

RE: P240008-01 - Roof - Osage Lot 44

MiTek, Inc.

16023 Swingley Ridge Rd. Chesterfield, MO 63017

Project Customer: Clover & Hive Project Name: Emerald Townhome - Farmhous 14.434.1200

Lot/Block: 44 Subdivision: Osage

Model:

Address: 3734/3736/3738/3740 Clayton PI

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

Roof Load: 45.0 psf

Site Information:

Floor Load: N/A psf Exposure Category: C

Design Program: MiTek 20/20 8.6

Mean Roof Height (feet): 35

No. 1234567891011231456718	Seal# 162908255 162908257 162908259 162908260 162908261 162908263 162908264 162908265 162908266 162908268 162908268 162908269 162908270 162908277	Truss Name A1 A2 A3 A4 B1 B2 C1 C2 C3 C4 D1 D2 D3 E1 E2 G1 G1 G2 G2A	1/9/24 1/9/24 1/9/24 1/9/24 1/9/24 1/9/24 1/9/24 1/9/24 1/9/24 1/9/24 1/9/24 1/9/24 1/9/24 1/9/24
15 16 17 18 19 20 21 22 23 24 25 26	162908270	E2 G1A G2 G2A V1 V2 V3 V4 V5 V6 V7	1/9/24

EVERSTEAD SHOP DRAWINGS/SUBMITTAL REVIEW

SUBMITTAL WAS REVIEWED FOR DESIGN CONFORMITY AND GENERAL CONFORMANCE TO CONTRACT DOCUMENTS ONLY. THE CONTRACTOR IS RESPONSIBLE FOR CONFIRMING AND CORRELATING DIMENSIONS AT JOBSITE FOR TOLERANCE, CLEARANCE, QUANTITIES, FABRICATION, COORDINATION OF HIS OR HER WORK WITH OTHER TRADES, AND FULL COMPLIANCE WITH CONTRACT DOCUMENTS.

STATUS:

APPROVED

01/24/2024

REVIEWED BY:

HCJ

ENGINEER, EVERSTEAD ENGINEERING & DESIGN LLC.

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: Nathan Fox

My license renewal date for the state of Missouri is December 31, 2024.

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.

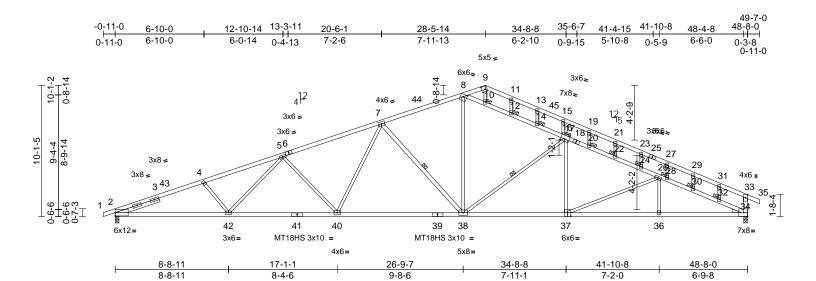


Nathan Fox

January 9,2024
RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
02/08/2024 2:34:42

Job	Truss	Truss Type	Qty	Ply	Roof - Osage Lot 44	
P240008-01	A1	Roof Special Structural Gable	1	1	Job Reference (optional)	162908255

Run: 8 63 S. Nov. 1 2023 Print: 8 630 S.Nov. 1 2023 MiTek Industries. Inc. Mon. Jan 08 10:56:34 ID:kkw6VMCTKypljEPYbt576Oz_rGt-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f



Scale = 1:88.7

Plate Offsets (X, Y): [8:0-3-8,0-2-7], [9:0-3-7,0-3-0], [16:0-4-0,0-2-0], [33:0-3-0,0-1-12], [37:0-3-0,0-3-4]

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	0.87	Vert(LL)	-0.43	38-40	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.96	Vert(CT)	-0.91	38-40	>637	180	MT18HS	244/190
BCLL	0.0	Rep Stress Incr	NO	WB	0.86	Horz(CT)	0.26	34	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-SH							Weight: 263 lb	FT = 20%

LUMBER TOP CHORD 2x4 SP No.2 *Except* 1-6:2x4 SP 2400F 2.0E, 6-9:2x4 SP 1650F 1.5E

2x4 SP 2400F 2 0F *Except*

41-39,39-37:2x4 SP 1650F 1.5E WEBS

2x3 SPF No.2 *Except* 34-33:2x4 SP 1650F 1.5E. 38-7:2x4 SP No.2

OTHERS 2x3 SPF No.2 WEDGE Right: 2x4 SP No.3

SLIDER Left 2x4 SPF No.3 -- 3-6-9 BRACING

BOT CHORD

TOP CHORD Structural wood sheathing directly applied or

2-7-13 oc purlins, except end verticals.

Except:

1 Row at midpt 8-12 BOT CHORD Rigid ceiling directly applied or 7-8-14 oc

bracing.

WFBS 1 Row at midpt 17-38, 7-38

1 Brace at Jt(s): 12,

JOINTS 14, 16, 20, 22, 24,

28, 30, 32

REACTIONS (size) 2=0-3-8, 34=0-3-8

Max Horiz 2=176 (LC 12)

Max Uplift 2=-410 (LC 8), 34=-299 (LC 13) Max Grav 2=2247 (LC 1), 34=2258 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

TOP CHORD 1-2=0/0, 2-4=-5356/1080, 4-5=-5112/1047, 5-7=-4321/933, 7-8=-3096/760,

8-9=-507/397, 9-11=-506/396, 11-13=-520/358, 13-15=-561/337 15-19=-495/268, 19-21=-504/239, 21-23=-539/221, 23-27=-549/184,

27-29=-527/124, 29-31=-556/107, 31-33=-548/70, 33-35=0/29, 33-34=-386/148,

8-10=-2628/482, 10-12=-2563/428, 12-14=-2603/451, 14-16=-2621/460, 16-17=-2741/511, 17-20=-3344/624 20-22=-3383/643, 22-24=-3402/651, 24-26=-3451/682, 26-28=-3817/810, 28-30=-3893/863, 30-32=-3918/873,

32-34=-3987/913

BOT CHORD 2-42=-960/4935, 40-42=-854/4543

38-40=-645/3649, 36-38=-811/4051

34-36=-811/4051

WEBS 9-10=-153/169, 11-12=-104/73,

13-14=-49/32, 15-16=-318/154, 19-20=-102/53, 21-22=-49/23,

23-24=-134/85, 27-28=-211/148, 29-30=-66/26, 31-32=-162/94, 4-42=-226/176, 5-42=-51/444,

5-40=-794/291, 7-40=-117/862, 26-36=0/226,

26-37=-558/247, 17-37=-7/434 8-38=-286/1625, 17-38=-953/263,

7-38=-1204/363

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=0.96; 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 28-5-14, Exterior(2R) 28-5-14 to 33-5-14, Interior (1) 33-5-14 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

Page: 1

- 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 MT20 plates unless otherwise indicated.
- All plates are 3x4 MT20 unless otherwise indicated.
- 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.
- All bearings are assumed to be SP 2400F 2.0E crushing capacity of 805 psi.



January 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

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)

LEE'S'SUMMITUS MISSOURI 02/08/2024 2:34:42

Job	Truss	Truss Type	Qty	Ply	Roof - Osage Lot 44	
P240008-01	A1	Roof Special Structural Gable	1	1	Job Reference (optional)	162908255

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Mon Jan 08 10:56:34 $ID: kkw6VMCTKypljEPYbt576Oz_rGt-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?ff$

- 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.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 11) 2 X 4 notch at 20000 o.c. is allowed along the stacked top chord. No notches allowed in overhang and 1100 from left end and 1100 from right end or 12" along rake from scarf, whichever is larger. Minimum 1.5x4 tie plates required at 2-0-0 o.c. maximum between the stacking chords. For edge-wise notching, provide at least one tie plate between each notch.

LOAD CASE(S) Standard

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Job	Truss	Truss Type	Qty	Ply	Roof - Osage Lot 44	
P240008-01	A2	Roof Special	2	1	Job Reference (optional)	162908256

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Mon Jan 08 10:56:37 ID:kkw6VMCTKypljEPYbt576Oz_rGt-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1

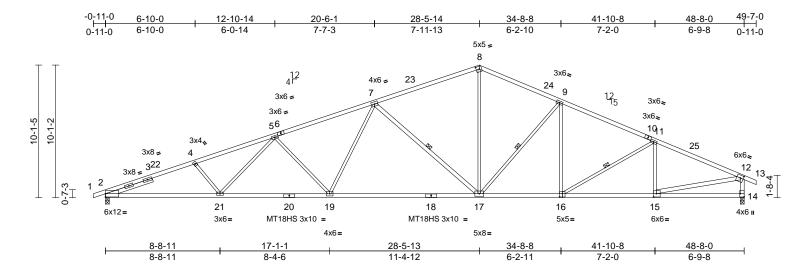


Plate Offsets (X, Y): [8:0-2-15,0-2-8], [12:0-2-12,0-2-8], [14:Edge,0-3-8], [15:0-2-8,0-3-0], [16:0-2-8,0-3-0]

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	0.82	Vert(LL)	-0.39	17-19	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.91	Vert(CT)	-0.93	17-19	>629	180	MT18HS	244/190
BCLL	0.0	Rep Stress Incr	NO	WB	0.75	Horz(CT)	0.20	14	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-SH							Weight: 233 lb	FT = 20%

LUMBER

2x4 SP 2400F 2.0E *Except* 10-13:2x4 SP TOP CHORD

No.2, 10-8:2x4 SP 1650F 1.5E

BOT CHORD 2x4 SP 2400F 2.0E *Except* 16-18:2x4 SP 1650F 1.5E

WEBS

2x3 SPF No.2 *Except* 14-12,15-12,17-7:2x4 SP No 2

SLIDER

Left 2x4 SPF No.3 -- 3-9-1

BRACING TOP CHORD

Structural wood sheathing directly applied or 2-5-14 oc purlins, except end verticals.

BOT CHORD Rigid ceiling directly applied or 8-5-12 oc

bracing. WEBS

1 Row at midpt 11-16, 7-17, 9-17 2=0-3-8, 14=0-3-8

REACTIONS (size)

Max Horiz 2=176 (LC 12)

Max Uplift 2=-410 (LC 8), 14=-299 (LC 13)

Max Grav 2=2247 (LC 1), 14=2258 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension TOP CHORD 1-2=0/0, 2-4=-5353/1084, 4-5=-5111/1050,

5-7=-4330/927, 7-8=-2893/729,

8-9=-2963/745, 9-11=-3383/769 11-12=-3382/700, 12-13=0/29,

12-14=-2189/570

BOT CHORD 2-21=-964/4938, 19-21=-847/4539,

17-19=-654/3662, 15-17=-567/3041,

14-15=-86/184

WEBS 11-15=-482/204, 4-21=-238/180,

8-17=-296/1539, 5-19=-764/283, 12-15=-492/2924, 9-16=-3/227,

11-16=-172/154, 7-17=-1373/406

5-21=-64/445, 9-17=-682/264, 7-19=-92/867

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=0.96; 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 28-5-14, Exterior(2R) 28-5-14 to 33-5-14, Interior (1) 33-5-14 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.
- All bearings are assumed to be SP 2400F 2.0E crushing capacity of 805 psi.
- 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



January 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 44	
P240008-01	A3	Roof Special	5	1	Job Reference (optional)	162908257

Run: 8 63 S. Nov. 1 2023 Print: 8 630 S.Nov. 1 2023 MiTek Industries. Inc. Mon. Jan 08 10:56:38 ID:kkw6VMCTKypljEPYbt576Oz_rGt-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

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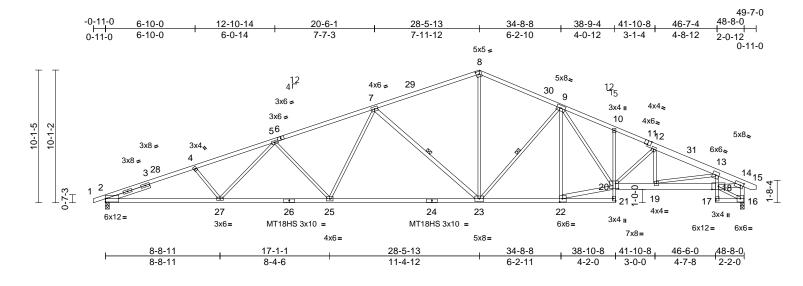


Plate Offsets (X, Y): [8:0-2-15,0-2-8], [11:0-3-0,Edge], [14:0-2-12,0-2-8], [20:0-2-8,0-4-12], [21:Edge,0-2-8], [22:0-2-8,0-3-0]

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	0.95	Vert(LL)	-0.40	23-25	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.92	Vert(CT)	-0.95	23-25	>614	180	MT18HS	244/190
BCLL	0.0	Rep Stress Incr	NO	WB	0.88	Horz(CT)	0.30	16	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-SH							Weight: 248 lb	FT = 20%

LUMBER 2x4 SP 2400F 2.0E *Except* 11-15:2x6 SPF TOP CHORD

No.2, 11-8:2x4 SP No.2 **BOT CHORD** 2x4 SP 2400F 2.0E *Except*

21-10,13-17:2x3 SPF No.2, 20-18:2x6 SPF No.2, 17-16:2x4 SP No.2, 24-21:2x4 SP

1650F 1.5F

WFBS 2x3 SPF No.2 *Except* 16-14:2x4 SPF No.3,

23-7,14-18,22-20:2x4 SP No.2

SLIDER Left 2x4 SPF No.3 -- 3-6-9 **BRACING**

TOP CHORD

TOP CHORD

Structural wood sheathing directly applied,

except end verticals.

BOT CHORD Rigid ceiling directly applied or 8-5-11 oc

bracing. WFBS

1 Row at midpt 9-23. 7-23 2=0-3-8, 16=0-3-8 (size)

REACTIONS Max Horiz 2=177 (LC 12)

Max Uplift 2=-410 (LC 8), 16=-293 (LC 13)

Max Grav 2=2248 (LC 1), 16=2242 (LC 1) (lb) - Maximum Compression/Maximum **FORCES**

Tension

1-2=0/0. 2-4=-5356/1084. 4-5=-5109/1050.

5-7=-4332/928, 7-8=-2894/728, 8-9=-2961/745, 9-10=-4141/962 10-12=-4183/914, 12-13=-4464/925

13-14=-3750/816, 14-15=0/22, 14-16=-2192/535

BOT CHORD 2-27=-966/4936, 25-27=-849/4540,

23-25=-656/3662, 22-23=-506/3024, 21-22=-25/174, 20-21=0/82, 10-20=-116/85, 19-20=-761/4066, 18-19=-748/3494,

17-18=0/32, 13-18=-602/176, 16-17=-26/87

WEBS 12-19=0/142, 4-27=-238/180,

8-23=-290/1527, 9-22=-688/180, 5-27=-63/442, 13-19=-69/587, 5-25=-764/283, 9-23=-663/259, 7-25=-93/867, 7-23=-1373/406, 16-18=-54/48, 14-18=-727/3429

12-20=-394/127, 20-22=-497/2949,

9-20=-304/1408

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=0.96; 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 28-5-13, Exterior(2R) 28-5-13 to 33-5-13, Interior (1) 33-5-13 to 49-4-4 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.
- Bearings are assumed to be: Joint 2 SP 2400F 2.0E crushing capacity of 805 psi, Joint 16 SP No.2 crushing capacity of 565 psi.
- 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



January 9,2024

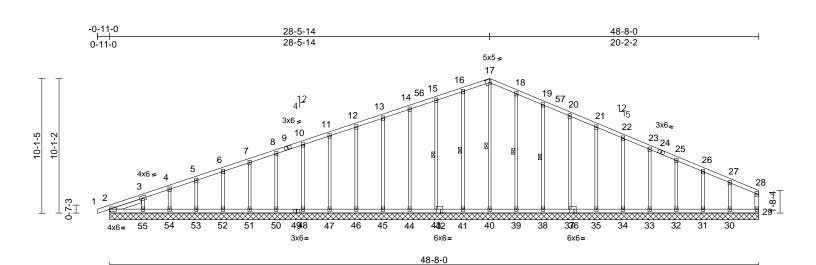
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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 44	
P240008-01	A4	Roof Special Supported Gable	1	1	Job Reference (optional)	162908258

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Mon Jan 08 10:56:39 ID:kkw6VMCTKypljEPYbt576Oz_rGt-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Scale = 1:86.4

Plate Offsets (X, Y): [17:0-3-7,0-3-0], [36:0-2-0,Edge], [42:0-2-0,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	0.11	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.07	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	NO	WB	0.21	Horz(CT)	0.00	29	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-SH							Weight: 254 lb	FT = 20%

LUMBER		Max Grav	2=177 (LC 1), 29=84 (LC 1),
TOP CHORD	2x4 SP No.2		30=196 (LC 26), 31=176 (LC 1),
BOT CHORD	2x4 SP No.2		32=181 (LC 26), 33=180 (LC 1),
WEBS	2x4 SPF No.3		34=180 (LC 26), 35=180 (LC 26
OTHERS	2x3 SPF No.2		37=180 (LC 1), 38=180 (LC 26),
SLIDER	Left 2x4 SPF No.3 2-6-2		39=188 (LC 26), 40=213 (LC 22
BRACING			41=188 (LC 25), 43=180 (LC 25
TOP CHORD	Structural wood sheathing directly applied or		44=180 (LC 1), 45=180 (LC 25),
	6-0-0 oc purlins, except end verticals.		46=180 (LC 1), 47=180 (LC 25),
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc		48=180 (LC 1), 50=180 (LC 25),
20.0	bracing.		51=180 (LC 1), 52=180 (LC 25),
MEDO	17.40.40.44.45.40		53=182 (LC 1), 54=174 (LC 25),

FORCES

TOP CHORD

BOT CHORD

WFBS 1 Row at midpt 17-40, 16-41, 15-43, 18-39, 19-38 REA

ACTIONS	(size)	2=48-8-0, 29=48-8-0, 30=48-8-0,
		31=48-8-0, 32=48-8-0, 33=48-8-0,
		34=48-8-0, 35=48-8-0, 37=48-8-0,
		38=48-8-0, 39=48-8-0, 40=48-8-0,
		41=48-8-0, 43=48-8-0, 44=48-8-0,
		45=48-8-0, 46=48-8-0, 47=48-8-0,
		48=48-8-0, 50=48-8-0, 51=48-8-0,
		52=48-8-0, 53=48-8-0, 54=48-8-0,
		55=48-8-0
	Max Horiz	2=184 (LC 12)
	Max Uplift	2=-45 (LC 13), 30=-97 (LC 13),

33=40-0-0
2=184 (LC 12)
2=-45 (LC 13), 30=-97 (LC 13),
31=-40 (LC 13), 32=-54 (LC 13),
33=-51 (LC 13), 34=-51 (LC 13),
35=-51 (LC 13), 37=-50 (LC 13),
38=-57 (LC 13), 39=-41 (LC 13),
41=-39 (LC 12), 43=-50 (LC 8),
44=-45 (LC 12), 45=-46 (LC 8),
46=-46 (LC 12), 47=-46 (LC 8),
48=-46 (LC 12), 50=-46 (LC 8),
51=-46 (LC 12), 52=-46 (LC 8),
53=-46 (LC 12), 54=-46 (LC 8),
55=-76 (LC 12)

Max G	rav 2=177 (LC 1), 29=84 (LC 1),
	30=196 (LC 26), 31=176 (LC 1),
	32=181 (LC 26), 33=180 (LC 1),
	34=180 (LC 26), 35=180 (LC 26)
	37=180 (LC 1), 38=180 (LC 26),
	39=188 (LC 26), 40=213 (LC 22)
	41=188 (LC 25), 43=180 (LC 25)
	44=180 (LC 1), 45=180 (LC 25),
	46=180 (LC 1), 47=180 (LC 25),
	48=180 (LC 1), 50=180 (LC 25),
	51=180 (LC 1), 52=180 (LC 25),
	53=182 (LC 1), 54=174 (LC 25),
	55=210 (LC 25)
/II-\	Marrian um Camanananian (Marrian um

(lb) - Maximum Compression/Maximum Tension 1-2=0/0, 2-3=-208/116, 3-4=-163/117, 4-5=-142/134, 5-6=-121/151, 6-7=-100/168, 7-8=-79/185, 8-10=-86/209, 10-11=-97/237, 11-12=-108/265, 12-13=-120/293, 13-14=-131/322, 14-15=-143/349, 15-16=-155/379, 16-17=-165/402, 17-18=-169/400, 18-19=-156/343, 19-20=-140/282. 20-21=-126/244. 21-22=-111/209. 22-23=-96/173.

23-25=-82/137, 25-26=-67/100, 26-27=-53/66, 27-28=-59/42, 28-29=-66/19 2-55=-37/72, 54-55=-37/72, 53-54=-37/72, 52-53=-37/72, 51-52=-37/72, 50-51=-37/72 48-50=-37/72, 47-48=-37/72, 46-47=-37/72, 45-46=-37/72, 44-45=-37/72, 43-44=-37/72, 41-43=-37/72, 40-41=-37/72, 39-40=-37/72, 38-39=-37/72, 37-38=-37/72, 35-37=-37/72, 34-35=-37/72, 33-34=-37/72, 32-33=-37/72, 31-32=-37/72, 30-31=-37/72, 29-30=-37/72

WEBS 17-40=-180/37, 16-41=-148/118, 15-43=-140/123, 14-44=-140/71, 13-45=-140/70, 12-46=-140/70, 11-47=-140/70, 10-48=-140/70, 8-50=-140/70, 7-51=-140/70, 6-52=-140/70, 5-53=-141/70, 4-54=-137/69, 3-55=-161/101, 18-39=-148/123, 19-38=-140/133, 20-37=-140/75, 21-35=-140/75, 22-34=-140/75, 23-33=-140/75, 25-32=-141/77, 26-31=-137/69, 27-30=-153/103

Page: 1

NOTES

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



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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

Design Value to use only with rease contractors. This design is based with your parameters shown, and is not an individual building design in 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/TPH 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 44	
P240008-01	A4	Roof Special Supported Gable	1	1	Job Reference (optional)	162908258

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Mon Jan 08 10:56:39 ID:kkw6VMCTKypljEPYbt576Oz_rGt-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 2

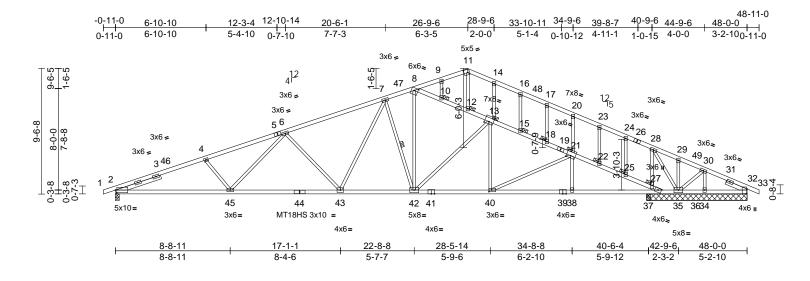
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=0.96; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Corner(3E) -0-11-0 to 4-1-0, Exterior(2N) 4-1-0 to 28-5-14, Corner(3R) 28-5-14 to 33-5-14, Exterior(2N) 33-5-14 to 48-6-4 zone; cantilever 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
- 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.
- All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- 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 44	
P240008-01	B1	Roof Special Structural Gable	4	1	Job Reference (optional)	162908259

Run: 8 63 S. Nov. 1 2023 Print: 8 630 S.Nov. 1 2023 MiTek Industries. Inc. Mon. Jan 08 10:56:39 ID:kkw6VMCTKypljEPYbt576Oz_rGt-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:87.5

LUMBER

Plate Offsets (X, Y): [2:0-1-4	,0-2-8], [8:0-3-8,0-2-7]	7, [11:0-3-7,0-3-0], [13:0-4	-0,0-2-0], [21:0-4-0,0-2-0]	, [32:0-4-3,0-0-7], [40:0-2-8,0-1-8]
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TOP CHORD

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	0.77	Vert(LL)	-0.34	43-45	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.77	Vert(CT)	-0.67	43-45	>729	180	MT18HS	244/190
BCLL	0.0	Rep Stress Incr	NO	WB	0.78	Horz(CT)	0.19	35	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-SH							Weight: 263 lb	FT = 20%

TOP CHORD 2x4 SP No.2 *Except* 1-5,5-11:2x4 SP 1650F 1.5E **BOT CHORD** 2x4 SP 2400F 2 0F *Except* 44-41,41-39:2x4 SP 1650F 1.5E WEBS 2x3 SPF No.2 OTHERS 2x3 SPF No.2 SLIDER Left 2x4 SPF No.3 -- 3-7-3, Right 2x4 SPF No.3 -- 1-8-10 **BRACING** TOP CHORD Structural wood sheathing directly applied or 2-7-9 oc purlins. Except: 1 Row at midpt 12-15 **BOT CHORD** BOT CHORD Rigid ceiling directly applied or 6-0-0 oc

bracing. WEBS 1 Row at midpt 7-42 **JOINTS** 1 Brace at Jt(s): 12,

10, 15, 18, 22, 25, 27. 21

REACTIONS (size) 2=0-3-8, 32=7-7-8, 34=7-7-8, 35=7-7-8, 36=7-7-8, 37=0-3-8

Max Horiz 2=163 (LC 12) Max Uplift 2=-355 (LC 8), 35=-564 (LC 13), 36=-7 (LC 8)

Max Grav 2=1909 (LC 1), 32=174 (LC 1), 34=177 (LC 13), 35=1786 (LC 1), 36=233 (LC 1), 37=283 (LC 3)

FORCES (lb) - Maximum Compression/Maximum Tension

1-2=0/0, 2-4=-4442/870, 4-6=-4205/838, 6-7=-3369/721, 7-8=-2668/651, 8-9=-775/259, 9-11=-780/288, 11-14=-802/301, 14-16=-803/264, 16-17=-847/249, 17-20=-863/224, 20-23=-822/165, 23-24=-841/141, 24-28=-882/122, 28-29=-306/334, 29-30=-332/300, 30-32=-160/105, 32-33=0/0,

8-10=-1879/408, 10-12=-1934/434, 12-13=-1807/390. 13-15=-2165/472 15-18=-2168/480, 18-21=-2208/499 21-22=-2690/635, 22-25=-2724/650

25-27=-2739/660. 27-36=-2513/602 2-45=-776/4092, 43-45=-636/3646. 42-43=-385/2767, 40-42=-359/2752, 38-40=-520/3259, 37-38=-520/3259

36-37=-520/3259, 35-36=-755/0, 34-35=-85/175, 32-34=-85/175 11-12=-112/330, 9-10=-143/67, 13-14=-194/130, 15-16=-14/21

17-18=-106/48, 20-21=-257/152, 22-23=-88/39, 24-25=-47/32, 27-28=-228/906, 29-35=-47/43, 30-34=-155/90, 4-45=-249/176, 6-45=-50/484, 6-43=-799/284, 8-42=-295/1338, 7-42=-1019/315, 13-42=-473/109, 13-40=-19/410,

21-40=-608/206, 21-38=0/187, 30-35=-270/289, 28-35=-1898/545, 7-43=-142/814

NOTES

WEBS

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=0.96; 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 26-9-6, Exterior(2R) 26-9-6 to 31-9-6, Interior (1) 31-9-6 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
- 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 MT20 plates unless otherwise indicated.
- All plates are 3x4 MT20 unless otherwise indicated.
- 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.
- All bearings are assumed to be SP 2400F 2.0E crushing capacity of 805 psi.



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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 44	
P240008-01	B1	Roof Special Structural Gable	4	1	Job Reference (optional)	162908259

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Mon Jan 08 10:56:39 ID:kkw6VMCTKypljEPYbt576Oz_rGt-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

- 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.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 11) 2 X 4 notch at 20000 o.c. is allowed along the stacked top chord. No notches allowed in overhang and 1100 from left end and 1100 from right end or 12" along rake from scarf, whichever is larger. Minimum 1.5x4 tie plates required at 2-0-0 o.c. maximum between the stacking chords. For edge-wise notching, provide at least one tie plate between each notch.

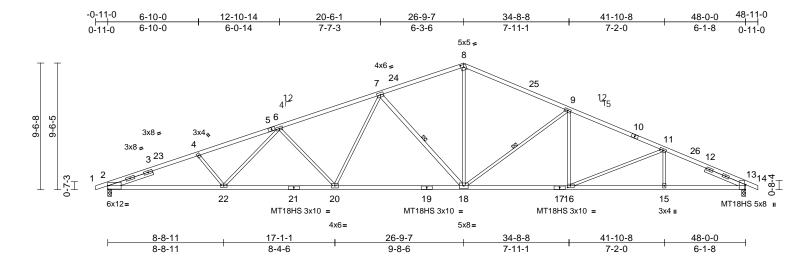
LOAD CASE(S) Standard

Page: 2

Job	Truss	Truss Type	Qty	Ply	Roof - Osage Lot 44	
P240008-01	B2	Roof Special	8	1	Job Reference (optional)	162908260

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Mon Jan 08 10:56:40 ID:kkw6VMCTKypljEPYbt576Oz_rGt-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:86.7

Plate Offsets (X, Y): [8:0-2-11,0-2-4], [13:0-4-7,Edge], [16:0-2-8,0-1-8]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	I /d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.87	Vert(LL)	-0.40	20-22	>999		MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.95	Vert(CT)	-0.40	18-20	>675		MT18HS	244/190
BCLL	0.0	Rep Stress Incr	NO	WB	0.93	Horz(CT)	0.25	13		n/a	WITTOHIS	244/190
		-,			0.91	HOIZ(CT)	0.25	13	n/a	II/a	144 : 14 040 !!	FT 000/
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-SH							Weight: 219 lb	FT = 20%

LUMBER

BOT CHORD

TOP CHORD 2x4 SP 2400F 2.0E *Except* 5-8:2x4 SP

1650F 1.5E

2x4 SP 2400F 2.0E *Except* 17-19.19-21:2x4 SP 1650F 1.5E

WEBS 2x3 SPF No.2 *Except* 18-7:2x4 SP No.2 SLIDER Left 2x4 SPF No.3 -- 3-6-9, Right 2x4 SPF

No.3 -- 3-3-8

BRACING

TOP CHORD Structural wood sheathing directly applied or

2-6-7 oc purlins

BOT CHORD Rigid ceiling directly applied or 8-0-13 oc

bracing.

WEBS 1 Row at midpt 7-18, 9-18

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

Max Horiz 2=169 (LC 16)

Max Uplift 2=-399 (LC 8), 13=-308 (LC 13) Max Grav 2=2224 (LC 1), 13=2224 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/0, 2-4=-5292/1071, 4-6=-5046/1038,

6-7=-4249/922, 7-8=-3028/756, 8-9=-3154/760, 9-11=-3943/854.

11-13=-4433/896, 13-14=0/0

BOT CHORD 2-22=-917/4876, 20-22=-785/4475, 18-20=-572/3582, 16-18=-596/3589.

15-16=-713/3924, 13-15=-713/3924

WEBS 4-22=-238/180, 8-18=-312/1660,

6-22=-55/458, 7-20=-116/860,

7-18=-1210/361, 6-20=-793/290,

11-15=0/234, 9-16=0/398, 11-16=-447/174,

9-18=-1016/321

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=0.96; 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 26-9-7, Exterior(2R) 26-9-7 to 31-9-7, Interior (1) 31-9-7 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
- 3) All plates are MT20 plates unless otherwise indicated.
- 4) All plates are 3x6 MT20 unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- All bearings are assumed to be SP 2400F 2.0E crushing capacity of 805 psi.
- 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



January 9,2024

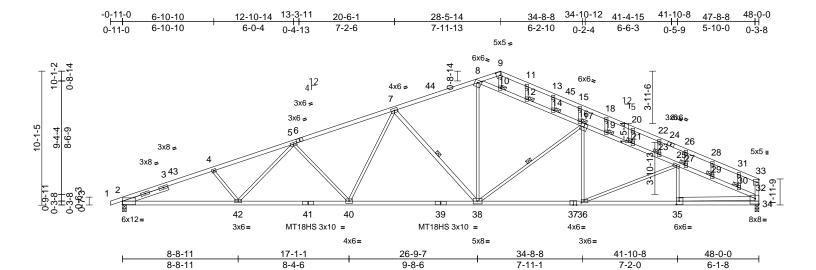
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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 44	
P240008-01	C1	Roof Special Structural Gable	1	1	Job Reference (optional)	162908261

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Mon Jan 08 10:56:41 ID:kkw6VMCTKypljEPYbt576Oz_rGt-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f



Scale = 1:86.9

Plate Offsets (X, Y): [8:0-3-8,0-2-7], [9:0-3-7,0-3-0], [34:Edge,0-5-0], [35:0-2-8,0-3-0], [36:0-2-8,0-1-8]

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	0.79	Vert(LL)	-0.40	40	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.95	Vert(CT)	-0.85	38-40	>674	180	MT18HS	244/190
BCLL	0.0	Rep Stress Incr	NO	WB	0.80	Horz(CT)	0.22	34	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-SH							Weight: 266 lb	FT = 20%

LUMBER TOP CHORD 2x4 SP No.2 *Except* 1-6:2x4 SP 2400F

2.0E, 6-9:2x4 SP 1650F 1.5E 2x4 SP 2400F 2 0F *Except*

37-39,39-41:2x4 SP 1650F 1.5E WEBS 2x3 SPF No.2 *Except* 34-33:2x4 SP 1650F

1.5E, 7-38,35-32:2x4 SP No.2

2x3 SPF No.2 OTHERS

Left 2x4 SPF No.3 -- 3-7-3 SLIDER

BRACING

BOT CHORD

TOP CHORD Structural wood sheathing directly applied or

2-8-6 oc purlins, except end verticals.

Except: 1 Row at midpt 8-12

BOT CHORD Rigid ceiling directly applied or 7-8-7 oc

bracing.

WFBS 1 Row at midpt 7-38, 17-38

JOINTS 1 Brace at Jt(s): 12,

14, 16, 19, 21, 23,

27, 29, 30

REACTIONS (size) 2=0-3-8, 34=0-3-8

Max Horiz 2=220 (LC 12)

Max Uplift 2=-407 (LC 8), 34=-262 (LC 13) Max Grav 2=2225 (LC 1), 34=2149 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/0, 2-4=-5292/1062, 4-5=-5050/1032, 5-7=-4252/915, 7-8=-3026/745,

8-9=-571/371, 9-11=-580/366, 11-13=-586/328, 13-15=-630/309, 15-18=-571/241, 18-20=-574/208, 20-22=-612/191, 22-26=-617/154, 26-28=-579/95, 28-31=-619/77, 31-33=-636/50, 32-34=-2123/509, 32-33=-385/54, 8-10=-2493/497, 10-12=-2416/449. 12-14=-2458/472 14-16=-2473/479, 16-19=-3111/628, 19-21=-3156/650, 21-23=-3173/657,

23-25=-3227/687. 25-27=-3401/748. 27-29=-3489/800, 29-30=-3508/806,

30-32=-3528/827

BOT CHORD 2-42=-977/4876, 40-42=-862/4479

38-40=-652/3585, 36-38=-599/3457, 35-36=-741/3749, 34-35=-306/512

WEBS 9-10=-141/200, 11-12=-110/72, 13-14=-41/29, 15-16=-300/152,

18-19=-120/63, 20-21=-43/21, 22-23=-142/84, 26-27=-232/146

28-29=-50/19, 30-31=-56/59, 4-42=-228/176, 5-42=-53/451, 5-40=-795/291, 7-40=-117/862, 7-38=-1206/361 8-38=-273/1561, 17-38=-875/257,

17-36=0/388, 25-36=-419/213, 25-35=-140/125, 32-35=-466/3246

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=0.96; 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 28-5-14, Exterior(2R) 28-5-14 to 33-5-14, Interior (1) 33-5-14 to 47-10-4 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

Page: 1

- Truss designed for wind loads in the plane of the truss only. For study 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 MT20 plates unless otherwise indicated.
- All plates are 3x4 MT20 unless otherwise indicated.
- 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.
- All bearings are assumed to be SP 2400F 2.0E crushing capacity of 805 psi.
- 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.



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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.sbcscomponents.com)

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Job	Truss	Truss Type	Qty	Ply	Roof - Osage Lot 44	
P240008-01	C1	Roof Special Structural Gable	1	1	Job Reference (optional)	162908261

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Mon Jan 08 10:56:41 $ID: kkw6VMCTKypljEPYbt576Oz_rGt-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?ff$

Page: 2

- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 11) 2 X 4 notch at 20000 o.c. is allowed along the stacked top chord. No notches allowed in overhang and 1100 from left end and 0 from right end or 12" along rake from scarf, whichever is larger. Minimum 1.5x4 tie plates required at 2-0-0 o.c. maximum between the stacking chords. For edge-wise notching, provide at least one tie plate between each notch.

LOAD CASE(S) Standard

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

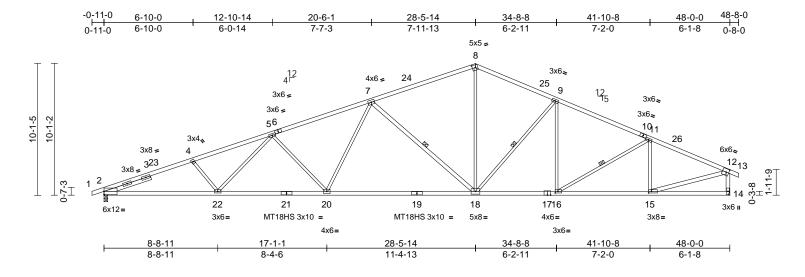
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall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



Job	Truss	Truss Type	Qty	Ply	Roof - Osage Lot 44	
P240008-01	C2	Roof Special	2	1	Job Reference (optional)	162908262

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Mon Jan 08 10:56:42 ID:kkw6VMCTKypljEPYbt576Oz_rGt-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale - 1:88 3

Plate Offsets (X, Y): [8:0-2-15,0-2-8], [12:0-2-9,0-3-0], [15:0-2-8,0-1-8], [16:0-2-8,0-1-8]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defI	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.77	Vert(LL)	-0.36	18-20	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.63	Vert(CT)	-0.86	18-20	>670	180	MT18HS	244/190
BCLL	0.0	Rep Stress Incr	NO	WB	0.75	Horz(CT)	0.18	14	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-SH							Weight: 230 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP 2400F 2.0E *Except* 10-13:2x4 SP

No.2, 10-8:2x4 SP 1650F 1.5E

BOT CHORD 2x4 SP 2400F 2.0E

WEBS 2x3 SPF No.2 *Except* 14-12,15-12,18-7:2x4 SP No.2

SLIDER Left 2x4 SPF No.3 -- 3-9-1

BRACING TOP CHORD

TOP CHORD

D Structural wood sheathing directly applied or

2-10-15 oc purlins, except end verticals.

BOT CHORD Rigid ceiling directly applied or 8-5-7 oc

bracing.

WEBS 1 Row at midpt 11-16, 9-18, 7-18

REACTIONS (size) 2=0-3-8, 14= Mechanical

Max Horiz 2=214 (LC 12)

Max Uplift 2=-407 (LC 8), 14=-284 (LC 13)

Max Grav 2=2218 (LC 1), 14=2210 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

1-2=0/0. 2-4=-5270/1064. 4-5=-5028/1030.

5-7=-4241/907, 7-8=-2803/706,

8-9=-2872/730, 9-11=-3229/745,

11-12=-3046/651, 12-13=0/22,

12-14=-2151/545

BOT CHORD 2-22=-968/4862, 20-22=-827/4455,

18-20=-619/3577, 16-18=-487/2892, 15-16=-498/2743, 14-15=-47/113

WEBS 4-22=-241/181, 8-18=-281/1476,

5-22=-64/450, 7-20=-94/866,

11-15=-623/226, 5-20=-765/283,

12-15=-478/2736, 11-16=-46/269,

9-16=-27/164, 9-18=-612/255,

7-18=-1373/407

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=0.96; 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 28-5-14, Exterior(2R) 28-5-14 to 33-5-14, Interior (1) 33-5-14 to 48-8-0 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
- All plates are MT20 plates unless otherwise indicated.
- 4) All plates are 3x6 MT20 unless otherwise indicated.
- 5) This truss has been designed for a 10.0 psf bottom
- chord live load nonconcurrent with any other live loads.

 6) Bearings are assumed to be: Joint 2 SP 2400F 2.0E crushing capacity of 805 psi, Joint 14 SPF No.3
- crushing capacity of 425 psi.

 7) Refer to girder(s) for truss to truss connections.
- 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



January 9,2024

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

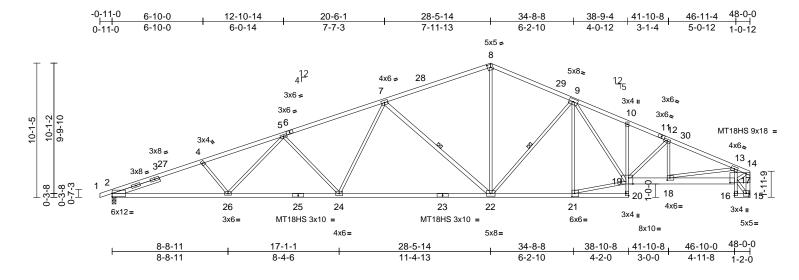
Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not



Job	Truss	Truss Type	Qty	Ply	Roof - Osage Lot 44	
P240008-01	C3	Roof Special	5	1	Job Reference (optional)	162908263

Run: 8 63 S. Nov. 1 2023 Print: 8 630 S.Nov. 1 2023 MiTek Industries. Inc. Mon. Jan 08 10:56:42 ID:kkw6VMCTKypljEPYbt576Oz_rGt-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:86.7

Plate Offsets (X, Y):	[8:0-2-15,0-2-8], [14:1-2-	8,0-8-0], [18:0-2-8,0-2-0], [19:0-3	3-12,Edge], [20:Edge,0-2-8], [21:0-2-8,0-3-0]
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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	0.94	Vert(LL)	-0.37	22-24	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.80	Vert(CT)	-0.88	22-24	>650	180	MT18HS	244/190
BCLL	0.0	Rep Stress Incr	NO	WB	0.95	Horz(CT)	0.27	15	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-SH							Weight: 238 lb	FT = 20%

LUMBER 2x4 SP 2400F 2.0E *Except* 8-11,11-14:2x4 TOP CHORD

SP No.2

BOT CHORD 2x4 SP 2400F 2.0E *Except*

20-10,13-16:2x3 SPF No.2, 19-17:2x6 SPF

No.2

WFBS 2x3 SPF No.2 *Except* 15-14:2x4 SPF No.3, 22-7:2x4 SP No.2

SLIDER Left 2x4 SPF No.3 -- 3-9-1

BRACING

TOP CHORD Structural wood sheathing directly applied,

except end verticals.

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

bracing

WEBS 1 Row at midpt 9-22, 7-22 REACTIONS (size) 2=0-3-8, 15= Mechanical

Max Horiz 2=185 (LC 12)

Max Uplift 2=-407 (LC 8), 15=-265 (LC 13)

Max Grav 2=2218 (LC 1), 15=2153 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/0, 2-4=-5272/1068, 4-5=-5029/1034.

> 5-7=-4242/911, 7-8=-2805/710, 8-9=-2869/728, 9-10=-3867/926 10-12=-3900/877, 12-13=-3979/856

13-14=-2247/537, 14-15=-2092/478 **BOT CHORD** 2-26=-1001/4863, 24-26=-883/4456

22-24=-690/3578, 21-22=-530/2880, 20-21=-33/207, 19-20=0/87, 10-19=-174/90,

18-19=-749/3606, 17-18=-601/2255,

16-17=-2/8, 13-17=-1203/350, 15-16=-23/43

WEBS

4-26=-241/181, 8-22=-277/1463, 5-26=-63/450, 5-24=-765/283, 9-21=-650/183, 7-24=-94/865, 9-22=-589/248, 7-22=-1372/407 19-21=-514/2766, 9-19=-287/1204,

15-17=-78/81, 14-17=-631/2439, 12-18=-225/115, 12-19=-167/91,

13-18=-219/1380

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=0.96; 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 28-5-14, Exterior(2R) 28-5-14 to 33-5-14, Interior (1) 33-5-14 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.
- Bearings are assumed to be: Joint 2 SP 2400F 2.0E crushing capacity of 805 psi, Joint 15 SPF No.3 crushing capacity of 425 psi.
- Refer to girder(s) for truss to truss connections.
- 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



January 9,2024

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

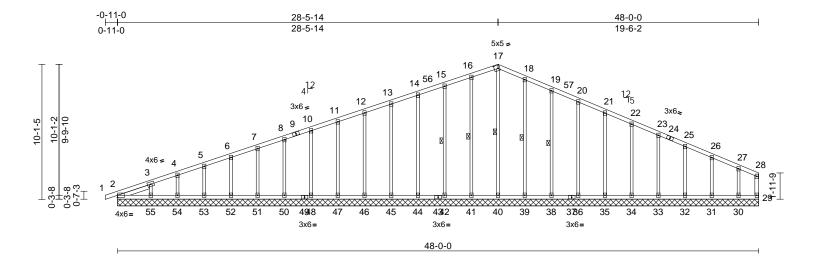
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not



Job	Truss	Truss Type	Qty	Ply	Roof - Osage Lot 44	
P240008-01	C4	Roof Special Supported Gable	1	1	Job Reference (optional)	162908264

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Mon Jan 08 10:56:43 ID:kkw6VMCTKypljEPYbt576Oz_rGt-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:86.2

Plate Offsets	(X,	Y):	[17:0-3-7,0-3-0]	
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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	0.11	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.07	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	NO	WB	0.21	Horz(CT)	0.00	29	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-SH							Weight: 252 lb	FT = 20%

BRACING	
SLIDER	Left 2x4 SPF No.3 2-6-2
OTHERS	2x3 SPF No.2
WEBS	2x4 SPF No.3
BOT CHORD	2x4 SP No.2
TOP CHORD	2x4 SP No.2

TOP CHORD BOT CHORD

LUMBER

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

Rigid ceiling directly applied or 10-0-0 oc bracing.

WFBS 1 Row at midpt

17-40, 16-41, 15-42,

18-39, 19-38

REACTIONS (size)	2=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, 44=48-0-0, 45=48-0-0, 46=48-0-0, 50=48-0-0, 50=48-0-0, 51=48-0-0, 50=48-0-0, 51=48-0-0, 50=48-0-0, 51=48-0-0, 50=48-0-0, 51=48-0-0, 50=48-0-0, 51=48-0-0, 50=48-0-0, 5
	52=48-0-0, 53=48-0-0, 54=48-0-0, 55=48-0-0

Max Horiz 2=185 (LC 12)

Max Uplift 2=-42 (LC 13), 30=-96 (LC 13), 31=-45 (LC 13), 32=-53 (LC 13), 33=-51 (LC 13), 34=-51 (LC 13), 35=-51 (LC 13), 36=-50 (LC 13), 38=-57 (LC 13), 39=-41 (LC 13),

41=-40 (LC 12), 42=-50 (LC 8), 44=-45 (LC 12), 45=-46 (LC 8), 46=-46 (LC 12), 47=-46 (LC 8), 48=-46 (LC 12), 50=-46 (LC 8), 51=-46 (LC 12), 52=-46 (LC 8),

53=-46 (LC 12), 54=-46 (LC 8), 55=-76 (LC 12)

Max Grav 2=175 (LC 1), 29=69 (LC 22), 30=161 (LC 26), 31=185 (LC 1), 32=179 (LC 26), 33=180 (LC 1), 34=180 (LC 26), 35=180 (LC 26), 36=180 (LC 1), 38=179 (LC 26), 39=188 (LC 26), 40=211 (LC 22), 41=188 (LC 25), 42=180 (LC 25), 44=180 (LC 1), 45=180 (LC 25), 46=180 (LC 1), 47=180 (LC 25), 48=180 (LC 1), 50=180 (LC 25), 51=180 (LC 1), 52=180 (LC 25), 53=182 (LC 1), 54=174 (LC 25),

55=210 (LC 25) (lb) - Maximum Compression/Maximum Tension

1-2=0/0, 2-3=-210/109, 3-4=-164/110, 4-5=-143/126, 5-6=-121/143, 6-7=-100/160, 7-8=-79/183, 8-10=-86/211, 10-11=-98/239, 11-12=-109/267, 12-13=-120/295, 13-14=-132/323, 14-15=-143/351,

15-16=-155/381, 16-17=-165/404, 17-18=-170/401, 18-19=-156/345, 19-20=-141/284. 20-21=-126/246. 21-22=-112/211, 22-23=-97/175, 23-25=-82/139, 25-26=-68/103,

26-27=-53/67, 27-28=-53/50. 28-29=-46/9 2-55=-43/74, 54-55=-43/74, 53-54=-43/74, 52-53=-43/74, 51-52=-43/74, 50-51=-43/74, 48-50=-43/74, 47-48=-43/74, 46-47=-43/74, 45-46=-43/74, 44-45=-43/74, 42-44=-43/74, 41-42=-43/74, 40-41=-43/74, 39-40=-43/74, 38-39=-43/74, 36-38=-43/74, 35-36=-43/74,

34-35=-43/74, 33-34=-43/74, 32-33=-43/74, 31-32=-43/74, 30-31=-43/74, 29-30=-43/74

17-40=-181/37, 16-41=-148/119, 15-42=-140/123, 14-44=-140/71, 13-45=-140/70, 12-46=-140/70, 11-47=-140/70, 10-48=-140/70, 8-50=-140/70, 7-51=-140/70, 6-52=-140/70, 5-53=-141/70, 4-54=-137/69, 3-55=-161/102, 18-39=-148/123, 19-38=-139/133, 20-36=-140/75, 21-35=-140/75,

22-34=-140/75, 23-33=-140/75, 25-32=-139/75, 26-31=-144/74,

27-30=-126/94

NOTES

WEBS

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



January 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

FORCES

TOP CHORD

BOT CHORD



Job	Truss	Truss Type	Qty	Ply	Roof - Osage Lot 44	
P240008-01	C4	Roof Special Supported Gable	1	1	Job Reference (optional)	162908264

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Mon Jan 08 10:56:43 ID:kkw6VMCTKypljEPYbt576Oz_rGt-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 2

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=0.96; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Corner(3E) -0-11-0 to 4-1-0, Exterior(2N) 4-1-0 to 28-5-14, Corner(3R) 28-5-14 to 33-5-14, Exterior(2N) 33-5-14 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
- 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.
- All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- 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 44	
P240008-01	D1	Roof Special	4	1	Job Reference (optional)	62908265

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Mon Jan 08 10:56:44 ID:kkw6VMCTKypljEPYbt576Oz_rGt-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

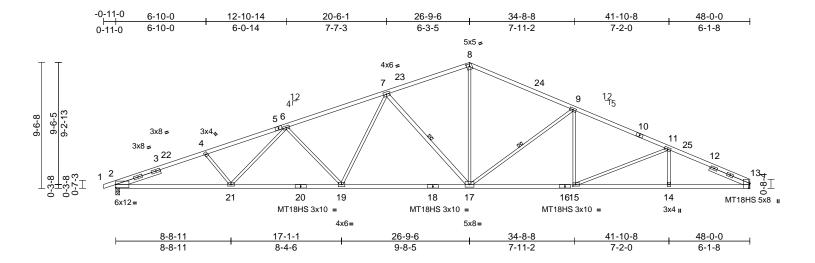


Plate Offsets (X, Y): [8:0-2-11,0-2-4], [13:0-4-7,Edge], [15:0-2-8,0-1-8]

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	0.87	Vert(LL)	-0.40	19-21	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.95	Vert(CT)	-0.85	17-19	>676	180	MT18HS	197/144
BCLL	0.0	Rep Stress Incr	NO	WB	0.92	Horz(CT)	0.25	13	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-SH							Weight: 217 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP 2400F 2.0E *Except* 5-8:2x4 SP

1650F 1.5E

BOT CHORD 2x4 SP 2400F 2.0E *Except* 18-20.18-16:2x4 SP 1650F 1.5E

WEBS 2x3 SPF No.2 *Except* 17-7:2x4 SP No.2 SLIDER Left 2x4 SPF No.3 -- 3-6-9, Right 2x4 SPF

No.3 -- 3-3-8

BRACING

TOP CHORD Structural wood sheathing directly applied or 2-6-7 oc purlins

BOT CHORD Rigid ceiling directly applied or 8-0-12 oc

bracing.

WEBS 1 Row at midpt 7-17, 9-17

REACTIONS (size) 2=0-3-8, 13= Mechanical Max Horiz 2=169 (LC 16)

Max Uplift 2=-399 (LC 8), 13=-285 (LC 13)

Max Grav 2=2225 (LC 1), 13=2159 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

1-2=0/0, 2-4=-5294/1072, 4-6=-5048/1039, TOP CHORD

6-7=-4250/923, 7-8=-3030/757,

8-9=-3156/766, 9-11=-3948/867

11-13=-4445/926

BOT CHORD 2-21=-918/4877, 19-21=-786/4476, 17-19=-572/3584, 15-17=-597/3593,

14-15=-740/3937, 13-14=-740/3937

WEBS 4-21=-238/180, 8-17=-316/1661,

6-21=-55/458, 7-19=-117/860,

7-17=-1209/360, 6-19=-793/290, 11-14=0/234, 9-17=-1019/322,

11-15=-456/177, 9-15=0/399

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=0.96; 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 26-9-6, Exterior(2R) 26-9-6 to 31-9-6, Interior (1) 31-9-6 to 48-0-0 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.
- All plates are 3x6 MT20 unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Bearings are assumed to be: Joint 2 SP 2400F 2.0E crushing capacity of 805 psi, Joint 13 SPF No.3 crushing capacity of 425 psi.
- Refer to girder(s) for truss to truss connections.
- 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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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 44	
P240008-01	D2	Roof Special	10	1	I6 Job Reference (optional)	62908266

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Mon Jan 08 10:56:45 ID:kkw6VMCTKypljEPYbt576Oz_rGt-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

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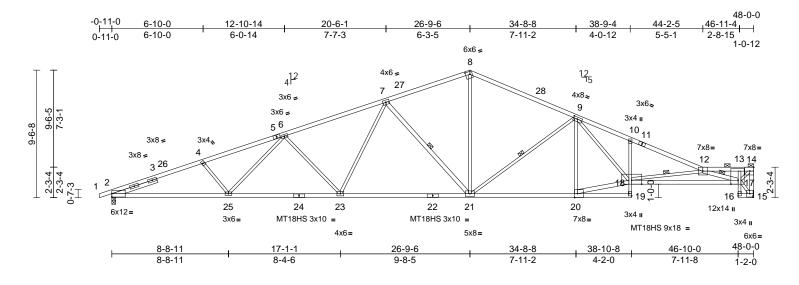


Plate Offsets (X, Y): [8:0-3-15,0-2-8], [9:0-3-10,0-1-12], [14:0-3-8,Edge], [17:0-3-8,Edge], [19:Edge,0-2-8], [20:0-2-8,Edge]

Loading	(psf)	Spacing	2-0-0	csı		DEFL	in	(loc)	l/defl	1./4	PLATES	GRIP
Loading	(þsi)	Spacing	2-0-0	631		DEFL	111	(IUC)	i/ueii	L/u	FLAILS	GKIF
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.89	Vert(LL)	-0.49	21	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.95	Vert(CT)	-1.01	21-23	>566	180	MT18HS	244/190
BCLL	0.0	Rep Stress Incr	NO	WB	0.96	Horz(CT)	0.45	15	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-SH							Weight: 233 lb	FT = 20%

LUMBER TOP CHORD 2x4 SP 2400F 2.0E *Except* 12-14:2x4 SP

No.2, 5-8:2x4 SP 1650F 1.5E **BOT CHORD** 2x4 SP 2400F 2 0F *Except*

19-10,13-16:2x3 SPF No.2, 16-15:2x4 SP No.2, 24-22,22-19:2x4 SP 1650F 1.5E

WFBS 2x3 SPF No.2 *Except*

21-7,17-12,15-14,20-18:2x4 SP No.2 Left 2x4 SPF No.3 -- 3-6-9 SLIDER

BRACING

TOP CHORD Structural wood sheathing directly applied or 2-6-7 oc purlins, except end verticals, and

2-0-0 oc purlins (3-10-7 max.): 12-14. **BOT CHORD** Rigid ceiling directly applied or 6-0-0 oc

bracing.

WFBS 1 Row at midpt 7-21, 12-18, 9-21, 12-17

REACTIONS 2=0-3-8, 15= Mechanical (size)

Max Horiz 2=175 (LC 16)

Max Uplift 2=-398 (LC 8), 15=-286 (LC 13) Max Grav 2=2218 (LC 1), 15=2153 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension TOP CHORD

1-2=0/0. 2-4=-5276/1068. 4-6=-5030/1035.

6-7=-4230/919, 7-8=-3012/753, 8-9=-3133/744, 9-10=-5341/1152 10-12=-5402/1085, 12-13=-2082/393,

13-14=-1931/396, 14-15=-2054/439 **BOT CHORD** 2-25=-1038/4860, 23-25=-929/4458

21-23=-721/3564, 20-21=-706/3532 19-20=-71/137, 18-19=0/55, 10-18=-295/151,

17-18=-1616/7240, 16-17=-9/7, 13-17=-207/114, 15-16=-53/88

WEBS 4-25=-239/180, 6-25=-55/459,

7-23=-117/860, 6-23=-794/290 8-21=-297/1630, 7-21=-1207/360, 12-18=-2328/621, 9-21=-970/304, 12-17=-5473/1239, 15-17=-99/125 14-17=-615/2796, 18-20=-654/3496, 9-18=-457/2152, 9-20=-723/236

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=0.96; 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 26-9-6, Exterior(2R) 26-9-6 to 31-9-6, Interior (1) 31-9-6 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
- Provide adequate drainage to prevent water ponding.
- 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.
- Bearings are assumed to be: Joint 2 SP 2400F 2.0E crushing capacity of 805 psi, Joint 15 SPF No.3 crushing capacity of 425 psi.
- Refer to girder(s) for truss to truss connections.
- 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.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord

LOAD CASE(S) Standard



January 9,2024

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

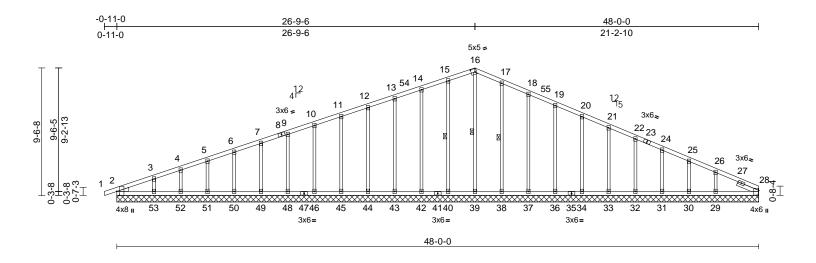
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not



Job	Truss	Truss Type	Qty	Ply	Roof - Osage Lot 44	
P240008-01	D3	Roof Special Supported Gable	2	1	Job Reference (optional)	162908267

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Mon Jan 08 10:56:46 ID:kkw6VMCTKypljEPYbt576Oz_rGt-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:86.1

Plate Offsets (X, Y): [2:0-3-8,Edge], [16:0-3-7,0-3-0], [28:0-4-3,0-0-7]												
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	0.16	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.08	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	NO	WB	0.22	Horz(CT)	0.01	28	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-SH							Weight: 240 lb	FT = 20%

LUMBER			Max Grav	2=190 (LC 1), 28=133 (LC 1),
TOP CHORD	2x4 SP No.2			29=285 (LC 26), 30=145 (LC 1),
BOT CHORD	2x4 SP No.2			31=189 (LC 26), 32=178 (LC 1),
OTHERS	2x3 SPF No.2			33=180 (LC 26), 34=180 (LC 26),
WEDGE	Left: 2x4 SP No.2			36=180 (LC 1), 37=180 (LC 26),
SLIDER	Right 2x4 SPF No.3 1-8-10			38=188 (LC 26), 39=189 (LC 22),
BRACING	3			40=188 (LC 25), 42=180 (LC 25),
TOP CHORD	Christian I was a shapphing directly applied as			43=180 (LC 1), 44=180 (LC 25),
TOP CHORD	Structural wood sheathing directly applied or			45=180 (LC 1), 46=180 (LC 25),
	6-0-0 oc purlins.			48=180 (LC 25), 49=180 (LC 1),
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc			50=179 (LC 25), 51=185 (LC 1),
	bracing.			
WEBS	1 Row at midpt 16-39, 15-40, 17-38			52=160 (LC 25), 53=240 (LC 25)
REACTIONS	(size) 2=48-0-0, 28=48-0-0, 29=48-0-0.	FORCES	(lb) - Max	rimum Compression/Maximum
NEACTIONS	(,		Tension	
	30=48-0-0, 31=48-0-0, 32=48-0-0,	TOP CHOPD	1 2-0/0	2 2 200/05 2 4 155/07

(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, 36=48-0-0,
	37=48-0-0, 38=48-0-0, 39=48-0-0,
	40=48-0-0, 42=48-0-0, 43=48-0-0,
	44=48-0-0, 45=48-0-0, 46=48-0-0,
	48=48-0-0, 49=48-0-0, 50=48-0-0,
	51=48-0-0, 52=48-0-0, 53=48-0-0
Max Horiz	2=169 (LC 12)
Max Uplift	2=-25 (LC 13), 29=-107 (LC 13),
•	30=-33 (LC 13), 31=-55 (LC 13),
	00 50 (10 40) 00 54 (10 40)

32=-50 (LC 13), 33=-51 (LC 13), 34=-51 (LC 13), 36=-50 (LC 13), 37=-56 (LC 13), 38=-44 (LC 13), 40=-41 (LC 12), 42=-49 (LC 8), 43=-45 (LC 12), 44=-46 (LC 8), 45=-46 (LC 8), 46=-46 (LC 12), 48=-46 (LC 8), 49=-46 (LC 12), 50=-46 (LC 8), 51=-47 (LC 12), 52=-42 (LC 8), 53=-83 (LC 12)

1).), ?5) TOP CHORD 1-2=0/0, 2-3=-208/85, 3-4=-155/87 4-5=-128/96, 5-6=-107/109, 6-7=-91/126, 7-9=-76/142, 9-10=-60/159, 10-11=-65/176, 11-12=-76/193, 12-13=-88/221, 13-14=-99/248, 14-15=-111/278, 15-16=-122/302, 16-17=-125/297, 17-18=-111/248, 18-19=-96/211, 19-20=-81/175, 20-21=-66/139, 21-22=-52/103, 22-24=-52/67, 24-25=-52/36, 25-26=-76/19, 26-28=-119/36 **BOT CHORD** 2-53=-38/138, 52-53=-38/138 51-52=-38/138, 50-51=-38/138 49-50=-38/138, 48-49=-38/138, 46-48=-38/138, 45-46=-38/138, 44-45=-38/138, 43-44=-38/138, 42-43=-38/138, 40-42=-38/138, 39-40=-38/138, 38-39=-38/138, 37-38=-38/138, 36-37=-38/138, 34-36=-38/138, 33-34=-38/138, 32-33=-38/138, 31-32=-38/138, 30-31=-38/138, 29-30=-38/138, 28-29=-38/138

WEBS 16-39=-149/21, 15-40=-148/120, 14-42=-140/123, 13-43=-140/70, 12-44=-140/70, 11-45=-140/70, 10-46=-140/70, 9-48=-140/70, 7-49=-140/70, 6-50=-139/70, 5-51=-143/71, 4-52=-127/65, 3-53=-179/109, 17-38=-148/129, 18-37=-140/131, 19-36=-140/76, 20-34=-140/75, 21-33=-140/75, 22-32=-139/74, 24-31=-145/79, 25-30=-118/59, 26-29=-211/127

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=0.96; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Corner(3E) -0-11-0 to 4-1-0, Exterior(2N) 4-1-0 to 26-9-6, Corner(3R) 26-9-6 to 31-9-6, Exterior(2N) 31-9-6 to 48-0-0 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



January 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 44	
P240008-01	D3	Roof Special Supported Gable	2	1	Job Reference (optional)	162908267

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Mon Jan 08 10:56:46 ID:kkw6VMCTKypljEPYbt576Oz_rGt-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.

All bearings are assumed to be SP No.2 crushing capacity of 565 psi.

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.

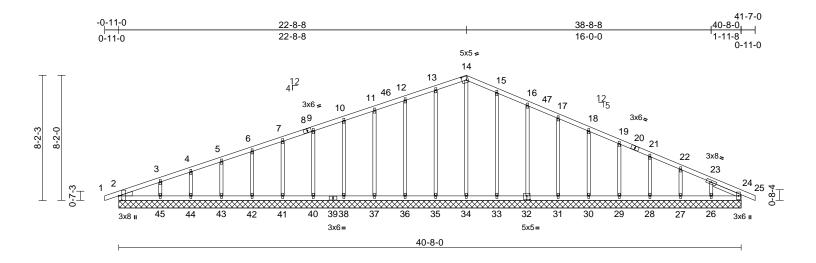
LOAD CASE(S) Standard

Page: 2

Job	Truss	Truss Type	Qty	Ply	Roof - Osage Lot 44			
P240008-01	E1	Roof Special Supported Gable	4	1	Job Reference (optional)	162908268		

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Mon Jan 08 10:56:47 ID:kkw6VMCTKypljEPYbt576Oz_rGt-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:75.3

Plate Offsets (X, Y)	[2:0-3-8,Edge]	, [14:0-3-7,0-3-0],	[32:0-2-8,0-3-0]
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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	0.09	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	NO	WB	0.21	Horz(CT)	0.01	24	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-SH							Weight: 195 lb	FT = 20%

BRACING	
WEDGE	Left: 2x4 SP No.2
OTHERS	2x3 SPF No.2
WEBS	2x3 SPF No.2
BOT CHORD	2x4 SP No.2
TOP CHORD	2x4 SP No.2

TOP CHORD

LUMBER

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)	2=40-8-0, 24=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, 35=40-8-0,
		36=40-8-0, 37=40-8-0, 38=40-8-0,
		40=40-8-0, 41=40-8-0, 42=40-8-0,
		43=40-8-0, 44=40-8-0, 45=40-8-0

Max Horiz 2=139 (LC 12)

Max Uplift 2=-20 (LC 13), 24=-6 (LC 9),

26=-71 (LC 13), 27=-49 (LC 13), 28=-50 (LC 13), 29=-49 (LC 13), 30=-50 (LC 13), 31=-48 (LC 13), 32=-52 (LC 13), 33=-46 (LC 13), 35=-42 (LC 12), 36=-47 (LC 8), 37=-44 (LC 12), 38=-44 (LC 8), 40=-44 (LC 8), 41=-44 (LC 12), 42=-44 (LC 8), 43=-46 (LC 12), 44=-41 (LC 8), 45=-77 (LC 12)

32=173 (LC 26), 33=182 (LC 26), 34=174 (LC 22), 35=183 (LC 25), 36=174 (LC 25), 37=174 (LC 1), 38=174 (LC 25), 40=174 (LC 1), 41=175 (LC 25), 42=173 (LC 25),

43=179 (LC 1), 44=157 (LC 25), 45=227 (LC 25) (lb) - Maximum Compression/Maximum

2=177 (LC 1), 24=155 (LC 1),

26=170 (LC 26), 27=175 (LC 26),

28=174 (LC 1), 29=174 (LC 1),

30=174 (LC 26), 31=175 (LC 1),

FORCES Tension TOP CHORD

1-2=0/0, 2-3=-171/69, 3-4=-121/72, 4-5=-95/81, 5-6=-76/93, 6-7=-61/110, 7-9=-46/126, 9-10=-51/142, 10-11=-62/168, 11-12=-73/195, 12-13=-84/223,

13-14=-95/247, 14-15=-97/242, 15-16=-83/194, 16-17=-69/159, 17-18=-55/124, 18-19=-41/89, 19-21=-39/54,

21-22=-47/28, 22-23=-67/21, 23-24=-117/41, 24-25=0/0

BOT CHORD 2-45=-36/121, 44-45=-36/121,

43-44=-36/121, 42-43=-36/121, 41-42=-36/121, 40-41=-36/121, 38-40=-36/121, 37-38=-36/121, 36-37=-36/121, 35-36=-36/121 34-35=-36/121, 33-34=-36/121, 31-33=-36/121, 30-31=-35/120, 29-30=-35/120, 28-29=-35/120, 27-28=-35/120, 26-27=-35/120,

24-26=-35/120

WEBS 14-34=-135/7, 13-35=-144/120, 12-36=-135/118, 11-37=-136/68, 10-38=-136/68, 9-40=-136/68, 7-41=-136/68, 6-42=-135/67, 5-43=-138/69, 4-44=-125/63, 3-45=-170/101, 15-33=-144/128,

16-32=-134/126, 17-31=-136/73, 18-30=-136/73, 19-29=-136/73, 21-28=-136/73, 22-27=-136/73,

23-26=-132/92

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=0.96; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Corner(3E) -0-11-0 to 4-1-0, Exterior(2N) 4-1-0 to 22-8-8, Corner(3R) 22-8-8 to 27-8-8, Exterior(2N) 27-8-8 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



January 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



Job	Truss	Truss Type	Qty	Ply	Roof - Osage Lot 44	
P240008-01	E1	Roof Special Supported Gable	4	1	Job Reference (optional)	162908268

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Mon Jan 08 10:56:47

 $ID: kkw6VMCTKypljEPYbt576Oz_rGt-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?ff$

- 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.
- 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.
- All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- 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.

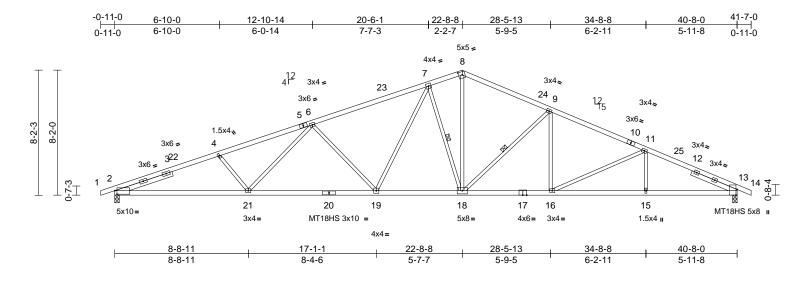
LOAD CASE(S) Standard

Page: 2

Job	Truss	Truss Type	Qty	Ply	Roof - Osage Lot 44	
P240008-01	E2	Roof Special	8	1	Job Reference (optional)	162908269

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Mon Jan 08 10:56:48 ID:kkw6VMCTKypljEPYbt576Oz_rGt-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:75.3

Plate Offsets (X, Y):	[2:0-1-12,0-2-12]	, [8:0-2-15,0-2-8],	[13:0-4-7,Edge]
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				l								
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	0.90	Vert(LL)	-0.34	19-21	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.87	Vert(CT)	-0.68	19-21	>717	180	MT18HS	197/144
BCLL	0.0	Rep Stress Incr	NO	WB	0.82	Horz(CT)	0.21	13	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-SH							Weight: 185 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP 1650F 1.5E

BOT CHORD 2x4 SP 1650F 1.5E *Except* 0-0:2x4 SP

No.2

WEBS 2x3 SPF No.2

SLIDER Left 2x4 SPF No.3 -- 3-11-3, Right 2x4 SPF

No.3 -- 3-2-7

BRACING

TOP CHORD

TOP CHORD Structural wood sheathing directly applied or

2-4-11 oc purlins.

BOT CHORD Rigid ceiling directly applied or 8-2-6 oc

bracing.
WEBS 1 Row a

1 Row at midpt 7-18, 9-18

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

Max Horiz 2=144 (LC 12)

Max Uplift 2=-344 (LC 8), 13=-264 (LC 13)

Max Grav 2=1894 (LC 1), 13=1894 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

1-2=0/0. 2-4=-4371/905. 4-6=-4128/869.

6-7=-3246/749, 7-8=-2517/675,

8-9=-2630/662, 9-11=-3211/720,

11-13=-3681/763, 13-14=0/0

BOT CHORD 2-21=-762/4030, 19-21=-626/3551, 18-19=-393/2633, 16-18=-482/2916.

15-16=-594/3243, 13-15=-594/3243

4-21=-276/186, 8-18=-394/1581,

6-19=-837/296, 7-18=-1017/317,

6-21=-56/525, 11-16=-436/169,

9-18=-808/247, 9-16=0/358, 11-15=0/217,

7-19=-147/848

NOTES

WEBS

 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=0.96; 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 22-8-8, Exterior(2R) 22-8-8 to 27-8-8, Interior (1) 27-8-8 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.
- All bearings are assumed to be SP 1650F 1.5E crushing capacity of 565 psi.
- 6) 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



January 9,2024

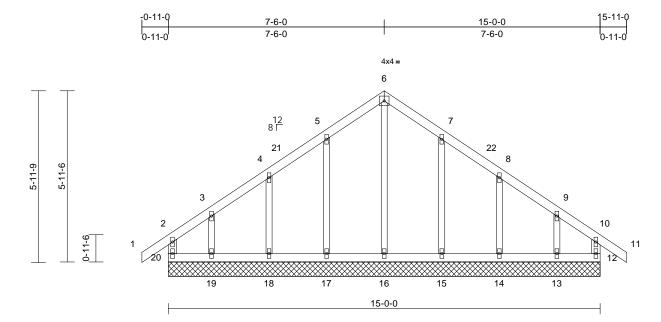
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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 44	
P240008-01	G1	Common Supported Gable	2	1	Job Reference (optional)	162908270

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Mon Jan 08 10:56:49 ID:kkw6VMCTKypljEPYbt576Oz_rGt-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f



BCLL BCDL

Loading

TCDI

TCLL (roof)

Scale = 1:40

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

BRACING

TOP CHORD Sheathed or 6-0-0 oc purlins, except end

(psf)

25.0

10.0

0.0

10.0

verticals.

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

bracing.

REACTIONS (size)

12=15-0-0, 13=15-0-0, 14=15-0-0, 15=15-0-0, 16=15-0-0, 17=15-0-0, 18=15-0-0, 19=15-0-0, 20=15-0-0

Spacing

Plate Grip DOL

Rep Stress Incr

Lumber DOL

2-0-0

1.15

1 15

NO

IRC2018/TPI2014

Max Horiz 20=180 (LC 11)

Max Uplift 12=-53 (LC 9), 13=-105 (LC 13), 14=-72 (LC 13), 15=-74 (LC 13),

17=-75 (LC 12), 18=-70 (LC 12), 19=-111 (LC 12), 20=-79 (LC 8)

Max Grav 12=155 (LC 19), 13=178 (LC 20), 14=189 (LC 20), 15=197 (LC 20),

16=195 (LC 22), 17=198 (LC 19), 18=187 (LC 25), 19=190 (LC 19),

20=176 (LC 20)

FORCES (lb) - Maximum Compression/Maximum

Tension TOP CHORD

2-20=-143/91, 1-2=0/41, 2-3=-110/106, 3-4=-80/85, 4-5=-78/165, 5-6=-117/243, 6-7=-117/243, 7-8=-77/165, 8-9=-59/80, 9-10=-80/76, 10-11=0/41, 10-12=-133/91

BOT CHORD 19-20=-83/90. 18-19=-83/90. 17-18=-83/90.

16-17=-83/90, 15-16=-83/90, 14-15=-83/90, 13-14=-83/90, 12-13=-83/90

6-16=-181/31, 5-17=-157/117 4-18=-149/152, 3-19=-135/128

> 7-15=-156/117, 8-14=-150/152, 9-13=-128/128

NOTES

WEBS

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=0.96; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Corner(3E) -0-11-0 to 4-1-0, Exterior(2N) 4-1-0 to 7-6-0, Corner(3R) 7-6-0 to 12-6-0, Exterior(2N) 12-6-0 to 15-11-0 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

DEFL

Vert(LL)

Vert(CT)

Horz(CT)

0.10

0.06

0.14

I/defl

n/a 999

n/a 999

n/a n/a

(loc)

12

n/a

n/a

0.00

L/d

PLATES

Weight: 72 lb

MT20

GRIP

244/190

FT = 20%

CSI

TC

BC

WB

Matrix-R

- 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.
- All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- 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



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January 9,2024

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

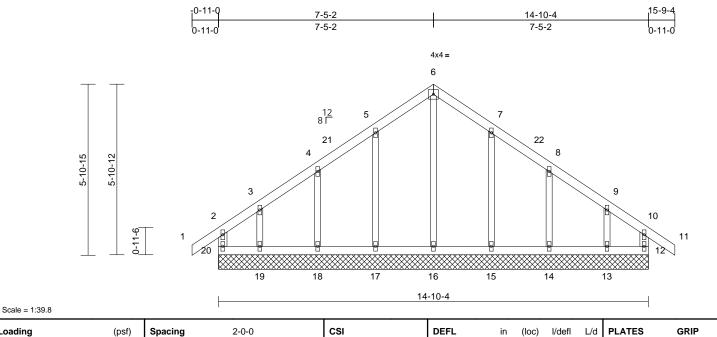
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not



Job	Truss	Truss Type	Qty	Ply	Roof - Osage Lot 44	
P240008-01	G1A	Common Supported Gable	1	1	Job Reference (optional)	162908271

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Mon Jan 08 10:56:49 ID:kkw6VMCTKypljEPYbt576Oz_rGt-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Loading

TCDI

BCLL

BCDL

TCLL (roof)

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

BRACING

TOP CHORD Sheathed or 6-0-0 oc purlins, except end

25.0

10.0

0.0

10.0

Plate Grip DOL

Rep Stress Incr

Lumber DOL

Code

1.15

1 15

NO

IRC2018/TPI2014

verticals.

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

bracing.

REACTIONS (size)

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, 19=14-10-4,

20=14-10-4 Max Horiz 20=-179 (LC 10)

12=-55 (LC 9), 13=-105 (LC 13), Max Uplift

14=-72 (LC 13), 15=-74 (LC 13), 17=-75 (LC 12), 18=-71 (LC 12),

19=-112 (LC 12), 20=-82 (LC 8) Max Grav 12=154 (LC 19), 13=175 (LC 20),

14=190 (LC 20), 15=197 (LC 20), 16=194 (LC 22), 17=198 (LC 19), 18=187 (LC 19), 19=187 (LC 19),

20=176 (LC 20)

FORCES (lb) - Maximum Compression/Maximum

Tension

2-20=-143/89, 1-2=0/41, 2-3=-110/107, TOP CHORD 3-4=-79/85, 4-5=-76/162, 5-6=-116/241,

6-7=-116/241, 7-8=-76/162, 8-9=-59/77, 9-10=-81/76, 10-11=0/41, 10-12=-131/88

BOT CHORD 19-20=-82/90, 18-19=-82/90, 17-18=-82/90, 16-17=-82/90, 15-16=-82/90, 14-15=-82/90,

13-14=-82/90, 12-13=-82/90

6-16=-179/29, 5-17=-157/118 4-18=-150/154, 3-19=-132/125,

7-15=-156/118, 8-14=-151/154,

9-13=-125/126

Unbalanced roof live loads have been considered for this design

0.10

0.06

0.13

Vert(LL)

Vert(CT)

Horz(CT)

n/a

n/a

0.00

n/a 999

n/a 999

n/a n/a

12

MT20

Weight: 71 lb

244/190

FT = 20%

TC

BC

WB

Matrix-R

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=0.96; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Corner(3E) -0-11-0 to 4-1-0, Exterior(2N) 4-1-0 to 7-5-2, Corner(3R) 7-5-2 to 12-5-2, Exterior(2N) 12-5-2 to 15-9-4 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
- Truss designed for wind loads in the plane of the truss only. For study 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.
- All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- 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



January 9,2024

NOTES

WFBS

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 44	
P240008-01	G2	Common Girder	2	3	Job Reference (optional)	162908272

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Mon Jan 08 10:56:50 ID:kkw6VMCTKypljEPYbt576Oz_rGt-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

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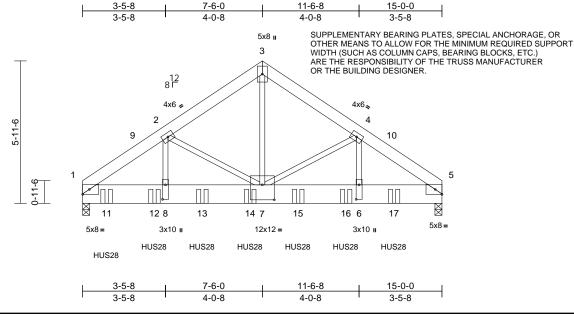


Plate Offsets (X, Y): [6:0-7-4,0-1-8], [7:0-6-0,0-7-8], [8:0-7-4,0-1-8]

-		T										
Loading	(psf)	Spacing	2-0-0	csı		DEFL	in	(loc)	I/defI	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.23	Vert(LL)	-0.05	7-8	>999	240	MT20	185/144
TCDL	10.0	Lumber DOL	1.15	BC	0.57	Vert(CT)	-0.09	7-8	>999	180		
BCLL	0.0	Rep Stress Incr	NO	WB	0.90	Horz(CT)	0.03	5	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-SH							Weight: 281 lb	FT = 20%

LUMBER

TOP CHORD 2x6 SPF No.2 **BOT CHORD** 2x10 HF No.2 2x3 SPF No.2 WEBS

BRACING

TOP CHORD Sheathed or 6-0-0 oc purlins.

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

bracing

REACTIONS (size) 1=0-3-8, (req. 0-4-12), 5=0-3-8,

(req. 0-4-3) Max Horiz 1=143 (LC 11)

Max Uplift 1=-1195 (LC 12), 5=-1054 (LC 13)

Max Grav 1=8643 (LC 1), 5=7625 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

1-2=-10445/1495, 2-3=-7588/1150, TOP CHORD 3-4=-7588/1150, 4-5=-10338/1480

BOT CHORD 1-8=-1171/8174, 7-8=-1175/8203,

6-7=-1113/8105. 5-6=-1110/8077

2-8=-424/3292, 2-7=-2266/415,

3-7=-1124/7876, 4-7=-2150/402,

4-6=-404/3182

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.

Bottom chords connected as follows: 2x10 - 4 rows staggered at 0-4-0 oc.

Web connected as follows: 2x3 - 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 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=0.96; 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 7-6-0, Exterior(2R) 7-6-0 to 12-6-0, Interior (1) 12-6-0 to 14-10-4 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
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- WARNING: Required bearing size at joint(s) 1, 5 greater than input bearing size
- All bearings are assumed to be HF No.2 crushing capacity of 405 psi.
- 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.
- Use Simpson Strong-Tie HUS28 (22-16d Girder, 4-16d Truss, Single Ply Girder) or equivalent spaced at 2-0-0 oc max. starting at 1-0-0 from the left end to 13-0-0 to connect truss(es) to back face of bottom chord.
- 10) 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, 1-5=-20

Concentrated Loads (lb)

Vert: 11=-2141 (B), 12=-2133 (B), 13=-2133 (B),

14=-2133 (B), 15=-2133 (B), 16=-2133 (B),

17=-2139 (B)



January 9,2024

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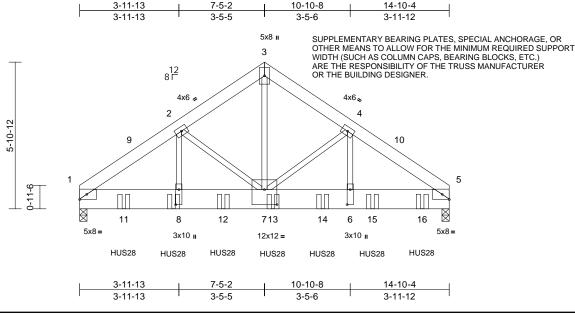
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not



Job	Truss	Truss Type	Qty	Ply	Roof - Osage Lot 44	
P240008-01	G2A	Common Girder	1	3	Job Reference (optional)	162908273

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Mon Jan 08 10:56:51 ID:kkw6VMCTKypljEPYbt576Oz_rGt-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:46.3

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	I /d	PLATES	GRIP
•		-1 3						, ,			-	
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.25	Vert(LL)	-0.05	7-8	>999	240	MT20	185/144
TCDL	10.0	Lumber DOL	1.15	BC	0.60	Vert(CT)	-0.09	7-8	>999	180		
BCLL	0.0	Rep Stress Incr	NO	WB	0.89	Horz(CT)	0.03	5	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-SH							Weight: 279 lb	FT = 20%

LUMBER

TOP CHORD 2x6 SPF No.2 BOT CHORD 2x10 HF No.2 WEBS 2x3 SPF No.2

BRACING

TOP CHORD Sheathed or 6-0-0 oc purlins.

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

bracing.

REACTIONS (size) 1=0-3-8, (req. 0-4-4), 5=0-3-8, (req. 0-4-11)

Max Horiz 1=-142 (LC 10)

Max Uplift 1=-1020 (LC 12), 5=-1122 (LC 13)

Max Grav 1=7791 (LC 1), 5=8564 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

1-2=-10106/1373, 2-3=-7483/1081, 3-4=-7485/1081, 4-5=-10143/1375

BOT CHORD 1-8=-1066/7957, 7-8=-1069/7983,

6-7=-1030/8023, 5-6=-1027/7996

WEBS 2-8=-400/3344, 2-7=-2301/403,

3-7=-1067/7769, 4-7=-2350/410,

4-6=-404/3379

NOTES

TOP CHORD

 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.

Bottom chords connected as follows: 2x10 - 4 rows

staggered at 0-4-0 oc.

Web connected as follows: 2x3 - 1 row at 0-9-0 oc,

Except member 2-8 2x3 - 1 row at 0-4-0 oc.

- 2) 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 this design.

- 4) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=0.96; 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; 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.
- WARNING: Required bearing size at joint(s) 1, 5 greater than input bearing size.
- All bearings are assumed to be SPF No.2 crushing capacity of 425 psi.
- 8) 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.
- 9) Use Simpson Strong-Tie HUS28 (22-16d Girder, 4-16d Truss, Single Ply Girder) or equivalent spaced at 2-0-0 oc max. starting at 1-9-4 from the left end to 13-9-4 to connect truss(es) to back face of bottom chord.
- 10) Fill all nail holes where hanger is in contact with lumber.

LOAD CASE(S) Standard

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

Plate Increase=1.15 Uniform Loads (lb/ft)

Vert: 1-3=-70, 3-5=-70, 1-5=-20

Concentrated Loads (lb)

Vert: 8=-2133 (B), 11=-2190 (B), 12=-2133 (B),

13=-2133 (B), 14=-2133 (B), 15=-2133 (B),

16=-2191 (B)



January 9,2024

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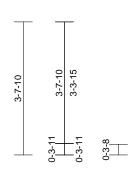


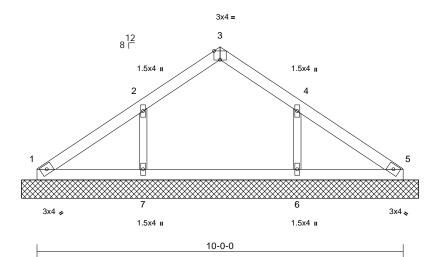
J	ob	Truss	Truss Type	Qty	Ply	Roof - Osage Lot 44	
Р	240008-01	V1	Valley	2	1	Job Reference (optional)	162908274

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Mon Jan 08 10:56:51 ID:kkw6VMCTKypljEPYbt576Oz_rGt-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1







Scale = 1:31.5

Plate Offsets (X, Y): [3:0-2-0,Edge], [4:0-0-0,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	0.11	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	NO	WB	0.04	Horiz(TL)	0.00	5	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-SH							Weight: 35 lb	FT = 20%

LUMBER

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

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=10-10-1, 5=10-10-1, 6=10-10-1, 7=10-10-1

Max Horiz 1=90 (LC 9)

Max Uplift 6=-96 (LC 13), 7=-98 (LC 12) Max Grav 1=152 (LC 1), 5=152 (LC 1), 6=299

(LC 20), 7=301 (LC 19) (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-153/33, 2-3=-149/64, 3-4=-149/64,

4-5=-151/30

BOT CHORD 1-7=-24/111, 6-7=-24/111, 5-6=-24/111

WEBS 2-7=-210/161, 4-6=-209/160

NOTES

FORCES

- 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=0.96; 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.
- 4) Gable requires continuous bottom chord bearing.
- 5) 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.
- All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- 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



January 9,2024

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

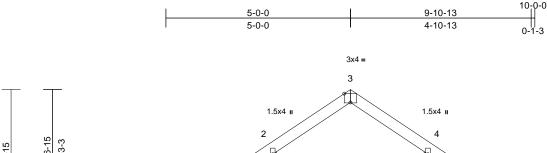
Design valid for use only with MITEK® connectors. This design is based only upon parameters shown, and is for an individual building component, not

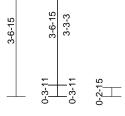


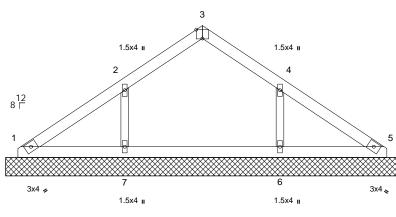
Job	Truss	Truss Type	Qty	Ply	Roof - Osage Lot 44	
P240008-01	V2	Valley	2	1	Job Reference (optional)	162908275

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Mon Jan 08 10:56:51 ID:7VegtlUg48?DqlhT5TOJ?Mz8aV1-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1







10-0-0

Scale = 1:31.2

Plate Offsets (X, Y): [3:0-2-0,Edge], [4:0-0-0,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	0.11	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	NO	WB	0.04	Horiz(TL)	0.00	5	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-SH							Weight: 35 lb	FT = 20%

LUMBER

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

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=10-8-0, 5=10-8-0, 6=10-8-0,

7=10-8-0

Max Horiz 1=-91 (LC 8)

Max Uplift 6=-100 (LC 13), 7=-101 (LC 12) Max Grav 1=150 (LC 1), 5=150 (LC 1), 6=301

(LC 20), 7=303 (LC 19)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-151/33, 2-3=-149/67, 3-4=-149/67,

4-5=-150/30

BOT CHORD 1-7=-24/111, 6-7=-24/111, 5-6=-24/111

WEBS 2-7=-213/165. 4-6=-211/165

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) zone; cantilever left and right exposed; cnd 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.
- 5) 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.
- 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



January 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

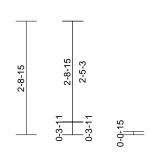


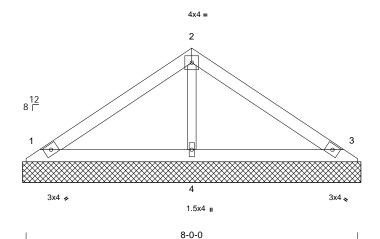
Job	Truss	Truss Type	Qty	Ply	Roof - Osage Lot 44	
P240008-01	V3	Valley	2	1	Job Reference (optional)	162908276

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Mon Jan 08 10:56:52 ID:ty0?Hnm2CiRkdX6xatJFZiz8aVz-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1







Scale = 1:27.8

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	0.34	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.15	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.04	Horiz(TL)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 27 lb	FT = 20%

LUMBER

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

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=8-2-0, 3=8-2-0, 4=8-2-0

Max Horiz 1=68 (LC 11)

Max Uplift 1=-46 (LC 12), 3=-55 (LC 13) Max Grav 1=184 (LC 1), 3=184 (LC 1), 4=286

(LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-116/68, 2-3=-110/68 BOT CHORD 1-4=-14/54, 3-4=-14/54

WEBS 2-4=-195/101

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) 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.
- 4) 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.
- 8) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- 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



January 9,2024

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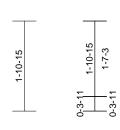


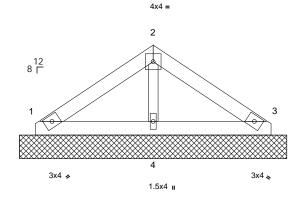
Job	Truss	Truss Type	Qty	Ply	Roof - Osage Lot 44	
P240008-01	V4	Valley	2	1	Job Reference (optional)	162908277

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Mon Jan 08 10:56:52 ID:Lt2xwJZ?zoQ?i4tteW0UwKz8aWD-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1







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	0.13	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.06	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.02	Horiz(TL)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 17 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or

5-8-12 oc purlins.

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

bracing.

REACTIONS (size) 1=5-8-0, 3=5-8-0, 4=5-8-0

Max Horiz 1=44 (LC 9)

Max Uplift 1=-30 (LC 12), 3=-36 (LC 13)

Max Grav 1=120 (LC 1), 3=120 (LC 1), 4=184

(LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-76/53, 2-3=-72/53 BOT CHORD 1-4=-9/36, 3-4=-9/36

WEBS 2-4=-126/82

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) 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.
- 4) Gable requires continuous bottom chord bearing.
- 5) Gable studs spaced at 2-0-0 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.
- 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



January 9,2024

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

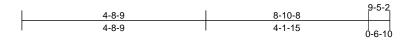
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not

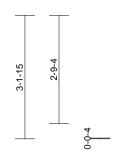


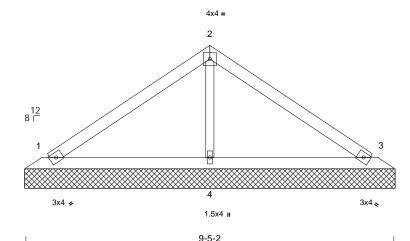
Job	Truss	Truss Type	Qty	Ply	Roof - Osage Lot 44	
P240008-01	V5	Valley	1	1	Job Reference (optional)	162908278

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Mon Jan 08 10:56:52 ID:kkw6VMCTKypljEPYbt576Oz_rGt-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1







Scale = 1:29.5

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	0.28	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.20	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	NO	WB	0.05	Horiz(TL)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-SH							Weight: 31 lb	FT = 20%

LUMBER

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

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=9-5-14, 3=9-5-14, 4=9-5-14

Max Horiz 1=-77 (LC 8)

Max Uplift 1=-35 (LC 12), 3=-44 (LC 13),

4=-25 (LC 12)

Max Grav 1=187 (LC 1), 3=187 (LC 1), 4=363

(LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-145/72, 2-3=-145/72

BOT CHORD 1-4=-15/64, 3-4=-15/64

WEBS 2-4=-217/88

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=0.96; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) zone; cantilever left and right exposed; cnd 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.
- 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) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- 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



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

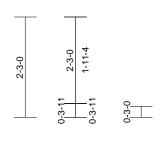


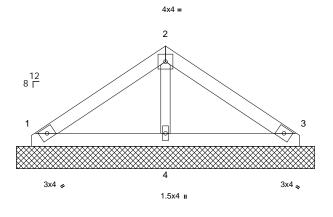
Job	Truss	Truss Type	Qty	Ply	Roof - Osage Lot 44	
P240008-01	V6	Valley	1	1	Job Reference (optional)	162908279

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6-0-0

Scale = 1:25.8

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	0.20	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.09	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.03	Horiz(TL)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 21 lb	FT = 20%

LUMBER

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

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=6-8-3, 3=6-8-3, 4=6-8-3

Max Horiz 1=-54 (LC 8)

Max Uplift 1=-36 (LC 12), 3=-43 (LC 13) Max Grav 1=145 (LC 1), 3=145 (LC 1), 4=224

(LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-92/62, 2-3=-87/62

BOT CHORD 1-4=-11/43, 3-4=-11/43

WEBS 2-4=-152/94

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) 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.
- 4) Gable requires continuous bottom chord bearing.
- 5) 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.
- 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



Page: 1

January 9,2024

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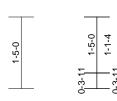
Job	Truss	Truss Type	Qty	Ply	Roof - Osage Lot 44	
P240008-01	V7	Valley	1	1	Job Reference (optional)	162908280

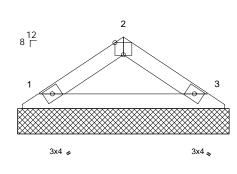
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3x4 =







4-0-0

Scale = 1:22.8

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	0.07	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.14	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.00	Horiz(TL)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 12 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 4-2-15 oc purlins.

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

bracing.

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

Max Horiz 1=-31 (LC 8)

Max Uplift 1=-21 (LC 12), 3=-21 (LC 13) Max Grav 1=148 (LC 1), 3=148 (LC 1)

FORCES (Ib) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-129/89, 2-3=-129/89

BOT CHORD 1-3=-33/86

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) zone; cantilever left and right exposed; cnd 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.
- 5) Gable studs spaced at 2-0-0 oc.
- 6) 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.
- 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



Page: 1

January 9,2024

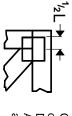
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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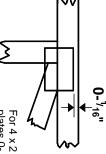


Symbols

PLATE LOCATION AND ORIENTATION



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



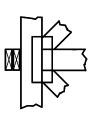
to slots. Second dimension is the length parallel to slots. width measured perpendicular The first dimension is the plate

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



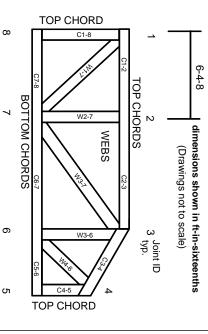
Min size shown is for crushing only reaction section indicates joint number/letter where bearings occur (supports) occur. Icons vary but Indicates location where bearings

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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Mile

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

Damage or Personal Injury Failure to Follow Could Cause Property General Safety Notice Could Cause Property SE FOR CONSTRUCT JULY OF PLANS BEV VELOPMENT SERVICE SUMMIT, MISSOL 20024 2:34

- 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.

Ņ

Never exceed the design loading shown and never stack materials on inadequately braced trusses.

ω

- 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

- 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.

œ

Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.

9

- 10. Camber is a non-structural consideration and is the camber for dead load deflection responsibility of truss fabricator. General practice is to
- 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.
- 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.

LEE'S SUMMIT, MISSOURI 02/08/2024