5692/1145, 3-5=-4441/965,

5-6=-2989/751, 6-7=-3056/776, 7-8=-3633/879, 8-10=-4162/936, 10-11=-2716/705, 11-12=-2337/552.

12-13=-2126/475

BOT CHORD 16-17=0/176, 8-16=0/95, 15-16=-834/3775,

14-15=0/7, 11-15=-319/242, 13-14=-67/119, 2-22=-1072/5313, 20-22=-1072/5313, 18-20=-792/4134, 17-18=-384/1922

WEBS 3-22=0/408, 5-20=-19/832, 3-20=-1273/356,

6-18=-262/1617, 7-16=-58/382, 10-16=-86/151, 10-15=-1549/340, 7-18=-715/299, 5-18=-1684/457, 13-15=-135/112, 12-15=-608/2397.

16-18=-242/1271

- Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-11-0 to 4-1-0, Interior (1) 4-1-0 to 28-5-10, Exterior(2R) 28-5-10 to 33-5-10, Interior (1) 33-5-10 to 47-10-4 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
- All plates are MT20 plates unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * 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.
- Bearings are assumed to be: Joint 2 SP 2400F 2.0E crushing capacity of 805 psi.
- 7) Refer to girder(s) for truss to truss connections.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 293 lb uplift at joint 13 and 446 lb uplift at joint 2.
- 9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



October 9,2024

NOTES

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

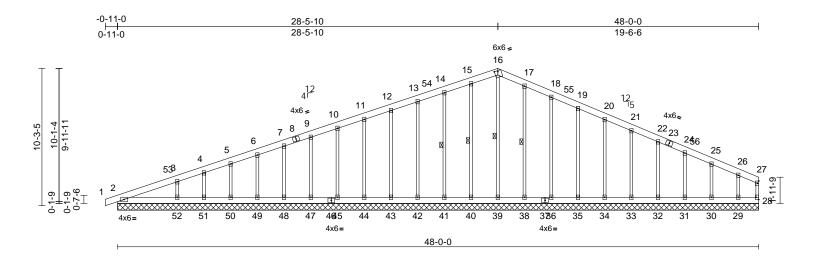
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not



Job	Truss	Truss Type	Qty	Ply	Roof - Osage Lot 78	
P240540-01	C4	Roof Special Supported Gable	1	1	Job Reference (optional)	168740748

Run: 8.63 S Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Mon Oct 07 13:01:37 ID:IDEkMeSePsGXytVpYj8zJQz_WR9-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:86.2

Plate Offsets (X, Y): [16:0-3-0,0-0-15], [28:Edge,0-2-8]												
Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.10	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.06	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.21	Horz(CT)	0.00	28	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 273 lb	FT = 20%

LUMBER				Max Grav	2=239 (LC 1), 28=58 (LC 22),
TOP CHORD	2x6 SPF No.2				29=165 (LC 26), 30=179 (LC 1),
BOT CHORD	2x6 SPF No.2				31=182 (LC 26), 32=189 (LC 1),
WEBS	2x3 SPF No.2				33=173 (LC 26), 34=181 (LC 1),
OTHERS	2x3 SPF No.2				35=179 (LC 26), 36=183 (LC 26)
BRACING					38=184 (LC 1), 39=204 (LC 22),
TOP CHORD	Structural wood she	eathing directly applied or			40=184 (LC 1), 41=183 (LC 25),
	6-0-0 oc purlins, ex	0 , 11			42=180 (LC 25), 43=180 (LC 1),
BOT CHORD		applied or 10-0-0 oc			44=180 (LC 25), 45=175 (LC 25)
	bracing.				47=183 (LC 1), 48=189 (LC 1),
WEBS	1 Row at midpt	16-39, 15-40, 14-41,			49=169 (LC 25), 50=198 (LC 1),
		17-38			51=91 (LC 25), 52=393 (LC 25)
REACTIONS	(size) 2=48-0-0	28=48-0-0 29=48-0-0	FORCES	(lb) - Max	kimum Compression/Maximum

TOP CHORD

		00
REACTIONS	(size)	2=48-0-0, 28=48-0-0, 29=48-0-0,
		30=48-0-0, 31=48-0-0, 32=48-0-0,
		33=48-0-0, 34=48-0-0, 35=48-0-0,
		36=48-0-0, 38=48-0-0, 39=48-0-0,
		40=48-0-0, 41=48-0-0, 42=48-0-0,
		43=48-0-0, 44=48-0-0, 45=48-0-0,
		47=48-0-0. 48=48-0-0. 49=48-0-0.

50=48-0-0, 51=48-0-0, 52=48-0-0 Max Horiz 2=193 (LC 12) Max Uplift 2=-44 (LC 13), 29=-81 (LC 13), 30=-49 (LC 13), 31=-57 (LC 13), 32=-59 (LC 13), 33=-50 (LC 13), 34=-54 (LC 13), 35=-56 (LC 13), 36=-65 (LC 13), 38=-20 (LC 13),

40=-26 (LC 12), 41=-57 (LC 8), 42=-50 (LC 8), 43=-49 (LC 12), 44=-49 (LC 12), 45=-46 (LC 8), 47=-51 (LC 8), 48=-54 (LC 12), 49=-45 (LC 8), 50=-52 (LC 12), 51=-30 (LC 8), 52=-111 (LC 12) (lb) - Maximum Compression/Maximum 1-2=0/11, 2-3=-195/129, 3-4=-145/143, 4-5=-125/157, 5-6=-103/175, 6-7=-82/192,

7-9=-88/210, 9-10=-100/228, 10-11=-111/245, 11-12=-123/264, 12-13=-135/293, 13-14=-147/323, 14-15=-160/354, 15-16=-165/371, 16-17=-169/372, 17-18=-161/340, 18-19=-144/291, 19-20=-129/251, 20-21=-114/215, 21-22=-100/179, 22-24=-83/140, 24-25=-67/102, 25-26=-53/66, 26-27=-45/36,

27-28=-41/19 BOT CHORD 2-52=-38/53, 51-52=-38/53, 50-51=-38/53,

49-50=-38/53, 48-49=-38/53, 47-48=-38/53 45-47=-38/53, 44-45=-38/53, 43-44=-38/53, 42-43=-38/53, 41-42=-38/53, 40-41=-38/53, 39-40=-38/53, 38-39=-38/53, 36-38=-38/53, 35-36=-38/53, 34-35=-38/53, 33-34=-38/53, 32-33=-38/53, 31-32=-38/53, 30-31=-38/53, 29-30=-38/53, 28-29=-38/53

WEBS 16-39=-164/21, 15-40=-144/57, 14-41=-143/97, 13-42=-140/74, 12-43=-140/73, 11-44=-140/73, 10-45=-134/70, 9-47=-144/75, 7-48=-149/78, 6-49=-131/69, 5-50=-149/77, 4-51=-84/47,

3-52=-286/172, 17-38=-144/59, 18-36=-143/105, 19-35=-140/80, 20-34=-140/78, 21-33=-133/74, 22-32=-149/84, 24-31=-143/84, 25-30=-138/105. 26-29=-129/112

NOTES

- Unbalanced roof live loads have been considered for 1) this design
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-11-0 to 4-1-0, Interior (1) 4-1-0 to 28-5-10, Exterior(2R) 28-5-10 to 33-5-10, Interior (1) 33-5-10 to 47-10-12 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



October 9,2024

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

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not besign value to use only with recks colline tools. This design is based only upon parameters shown, and is not an individual busining denipolinit, 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.sbcscomponents.com)



Job	Truss	Truss Type	Qty	Ply	Roof - Osage Lot 78	
P240540-01	C4	Roof Special Supported Gable	1	1	Job Reference (optional)	168740748

Run: 8.63 S Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Mon Oct 07 13:01:37 ID:IDEkMeSePsGXytVpYj8zJQz_WR9-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 2

- 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 3x4 MT20 unless otherwise indicated.
- 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 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.
- All bearings are assumed to be SPF No.2 crushing capacity of 425 psi.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 44 lb uplift at joint 2, 26 lb uplift at joint 40, 57 lb uplift at joint 41, 50 lb uplift at joint 42, 49 lb uplift at joint 43, 49 lb uplift at joint 44, 46 lb uplift at joint 45, 51 lb uplift at joint 47, 54 lb uplift at joint 48, 45 lb uplift at joint 49, 52 lb uplift at joint 50, 30 lb uplift at joint 51, 111 lb uplift at joint 52, 20 lb uplift at joint 38, 65 lb uplift at joint 36, 56 lb uplift at joint 35, 54 lb uplift at joint 34, 50 lb uplift at joint 33, 59 lb uplift at joint 32, 57 lb uplift at joint 31, 49 lb uplift at joint 30 and 81 lb uplift at joint 29.
- 11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

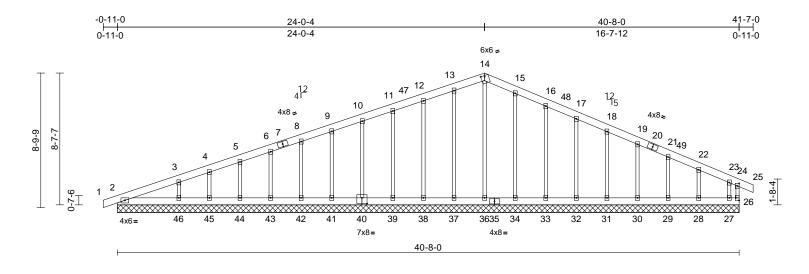
LOAD CASE(S) Standard



Job	Truss	Truss Type	Qty	Ply	Roof - Osage Lot 78	
P240540-01	E1	Roof Special Supported Gable	2	1	Job Reference (optional)	168740749

Run: 8.63 S Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Mon Oct 07 13:01:37 ID:_3koBplF41zm?y3f9Y6MyBz_WS3-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

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Scale = 1:75.3

LUMBER

Plate Offsets (X, Y): [14:0-3-0,0-0-15], [24:0-2-0,0-1-4], [26:Edge,0-2-8], [40:0-4-0,0-4-8]

41=-42 (LC 12), 42=-49 (LC 12),

43=-53 (LC 8), 44=-45 (LC 12),

45=-35 (LC 8), 46=-96 (LC 12)

27=95 (LC 26), 28=166 (LC 26),

29=182 (LC 1), 30=181 (LC 26),

31=167 (LC 1), 32=175 (LC 1),

33=176 (LC 26), 34=178 (LC 1),

36=192 (LC 22), 37=177 (LC 1),

38=176 (LC 25), 39=180 (LC 1),

40=167 (LC 1), 41=175 (LC 25),

42=175 (LC 25), 43=182 (LC 1),

44=179 (LC 1), 45=111 (LC 25),

Max Grav 2=216 (LC 1), 26=114 (LC 1),

46=338 (LC 25)

Loading	(psf)	Spacing	1-11-4	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.08	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.04	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.23	Horz(CT)	0.00	26	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S	_						Weight: 220 lb	FT = 20%

(lb) - Maximum Compression/Maximum

				()
TOP CHORD	2x6 SPF	No.2		Tension
BOT CHORD	2x6 SPF	No.2	TOP CHORD	1-2=0/11, 2-3=-153/115, 3-4=-108/127,
WEBS	2x3 SPF	No.2		4-5=-89/142, 5-6=-68/159, 6-8=-65/176,
OTHERS	2x3 SPF	No.2		8-9=-76/193, 9-10=-87/210, 10-11=-99/234,
BRACING TOP CHORD BOT CHORD	6-0-0 oc	I wood sheathing directly applied or purlins, except end verticals. ing directly applied or 10-0-0 oc		11-12=-110/262, 12-13=-123/292, 13-14=-131/311, 14-15=-134/312, 15-16=-123/277, 16-17=-107/230, 17-18=-92/192, 18-19=-79/158, 19-21=-63/121, 21-22=-47/84, 22-23=-33/48,
REACTIONS	(size)	2=40-8-0, 26=40-8-0, 27=40-8-0, 28=40-8-0, 29=40-8-0, 30=40-8-0, 31=40-8-0, 32=40-8-0, 33=40-8-0, 34=40-8-0, 36=40-8-0, 37=40-8-0, 38=40-8-0, 39=40-8-0, 40=40-8-0, 41=40-8-0, 42=40-8-0, 43=40-8-0, 46=40-8-0, 4	BOT CHORD	23-24=-36/24, 24-25=0/27, 24-26=-113/89 2-46=-32/54, 45-46=-32/54, 44-45=-32/54, 43-44=-32/54, 42-43=-32/54, 41-42=-32/54, 39-41=-32/54, 38-39=-32/53, 37-38=-32/53, 36-37=-32/53, 31-32=-32/53, 30-31=-32/53, 29-30=-32/53, 28-29=-32/53, 27-28=-32/53, 26-27=-32/53 14-36=-150/5, 13-37=-140/61, 12-38=-138/93, 11-39=-136/71, 10-40=-136/71, 9-41=-131/69, 8-42=-137/71, 6-43=-145/76, 5-44=-134/69, 4-45=-96/53, 3-46=-247/152, 15-34=-140/65, 16-33=-138/101, 17-32=-136/77, 18-31=-129/72, 19-30=-142/80, 21-29=-143/82, 22-28=-126/97, 23-27=-65/63

FORCES

- NOTES
- Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-11-0 to 4-0-4, Interior (1) 4-0-4 to 24-0-4, Exterior(2R) 24-0-4 to 29-0-4, Interior (1) 29-0-4 to 41-7-0 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.
- 4) All plates are 3x4 MT20 unless otherwise indicated.
-) Gable requires continuous bottom chord bearing.
- 6) Gable studs spaced at 2-0-0 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.
- All bearings are assumed to be SPF No.2 crushing capacity of 425 psi.



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Continued on page 2

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



Jo	b	Truss	Truss Type	Qty	Ply	Roof - Osage Lot 78	
P2	240540-01	E1	Roof Special Supported Gable	2	1	Job Reference (optional)	168740749

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10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 16 lb uplift at joint 26, 40 lb uplift at joint 2, 31 lb uplift at joint 37, 55 lb uplift at joint 38, 45 lb uplift at joint 39, 52 lb uplift at joint 40, 42 lb uplift at joint 41, 49 lb uplift at joint 42, 53 lb uplift at joint 43, 45 lb uplift at joint 44, 35 lb uplift at joint 45, 96 lb uplift at joint 46, 27 lb uplift at joint 34, 62 lb uplift at joint 33, 53 lb uplift at joint 32, 48 lb uplift at joint 31, 56 lb uplift at joint 30, 57 lb uplift at joint 29, 51 lb uplift at joint 28 and 81 lb uplift at joint 27.

- 11) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 2.
- 12) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

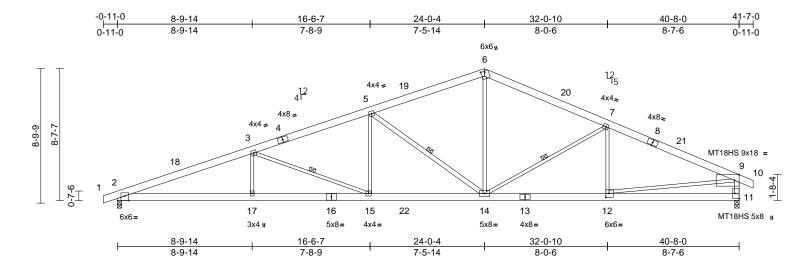


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Job	Truss	Truss Type	Qty	Ply	Roof - Osage Lot 78	
P240540-01	E2	Roof Special	4	1	Job Reference (optional)	168740750

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Page: 1



Scale = 1:75.3

Plate Offsets (X, Y): [2:0-3-0,Edge], [6:0-0-15,0-3-0], [9:0-3-8,Edge], [11:Edge,0-3-8], [12:0-2-8,0-3-0]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.89	Vert(LL)	-0.31	15-17	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	1.00	Vert(CT)	-0.56	15-17	>868	180	MT18HS	197/144
BCLL	0.0*	Rep Stress Incr	YES	WB	0.81	Horz(CT)	0.13	11	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 206 lb	FT = 20%

LUMBER

TOP CHORD 2x6 SPF No.2 **BOT CHORD** 2x6 SPF No.2

2x3 SPF No.2 *Except* 14-5,11-9:2x4 SP WEBS

BRACING

TOP CHORD Structural wood sheathing directly applied or

2-7-15 oc purlins, except end verticals. **BOT CHORD** Rigid ceiling directly applied or 1-4-12 oc

bracing

WEBS 3-15, 5-14, 7-14 1 Row at midpt

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

Max Horiz 2=156 (LC 16) Max Uplift 2=-384 (LC 8), 11=-276 (LC 13)

Max Grav 2=1948 (LC 2), 11=1943 (LC 2)

FORCES (lb) - Maximum Compression/Maximum

Tension TOP CHORD

1-2=0/11, 2-3=-4655/952, 3-5=-3614/806,

5-6=-2514/654, 6-7=-2615/668,

7-9=-3082/699, 9-10=0/29, 9-11=-1794/542 2-17=-845/4333, 15-17=-845/4333,

14-15=-617/3360, 12-14=-544/2763,

11-12=-167/441

WEBS 3-17=0/344, 3-15=-1060/294, 5-15=-21/696,

5-14=-1324/359, 6-14=-234/1354, 7-14=-659/291, 7-12=-199/177,

9-12=-392/2352

NOTES

BOT CHORD

Unbalanced roof live loads have been considered for this design.

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-11-0 to 4-1-0, Interior (1) 4-1-0 to 24-0-4, Exterior(2R) 24-0-4 to 29-0-4, Interior (1) 29-0-4 to 41-7-0 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
- All plates are MT20 plates unless otherwise indicated.
- 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.
- All bearings are assumed to be SPF No.2 crushing capacity of 425 psi.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 384 lb uplift at joint 2 and 276 lb uplift at joint 11.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



October 9,2024



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

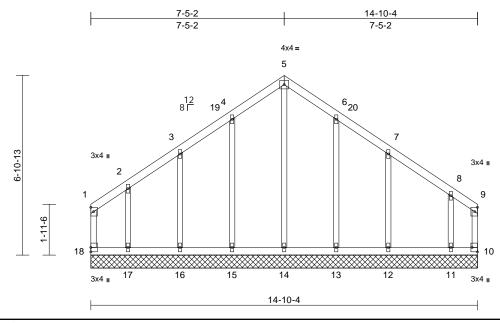
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not



Job	Truss	Truss Type	Qty	Ply	Roof - Osage Lot 78	
P240540-01	G1A	Common Supported Gable	1	1	Job Reference (optional)	168740751

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Page: 1



Scale = 1:44.3

Plate Offsets (X, Y)	: [10:Edge,0-2-8]
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Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.25	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.14	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.25	Horiz(TL)	0.00	10	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R							Weight: 74 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2 **BOT CHORD** 2x4 SP No.2 2x3 SPF No.2 WEBS 2x3 SPF No.2 OTHERS

BRACING

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

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

bracing.

REACTIONS (size) 10=14-10-4, 11=14-10-4, 12=14-10-4, 13=14-10-4, 14=14-10-4, 15=14-10-4,

16=14-10-4, 17=14-10-4, 18=14-10-4

Max Horiz 18=-206 (LC 8)

Max Uplift 10=-225 (LC 9), 11=-217 (LC 8),

12=-88 (LC 13), 13=-73 (LC 13), 15=-76 (LC 12), 16=-75 (LC 12),

17=-168 (LC 9), 18=-157 (LC 8) Max Grav 10=235 (LC 10), 11=333 (LC 20),

12=207 (LC 20), 13=193 (LC 20), 14=192 (LC 21), 15=200 (LC 19), 16=183 (LC 1), 17=280 (LC 19),

18=188 (LC 11)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-18=-111/95, 1-2=-123/117, 2-3=-80/131,

3-4=-99/220, 4-5=-139/299, 5-6=-139/299, 6-7=-101/222, 7-8=-93/123, 8-9=-142/136,

9-10=-137/128

BOT CHORD 17-18=-113/108, 16-17=-113/108,

15-16=-113/108, 14-15=-113/108, 13-14=-113/108, 12-13=-113/108, 11-12=-113/108, 10-11=-113/108

WEBS

8-11=-213/148, 5-14=-236/51, 4-15=-158/128, 3-16=-145/169, 2-17=-183/134, 6-13=-153/123,

7-12=-168/188 NOTES

Unbalanced roof live loads have been considered for 1) this design.

Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Corner(3E) 0-1-4 to 5-1-4, Exterior(2N) 5-1-4 to 7-5-2, Corner(3R) 7-5-2 to 12-5-2, Exterior(2N) 12-5-2 to 14-9-0 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. All plates are 1.5x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- Gable studs spaced at 2-0-0 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.
- 10) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 157 lb uplift at joint 18, 225 lb uplift at joint 10, 217 lb uplift at joint 11. 76 lb uplift at joint 15, 75 lb uplift at joint 16, 168 lb uplift at joint 17, 73 lb uplift at joint 13 and 88 lb uplift at joint 12.

12) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



October 9,2024



M 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



Job	Truss	Truss Type	Qty	Ply	Roof - Osage Lot 78	
P240540-01	G2A	Common Girder	1	3	Job Reference (optional)	168740752

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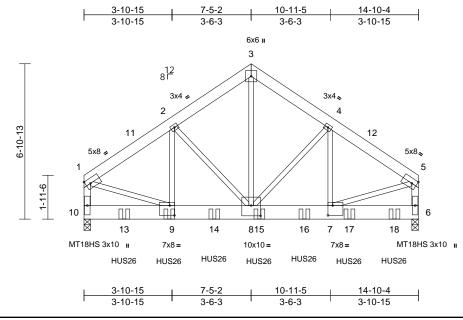


Plate Offsets (X, Y): [7:0-2-8,0-5-4], [8:0-5-0,0-5-8], [9:0-2-8,0-5-4]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.41	Vert(LL)	-0.04	8-9	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.20	Vert(CT)	-0.08	8-9	>999	180	MT18HS	244/190
BCLL	0.0*	Rep Stress Incr	NO	WB	0.73	Horz(CT)	0.01	6	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 318 lb	FT = 20%

LUMBER

TOP CHORD 2x6 SPF No.2 **BOT CHORD** 2x8 SP 2400F 2.0E

2x3 SPF No.2 *Except* 10-1,6-5:2x4 SP No.2

WEBS **BRACING**

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

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

bracing.

REACTIONS 6=0-3-8, 10=0-3-8 (size) Max Horiz 10=196 (LC 11)

Max Uplift 6=-1210 (LC 13), 10=-1099 (LC 12)

Max Grav 6=8752 (LC 2), 10=7936 (LC 2)

FORCES (lb) - Maximum Compression/Maximum

Tension

1-2=-7474/1100, 2-3=-6250/997, TOP CHORD

3-4=-6250/997, 4-5=-7512/1107, 1-10=-6540/969, 5-6=-6563/973

BOT CHORD 9-10=-229/500, 8-9=-913/6106,

7-8=-893/6136, 6-7=-93/453

1-9=-856/6085, 5-7=-858/6089,

2-9=-236/1737, 2-8=-1327/288,

3-8=-960/6409, 4-8=-1373/295,

4-7=-246/1795

NOTES

WEBS

- 3-ply truss to be connected together with 10d (0.131"x3") nails as follows:
 - Top chords connected as follows: 2x6 2 rows staggered at 0-9-0 oc, 2x4 - 1 row at 0-9-0 oc. Bottom chords connected as follows: 2x8 - 3 rows staggered at 0-5-0 oc.
 - Web connected as follows: 2x3 1 row at 0-9-0 oc, Except member 2-9 2x3 - 1 row at 0-4-0 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.

- Unbalanced roof live loads have been considered for
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-1-12 to 5-1-12, Interior (1) 5-1-12 to 7-5-2, Exterior(2R) 7-5-2 to 12-5-2, Interior (1) 12-5-2 to 14-8-8 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
- All plates are MT20 plates unless otherwise indicated.
- 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.
- All bearings are assumed to be SP 2400F 2.0E crushing capacity of 805 psi.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1099 lb uplift at joint 10 and 1210 lb uplift at joint 6.
- 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 11) Use Simpson Strong-Tie HUS26 (14-16d Girder, 4-16d Truss) or equivalent spaced at 12-0-0 oc max, starting at 1-9-8 from the left end to 13-9-8 to connect truss(es) to back face of bottom chord.
- 12) Use Simpson Strong-Tie HUS26 (14-16d Girder, 6-16d Truss) or equivalent spaced at 2-0-0 oc max. starting at 3-9-8 from the left end to 11-9-8 to connect truss(es) to back face of bottom chord.
- 13) 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=-70, 3-5=-70, 6-10=-20 Concentrated Loads (lb) Vert: 9=-2126 (B), 13=-2126 (B), 14=-2126 (B),

18=-2127 (B)

15=-2126 (B), 16=-2126 (B), 17=-2126 (B),

OF MISS SCOTT M. SEVIER NUMBER PE-2001018807 SSIONAL

October 9,2024

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

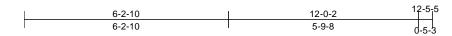
Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not

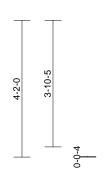


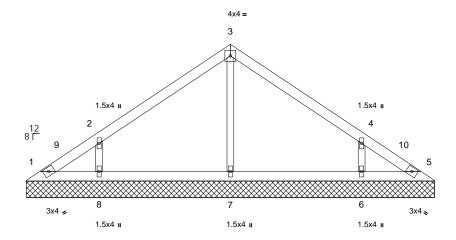
Job	Truss	Truss Type	Qty	Ply	Roof - Osage Lot 78	
P240540-01	V1	Valley	1	1	Job Reference (optional)	168740753

Run: 8.63 S Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Mon Oct 07 13:01:38 ID: On Dpg DIPFy OWECNPc AKNtpy Volu-RfC? PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC? for the property of the pro

Page: 1







12-5-5

Scale = 1:35.1

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	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	0.12	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	IRC2018/TPI2014	Matrix-S							Weight: 44 lb	FT = 20%

LUMBER

2x4 SP No.2 TOP CHORD 2x4 SP No.2 **BOT CHORD** 2x3 SPF No.2 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=12-5-5, 5=12-5-5, 6=12-5-5, 7=12-5-5, 8=12-5-5

Max Horiz 1=-107 (LC 8)

Max Uplift 1=-30 (LC 8), 5=-10 (LC 9), 6=-153

(LC 13), 8=-153 (LC 12) 1=78 (LC 20), 5=62 (LC 19), 6=347 Max Grav

(LC 20), 7=285 (LC 1), 8=347 (LC

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-108/86, 2-3=-145/102, 3-4=-140/99,

4-5=-85/49

BOT CHORD 1-8=-26/73, 7-8=-26/73, 6-7=-26/73,

5-6=-26/73

WEBS 3-7=-200/34, 2-8=-284/209, 4-6=-284/209

NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-5-12 to 5-5-12, Interior (1) 5-5-12 to 6-3-0, Exterior(2R) 6-3-0 to 11-3-0, Interior (1) 11-3-0 to 12-0-5 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.
- All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 30 lb uplift at joint 1, 10 lb uplift at joint 5, 153 lb uplift at joint 8 and 153 lb uplift at joint 6.
- 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



October 9,2024

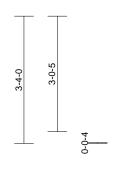


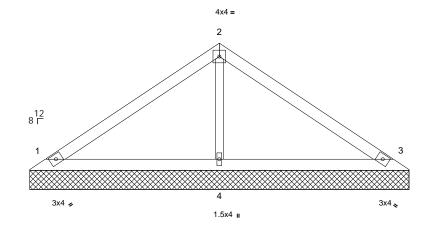
Job	Truss	Truss Type	Qty	Ply	Roof - Osage Lot 78	
P240540-01	V2	Valley	1	1	Job Reference (optional)	168740754

Run: 8.63 S Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Mon Oct 07 13:01:38 ID: On Dpg DIPFy OWECNPc AKNtpy Volu-RfC? PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC? for the property of the pro

Page: 1







9-11-5

Scale = 1:30.2

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.34	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.21	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.07	Horiz(TL)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 33 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2 2x4 SP No.2 **BOT CHORD** 2x3 SPF No.2 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=9-11-5, 3=9-11-5, 4=9-11-5

Max Horiz 1=-84 (LC 8)

Max Uplift 1=-46 (LC 12), 3=-56 (LC 13), 4=-24 (LC 12)

1=209 (LC 1), 3=209 (LC 1), 4=395 Max Grav

(LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-158/79, 2-3=-156/79

BOT CHORD 1-4=-17/74, 3-4=-17/74

2-4=-257/116 WEBS

NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 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.
- All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 46 lb uplift at joint 1, 56 lb uplift at joint 3 and 24 lb uplift at joint 4.
- 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



October 9,2024

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

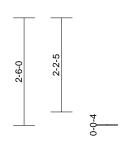


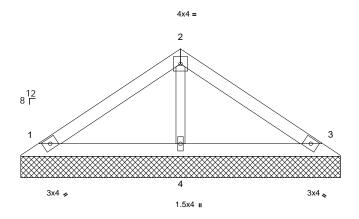
Job	Truss	Truss Type	Qty	Ply	Roof - Osage Lot 78	
P240540-01	V3	Valley	1	1	Job Reference (optional)	168740755

Run: 8.63 S Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Mon Oct 07 13:01:38 ID: On Dpg DIPFy OWECNPc AKNtpy Volu-RfC? PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC? for the property of the pro

Page: 1







7-5-5

Scale = 1:26.8

Loading	(psf)	Spacing	2-0-0	csı		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	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	0.11	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.04	Horiz(TL)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 24 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2 **BOT CHORD** 2x4 SP No.2 2x3 SPF No.2 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=7-5-5, 3=7-5-5, 4=7-5-5

Max Horiz 1=61 (LC 9)

Max Uplift 1=-42 (LC 12), 3=-49 (LC 13) 1=166 (LC 1), 3=166 (LC 1), 4=257 Max Grav

(LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-104/64, 2-3=-99/64 **BOT CHORD** 1-4=-13/49, 3-4=-13/49

WFBS 2-4=-176/96

NOTES

- Unbalanced roof live loads have been considered for this design
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 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 6) 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.
- All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 42 lb uplift at joint 1 and 49 lb uplift at joint 3.
- 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



October 9,2024

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

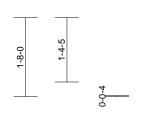


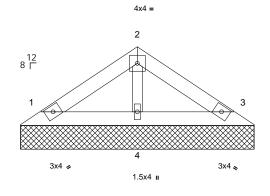
Job	Truss	Truss Type	Qty	Ply	Roof - Osage Lot 78	
P240540-01	V4	Valley	1	1	Job Reference (optional)	168740756

Run: 8.63 S Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Mon Oct 07 13:01:38 ID: On Dpg DIPFy OWECNPc AKNtpy Volu-RfC? PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC? for the property of the pro

Page: 1







4-11-5

Scale = 1:24.4

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	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	0.04	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.02	Horiz(TL)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 15 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2 2x4 SP No.2 **BOT CHORD** 2x3 SPF No.2 OTHERS

BRACING

TOP CHORD Structural wood sheathing directly applied or

5-0-1 oc purlins.

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

bracing.

REACTIONS (size) 1=4-11-5, 3=4-11-5, 4=4-11-5

Max Horiz 1=-38 (LC 8)

Max Uplift 1=-26 (LC 12), 3=-31 (LC 13)

Max Grav 1=102 (LC 1), 3=102 (LC 1), 4=159

(LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-64/45, 2-3=-61/45 **BOT CHORD** 1-4=-8/30, 3-4=-8/30

WFBS 2-4=-109/71

NOTES

- Unbalanced roof live loads have been considered for this design
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 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
- 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.
- 6) 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.
- All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 26 lb uplift at joint 1 and 31 lb uplift at joint 3.
- 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



October 9,2024

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

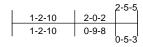
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not

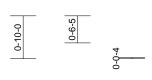


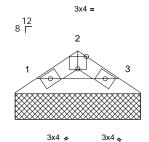
Job	Truss	Truss Type	Qty	Ply	Roof - Osage Lot 78	
P240540-01	V5	Valley	1	1	Job Reference (optional)	168740757

Run: 8.63 S Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Mon Oct 07 13:01:38 ID: On Dpg DIPFy OWECNPc AKNtpy Volu-RfC? PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC? for the property of the pro

Page: 1







2-5-5

Scale = 1:22.4

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.02	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.03	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	IRC2018/TPI2014	Matrix-P							Weight: 6 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 2-6-1 oc purlins.

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

bracing.

REACTIONS (size) 1=2-5-5, 3=2-5-5

Max Horiz 1=14 (LC 11)

Max Uplift 1=-10 (LC 12), 3=-10 (LC 13) Max Grav 1=69 (LC 1), 3=69 (LC 1)

(lb) - Maximum Compression/Maximum

FORCES Tension

1-2=-61/42, 2-3=-61/42

TOP CHORD BOT CHORD 1-3=-15/40

NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 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
- 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. 5)
- 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.
- All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 10 lb uplift at joint 1 and 10 lb uplift at joint 3.
- 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



October 9,2024

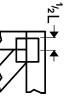
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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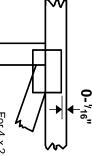


Symbols

PLATE LOCATION AND ORIENTATION



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



For 4 x 2 orientation, locate plates 0- $\frac{1}{16}$ " from outside edge of truss.

?

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

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

PLATE SIZE



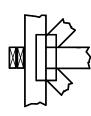
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING LOCATION



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

BEARING



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

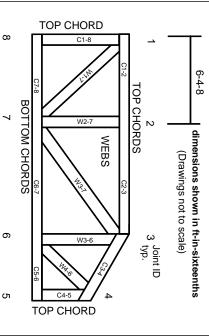
Industry Standards:

National Design Specification for Metal Plate Connected Wood Truss Construction Design Standard for Bracing.

Building Component Safety Information, Guide to Good Practice for Handling, Installing, Restraining & Bracing of Metal Plate Connected Wood Trusses.

ANSI/TPI1: DSB-22:

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

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

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

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

General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

- Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI
- 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.

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- 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.
- Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TPI 1.
- 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.

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- 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 responsibility of truss fabricator. General practice is to camber for dead load deflection.
- 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 specified.
- 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 environmental, health or performance risks. Consult with project engineer before use.
- Review all portions of this design (front, back, words and pictures) before use. Reviewing pictures alone is not sufficient.
- Design assumes manufacture in accordance with ANSI/TPI 1 Quality Criteria.
- The design does not take into account any dynamic or other loads other than those expressly stated.