

RE: P240445-01 - Roof - Osage Lot 60

Site Information:

Project Customer: Clayton Properties Project Name: Wildflower - Farmhouse

Lot/Block: 60 Subdivision: Osage

Model:

Address: 3804 SW Ravengate 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

Roof Load: 45.0 psf

Mean Roof Height (feet): 35

Design Program: MiTek 20/20 8.6

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

MiTek, Inc.

314.434.1200

16023 Swingley Ridge Rd.

Chesterfield, MO 63017

Floor Load: N/A psf

Exposure Category: C

No.	Seal#	Truss Name	Date
1 2 3 4 5 6 7	165302604 165302605 165302606 165302607 165302609 165302610	B01 C01 C02 C03 C04 C05 C06	5/3/24 5/3/24 5/3/24 5/3/24 5/3/24 5/3/24 5/3/24
8 9 10 11	l65302611 l65302612 l65302613 l65302614	C07 C08 PB1 PB2	5/3/24 5/3/24 5/3/24 5/3/24

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

Truss Design Engineer's Name: Sevier, Scott

My license renewal date for the state of Missouri is December 31, 2025.

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



May 3,2024

Job	Truss	Truss Type	Qty	Ply	Roof - Osage Lot 60	
P240445-01	B01	Common Supported Gable	1	1	Job Reference (optional)	165302604

Run: 8.63 S Apr 26 2024 Print: 8.630 S Apr 26 2024 MiTek Industries. Inc. Wed May 01 14:49:44 ID:bzCw6On6o49uPtGdBr3k7RzkXGI-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

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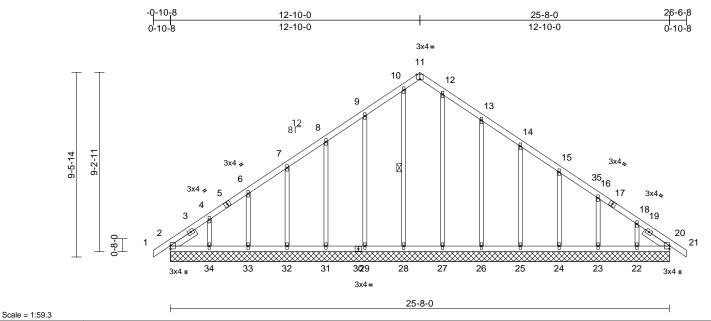


Plate Offsets (X, Y): [11:0-2-0,Edge]

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	0.11	Vert(LL)	n/a	-	n/a		MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.05	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.20	Horz(CT)	0.01	20	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 138 lb	FT = 20%

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

SLIDER Left 2x4 SP No.2 -- 1-6-4, Right 2x4 SP No.2

-- 1-6-5 **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.

WEBS 1 Row at midpt 10-28

REACTIONS (size) 2=25-8-0, 20=25-8-0, 22=25-8-0,

23=25-8-0, 24=25-8-0, 25=25-8-0, 26=25-8-0, 27=25-8-0, 28=25-8-0, 29=25-8-0, 31=25-8-0, 32=25-8-0,

33=25-8-0. 34=25-8-0

Max Horiz 2=255 (LC 11)

Max Uplift 2=-55 (LC 8), 20=-16 (LC 9),

22=-125 (LC 13), 23=-76 (LC 13), 24=-79 (LC 13), 25=-75 (LC 13), 26=-101 (LC 13), 29=-98 (LC 12),

31=-75 (LC 12), 32=-80 (LC 12), 33=-70 (LC 12), 34=-137 (LC 12)

Max Grav 2=215 (LC 21), 20=189 (LC 22),

22=183 (LC 20), 23=192 (LC 20),

24=188 (LC 20), 25=188 (LC 20), 26=197 (LC 20), 27=163 (LC 1),

28=175 (LC 22), 29=192 (LC 19),

31=189 (LC 19), 32=190 (LC 19),

33=186 (LC 19), 34=213 (LC 19)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/16, 2-4=-316/190, 4-6=-211/148, 6-7=-148/125, 7-8=-131/99, 8-9=-116/109,

9-10=-108/160, 10-11=-92/129, 11-12=-101/144, 12-13=-100/143,

13-14=-71/65, 14-15=-86/39, 15-16=-117/64, 16-18=-182/90, 18-20=-280/134, 20-21=0/16

2-34=-113/248, 33-34=-113/248,

BOT CHORD 32-33=-113/248, 31-32=-113/248,

29-31=-113/248, 28-29=-113/248,

27-28=-113/248. 26-27=-113/248. 25-26=-113/248, 24-25=-113/248,

23-24=-113/248, 22-23=-113/248,

20-22=-113/248

WFBS 4-34=-167/156, 6-33=-148/98, 7-32=-149/104, 8-31=-149/99,

9-29=-152/122, 10-28=-135/22

12-27=-123/0, 13-26=-157/125

14-25=-148/99, 15-24=-148/103

16-23=-152/105, 18-22=-144/144

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Corner(3E) -0-10-8 to 4-0-0, Exterior(2N) 4-0-0 to 12-10-0, Corner(3R) 12-10-0 to 18-0-0, Exterior(2N) 18-0-0 to 26-6-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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.
- * 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.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 55 lb uplift at joint 2, 137 lb uplift at joint 34, 70 lb uplift at joint 33, 80 lb uplift at joint 32, 75 lb uplift at joint 31, 98 lb uplift at joint 29, 101 lb uplift at joint 26, 75 lb uplift at joint 25, 79 lb uplift at joint 24, 76 lb uplift at joint 23, 125 lb uplift at joint 22 and 16 lb uplift at joint 20.
- 11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



May 3,2024



M WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not



Job	Truss	Truss Type	Qty	Ply	Roof - Osage Lot 60	
P240445-01	C01	Piggyback Base Structural Gable	1	1	Job Reference (optional)	165302605

Run: 8.63 S Apr 26 2024 Print: 8.630 S Apr 26 2024 MiTek Industries, Inc. Wed May 01 14:49:45 ID:ZPE42GuJG2XQkNP0lKB?1ezkXCH-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

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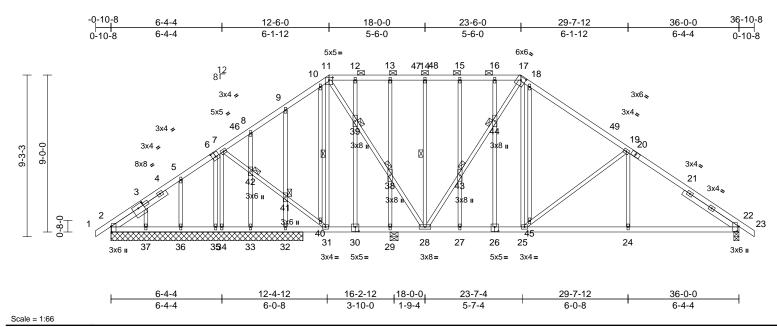


Plate Offsets (X, Y):	[2:0-3-13,Edge]	[2:2-2-8,0-1-8], [3:0	4-0,0-2-8], [6:0-2-8,0-3	3-0], [11:0-2-8,0-1-13]	, [17:0-3-0,0-2-3], [22:0-3-5,0)-1-3], [26:0-2-8,0-3-0], [30:0-2-8,0-3-0]
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Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.43	Vert(LL)	-0.07	26-27	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.45	Vert(CT)	-0.13	26-27	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.80	Horz(CT)	0.03	22	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 241 lb	FT = 20%

LUMBER TOP CHORD 1-2=0/16, 2-3=-193/232, 3-5=-139/206 5-7=-93/186, 7-8=-399/154, 8-9=-419/152, TOP CHORD 2x4 SP No.2 9-10=-459/205, 10-11=-417/223, 2x4 SP No.2 **BOT CHORD** 11-12=-626/250, 12-13=-626/250, 2x3 SPF No.2 WEBS 13-14=-626/250, 14-15=-626/250, OTHERS 2x3 SPF No 2 15-16=-626/250, 16-17=-628/250, **SLIDER** Left 2x4 SP No.2 -- 3-9-4, Right 2x4 SP No.2 17-18=-924/293, 18-19=-1106/264, 19-22=-1564/249, 22-23=0/16 BRACING **BOT CHORD** 2-37=-135/153, 36-37=-135/155, TOP CHORD Structural wood sheathing directly applied or 35-36=-135/155, 34-35=-136/155,

4-9-4 oc purlins, except 33-34=-136/155. 32-33=-136/155. 2-0-0 oc purlins (6-0-0 max.): 11-17. 31-32=-136/155, 29-31=-79/369, Rigid ceiling directly applied or 6-0-0 oc 28-29=-79/369, 27-28=0/817, 25-27=0/817, 24-25=-90/1194, 22-24=-90/1194

bracing. WFBS 1 Row at midpt 11-31, 14-28 WFBS 7-34=-438/26, 7-42=-12/500, 41-42=-12/486, **JOINTS** 1 Brace at Jt(s): 38, 40-41=-12/514, 31-40=-15/469, 39, 41, 42, 43, 44

11-31=-288/28, 11-39=-109/592 2=11-0-0, 22=0-3-8, 29=0-5-8, 38-39=-102/553, 28-38=-104/574, 32=11-0-0, 33=11-0-0, 34=11-0-0 14-28=-166/92, 28-43=-381/98, 35=11-0-0, 36=11-0-0, 37=11-0-0 43-44=-371/97, 17-44=-391/103 Max Horiz 2=249 (LC 11) 17-25=-133/502, 25-45=-577/292, Max Uplift 2=-77 (LC 8), 22=-198 (LC 13), 19-45=-515/243, 19-24=0/263, 29=-59 (LC 8), 32=-95 (LC 12), 13-38=-266/78, 29-38=-291/80 33=-62 (LC 12), 34=-18 (LC 9),

12-39=-86/46, 30-39=-40/38, 10-40=-67/24, 35=-15 (LC 12), 36=-88 (LC 12), 9-41=-212/119, 32-41=-259/122, 37=-96 (LC 12) 8-42=-143/85, 33-42=-125/84, 6-35=-259/35, 2=138 (LC 20), 22=1174 (LC 1),

5-36=-148/112, 3-37=-164/121, 29=487 (LC 1), 32=392 (LC 1), 15-43=-76/52, 27-43=-59/50, 16-44=-37/70, 33=124 (LC 19), 34=485 (LC 1), 26-44=-30/52, 18-45=-96/75 35=267 (LC 1), 36=189 (LC 19), NOTES

37=206 (LC 19)

Unbalanced roof live loads have been considered for (lb) - Maximum Compression/Maximum this design. Tension

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-10-8 to 4-0-0, Interior (1) 4-0-0 to 12-6-0, Exterior(2R) 12-6-0 to 17-6-0, Interior (1) 17-6-0 to 23-6-0, Exterior(2R) 23-6-0 to 28-6-0, Interior (1) 28-6-0 to 36-10-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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.
- Provide adequate drainage to prevent water ponding.
- All plates are 1.5x4 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.



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FORCES

BOT CHORD

REACTIONS (size)

Max Grav

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



Job	Truss	Truss Type	Qty	Ply	Roof - Osage Lot 60	
P240445-01	C01	Piggyback Base Structural Gable	1	1	Job Reference (optional)	165302605

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- * 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.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 77 lb uplift at joint 2, 18 lb uplift at joint 34, 198 lb uplift at joint 22, 59 lb uplift at joint 29, 95 lb uplift at joint 32, 62 lb uplift at joint 33, 15 lb uplift at joint 35, 88 lb uplift at joint 36 and 96 lb uplift at joint 37.
- 11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 12) 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



Job	Truss	Truss Type	Qty	Ply	Roof - Osage Lot 60	
P240445-01	C02	Piggyback Base	2	1	Job Reference (optional)	165302606

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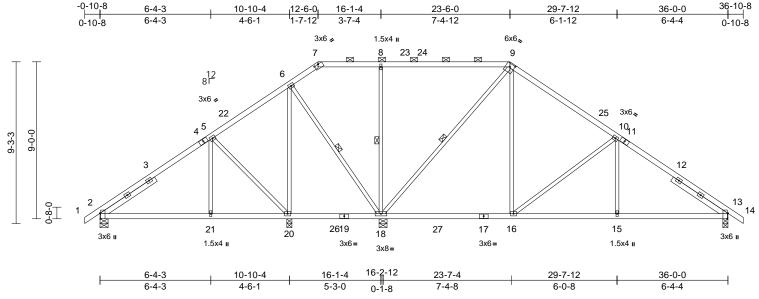


Plate Offsets (X, Y): [2:0-3-13,Edge], [7:0-3-0,0-0-2], [9:0-3-0,0-2-3], [13:0-3-13,Edge]

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	0.80	Vert(LL)	-0.11	16-18	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.56	Vert(CT)	-0.18	16-18	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.99	Horz(CT)	0.03	13	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 183 lb	FT = 20%

LUMBER

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

SLIDER Left 2x4 SP No.2 -- 3-9-3, Right 2x4 SP No.2

-- 3-9-4

BRACING

TOP CHORD Structural wood sheathing directly applied or

5-4-10 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 7-9.

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

bracing, Except:

6-0-0 oc bracing: 18-20.

WFBS 1 Row at midpt 8-18, 6-18, 9-18 REACTIONS (size) 2=0-5-8, 13=0-3-8, 18=0-5-8,

20=0-3-8

Max Horiz 2=-250 (LC 10)

Max Uplift 2=-91 (LC 12), 13=-145 (LC 13),

18=-213 (LC 8), 20=-67 (LC 12)

Max Grav 2=602 (LC 19), 13=1018 (LC 20),

18=1381 (LC 2), 20=712 (LC 19) **FORCES** (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/16, 2-5=-577/82, 5-6=-185/120,

6-7=-92/97, 7-8=-42/95, 8-9=-42/95, 9-10=-721/158, 10-13=-1234/161,

13-14=0/16

BOT CHORD 2-21=-143/525, 20-21=-143/525,

18-20=-145/245, 16-18=0/558, 15-16=-15/919, 13-15=-15/919

WEBS 9-16=-72/662, 10-16=-617/260, 10-15=0/253,

5-20=-567/225, 5-21=0/247, 6-20=-169/5,

8-18=-516/232, 6-18=-129/150,

9-18=-830/170

NOTES

Unbalanced roof live loads have been considered for this design.

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-10-8 to 4-1-8, Interior (1) 4-1-8 to 12-6-0, Exterior(2R) 12-6-0 to 17-6-0, Interior (1) 17-6-0 to 23-6-0, Exterior(2R) 23-6-0 to 28-6-0, Interior (1) 28-6-0 to 36-10-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- All plates are 3x4 MT20 unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 91 lb uplift at joint 2, 145 lb uplift at joint 13, 67 lb uplift at joint 20 and 213 lb uplift at joint 18.
- 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



May 3,2024



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



Jo	ob	Truss	Truss Type	Qty	Ply	Roof - Osage Lot 60	
Р	240445-01	C03	Piggyback Base	8	1	Job Reference (optional)	165302607

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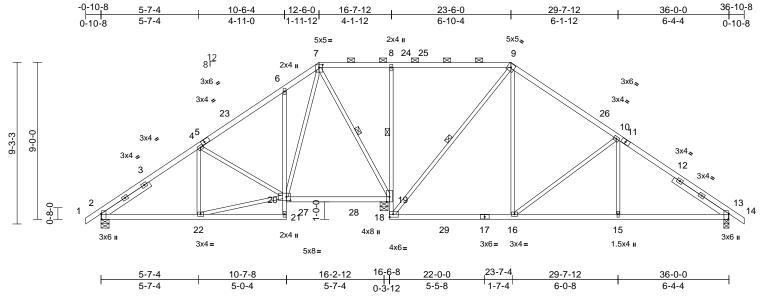


Plate Offsets (X, Y): [2:0-3-13,Edge], [5:0-2-5,0-1-8], [7:0-2-8,0-1-13], [13:0-3-13,Edge], [20:0-2-12,0-2-8]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.69	Vert(LL)	-0.12	16-18	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.66	Vert(CT)	-0.20	16-18	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.93	Horz(CT)	0.02	19	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 191 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2

2x4 SP No.2 *Except* 21-6,8-18:2x3 SPF **BOT CHORD**

No.2

WFBS 2x3 SPF No 2

SLIDER Left 2x4 SP No.2 -- 3-3-13, Right 2x4 SP

No.2 -- 3-9-4

BRACING TOP CHORD

Structural wood sheathing directly applied or

5-4-5 oc purlins, except 2-0-0 oc purlins (10-0-0 max.): 7-9

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

bracing, Except: 6-0-0 oc bracing: 21-22.

1 Row at midpt 8-19

WEBS 1 Row at midpt 7-19, 9-18

REACTIONS 2=0-5-8, 13=0-3-8, 19=0-5-8 (size)

Max Horiz 2=-249 (LC 10)

Max Uplift 2=-178 (LC 12), 13=-262 (LC 13),

19=-158 (LC 9)

Max Grav 2=807 (LC 19), 13=1024 (LC 20),

19=1832 (LC 2)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/16, 2-4=-953/255, 4-6=-618/289, 6-7=-566/390, 7-8=-148/348, 8-9=-151/350,

9-10=-732/357, 10-13=-1242/358,

13-14=0/16

BOT CHORD 2-22=-231/852, 21-22=-40/9, 20-21=0/80

6-20=-281/187, 19-20=-53/295, 18-19=0/765, 8-19=-478/221, 16-18=0/456,

15-16=-169/926, 13-15=-169/926 **WEBS** 4-22=-12/145, 20-22=-215/886,

4-20=-397/167, 7-19=-736/104, 9-18=-822/32, 9-16=-68/672,

10-16=-615/249, 10-15=0/250,

7-20=-264/891

- Unbalanced roof live loads have been considered for
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-10-8 to 4-1-8, Interior (1) 4-1-8 to 12-6-0, Exterior(2R) 12-6-0 to 17-6-0, Interior (1) 17-6-0 to 23-6-0, Exterior(2R) 23-6-0 to 28-6-0, Interior (1) 28-6-0 to 36-10-8 zone; cantilever left and right exposed; end vertical left and right exposed: C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- All plates are 3x4 MT20 unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 178 lb uplift at joint 2, 158 lb uplift at joint 19 and 262 lb uplift at joint 13.
- 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

LOAD CASE(S) Standard



May 3,2024

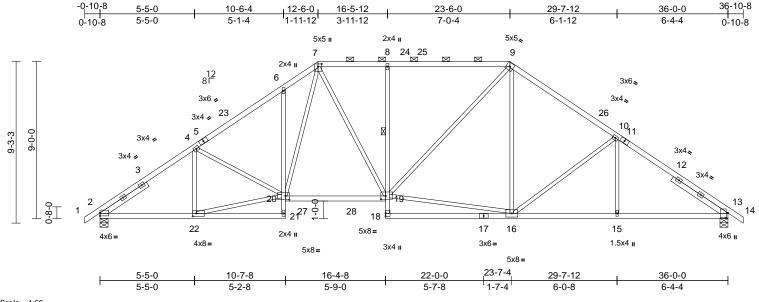




Job	Truss	Truss Type	Qty	Ply	Roof - Osage Lot 60	
P240445-01	C04	Piggyback Base	4	1	Job Reference (optional)	165302608

Run: 8.63 S Apr 26 2024 Print: 8.630 S Apr 26 2024 MiTek Industries. Inc. Wed May 01 14:49:46 ID:IK_W3TeCg5LdAv8wNLIYYizkXBJ-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:66

Plate Offsets (X, Y):	[2:Edge,0-2-1]	, [7:0-1-13,0-2-8], [13:0-3-5,0-1-3], [19	9:0-3-4,0-2-4], [20:0-2	-12,0-2-8], [22:0-2-8,0-2-0]
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Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.99	Vert(LL)	-0.21	19-20	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.84	Vert(CT)	-0.36	19-20	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.78	Horz(CT)	0.14	13	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 196 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2

BOT CHORD 2x4 SP No.2 *Except* 21-6,8-18:2x3 SPF

No.2

WFBS 2x3 SPF No 2

SLIDER Left 2x4 SP No.2 -- 3-2-8, Right 2x4 SP No.2

-- 3-9-4

BRACING

TOP CHORD Structural wood sheathing directly applied or

2-2-0 oc purlins, except

2-0-0 oc purlins (2-2-0 max.): 7-9 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc

bracing, Except: 6-0-0 oc bracing: 21-22.

1 Row at midpt 8-19

REACTIONS (size) 2=0-5-8, 13=0-5-8

Max Horiz 2=249 (LC 11)

Max Uplift 2=-212 (LC 12), 13=-212 (LC 13)

Max Grav 2=1742 (LC 2), 13=1731 (LC 2)

FORCES (lb) - Maximum Compression/Maximum

Tension TOP CHORD

1-2=0/16, 2-4=-2554/356, 4-6=-2490/412,

6-7=-2479/530, 7-8=-1998/416,

8-9=-1996/418, 9-10=-2044/389,

10-13=-2492/364, 13-14=0/16 **BOT CHORD** 2-22=-281/2061, 21-22=-18/54, 20-21=0/92,

6-20=-333/202, 19-20=-190/1791,

18-19=0/130, 8-19=-462/222, 16-18=0/63, 15-16=-197/1963, 13-15=-197/1963

4-22=-265/120, 20-22=-268/2067,

4-20=-124/154, 7-19=-197/558, 16-19=-66/1572, 9-19=-212/642,

9-16=-80/399, 10-16=-558/255, 10-15=0/242,

7-20=-277/1014

NOTES

WEBS

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

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-10-8 to 4-1-8, Interior (1) 4-1-8 to 12-6-0, Exterior(2R) 12-6-0 to 17-6-0, Interior (1) 17-6-0 to 23-6-0, Exterior(2R) 23-6-0 to 28-6-0, Interior (1) 28-6-0 to 36-10-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 212 lb uplift at joint 2 and 212 lb uplift at joint 13.
- 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



May 3,2024



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	Trus	JSS	Truss Type	Qty	Ply	Roof - Osage Lot 60	
P240445-01	COS	05	Piggyback Base	1	1	Job Reference (optional)	165302609

Run: 8.63 S Apr 26 2024 Print: 8.630 S Apr 26 2024 MiTek Industries. Inc. Wed May 01 14:49:46 ID:Do4JrdsVQdc4LgXOR7cmHVzkXB1-RfC?PsB70Hg3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1

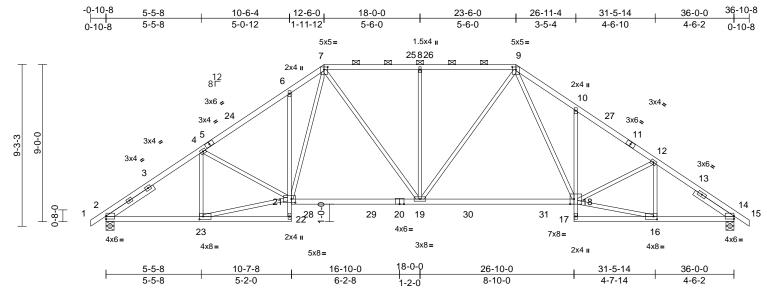


Plate Offsets (X, Y): [2:Edge,0-2-1], [7:0-2-8,0-1-13], [9:0-2-8,0-1-13], [14:Edge,0-2-1], [16:0-2-8,0-2-0], [18:0-2-12,Edge], [21:0-2-12,0-2-8], [23:0-2-8,0-2-0]

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	0.69	Vert(LL)	-0.34	18-19	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.81	Vert(CT)	-0.59	18-19	>734	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.73	Horz(CT)	0.16	14	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 193 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2

2x4 SP No.2 *Except* 22-6,10-17:2x3 SPF BOT CHORD

No.2. 20-18:2x4 SP 1650F 1.5E

WFBS 2x3 SPF No 2

SLIDER Left 2x4 SP No.2 -- 3-2-12, Right 2x4 SP

No.2 -- 2-7-15

BRACING

TOP CHORD Structural wood sheathing directly applied or

> 2-6-11 oc purlins, except 2-0-0 oc purlins (3-8-1 max.): 7-9.

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

bracing, Except:

6-0-0 oc bracing: 16-17.

REACTIONS (size) 2=0-5-8, 14=0-5-8 Max Horiz 2=249 (LC 11)

Max Uplift 2=-212 (LC 12), 14=-212 (LC 13)

Max Grav 2=1773 (LC 2), 14=1777 (LC 2)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/16, 2-4=-2604/356, 4-6=-2548/412,

6-7=-2523/524, 7-8=-2110/407, 8-9=-2110/407, 9-10=-2745/538

10-12=-2719/410, 12-14=-2618/351, 14-15=0/16

BOT CHORD 2-23=-280/2100, 22-23=-16/57, 21-22=0/91,

6-21=-315/194, 19-21=-194/1847, 18-19=-78/1838, 17-18=0/85,

10-18=-347/214, 16-17=-71/31, 14-16=-206/2043

> 4-23=-267/121, 21-23=-269/2103, 4-21=-124/154, 7-19=-166/552, 8-19=-432/203, 9-19=-163/569,

12-16=-342/102, 16-18=-176/2118, 12-18=-100/271, 7-21=-272/996,

9-18=-255/1079

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=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-10-8 to 4-1-8, Interior (1) 4-1-8 to 12-6-0, Exterior(2R) 12-6-0 to 17-6-0, Interior (1) 17-6-0 to 23-6-0, Exterior(2R) 23-6-0 to 28-6-0, Interior (1) 28-6-0 to 36-10-8 zone; cantilever left and right exposed; end vertical left and right exposed: C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 212 lb uplift at joint 2 and 212 lb uplift at joint 14.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 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



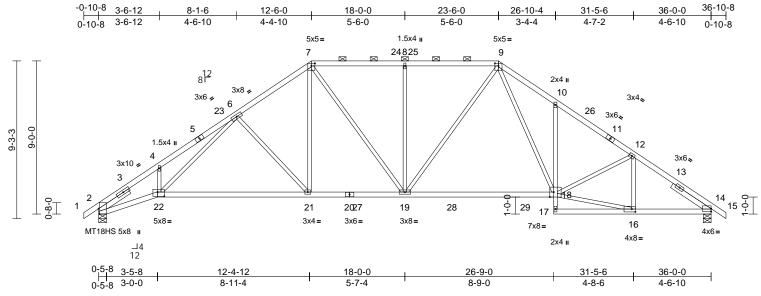
May 3,2024





ſ	Job	Truss	Truss Type	Qty	Ply	Roof - Osage Lot 60	
L	P240445-01	C06	Piggyback Base	6	1	Job Reference (optional)	l65302610

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Scale = 1:67.7

Plate Offsets (X, Y): [2:0-3-13,Edge], [7:0-2-8,0-1-13], [9:0-2-8,0-1-13], [14:Edge,0-2-1], [16:0-2-8,0-2-0], [18:0-2-12,Edge], [22:0-4-12,0-3-0]

							-				_	
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	0.88	Vert(LL)	-0.38	18-19	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.98	Vert(CT)	-0.67	18-19	>639	180	MT18HS	244/190
BCLL	0.0*	Rep Stress Incr	YES	WB	0.73	Horz(CT)	0.24	14	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 186 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2 *Except* 1-5,11-15:2x4 SP

2400F 2.0E

2x4 SP No.2 *Except* 22-20,20-18:2x4 SP **BOT CHORD**

1650F 1.5E, 10-17:2x3 SPF No.2

WEBS 2x3 SPF No.2

SLIDER Left 2x4 SP No.2 -- 2-2-0, Right 2x4 SP No.2

-- 2-8-4

BRACING TOP CHORD

TOP CHORD

Structural wood sheathing directly applied or

2-2-0 oc purlins, except 2-0-0 oc purlins (3-8-4 max.): 7-9.

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

bracing, Except:

2-2-0 oc bracing: 2-22 6-0-0 oc bracing: 16-17.

REACTIONS 2=0-5-8, 14=0-5-8 (size)

Max Horiz 2=-250 (LC 10)

Max Uplift 2=-212 (LC 12), 14=-211 (LC 13)

Max Grav 2=1766 (LC 2), 14=1768 (LC 2)

FORCES (lb) - Maximum Compression/Maximum

Tension

1-2=0/9. 2-4=-4023/489. 4-6=-3658/612.

6-7=-2340/411, 7-8=-2078/409, 8-9=-2078/408, 9-10=-2718/533 10-12=-2696/408, 12-14=-2609/351,

14-15=0/16

BOT CHORD 2-22=-495/3382, 21-22=-274/2279,

19-21=-184/1863, 18-19=-77/1822,

17-18=0/84, 10-18=-342/210, 16-17=-90/21,

14-16=-206/2036

WEBS 4-22=0/427, 7-21=-124/798, 7-19=-197/474,

8-19=-435/204, 9-19=-168/543, 6-21=-674/288, 6-22=-310/1286 12-16=-334/102, 16-18=-173/2128, 12-18=-102/260, 9-18=-249/1086

LOAD CASE(S) Standard

- Unbalanced roof live loads have been considered for this design
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-10-8 to 4-1-8, Interior (1) 4-1-8 to 12-6-0, Exterior(2R) 12-6-0 to 17-6-0, Interior (1) 17-6-0 to 23-6-0, Exterior(2R) 23-6-0 to 28-6-0, Interior (1) 28-6-0 to 36-10-8 zone; cantilever left and right exposed; end vertical left and right exposed: C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 212 lb uplift at joint 2 and 211 lb uplift at joint 14.
- 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

May 3,2024

OF MISS

SCOTT M.

SEVIER

NUMBER

PE-2001018807

NOTES





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Page: 1

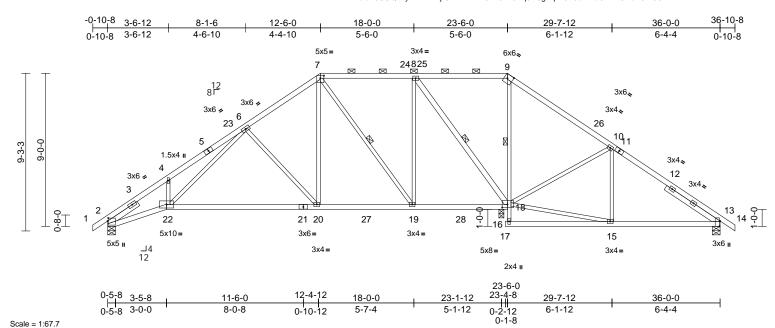


Plate Offsets (X, Y): [2:0-2-1,0-0-6], [7:0-2-8,0-1-13], [9:0-3-12,0-2-11], [13:0-3-13,Edge], [18:0-3-12,0-2-4]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.82	Vert(LL)	-0.22	20-22	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.81	Vert(CT)	-0.46	20-22	>618	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.86	Horz(CT)	0.08	18	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 193 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2

BOT CHORD 2x4 SP No.2 *Except* 16-9:2x3 SPF No.2 2x3 SPF No.2 *Except* 18-8:2x4 SP No.2 WEBS **SLIDER** Left 2x4 SP No.2 -- 2-2-0, Right 2x4 SP No.2 -- 3-9-4

BRACING

TOP CHORD Structural wood sheathing directly applied or

2-2-0 oc purlins, except

2-0-0 oc purlins (6-0-0 max.): 7-9. **BOT CHORD** Rigid ceiling directly applied or 6-0-0 oc

bracing. Except:

1 Row at midpt 9-18

10-0-0 oc bracing: 16-18

WFBS 1 Row at midpt 7-19, 8-18

REACTIONS (size) 2=0-5-8, 13=0-5-8, 18=0-3-8

> Max Horiz 2=-250 (LC 10) Max Uplift

2=-152 (LC 12), 13=-181 (LC 13),

18=-170 (LC 12)

Max Grav 2=970 (LC 19), 13=386 (LC 26),

18=2326 (LC 2)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/9, 2-4=-2124/343, 4-6=-1977/479,

6-7=-785/231, 7-8=-221/199, 8-9=-61/686

9-10=-95/900, 10-13=-245/389, 13-14=0/16 **BOT CHORD** 2-22=-377/1873, 20-22=-221/1007,

19-20=-134/654, 18-19=-108/287,

16-18=0/110, 9-18=-736/111, 16-17=0/0, 15-16=-22/12, 13-15=-281/176

4-22=-33/177, 7-20=-110/766,

7-19=-763/134, 8-19=-48/838,

8-18=-1370/236, 15-18=-265/171,

10-18=-730/252, 10-15=0/298,

6-20=-586/282, 6-22=-295/1077

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=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-10-8 to 4-1-8, Interior (1) 4-1-8 to 12-6-0, Exterior(2R) 12-6-0 to 17-6-0, Interior (1) 17-6-0 to 23-6-0, Exterior(2R) 23-6-0 to 28-6-0, Interior (1) 28-6-0 to 36-10-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 152 lb uplift at joint 2, 181 lb uplift at joint 13 and 170 lb uplift at joint . 18.
- 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



May 3,2024



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

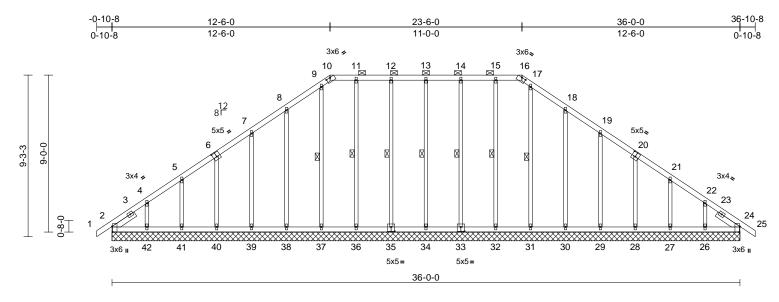
Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not



Job	Truss	Truss Type	Qty	Ply	Roof - Osage Lot 60	
P240445-01	C08	Piggyback Base Supported Gable	1	1	Job Reference (optional)	165302612

Run: 8.63 S Apr 26 2024 Print: 8.630 S Apr 26 2024 MiTek Industries, Inc. Wed May 01 14:49:47 ID:ewrAceOsPybP0GqmZjh3U?zkXV?-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

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Scale = 1:66

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/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	YES	WB	0.19	Horz(CT)	0.01	24	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 204 lb	FT = 20%

LUMBER

OTHERS

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

SLIDER Left 2x4 SP No.2 -- 1-6-4, Right 2x4 SP No.2

-- 1-6-4

BRACING

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins, except

2-0-0 oc purlins (6-0-0 max.): 10-16. **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc

bracing.

WEBS 1 Row at midpt 13-34, 12-35, 11-36,

9-37, 14-33, 15-32, 17-31

REACTIONS (size) 2=36-0-0, 24=36-0-0, 26=36-0-0, 27=36-0-0, 28=36-0-0, 29=36-0-0, 30=36-0-0. 31=36-0-0. 32=36-0-0.

> 33=36-0-0, 34=36-0-0, 35=36-0-0, 36=36-0-0, 37=36-0-0, 38=36-0-0, 39=36-0-0, 40=36-0-0, 41=36-0-0,

42=36-0-0

Max Horiz 2=250 (LC 11)

Max Uplift 2=-83 (LC 8), 24=-15 (LC 9),

26=-119 (LC 13), 27=-69 (LC 13), 28=-79 (LC 13), 29=-79 (LC 13), 30=-94 (LC 13), 32=-35 (LC 9),

33=-44 (LC 8), 34=-39 (LC 9), 35=-45 (LC 8), 36=-36 (LC 9), 37=-18 (LC 9), 38=-91 (LC 12),

39=-79 (LC 12), 40=-79 (LC 12), 41=-68 (LC 12), 42=-131 (LC 12) Max Grav 2=211 (LC 20), 24=174 (LC 1), 26=204 (LC 20), 27=183 (LC 20), 28=188 (LC 20), 29=192 (LC 20),

30=196 (LC 20), 31=167 (LC 26), 32=176 (LC 26), 33=182 (LC 25), 34=180 (LC 1), 35=182 (LC 26), 36=176 (LC 25), 37=175 (LC 22),

38=192 (LC 19), 39=192 (LC 19), 40=189 (LC 19), 41=181 (LC 19),

42=217 (LC 19)

(lb) - Maximum Compression/Maximum Tension

1-2=0/16, 2-4=-272/211, 4-5=-170/166, 5-7=-150/144, 7-8=-119/166, 8-9=-139/212,

9-10=-133/193, 10-11=-126/204, 11-12=-126/204, 12-13=-126/204, 13-14=-126/204, 14-15=-126/204,

15-16=-126/204, 16-17=-133/193,

17-18=-139/207, 18-19=-96/134,

19-21=-78/67, 21-22=-114/70, 22-24=-201/106, 24-25=0/16

2-42=-91/196, 41-42=-91/196,

40-41=-91/196, 39-40=-91/197 38-39=-91/197, 37-38=-91/197,

36-37=-91/197, 34-36=-91/197, 32-34=-91/197, 31-32=-91/197 30-31=-91/197, 29-30=-91/197 28-29=-91/197, 27-28=-89/195,

26-27=-89/195, 24-26=-89/195 13-34=-140/63, 12-35=-142/69,

11-36=-136/60, 9-37=-135/42, 8-38=-152/115, 7-39=-152/103, 6-40=-148/103, 5-41=-143/93, 4-42=-170/150, 14-33=-142/68,

15-32=-136/59, 17-31=-127/0, 18-30=-156/118, 19-29=-152/103, 20-28=-148/103, 21-27=-144/94,

22-26=-158/139

NOTES

WEBS

FORCES

TOP CHORD

BOT CHORD

- Unbalanced roof live loads have been considered for
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Corner(3E) -0-10-8 to 4-0-0, Exterior(2N) 4-0-0 to 12-6-0, Corner(3R) 12-6-0 to 17-6-0, Exterior(2N) 17-6-0 to 23-6-0, Corner(3R) 23-6-0 to 28-6-0, Exterior(2N) 28-6-0 to 36-10-8 zone; cantilever left and right exposed; end vertical left and right exposed: C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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.
- Provide adequate drainage to prevent water ponding. 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.



May 3,2024

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 60	
P240445-01	C08	Piggyback Base Supported Gable	1	1	Job Reference (optional)	165302612

Run: 8.63 S Apr 26 2024 Print: 8.630 S Apr 26 2024 MiTek Industries. Inc. Wed May 01 14:49:47 ID:ewrAceOsPybP0GqmZjh3U?zkXV?-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 2

- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 10) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 83 lb uplift at joint 2, 15 lb uplift at joint 24, 39 lb uplift at joint 34, 45 lb uplift at joint 35, 36 lb uplift at joint 36, 18 lb uplift at joint 37, 91 lb uplift at joint 38, 79 lb uplift at joint 39, 79 lb uplift at joint 40, 68 lb uplift at joint 41, 131 lb uplift at joint 42, 44 lb uplift at joint 33, 35 lb uplift at joint 32, 94 lb uplift at joint 30, 79 lb uplift at joint 29, 79 lb uplift at joint 28, 69 lb uplift at joint 27 and 119 lb uplift at joint
- 12) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 13) 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

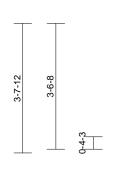


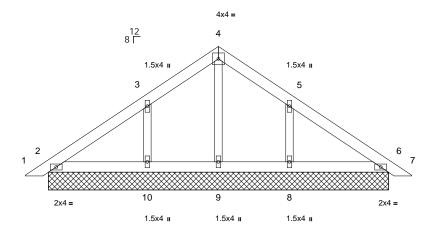
Job	Truss	Truss Type	Qty	Ply	Roof - Osage Lot 60	
P240445-01	PB1	Piggyback	2	1	Job Reference (optional)	165302613

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9-6-14

Scale = 1:32.4

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	0.10	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.06	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.04	Horz(CT)	0.00	6	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 39 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins.

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

REACTIONS (size) 2=9-6-14, 6=9-6-14, 8=9-6-14,

9=9-6-14, 10=9-6-14 Max Horiz 2=-97 (LC 10)

Max Uplift 2=-16 (LC 13), 6=-15 (LC 13),

8=-115 (LC 13), 10=-116 (LC 12) 2=144 (LC 1), 6=144 (LC 1), 8=280

(LC 20), 9=109 (LC 22), 10=281

(LC 19)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/14, 2-3=-99/75, 3-4=-81/105, 4-5=-80/104, 5-6=-74/51, 6-7=0/14 **BOT CHORD** 2-10=-35/76, 9-10=-35/76, 8-9=-35/76,

6-8=-35/76

WEBS 4-9=-83/0, 3-10=-211/172, 5-8=-210/172

NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable or consult qualified building designer as per ANSI/TPI 1.
- Gable requires continuous bottom chord bearing.

- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 16 lb uplift at joint 2, 15 lb uplift at joint 6, 116 lb uplift at joint 10 and 115 lb uplift at joint 8.
- 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 11) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

LOAD CASE(S) Standard

OF MISS SCOTT M. SEVIER PE-2001018807

May 3,2024



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

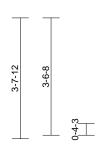


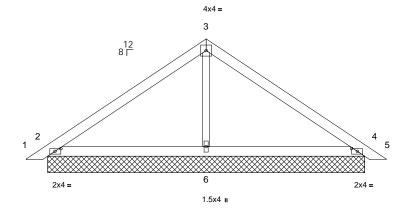
Job	Truss	Truss Type	Qty	Ply	Roof - Osage Lot 60	
P240445-01	PB2	Piggyback	28	1	Job Reference (optional)	165302614

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Page: 1







9-6-14

Plate Offsets (X, Y): [2:0-2-2,0-1-0], [4:0-2-2,0-1-0]

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	0.36	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.25	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.08	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 36 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins.

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

bracing.

REACTIONS 2=9-6-14, 4=9-6-14, 6=9-6-14 (size)

Max Horiz 2=-97 (LC 10)

Max Uplift 2=-59 (LC 12), 4=-71 (LC 13),

6=-26 (LC 12)

2=249 (LC 1), 4=249 (LC 1), 6=419 Max Grav

(LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/14, 2-3=-168/91, 3-4=-166/91,

4-5=0/14

BOT CHORD 2-6=-16/79, 4-6=-16/79

3-6=-265/114 WEBS

NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.

- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 59 lb uplift at joint 2, 71 lb uplift at joint 4 and 26 lb uplift at joint 6.
- 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 11) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

LOAD CASE(S) Standard



May 3,2024



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

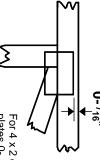


Symbols

PLATE LOCATION AND ORIENTATION



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



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

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

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

PLATE SIZE

4 × 4

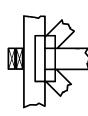
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING LOCATION



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

BEARING



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

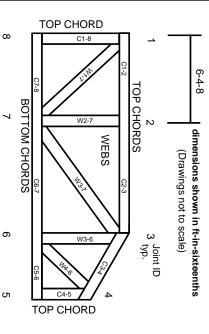
Industry Standards:

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

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

ANSI/TPI1: DSB-22:

Numbering System



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

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

Product Code Approvals

ICC-ES Reports:

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

Design General Notes

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

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

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

General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

- Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI
- Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves may require bracing, or alternative Tor I bracing should be considered.

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

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- Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
- Cut members to bear tightly against each other.

'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

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