

RE: P230180-01 - Roof - Osage Lot 55

Site Information:

Project Customer: Clover & Hive Project Name: Twin Cobalt Lot/Block: 55

Subdivision: Osage

Model:

Address: 2139/2141 SW Osage Dr

City: Lee's Summit State: MO

General Truss Engineering Criteria & Design Loads (Individual Truss Design

Drawings Show Special Loading Conditions):

Design Code: IRC2018/TPI2014 Design Program: MiTek 20/20 8.6

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 Floor Load: N/A psf

Mean Roof Height (feet): 35 Exposure Category: C

No. 123456789111231456789222245627	Seal# 157758142 157758143 157758144 157758145 157758146 157758149 157758150 157758151 157758153 157758153 157758156 157758156 157758156 157758156 157758160 157758161 157758166 157758166 157758166 157758166 157758166 157758166 157758166	A2 A3	P Date 4/14/23	No. 35 36 37 38 39 40 41 42 43 44 45 46	Seal# 157758176 157758177 157758187 157758181 157758182 157758183 157758185 157758186 157758187	Truss Name V12 V13 V14 V15 V16 V17 V18 V19 V20 V21 V22 V23	4/14/23 4/14/23 4/14/23 4/14/23 4/14/23 4/14/23 4/14/23 4/14/23 4/14/23 4/14/23

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, 2023.

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.



MiTek USA, Inc.

16023 Swingley Ridge Rd

Chesterfield, MO 63017

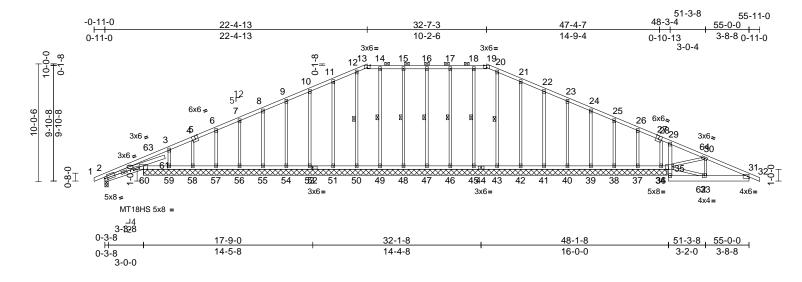
314-434-1200

April 14,2023

Sevier, Scott 1 of 1

Job	Truss	Truss Type	Qty	Ply	Roof - Osage Lot 55	
P230180-01	A1	Piggyback Base Supported Gable	2	1	Job Reference (optional)	I57758142

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries. Inc. Thu Apr 13 10:44:24 ID:WcRfdZXs?bG3GRhQ2QHdPbz1SCN-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f Page: 1



Scale = 1:98.4

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	0.90	Vert(LL)	0.07	61	>917	240	MT18HS	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.93	Vert(CT)	-0.66	31	>136	90	MT20	244/190
BCLL	0.0	Rep Stress Incr	NO	WB	0.29	Horz(CT)	0.11	36	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-SH		Wind(LL)	0.69	31	>131	120	Weight: 295 lb	FT = 20%

LUMBER	
TOP CHORD	2x4 SP No.2
BOT CHORD	2x4 SP No.2 *Except* 34-31:2x6 SPF No.2
WEBS	2x3 SPF No.2
OTHERS	2x3 SPF No.2
SLIDER	Left 2x4 SP No.2 5-5-5
BRACING	
TOP CHORD	Sheathed or 4-4-4 oc purlins, except

2-0-0 oc purlins (6-2-4 max.): 13-19. BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing, Except: 10-0-0 oc bracing: 34-35

5-4-7 oc bracing: 59-60 5-6-4 oc bracing: 58-59 5-11-0 oc bracing: 57-58 5-11-12 oc bracing: 38-39 5-9-8 oc bracing: 37-38 4-7-14 oc bracing: 36-37 4-7-1 oc bracing: 35-36

WEBS 1 Row at midpt 16-47, 17-46, 18-45, 20-43, 15-48, 14-49,

12-50

2=0-3-8, 36=44-8-8, 37=44-8-8, **REACTIONS** (size) 38=44-8-8, 39=44-8-8, 40=44-8-8, 41=44-8-8, 42=44-8-8, 43=44-8-8,

45=44-8-8, 46=44-8-8, 47=44-8-8, 48=44-8-8, 49=44-8-8, 50=44-8-8, 51=44-8-8, 53=44-8-8, 54=44-8-8, 55=44-8-8, 56=44-8-8, 57=44-8-8,

58=44-8-8, 59=44-8-8 Max Horiz 2=-172 (LC 17)

Max Uplift 2=-136 (LC 26), 36=-205 (LC 9), 37=-226 (LC 26), 38=-71 (LC 13), 39=-44 (LC 13), 40=-51 (LC 13), 41=-49 (LC 13), 42=-54 (LC 13), 43=-55 (LC 9), 45=-52 (LC 9), 46=-42 (LC 8), 47=-36 (LC 9), 48=-42 (LC 8), 49=-51 (LC 9), 50=-51 (LC 9), 51=-57 (LC 12), 53=-49 (LC 12), 54=-50 (LC 12), 55=-49 (LC 12), 56=-49 (LC 12), 57=-53 (LC 12), 58=-89 (LC 9), 59=-103 (LC 12) Max Grav

2=165 (LC 25), 36=721 (LC 26), 37=106 (LC 9), 38=273 (LC 26), 39=151 (LC 1), 40=180 (LC 26), 41=176 (LC 1), 42=137 (LC 26), 43=482 (LC 1), 45=348 (LC 1), 46=156 (LC 25), 47=185 (LC 1), 48=154 (LC 25), 49=348 (LC 1), 50=482 (LC 1), 51=158 (LC 25), 53=177 (LC 1), 54=175 (LC 1), 55=175 (LC 25), 56=178 (LC 1),

57=196 (LC 25), 58=196 (LC 1),

59=404 (LC 25) (lb) - Maximum Compression/Maximum Tension

TOP CHORD

1-2=-5/0, 2-3=-1377/1158, 3-4=-1247/1054, 4-6=-1214/1081, 6-7=-1171/1075, 7-8=-1131/1077, 8-9=-1090/1076, 9-10=-1049/1076, 10-11=-1007/1075, 11-12=-979/1090, 12-13=-849/957, 19-20=-849/957, 20-21=-979/1090, 21-22=-1008/1075, 22-23=-1049/1076, 23-24=-1091/1077, 24-25=-1128/1074, 25-26=-1187/1089, 26-28=-1143/1022, 28-29=-1296/1106, 29-30=-1350/1136, 30-31=-548/510, 31-32=0/7, 13-14=-851/963, 14-15=-858/969, 15-16=-858/969, 16-17=-858/969. 17-18=-858/969.

18-19=-851/963

OF MISS SCOTT M. SEVIER OFFISSIONAL STONAL PE-2001018807

April 14,2023

FORCES



Job	Truss	Truss Type	Qty	Ply	Roof - Osage Lot 55	
P230180-01	A1	Piggyback Base Supported Gable	2	1	Job Reference (optional)	157758142

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries. Inc. Thu Apr 13 10:44:24 ID:WcRfdZXs?bG3GRhQ2QHdPbz1SCN-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f Page: 2

2-60=-1000/1331. 60-61=-32/0. BOT CHORD 34-35=-52/35, 29-35=-43/37, 33-34=-173/233. 31-33=-410/553. 59-60=-969/1310, 58-59=-969/1310, 57-58=-969/1310, 56-57=-969/1310, 55-56=-969/1310, 54-55=-969/1310, 53-54=-969/1310. 51-53=-969/1310. 50-51=-969/1310, 49-50=-969/1310, 48-49=-969/1310, 47-48=-969/1310, 46-47=-969/1310. 45-46=-969/1310. 43-45=-969/1310, 42-43=-969/1310, 41-42=-969/1310, 40-41=-969/1310, 39-40=-969/1310, 38-39=-969/1310, 37-38=-969/1310, 36-37=-969/1310, 35-36=-969/1310 WEBS 30-33=-400/212, 33-35=-250/335, 30-35=-623/873, 16-47=-147/77, 17-46=-118/65, 18-45=-309/221, 20-43=-443/351, 21-42=-98/77, 22-41=-138/85, 23-40=-137/84, 24-39=-128/76, 25-38=-174/131, 26-37=-137/60, 28-36=-357/390, 15-48=-115/65, 14-49=-309/221, 12-50=-443/351, 11-51=-119/80, 10-53=-139/85. 9-54=-135/83. 8-55=-136/83.

NOTES

Unbalanced roof live loads have been considered for this design

3-59=-373/290

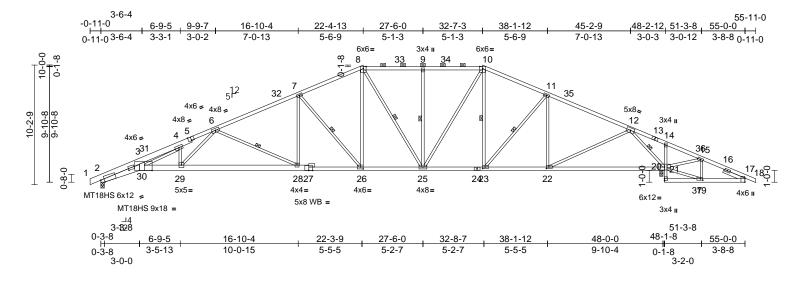
7-56=-132/82, 6-57=-155/95, 4-58=-65/62,

- 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 22-4-13, Corner(3R) 22-4-13 to 27-6-0, Exterior(2N) 27-6-0 to 32-7-3, Corner(3R) 32-7-3 to 37-6-0, Exterior(2N) 37-6-0 to 55-11-0 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
- 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 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.
- 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.
- 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.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Roof - Osage Lot 55	
P230180-01	A2	Piggyback Base	4	1	Job Reference (optional)	I57758143

Run: 8 63 S. Nov 19 2022 Print: 8 630 S. Nov 19 2022 MiTek Industries. Inc. Thu Apr 13 10:44:27 ID:WcRfdZXs?bG3GRhQ2QHdPbz1SCN-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f Page: 1



Scale = 1:98.4

Plate Offsets (X, Y): [2:0-3-9,Edge], [2:0-0-1,Edge], [5:0-3-0,Edge], [17:0-4-3,Edge], [19:0-2-8,0-1-8], [22:0-2-8,0-1-8], [23:0-2-8,0-1-8], [26:0-2-8,0-1-8	26:0-2-8,0-2-0], [30:0-7-8,Edge]
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Loading	(psf)	Spacing	2-0-0	csı		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.76	Vert(LL)	-0.45	28-29	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.84	Vert(CT)	-0.86	28-29	>672	180	MT18HS	244/190
BCLL	0.0	Rep Stress Incr	NO	WB	0.84	Horz(CT)	0.35	21	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-SH							Weight: 291 lb	FT = 20%

LUMBER TOP CHORD 2x4 SP No.2 *Except* 1-5:2x6 SP 2400F 2.0E, 5-8,13-10:2x4 SP 1650F 1.5E

BOT CHORD 2x6 SP 2400F 2.0E *Except*

24-21,24-27:2x4 SP 1650F 1.5E, 14-20:2x3

SPF No.2, 20-17:2x4 SP No.2, 30-3:2x6 SPF

No 2

WFBS 2x3 SPF No 2 2x4 SP No.2 **OTHERS**

SLIDER Right 2x4 SP No.2 -- 1-11-11

BRACING

FORCES

TOP CHORD Sheathed or 2-1-15 oc purlins, except

2-0-0 oc purlins (3-1-2 max.): 8-10.

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

bracing, Except: 9-2-0 oc bracing: 2-30

6-0-0 oc bracing: 19-20,17-19.

WEBS 10-23, 9-25, 6-28, 7-26, 1 Row at midpt

8-25, 11-23, 12-21

REACTIONS (size) 2=0-3-8, 21=0-3-8, (req. 0-4-9)

Max Horiz 2=180 (LC 16) Max Uplift 2=-320 (LC 12), 21=-435 (LC 9)

Max Grav 2=2186 (LC 1), 21=2889 (LC 1)

(lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/11, 2-3=-8127/1254, 3-4=-7831/1230,

4-6=-6380/910, 6-7=-4019/532, 7-8=-3191/468, 8-9=-2832/459, 9-10=-2832/459, 10-11=-2736/416, 11-12=-2746/337, 12-14=-1072/1222,

14-15=-1089/1216, 15-17=-390/490, 17-18=0/1

BOT CHORD

2-30=-1278/7340, 29-30=-859/5865, 28-29=-738/4825, 26-28=-404/3626,

25-26=-202/2865, 23-25=-132/2454, 22-23=-131/2451, 21-22=-78/1122,

20-21=-55/38, 14-21=-166/61, 19-20=-145/0, 17-19=-389/378, 3-30=-73/877

WEBS 8-26=-181/941, 10-23=-66/173, 9-25=-457/185, 10-25=-161/855,

6-28=-1327/370, 7-26=-1156/309, 8-25=-184/226, 11-23=-109/187, 12-21=-3325/1019, 12-22=-411/1478, 6-29=-180/1557, 4-30=-421/1646,

7-28=-58/734, 4-29=-715/201, 11-22=-467/295, 15-19=-345/201, 19-21=-302/402, 15-21=-731/756

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 Exterior(2E) -0-11-0 to 4-1-0, Interior (1) 4-1-0 to 22-4-13, Exterior(2R) 22-4-13 to 29-5-10, Interior (1) 29-5-10 to 32-7-3, Exterior(2R) 32-7-3 to 39-8-1, Interior (1) 39-8-1 to 55-11-0 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
- Provide adequate drainage to prevent water ponding.
- 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.
- WARNING: Required bearing size at joint(s) 21 greater than input bearing size.
- 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.
- 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

SUPPLEMENTARY BEARING PLATES, SPECIAL ANCHORAGE, OR OTHER MEANS TO ALLOW FOR THE MINIMUM REQUIRED SUPPORT WIDTH (SUCH AS COLUMN CAPS, BEARING BLOCKS, ETC.) ARE THE RESPONSIBILITY OF THE TRUSS MANUFACTURER OR THE BUILDING DESIGNER.



April 14,2023



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 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 chorembers 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

AMSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job	Truss	Truss Type	Qty	Ply	Roof - Osage Lot 55	
P230180-01	A3	Piggyback Base	10	1	Job Reference (optional)	157758144

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Thu Apr 13 10:44:28 ID:WcRfdZXs?bG3GRhQ2QHdPbz1SCN-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1

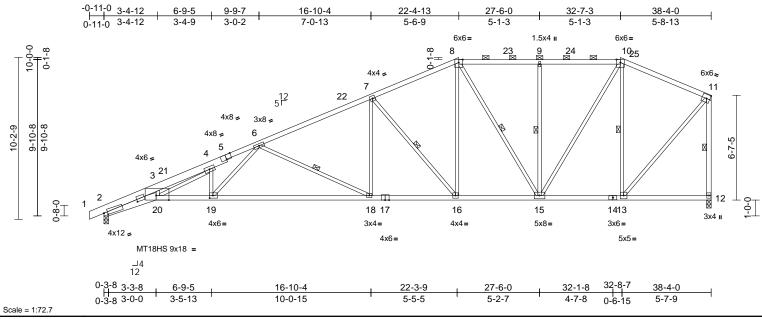


Plate Offsets (X, Y): [2:0-2-13,0-1-13], [2:2-2-13,0-0-3], [5:0-4-0,Edge], [19:0-2-8,0-2-0], [20:0-9-11,Edge]

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	0.68	Vert(LL)	-0.32	18-19	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.79	Vert(CT)	-0.72	18-19	>632	180	MT18HS	197/144
BCLL	0.0	Rep Stress Incr	NO	WB	0.72	Horz(CT)	0.27	12	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-SH							Weight: 209 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2 *Except* 1-5:2x6 SP 2400F

2.0E, 5-8:2x4 SP 1650F 1.5E

BOT CHORD 2x4 SP No.2 *Except* 2-20:2x6 SP 2400F 2.0E, 17-20:2x4 SP 2400F 2.0E

WEBS 2x3 SPF No.2 *Except* 12-11:2x4 SP No.2

BRACING

TOP CHORD Sheathed or 2-9-9 oc purlins, except end

verticals, and 2-0-0 oc purlins (4-4-3 max.): 8-10.

Rigid ceiling directly applied or 8-4-1 oc

BOT CHORD Rigid of

bracing.

WEBS 1 Row at midpt 11-12, 9-15, 10-13, 8-1

11-12, 9-15, 10-13, 8-15, 7-16, 6-18

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

Max Horiz 2=356 (LC 12)

Max Uplift 2=-274 (LC 12), 12=-218 (LC 8)

Max Grav 2=1787 (LC 1), 12=1711 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

TOP CHORD

Tension

1-2=0/11, 2-3=-6964/1356, 3-4=-6275/1279, 4-6=-4840/824, 6-7=-2875/432.

7-8=-2085/390, 8-9=-1558/337,

9-10=-1558/337, 10-11=-1097/218,

11-12=-1661/316

BOT CHORD 2-20=-1556/6304, 19-20=-954/4435,

18-19=-820/3608, 16-18=-485/2570,

15-16=-299/1840, 13-15=-149/962,

12-13=-5/16

WEBS 8-16=-187/932, 9-15=-435/178,

10-13=-971/235, 8-15=-580/184, 10-15=-197/1205, 11-13=-217/1433, 7-16=-1109/310, 6-18=-1154/373,

6-19=-203/1258, 7-18=-57/673, 4-19=-734/254, 4-20=-577/1634,

3-20=-161/1042

 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) -0-11-0 to 4-1-0, Interior (1) 4-1-0 to 22-4-13, Exterior(2R) 22-4-13 to 29-5-10, Interior (1) 29-5-10 to 32-7-3, Exterior(2E) 32-7-3 to 38-2-4 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
- 3) Provide adequate drainage to prevent water ponding.
- 4) All plates are MT20 plates 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) 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.
- 7) 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



April 14,2023

NOTES



Job	Truss	Truss Type	Qty	Ply	Roof - Osage Lot 55	
P230180-01	A4	Piggyback Base Girder	2	2	Job Reference (optional)	I57758145

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Thu Apr 13 10:44:29 ID:IkXHPRUnAQGINLGmql6q4dzaidp-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1

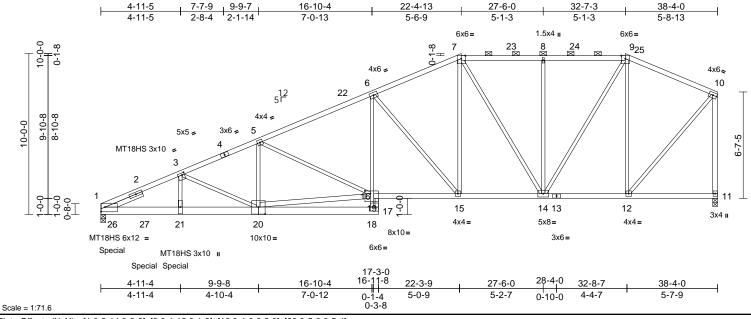


Plate Offsets (X, Y): [1:0-2-14,0-3-8], [3:0-1-12,0-1-8], [16:0-4-0,0-2-0], [20:0-5-0,0-5-4]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.88	Vert(LL)	-0.22	15-16	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.77	Vert(CT)	-0.40	15-16	>999	180	MT18HS	197/144
BCLL	0.0	Rep Stress Incr	NO	WB	0.94	Horz(CT)	0.12	11	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-SH							Weight: 445 lb	FT = 20%

LUMBER

2x4 SP No.2 *Except* 1-4:2x4 SP 2400F TOP CHORD

2.0E

BOT CHORD 2x4 SP No.2 *Except* 17-16:2x3 SPF No.2. 17-20:2x6 SPF No.2, 20-1:2x6 SP 2400F

2.0E

WFBS 2x3 SPF No.2 *Except* 11-10,20-19:2x4 SP

No.2

Left 2x4 SP No.2 -- 2-5-12 SLIDER

BRACING

TOP CHORD Structural wood sheathing directly applied or

3-2-2 oc purlins, except end verticals, and 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: 16-17.

REACTIONS 1=0-3-8, 11=0-3-8 (size)

Max Horiz 1=349 (LC 12)

Max Uplift 1=-1019 (LC 12), 11=-312 (LC 8) 1=6957 (LC 1), 11=2359 (LC 1) Max Grav

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD

BOT CHORD

1-3=-13024/1878. 3-5=-7714/1114.

5-6=-5174/772, 6-7=-3383/575, 7-8=-2363/454, 8-9=-2363/454,

9-10=-1544/282, 10-11=-2310/409

16-17=-372/0, 16-19=-721/4205,

15-16=-799/4692, 14-15=-469/3032,

12-14=-209/1382, 11-12=-5/17, 1-21=-1985/11747, 18-21=-1983/11735,

17-18=-80/480

WEBS 7-15=-347/2075, 9-12=-1447/305,

8-14=-449/180, 9-14=-307/1963, 7-14=-1342/290, 10-12=-308/2066,

18-19=0/546, 6-19=-291/2171, 5-20=-192/1718, 3-20=-5129/827 5-19=-2720/489, 6-15=-2521/529

19-20=-1158/6641, 3-21=-620/4623

NOTES

1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:

Top chords connected as follows: 2x4 - 1 row at 0-9-0 OC

Bottom chords connected as follows: 2x3 - 1 row at 0-9-0 oc, 2x4 - 1 row at 0-9-0 oc, 2x6 - 3 rows staggered at 0-5-0 oc.

Web connected as follows: 2x3 - 1 row at 0-9-0 oc. Except member 3-21 2x3 - 1 row at 0-2-0 oc, 2x4 - 1 row at 0-9-0 oc

- All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- 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 4-11-5, Interior (1) 4-11-5 to 22-4-13, Exterior(2R) 22-4-13 to 29-5-10, Interior (1) 29-5-10 to 32-7-3, Exterior(2E) 32-7-3 to 38-2-4 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 arip 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 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.

10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 563 lb down and 90 lb up at 0-8-12, and 559 lb down and 93 lb up at 2-8-12, and 4771 lb down and 681 lb up at 4-8-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

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

Uniform Loads (lb/ft)

Vert: 1-7=-70, 7-9=-70, 9-10=-70, 11-16=-20, 1-17=-20

Concentrated Loads (lb)

Vert: 21=-4771 (F), 26=-563 (F), 27=-559 (F)



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Design Valid to its 90 mly with win New Commercials. This design is based only upon parameters shown, and is 10 at an individual outlining 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/TPI Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job	Truss	Truss Type	Qty	Ply	Roof - Osage Lot 55	
P230180-01	A5	Piggyback Base	4	1	Job Reference (optional)	157758146

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries. Inc. Thu Apr 13 10:44:30 ID:WcRfdZXs?bG3GRhQ2QHdPbz1SCN-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f Page: 1

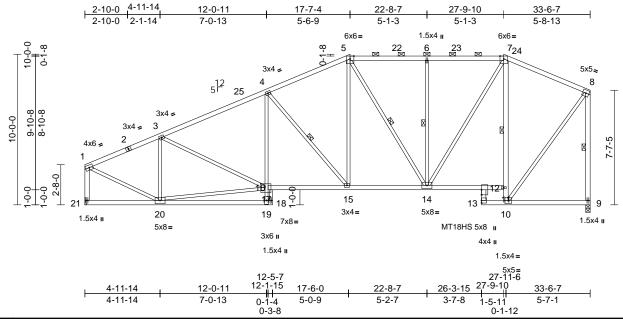


Plate Offsets (X, Y): [12:0-4-0,Edge], [16:0-3-4,0-2-8]

-		1	-				-					-
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	0.72	Vert(LL)	-0.15	12-14	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	вс	0.95	Vert(CT)	-0.27	12-14	>999	180	MT18HS	244/190
BCLL	0.0	Rep Stress Incr	NO	WB	0.81	Horz(CT)	0.19	9	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-SH		` ′					Weight: 203 lb	FT = 20%

LUMBER

Scale = 1:76.5

TOP CHORD 2x4 SP No.2

BOT CHORD 2x4 SP No.2 *Except* 18-16:2x3 SPF No.2,

11-17:2x4 SP 1650F 1.5E

WFBS 2x3 SPF No.2 *Except* 9-8,21-1,10-7:2x4 SP

No.2

BRACING

WEBS

TOP CHORD Sheathed or 3-1-2 oc purlins, except end

verticals, and 2-0-0 oc purlins (4-9-6 max.):

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

bracing, Except:

6-0-0 oc bracing: 16-18,12-13. 1 Row at midpt 8-9, 6-14, 7-10, 5-14,

4-15

REACTIONS (size) 9=0-3-8, 21= Mechanical

Max Horiz 21=250 (LC 12)

Max Uplift 9=-200 (LC 8), 21=-193 (LC 12)

Max Grav 9=1496 (LC 1), 21=1496 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 5-6=-1302/307 6-7=-1302/307

7-8=-860/185, 8-9=-1460/291,

1-21=-1451/212, 1-3=-1630/224,

3-4=-2071/342, 4-5=-1657/336

20-21=-257/99, 19-20=-12/76, 18-19=-7/56, 16-18=-488/0, 12-13=-31/57, 10-13=-93/574,

9-10=-4/11, 16-17=-354/1792

15-16=-380/1828, 14-15=-250/1449,

12-14=-123/765, 11-12=-29/192

5-15=-125/544, 6-14=-431/177, 10-11=-929/238, 7-11=-963/242,

5-14=-320/143, 7-14=-189/1079, 8-10=-189/1211, 17-19=0/648, 4-17=0/256,

3-20=-788/216, 3-17=-34/409,

4-15=-581/242, 1-20=-174/1597,

17-20=-404/1395

- Unbalanced roof live loads have been considered for this design
- Wind: ASCE 7-16; Vult=115mph (3-second gust) 2) 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) 4-11-5 to 9-9-7, Interior (1) 9-9-7 to 22-4-13, Exterior(2R) 22-4-13 to 29-5-10, Interior (1) 29-5-10 to 32-7-3, Exterior(2E) 32-7-3 to 38-2-4 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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.
- 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

OF MISS SCOTT M. SEVIER NUMBER PE-2001018807 SSIONAL

April 14,2023

NOTES

WEBS

BOT CHORD



Job	Truss	Truss Type	Qty	Ply	Roof - Osage Lot 55	
P230180-01	A6	Piggyback Base	8	1	Job Reference (optional)	157758147

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries. Inc. Thu Apr 13 10:44:30 ID:WcRfdZXs?bG3GRhQ2QHdPbz1SCN-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1

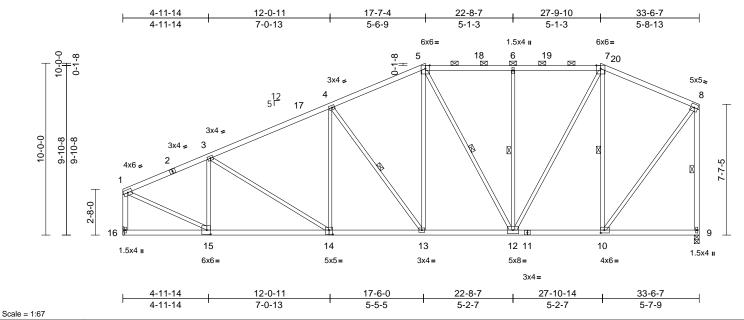


Plate Offsets (X, Y): [10:0-2-8,0-2-0], [14:0-2-8,0-3-0], [15:0-2-8,0-3-0]

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	0.71	Vert(LL)	-0.09	13-14	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.55	Vert(CT)	-0.18	14-15	>999	180		
BCLL	0.0	Rep Stress Incr	NO	WB	0.73	Horz(CT)	0.05	9	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-SH							Weight: 191 lb	FT = 20%

LUMBER

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

2x3 SPF No.2 *Except* 9-8,16-1:2x4 SP No.2 WEBS

BRACING

TOP CHORD Sheathed or 3-5-2 oc purlins, except end

verticals, and 2-0-0 oc purlins (5-1-1 max.):

5-7.

BOT CHORD Rigid ceiling directly applied or 9-1-8 oc

bracing.

WFBS 8-9, 6-12, 7-10, 5-12, 1 Row at midpt

4-13

9=0-3-8, 16= Mechanical **REACTIONS** (size)

Max Horiz 16=250 (LC 12)

Max Uplift 9=-200 (LC 8), 16=-193 (LC 12) Max Grav 9=1496 (LC 1), 16=1496 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-3=-1633/225, 3-4=-1820/292,

4-5=-1493/308, 5-6=-1156/282, 6-7=-1155/282. 7-8=-857/185. 8-9=-1446/290, 1-16=-1454/213

BOT CHORD 15-16=-256/98, 13-15=-413/1593

12-13=-224/1298, 10-12=-118/738, 9-10=-4/13

WEBS 5-13=-117/502, 6-12=-426/177,

7-10=-847/223, 5-12=-334/140, 7-12=-162/928, 8-10=-188/1200, 4-14=0/206, 3-15=-592/159, 3-14=0/183, 4-13=-496/221,

1-15=-175/1602

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) 4-11-5 to 9-9-7, Interior (1) 9-9-7 to 22-4-13, Exterior(2R) 22-4-13 to 29-5-10, Interior (1) 29-5-10 to 32-7-3, Exterior(2E) 32-7-3 to 38-2-4 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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.
- 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



April 14,2023

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 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

AMSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job	Truss	Truss Type	Qty	Ply	Roof - Osage Lot 55	
P230180-01	A7	Piggyback Base Supported Gable	2	1	Job Reference (optional)	I57758148

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Thu Apr 13 10:44:31 ID:WcRfdZXs?bG3GRhQ2QHdPbz1SCN-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f Page: 1

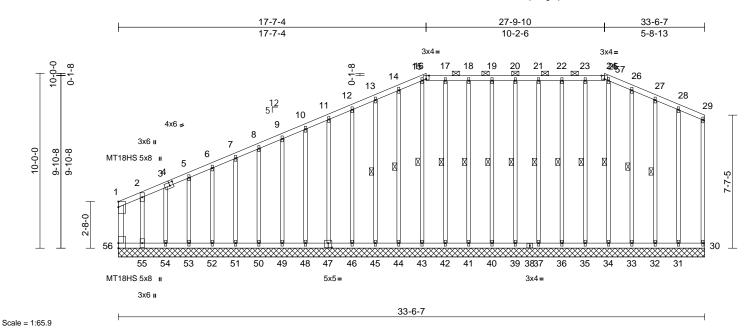


Plate Offsets (X, Y): [4:0-2-8,0-2-4], [16:0-2-0,Edge], [24:0-2-0,Edge], [47:0-2-8,0-3-0]

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	0.64	Vert(LL)	n/a	-	n/a	999	MT18HS	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.57	Vert(TL)	n/a	-	n/a	999	MT20	244/190
BCLL	0.0	Rep Stress Incr	NO	WB	0.16	Horiz(TL)	0.00	30	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R							Weight: 256 lb	FT = 20%

LUMBER Max Grav 30=54 (LC 1), 31=132 (LC 26), 32=120 (LC 1), 33=120 (LC 26), TOP CHORD 2x4 SP No.2 **BOT CHORD** 2x4 SP No.2 2x4 SP No.2 *Except* 29-30:2x3 SPF No.2 WEBS 2x3 SPF No.2 OTHERS **BRACING** TOP CHORD Sheathed or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 16-24 49=120 (LC 1), 50=120 (LC 1), BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing. WFBS 1 Row at midpt 20-39, 21-37, 22-36,

FORCES

TOP CHORD

BOT CHORD

23-35, 25-34, 26-33, 27-32, 19-40, 18-41, 17-42, 15-43, 14-44, 13-45

30=33-6-7, 31=33-6-7, 32=33-6-7, 33=33-6-7, 34=33-6-7, 35=33-6-7, 36=33-6-7, 37=33-6-7, 39=33-6-7, 40=33-6-7, 41=33-6-7, 42=33-6-7.

43=33-6-7, 44=33-6-7, 45=33-6-7, 46=33-6-7, 47=33-6-7, 48=33-6-7, 49=33-6-7, 50=33-6-7, 51=33-6-7, 52=33-6-7, 53=33-6-7, 54=33-6-7, 55=33-6-7, 56=33-6-7 Max Horiz 56=250 (LC 12)

Max Uplift 30=-37 (LC 12), 31=-25 (LC 13), 32=-40 (LC 13), 33=-29 (LC 13), 35=-19 (LC 8), 36=-26 (LC 9), 37=-25 (LC 9), 39=-24 (LC 8), 40=-25 (LC 9), 41=-27 (LC 9), 42=-20 (LC 8), 44=-31 (LC 12) 45=-33 (LC 12), 46=-46 (LC 12),

47=-15 (LC 12), 48=-47 (LC 12), 49=-31 (LC 12), 50=-33 (LC 12), 51=-36 (LC 12), 52=-28 (LC 12), 53=-60 (LC 12), 55=-734 (LC 12)

34=119 (LC 26), 35=120 (LC 26), 36=122 (LC 25), 37=120 (LC 25), 39=120 (LC 1), 40=120 (LC 26), 41=122 (LC 26), 42=120 (LC 25), 43=119 (LC 25), 44=120 (LC 25), 45=120 (LC 1), 46=121 (LC 25), 47=120 (LC 1), 48=120 (LC 25), 51=120 (LC 25), 52=120 (LC 1), 53=120 (LC 25), 54=143 (LC 21), 55=127 (LC 25), 56=676 (LC 12) (lb) - Maximum Compression/Maximum

Tension 1-56=-379/106, 1-2=-394/121, 2-3=-221/72, 3-5=-207/67, 5-6=-182/57, 6-7=-156/47, 7-8=-131/38, 8-9=-105/36, 9-10=-81/41

10-11=-52/48, 11-12=-40/64, 12-13=-24/96, 13-14=-32/124, 14-15=-41/149, 15-16=-42/152, 16-17=-39/150, 17-18=-38/149, 18-19=-38/149, 19-20=-38/149, 20-21=-38/149, 21-22=-38/149. 22-23=-38/149. 23-24=-39/150, 24-25=-42/153, 25-26=-41/147, 26-27=-32/111

27-28=-22/69, 28-29=-13/30, 29-30=-43/52 55-56=-5/2, 54-55=-5/2, 53-54=-5/2, 52-53=-5/2, 51-52=-5/2, 50-51=-5/2, 49-50=-5/2, 48-49=-5/2, 46-48=-6/2, 45-46=-6/2, 44-45=-6/2, 43-44=-6/2, 42-43=-6/2, 41-42=-6/2, 40-41=-6/2, 39-40=-6/2, 37-39=-6/2, 36-37=-6/2, 35-36=-6/2, 34-35=-6/2, 33-34=-6/2,

32-33=-6/2, 31-32=-6/2, 30-31=-6/2

WEBS 20-39=-93/46, 21-37=-93/47, 22-36=-95/50, 23-35=-94/39, 25-34=-92/13, 26-33=-93/77, 27-32=-94/94, 28-31=-101/85, 19-40=-93/47, 18-41=-95/50, 17-42=-94/39, 15-43=-93/16,

14-44=-94/51, 13-45=-93/58, 12-46=-93/71, 11-47=-93/43, 10-48=-93/71, 9-49=-93/54, 8-50=-93/57, 7-51=-93/57, 6-52=-93/73, 5-53=-93/91, 3-54=-94/47, 2-55=-154/434

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 Corner(3E) 4-11-5 to 10-2-0, Exterior(2N) 10-2-0 to 22-4-13, Corner(3R) 22-4-13 to 27-6-0, Exterior(2N) 27-6-0 to 32-7-3, Corner(3R) 32-7-3 to 37-7-3, Exterior(2N) 37-7-3 to 38-2-12 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60



April 14,2023

Continued on page 2

REACTIONS (size)

Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 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/TPH Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



16023 Swingley Ridge Rd Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Roof - Osage Lot 55	
P230180-01	A7	Piggyback Base Supported Gable	2	1	Job Reference (optional)	157758148

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Thu Apr 13 10:44:31 ID:WcRfdZXs?bG3GRhQ2QHdPbz1SCN-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 2

- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Provide adequate drainage to prevent water ponding.
- All plates are MT20 plates unless otherwise indicated.
- 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 1-4-0 oc.
- 10) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 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 55	
P230180-01	C1	Common Supported Gable	2	1	Job Reference (optional)	157758149

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Thu Apr 13 10:44:32 ID:WcRfdZXs?bG3GRhQ2QHdPbz1SCN-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f Page: 1

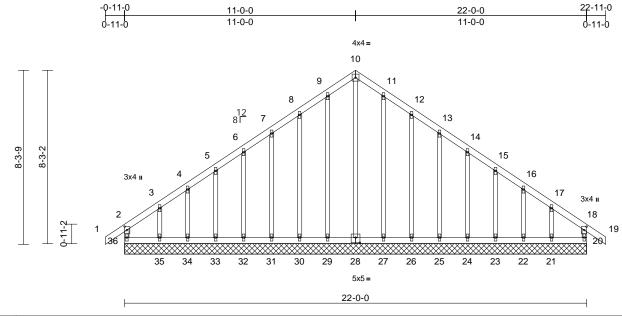


Plate Offsets (X, Y): [2:0-2-0,0-1-4], [18:0-2-0,0-1-4], [28:0-2-8,0-3-0]

Scale = 1:54.9

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	0.14	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.09	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	NO	WB	0.36	Horz(CT)	0.00	20	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R							Weight: 130 lb	FT = 20%

DODL	10.0	ouc iii	02010/11 12014	Matrix IX	
LUMBER			TOP CHORD	2-36=-167/84, 1-2=0/38, 2	-3=-1
TOP CHORD	2x4 SP No.2			3-4=-115/114, 4-5=-108/1	16, 5-
BOT CHORD	2x4 SP No.2			6-7=-92/171, 7-8=-116/21	5, 8-9
WEBS	2x3 SPF No.2			9-10=-155/288, 10-11=-15	5/288
OTHERS	2x3 SPF No.2			11-12=-144/266, 12-13=-1	16/2
BRACING				13-14=-92/171, 14-15=-68	/128,
TOP CHORD	Sheathed or 6-0-0 oc pu	urling except and		15-16=-72/98, 16-17=-80/8	32,
TOT OTTOTAL	verticals.	ariirio, oxoopt oria		17-18=-115/106, 18-19=0/	38, 1
BOT CHORD		nlied or 10-0-0 oc	BOT CHORD	35-36=-105/117, 34-35=-1	05/1
DOT OFFICIAL	bracing.	plica of 10 0 0 00		33-34=-105/117, 32-33=-1	05/1
DEACTIONS	•	4 22 0 0 22 22 0 0		31-32=-105/117, 30-31=-1	05/11
REACTIONS	(size) 20=22-0-0, 2	1=22-0-0, 22=22-0-0,		29-30=-105/117. 27-29=-1	05/1

23=22-0-0, 24=22-0-0, 25=22-0-0, 26=22-0-0, 27=22-0-0, 28=22-0-0, 29=22-0-0, 30=22-0-0, 31=22-0-0, 32=22-0-0, 33=22-0-0, 34=22-0-0, 35=22-0-0, 36=22-0-0

Max Horiz 36=-234 (LC 10) Max Uplift 20=-69 (LC 9), 21=-116 (LC 13),

22=-29 (LC 13), 23=-52 (LC 13), 24=-47 (LC 13), 25=-48 (LC 13), 26=-59 (LC 13), 27=-16 (LC 13), 29=-19 (LC 12), 30=-58 (LC 12), 31=-48 (LC 12), 32=-47 (LC 12), 33=-52 (LC 12), 34=-26 (LC 12),

35=-127 (LC 12), 36=-103 (LC 8) Max Grav 20=178 (LC 19), 21=168 (LC 20), 22=118 (LC 26), 23=124 (LC 20), 24=121 (LC 20), 25=121 (LC 20), 26=123 (LC 20), 27=122 (LC 20), 28=202 (LC 13), 29=125 (LC 19), 30=122 (LC 19), 31=121 (LC 19), 32=120 (LC 19), 33=125 (LC 19), 34=118 (LC 25), 35=184 (LC 19), 36=205 (LC 20)

FORCES (lb) - Maximum Compression/Maximum Tension

153/147, 5-6=-95/141, 9=-144/266, 215, 8, 18-20=-146/68

117. 117. 117 117. 26-27=-105/117, 25-26=-105/117, 24-25=-105/117, 23-24=-105/117, 22-23=-105/117, 21-22=-105/117, 20-21=-105/117

WEBS 10-28=-237/92, 9-29=-100/34, 8-30=-96/77, 7-31=-95/63, 6-32=-95/63, 5-33=-96/70, 4-34=-93/74, 3-35=-121/104, 11-27=-96/32, 12-26=-97/77, 13-25=-95/63, 14-24=-95/63, 15-23=-96/70, 16-22=-93/74, 17-21=-113/99

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 Corner(3E) -0-11-0 to 4-4-0, Exterior(2N) 4-4-0 to 11-0-0, Corner(3R) 11-0-0 to 16-0-0, Exterior(2N) 16-0-0 to 22-11-0 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 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 1-4-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 103 lb uplift at joint 36, 69 lb uplift at joint 20, 19 lb uplift at joint 29, 58 lb uplift at joint 30, 48 lb uplift at joint 31, 47 lb uplift at joint 32, 52 lb uplift at joint 33, 26 lb uplift at joint 34, 127 lb uplift at joint 35, 16 lb uplift at joint 27, 59 lb uplift at joint 26, 48 lb uplift at joint 25, 47 lb uplift at joint 24, 52 Ib uplift at joint 23, 29 lb uplift at joint 22 and 116 lb uplift at joint 21.
- 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



April 14,2023



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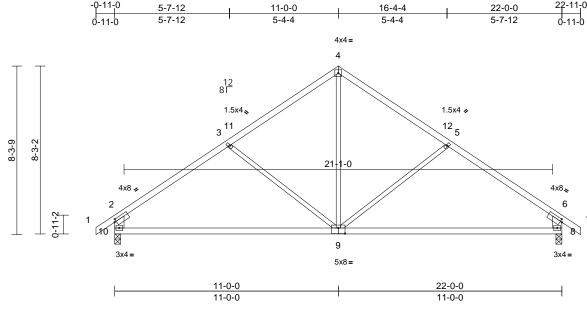
ANSI/TP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



16023 Swingley Ridge Rd Chesterfield, MO 63017

Ţ,	Job	Truss	Truss Type	Qty	Ply	Roof - Osage Lot 55	
	P230180-01	C2	Common	2	1	Job Reference (optional)	157758150

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Thu Apr 13 10:44:32 ID:WcRfdZXs?bG3GRhQ2QHdPbz1SCN-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1



Scale = 1:56.7 Plate Offsets (X, Y): [2:0-1-1,0-1-8], [6:0-1-1,0-1-8], [9:0-4-0,0-3-4]

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	0.82	Vert(LL)	-0.24	8-9	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.78	Vert(CT)	-0.48	8-9	>535	180		
BCLL	0.0	Rep Stress Incr	NO	WB	0.35	Horz(CT)	0.03	8	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-SH							Weight: 96 lb	FT = 20%

LUMBER

BRACING

TOP CHORD 2x4 SP 1650F 1.5E **BOT CHORD** 2x4 SP 1650F 1.5E

2x3 SPF No.2 *Except* 10-2,8-6:2x6 SP WEBS

2400F 2.0E

TOP CHORD Sheathed or 5-0-8 oc purlins, except end

verticals.

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

bracing.

REACTIONS (size) 8=0-3-8, 10=0-3-8

Max Horiz 10=-245 (LC 10)

Max Uplift 8=-149 (LC 13), 10=-149 (LC 12) Max Grav 8=1050 (LC 1), 10=1050 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD

1-2=0/44, 2-3=-1209/214, 3-4=-927/200,

4-5=-927/200, 5-6=-1209/214, 6-7=0/44,

2-10=-937/221, 6-8=-937/221

BOT CHORD 8-10=-176/924

WFBS 4-9=-67/539, 5-9=-294/246, 3-9=-294/246

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 11-0-0, Exterior(2R) 11-0-0 to 16-0-0, Interior (1) 16-0-0 to 22-11-0 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
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 149 lb uplift at joint 10 and 149 lb uplift at joint 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.

LOAD CASE(S) Standard

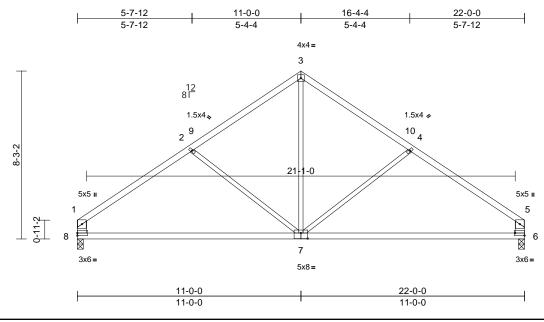






Job	Truss	Truss Type	Qty	Ply	Roof - Osage Lot 55	
P230180-01	C3	Common	9	1	Job Reference (optional)	157758151

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries. Inc. Thu Apr 13 10:44:33 ID:WcRfdZXs?bG3GRhQ2QHdPbz1SCN-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1



Scale = 1:56.7

Plate Offsets (X, Y): [6:Edge,0-1-8], [7:0-4-0,0-3-4]

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	0.95	Vert(LL)	-0.24	7-8	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.75	Vert(CT)	-0.48	7-8	>535	180		
BCLL	0.0	Rep Stress Incr	NO	WB	0.37	Horz(CT)	0.03	6	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-SH							Weight: 92 lb	FT = 20%

LUMBER

WEBS

TOP CHORD 2x4 SP No.2 **BOT CHORD** 2x4 SP 1650F 1.5E

2x3 SPF No.2 *Except* 8-1,6-5:2x6 SP

2400F 2.0E

BRACING

TOP CHORD Sheathed or 3-7-9 oc purlins, except end

verticals.

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

bracing.

REACTIONS (size) 6=0-3-8, 8=0-3-8

Max Horiz 8=224 (LC 11)

Max Uplift 6=-121 (LC 13), 8=-121 (LC 12) Max Grav 6=969 (LC 1), 8=969 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=-1217/216, 2-3=-927/200, 3-4=-927/200,

4-5=-1217/216, 1-8=-845/173, 5-6=-845/173

BOT CHORD 6-8=-192/928

WEBS 3-7=-67/540, 4-7=-314/251, 2-7=-314/251

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) 0-2-12 to 5-6-5, Interior (1) 5-6-5 to 11-0-0, Exterior(2R) 11-0-0 to 16-0-0, Interior (1) 16-0-0 to 21-9-4 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
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 121 lb uplift at joint 8 and 121 lb uplift at joint 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



April 14,2023



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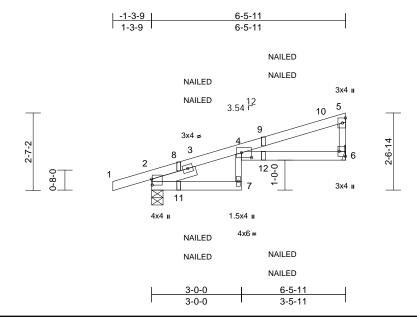
Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chorembers 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

AMSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job	Truss	Truss Type	Qty	Ply	Roof - Osage Lot 55	
P230180-01	CJ1	Diagonal Hip Girder	4	1	Job Reference (optional)	758152

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries. Inc. Thu Apr 13 10:44:33 ID:WcRfdZXs?bG3GRhQ2QHdPbz1SCN-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f Page: 1



Scale = 1:38.5

Plate Offsets (X, Y): [2:0-2-6,0-0-4], [4:0-4-0,0-2-0], [6:Edge,0-2-8]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.73	Vert(LL)	-0.16	7	>492	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.64	Vert(CT)	-0.22	7	>347	180		
BCLL	0.0	Rep Stress Incr	NO	WB	0.00	Horz(CT)	0.11	6	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R							Weight: 26 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP 1650F 1.5E

BOT CHORD 2x4 SP No.2 *Except* 7-4:2x3 SPF No.2 2x3 SPF No.2 WEBS

SLIDER Left 2x4 SP No.2 -- 1-6-6

BRACING

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

verticals

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

bracing.

REACTIONS (size) 2=0-4-9, 6= Mechanical

Max Horiz 2=85 (LC 31)

Max Uplift 2=-106 (LC 8), 6=-90 (LC 12) Max Grav 2=282 (LC 1), 6=280 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension 1-2=0/1, 2-4=-217/50, 4-5=-104/51,

TOP CHORD

5-6=-163/170

BOT CHORD 2-7=-15/17, 4-7=-29/61, 4-6=-90/91

NOTES

- 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 (3) -1-3-9 to 5-9-5, Exterior(2R) 5-9-5 to 6-4-7 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.
- 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.
- "NAILED" indicates Girder: 3-10d (0.148" x 3") toe-nails per NDS guidelines
- In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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

Plate Increase=1.15

Uniform Loads (lb/ft)

Vert: 1-4=-70, 4-5=-70, 2-7=-20, 4-6=-20

Concentrated Loads (lb)

Vert: 8=88 (F=44, B=44), 11=52 (F=26, B=26),

12=-38 (F=-19, B=-19)



April 14,2023

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Job	Truss	Truss Type	Qty	Ply	Roof - Osage Lot 55	
P230180-01	D1	Common Structural Gable	1	1	Job Reference (optional)	157758153

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries. Inc. Thu Apr 13 10:44:34 ID:WcRfdZXs?bG3GRhQ2QHdPbz1SCN-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f Page: 1

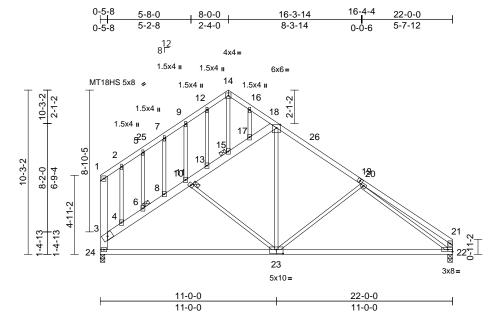


Plate Offsets (X, Y): [18:0-2-10, Edge], [23:0-5-0,0-3-0]

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	0.56	Vert(LL)	-0.25	22-23	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.81	Vert(CT)	-0.51	22-23	>510	180	MT18HS	197/144
BCLL	0.0	Rep Stress Incr	NO	WB	0.92	Horz(CT)	0.03	22	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-SH							Weight: 146 lb	FT = 20%

LUMBER

2x4 SP No.2 *Except* 3-18:2x6 SPF No.2 TOP CHORD

BOT CHORD 2x4 SP 1650F 1.5E

2x3 SPF No.2 *Except* 24-1:2x6 SPF No.2, WEBS 22-21:2x4 SP No.2

OTHERS 2x3 SPF No.2

BRACING

TOP CHORD Sheathed or 5-10-1 oc purlins, except end

verticals

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

bracing.

JOINTS 1 Brace at Jt(s): 11,

15.6

REACTIONS (size) 22=0-3-8, 24=0-3-8

Max Horiz 24=-325 (LC 8)

Max Uplift 22=-125 (LC 13), 24=-120 (LC 13) Max Grav 22=943 (LC 1), 24=943 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension TOP CHORD

1-2=-102/94, 2-5=-107/115, 5-7=-120/146,

7-9=-136/180, 9-12=-161/221,

12-14=-180/260, 14-16=-186/268,

16-18=-185/234, 18-20=-933/198,

20-21=-454/92, 3-24=-846/201, 1-3=-94/79, 21-22=-375/109, 3-4=-1189/283,

4-6=-1109/237, 6-8=-1074/219,

8-10=-1034/199, 10-11=-985/171,

11-13=-937/152, 13-15=-917/131,

15-17=-823/190, 17-18=-795/162

BOT CHORD 22-24=-121/898

WEBS 18-23=-9/529, 20-23=-294/239,

11-23=-224/78, 20-22=-773/167, 14-15=-232/132, 12-13=-80/58,

9-10=-118/68, 7-8=-77/50, 5-6=-73/48,

2-4=-146/83, 16-17=-56/51

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 Exterior(2E) 0-2-12 to 5-4-0, Interior (1) 5-4-0 to 8-0-0, Exterior(2R) 8-0-0 to 13-0-0, Interior (1) 13-0-0 to 21-10-4 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 MT20 plates unless otherwise indicated.
- All plates are 3x4 MT20 unless otherwise indicated.
- Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- Gable studs spaced at 1-4-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- This truss 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



April 14,2023



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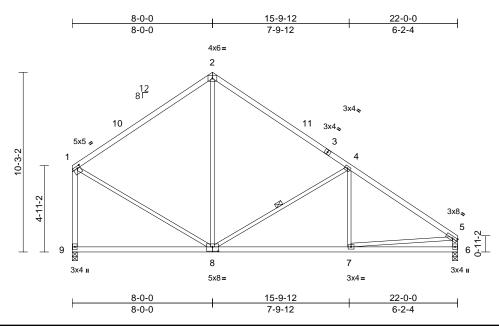
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Job	Truss	Truss Type	Qty	Ply	Roof - Osage Lot 55	
P230180-01	D2	Common	8	1	Job Reference (optional)	157758154

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Scale = 1:65.8

Plate Offsets (X, Y): [1:0-2-0,0-1-8], [8:0-4-0,0-3-0]

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	0.91	Vert(LL)	-0.09	8-9	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.69	Vert(CT)	-0.19	8-9	>999	180		
BCLL	0.0	Rep Stress Incr	NO	WB	0.45	Horz(CT)	0.02	6	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-SH							Weight: 111 lb	FT = 20%

LUMBER

2x4 SP 1650F 1.5E *Except* 2-3:2x4 SP TOP CHORD

No.2 2x4 SP No.2

BOT CHORD 2x3 SPF No.2 *Except* 9-1,6-5:2x4 SP No.2 WFBS

BRACING

Sheathed or 4-5-7 oc purlins, except end TOP CHORD

verticals.

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

bracing.

WEBS 1 Row at midpt 4-8

REACTIONS (size) 6=0-3-8, 9=0-3-8

Max Horiz 9=-334 (LC 8)

Max Uplift 6=-129 (LC 13), 9=-123 (LC 13)

Max Grav 6=977 (LC 1), 9=977 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension TOP CHORD

1-2=-782/207, 2-4=-795/221, 4-5=-1283/189,

1-9=-907/189, 5-6=-921/159

BOT CHORD 7-9=-239/990, 6-7=-51/190

WEBS 2-8=-21/325, 1-8=-73/588, 5-7=-56/806,

4-8=-594/281, 4-7=0/222

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) 0-1-12 to 5-1-12, Interior (1) 5-1-12 to 8-0-0, Exterior(2R) 8-0-0 to 13-0-0, Interior (1) 13-0-0 to 21-10-4 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.

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

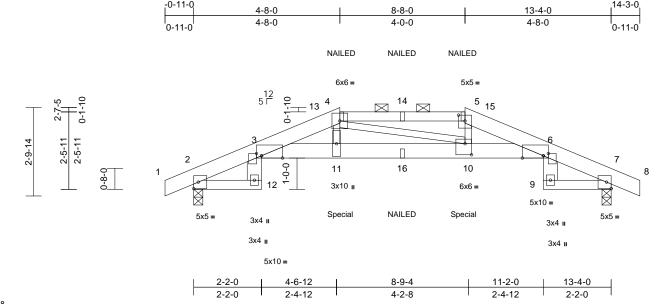






Job	Truss	Truss Type	Qty	Ply	Roof - Osage Lot 55	
P230180-01	E1	Hip Girder	2	1	I57758155 Job Reference (optional)	

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Thu Apr 13 10:44:35 ID:WcRfdZXs?bG3GRhQ2QHdPbz1SCN-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f Page: 1



Scale = 1:36.8

Plate Offsets (X, Y): [3:0-8-1,Edge], [3:0-0-14,0-1-15], [5:0-2-8,0-2-4], [6:0-8-1,Edge], [6:0-0-14,0-1-15], [10:0-2-8,0-4-4]

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	0.72	Vert(LL)	-0.16	10-11	>976	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.56	Vert(CT)	-0.27	10-11	>574	180		
BCLL	0.0	Rep Stress Incr	NO	WB	0.26	Horz(CT)	0.25	7	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-SH							Weight: 70 lb	FT = 20%

LUMBER

2x6 SP 2400F 2.0E *Except* 4-5:2x4 SP TOP CHORD

No.2

BOT CHORD 2x4 SP No.2 *Except* 12-3.6-9:2x6 SPF

No.2, 3-6:2x6 SP 2400F 2.0E

WEBS 2x3 SPF No.2

BRACING

TOP CHORD Sheathed or 4-11-11 oc purlins, except

2-0-0 oc purlins (2-9-8 max.): 4-5.

BOT CHORD Rigid ceiling directly applied or 9-11-10 oc

bracing

REACTIONS 2=0-3-8, 7=0-3-8 (size)

Max Horiz 2=-42 (LC 17)

Max Uplift 2=-288 (LC 12), 7=-288 (LC 13)

Max Grav 2=1079 (LC 1), 7=1079 (LC 1) (lb) - Maximum Compression/Maximum

FORCES Tension

TOP CHORD 1-2=0/8, 2-3=-590/228, 3-4=-3520/1180,

4-5=-3132/1082. 5-6=-3372/1123.

6-7=-590/227, 7-8=0/8

BOT CHORD 2-12=-9/33, 3-12=-24/119, 3-11=-1031/3339,

10-11=-1012/3269, 6-10=-976/3197,

6-9=-24/119, 7-9=-9/33

WFRS 4-11=-205/748, 4-10=-235/90, 5-10=-187/704

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 4-8-0, Exterior(2E) 4-8-0 to 14-3-0 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
- 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 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.
- "NAILED" indicates Girder: 3-10d (0.148" x 3") toe-nails per NDS guidelines.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 310 Ib down and 128 lb up at 4-8-0, and 310 lb down and 128 lb up at 8-7-4 on bottom chord. The design/ selection of such connection device(s) is the responsibility of others.
- In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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

Plate Increase=1.15

Uniform Loads (lb/ft)

Vert: 1-3=-70, 3-4=-70, 4-5=-70, 5-6=-70, 6-8=-70,

2-12=-20, 3-6=-20, 7-9=-20

Concentrated Loads (lb)

Vert: 4=-52 (B), 5=-52 (B), 11=-310 (B), 10=-310 (B),

14=-52 (B), 16=-59 (B)



April 14,2023



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Job	Truss	Truss Type	Qty	Ply	Roof - Osage Lot 55	
P230180-01	E2	Roof Special	2	1	Job Reference (optional)	157758156

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries. Inc. Thu Apr 13 10:44:36 ID:WcRfdZXs?bG3GRhQ2QHdPbz1SCN-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1

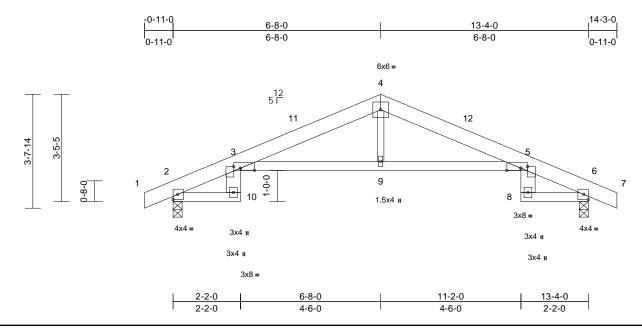


Plate Offsets (X, Y): [3:0-5-6,Edge], [3:0-0-10,0-2-9], [5:0-5-6,Edge], [5:0-0-10,0-2-9]

Loading	(psf)	Spacing	2-0-0	csı		DEFL	in	(loc)	l/defl	I /d	PLATES	GRIP
-		' .	1.15	TC	0.04	Vert(LL)		` '			MT20	197/144
TCLL (roof)	25.0	Plate Grip DOL		· -	0.81	- ()	-0.15	3-9	>999	-	-	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.90	Vert(CT)	-0.28	3-9	>565	180		
BCLL	0.0	Rep Stress Incr	NO	WB	0.08	Horz(CT)	0.26	6	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-SH							Weight: 55 lb	FT = 20%

LUMBER

TOP CHORD 2x6 SPF No.2

2x4 SP No.2 *Except* 10-3:2x6 SPF No.2, 5-8:2x6 SP 2400F 2.0E BOT CHORD

2x3 SPF No.2 WFBS

BRACING

TOP CHORD Sheathed or 4-10-5 oc purlins.

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

bracing.

REACTIONS (size) 2=0-3-8, 6=0-3-8

Max Horiz 2=-58 (LC 17)

Max Uplift 2=-109 (LC 12), 6=-109 (LC 13) Max Grav 2=661 (LC 1), 6=661 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/8, 2-3=-350/149, 3-4=-1192/384, 4-5=-1192/392, 5-6=-352/139, 6-7=0/8 **BOT CHORD** 2-10=-6/24, 3-10=-14/88, 3-9=-254/1110,

5-9=-254/1110, 5-8=-13/89, 6-8=-5/25

WFBS 4-9=0/264

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 6-8-0, Exterior(2R) 6-8-0 to 11-4-12, Interior (1) 11-4-12 to 14-3-0 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
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 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



April 14,2023



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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information

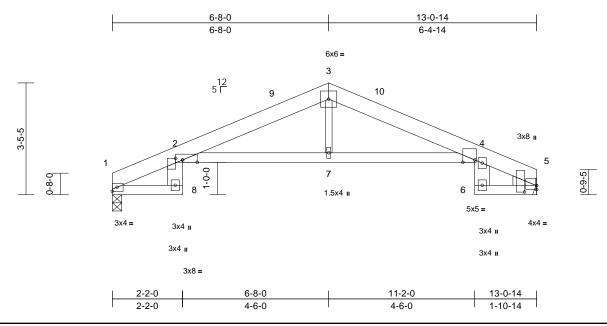
available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job	Truss	Truss Type	Qty	Ply	Roof - Osage Lot 55	
P230180-01	E3	Roof Special	4	1	Job Reference (optional)	I57758157

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries. Inc. Thu Apr 13 10:44:36 ID:Vc7t4F_eo7A0zc1yOlBpkhzaj1?-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:35.5

Plate Offsets (X, Y): [2:0-5-6,Edge], [2:0-0-10,0-2-9], [4:0-4-6,Edge], [5:Edge,0-1-7], [5:0-2-6,0-4-8]

Loading	(psf)	Spacing	2-0-0	csı		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.Ó	Plate Grip DOL	1.15	тс	0.84	Vert(LL)	-0.15	2-7	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.92	Vert(CT)	-0.27	2-7	>563	180		
BCLL	0.0	Rep Stress Incr	NO	WB	0.08	Horz(CT)	0.26	5	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-SH							Weight: 51 lb	FT = 20%

LUMBER

TOP CHORD 2x6 SPF No.2

BOT CHORD 2x4 SP No.2 *Except* 8-2,4-6:2x6 SPF No.2 2x3 SPF No 2

Right: 2x4 SP No.2 WEDGE

BRACING

WEBS

TOP CHORD Structural wood sheathing directly applied or

4-9-8 oc purlins.

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

bracing.

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

Max Horiz 1=56 (LC 12)

Max Uplift 1=-82 (LC 12), 5=-81 (LC 13) Max Grav 1=579 (LC 1), 5=579 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-353/152, 2-3=-1182/406, 3-4=-1187/418, 4-5=-377/151

BOT CHORD 1-8=-7/27, 2-8=-20/97, 2-7=-285/1102,

4-7=-285/1102, 4-6=-20/97, 5-6=-6/23

WEBS 3-7=0/261

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) 0-1-12 to 5-1-12, Interior (1) 5-1-12 to 6-8-0, Exterior(2R) 6-8-0 to 11-4-12, Interior (1) 11-4-12 to 13-0-2 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 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



April 14,2023



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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information

available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job	Truss	Truss Type	Qty	Ply	Roof - Osage Lot 55	
P230180-01	E5	Common Girder	2	2	Job Reference (optional)	157758158

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Thu Apr 13 10:44:36 ID:WcRfdZXs?bG3GRhQ2QHdPbz1SCN-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f Page: 1

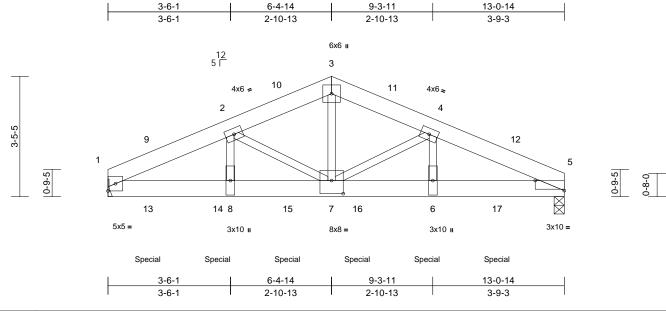


Plate Offsets (X, Y): [1:Edge,0-2-8], [5:0-10-0,Edge], [7:0-4-0,0-4-8]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	I /d	PLATES	GRIP
•		- 3						` '			_	
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.39	Vert(LL)	-0.07	6-7	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.52	Vert(CT)	-0.12	6-7	>999	180		
BCLL	0.0	Rep Stress Incr	NO	WB	0.77	Horz(CT)	0.04	5	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-SH							Weight: 131 lb	FT = 20%

LUMBER

Scale = 1:33

TOP CHORD 2x6 SPF No.2 **BOT CHORD** 2x6 SP 2400F 2.0E 2x3 SPF No.2 WEBS

BRACING

TOP CHORD Sheathed or 4-11-1 oc purlins.

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

bracing.

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

0-3-12)Max Horiz 1=-54 (LC 17)

Max Uplift 1=-727 (LC 12), 5=-669 (LC 13)

Max Grav 1=5223 (LC 1), 5=4791 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension

1-2=-8515/1409, 2-3=-6488/1121, 3-4=-6486/1120, 4-5=-8657/1435

BOT CHORD 1-8=-1222/7552, 7-8=-1222/7552,

6-7=-1239/7748 5-6=-1239/7748

2-8=-265/2217, 2-7=-1837/367, 3-7=-698/4472, 4-7=-2062/406,

4-6=-270/2258

NOTES

WEBS

TOP CHORD

- 2-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: 2x6 - 2 rows

staggered at 0-6-0 oc

Web connected as follows: 2x3 - 1 row at 0-9-0 oc, Except member 4-6 2x3 - 1 row at 0-2-0 oc.

- All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- Unbalanced roof live loads have been considered for 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) 0-0-12 to 5-0-12, Interior (1) 5-0-12 to 6-4-14, Exterior(2R) 6-4-14 to 11-4-14, Interior (1) 11-4-14 to 12-11-2 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- WARNING: Required bearing size at joint(s) 5 greater than input bearing size.
- 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.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1476 lb down and 205 lb up at 1-1-14, 1476 lb down and 205 lb up at 3-1-14, 1476 lb down and 205 lb up at 5-1-14, 1476 lb down and 205 lb up at 7-1-14, and 1476 lb down and 205 lb up at 9-1-14, and 1476 lb down and 205 lb up at 11-1-14 on bottom chord. The design/ selection of such connection device(s) is the responsibility of others.

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: 6=-1476 (F), 13=-1476 (F), 14=-1476 (F), 15=-1476 (F), 16=-1476 (F), 17=-1476 (F)

OF MISS SCOTT M. SEVIER NUMBER DESSIONAL DES PE-2001018807

April 14,2023



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AMSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job	Truss	Truss Type	Qty	Ply	Roof - Osage Lot 55	
P230180-01	J1	Jack-Open	8	1	Job Reference (optional)	157758159

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries. Inc. Thu Apr 13 10:44:37 ID:WcRfdZXs?bG3GRhQ2QHdPbz1SCN-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1









0-6-15

Scale = 1:30.7

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	0.10	Vert(LL)	0.00	5	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.02	Vert(CT)	0.00	5	>999	180		
BCLL	0.0	Rep Stress Incr	NO	WB	0.00	Horz(CT)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R							Weight: 4 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Sheathed or 0-6-15 oc purlins, except end

verticals.

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

bracing.

REACTIONS (size) 3= Mechanical, 4= Mechanical,

5=0-3-8

Max Horiz 5=24 (LC 9)

Max Uplift 3=-56 (LC 1), 4=-19 (LC 1), 5=-67 (LC 8)

Max Grav 3=25 (LC 8), 4=5 (LC 8), 5=187

(LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 2-5=-160/154, 1-2=0/29, 2-3=-33/19

BOT CHORD 4-5=0/0

NOTES

- 1) 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 DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 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



April 14,2023



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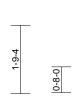
available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

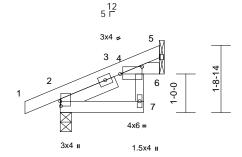


Job	Truss	Truss Type	Qty	Ply	Roof - Osage Lot 55	
P230180-01	J2	Jack-Open	8	1	Job Reference (optional)	157758160

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries. Inc. Thu Apr 13 10:44:37 ID:WcRfdZXs?bG3GRhQ2QHdPbz1SCN-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1







ı	2-2-0	2-6-15
	2-2-0	0-4-15

Scale = 1:29.9

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

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	0.16	Vert(LL)	0.00	7	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.09	Vert(CT)	-0.01	7	>999	180		
BCLL	0.0	Rep Stress Incr	NO	WB	0.00	Horz(CT)	0.00	6	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R							Weight: 13 lb	FT = 20%

LUMBER

SLIDER

TOP CHORD 2x4 SP No.2

BOT CHORD 2x4 SP No.2 *Except* 7-4:2x3 SPF No.2 Left 2x4 SP No.2 -- 1-6-8

BRACING

TOP CHORD Sheathed or 2-6-15 oc purlins.

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

bracing.

REACTIONS (size) 2=0-3-8, 5= Mechanical, 6=

Mechanical Max Horiz 2=60 (LC 12)

Max Uplift 2=-31 (LC 12), 5=-24 (LC 12), 6=-7

(LC 12)

2=192 (LC 1), 5=62 (LC 1), 6=49 Max Grav

(LC 3)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/1, 2-4=-57/23, 4-5=-25/22 BOT CHORD 2-7=-14/0, 4-7=0/41, 4-6=0/0

NOTES

- 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 DOI = 1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 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

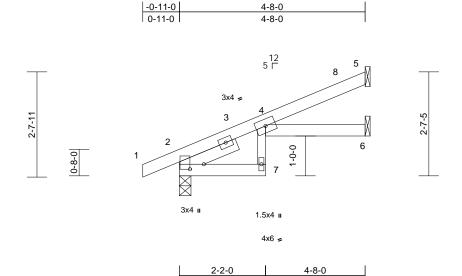


April 14,2023



Job	Truss	Truss Type	Qty	Ply	Roof - Osage Lot 55	
P230180-01	J3	Jack-Open	6	1	Job Reference (optional)	157758161

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Thu Apr 13 10:44:37 ID:WcRfdZXs?bG3GRhQ2QHdPbz1SCN-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1



Scale = 1:28.9

Plate Offsets (X, Y): [2:0-1-8,0-4-3]

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.	0.58	Vert(LL)	0.05	7	>999		MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.36	Vert(CT)	-0.07	7	>804	180	-	
BCLL	0.0	Rep Stress Incr	NO	WB	0.00	Horz(CT)	0.05	6	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R		l ` ´					Weight: 19 lb	FT = 20%

2-2-0

2-6-0

LUMBER

SLIDER

TOP CHORD 2x4 SP No.2

BOT CHORD 2x4 SP No.2 *Except* 7-4:2x3 SPF No.2 Left 2x4 SP No.2 -- 1-6-7

BRACING

TOP CHORD Sheathed or 4-8-0 oc purlins.

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

bracing.

REACTIONS (size) 2=0-3-8, 5= Mechanical, 6=

Mechanical Max Horiz 2=97 (LC 12)

2=-42 (LC 12), 5=-55 (LC 12), 6=-9 Max Uplift

(LC 12)

2=278 (LC 1), 5=122 (LC 1), 6=79 Max Grav

(LC 3)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/1, 2-4=-136/0, 4-5=-55/40 BOT CHORD 2-7=-10/14, 4-7=-20/57, 4-6=-6/6

NOTES

- 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 4-7-4 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.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 55 lb uplift at joint 5, 42 lb uplift at joint 2 and 9 lb uplift at joint 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



April 14,2023



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 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, DSB-89 and BCSI Building Component Safety Information

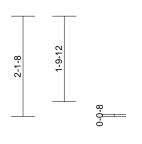
available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

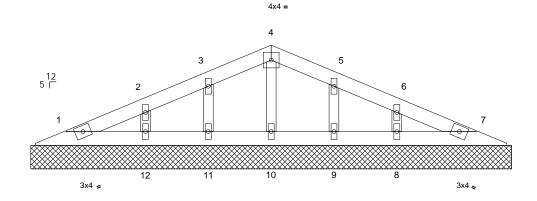


Jo	ob	Truss	Truss Type	Qty	Ply	Roof - Osage Lot 55	
P	230180-01	PB1	Piggyback	2	1	Job Reference (optional)	157758162

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries. Inc. Thu Apr 13 10:44:38 ID:WcRfdZXs?bG3GRhQ2QHdPbz1SCN-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f Page: 1

5-0-0	9-4-4	10-0-0
5-0-0	4-4-4	0-7-12





10-0-0

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	0.04	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.02	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	NO	WB	0.03	Horiz(TL)	0.00	7	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-SH							Weight: 32 lb	FT = 20%

LUMBER

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

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=10-2-6, 7=10-2-6, 8=10-2-6, 9=10-2-6, 10=10-2-6, 11=10-2-6,

12=10-2-6

Max Horiz 1=33 (LC 12) Max Uplift

1=-6 (LC 13), 7=-6 (LC 13), 8=-46 (LC 13), 9=-32 (LC 13), 11=-33 (LC

12), 12=-46 (LC 12)

1=65 (LC 1), 7=65 (LC 1), 8=159

Max Grav (LC 1), 9=114 (LC 26), 10=109 (LC

1), 11=114 (LC 25), 12=159 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

TOP CHORD

1-2=-44/27, 2-3=-29/37, 3-4=-35/72,

4-5=-35/75, 5-6=-29/40, 6-7=-33/19 **BOT CHORD** 1-12=-8/30, 11-12=-8/30, 10-11=-8/30,

9-10=-8/30, 8-9=-8/30, 7-8=-8/30

4-10=-80/15, 3-11=-94/92, 2-12=-115/115,

5-9=-94/75, 6-8=-115/94

WEBS 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 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.
- All plates are 1.5x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 1-4-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

LOAD CASE(S) Standard

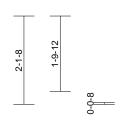


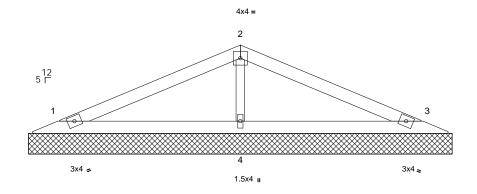


Job	Truss	Truss Type	Qty	Ply	Roof - Osage Lot 55	
P230180-01	PB2	Piggyback	28	1	Job Reference (optional)	7758163

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries. Inc. Thu Apr 13 10:44:38 ID:WcRfdZXs?bG3GRhQ2QHdPbz1SCN-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1







10-0-0

Scale = 1:27.7

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	0.32	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.21	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	NO	WB	0.05	Horiz(TL)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-SH							Weight: 30 lb	FT = 20%

LUMBER

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

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=10-2-6, 3=10-2-6, 4=10-2-6

Max Horiz 1=33 (LC 16)

Max Uplift 1=-38 (LC 12), 3=-44 (LC 13), 4=-36 (LC 12)

1=178 (LC 25), 3=178 (LC 26), Max Grav

4=436 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-92/56, 2-3=-92/61 **BOT CHORD** 1-4=0/35, 3-4=0/35

WEBS 2-4=-284/191

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) zone; cantilever left and right exposed; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

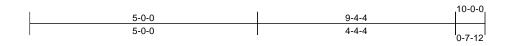
LOAD CASE(S) Standard

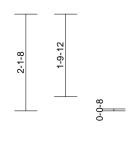
OF MISS SCOTT M. SEVIER NUMBER PE-2001018807 SSIONAL

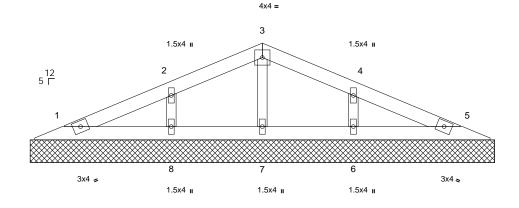


J	ob	Truss	Truss Type	Qty	Ply	Roof - Osage Lot 55	
P	230180-01	PB3	Piggyback	2	1	Job Reference (optional)	157758164

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries. Inc. Thu Apr 13 10:44:38 ID:WcRfdZXs?bG3GRhQ2QHdPbz1SCN-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f Page: 1







10-0-0

Scale	a = '	1.25	3

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	0.09	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.05	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	NO	WB	0.04	Horiz(TL)	0.00	5	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 2x3 SPF No.2 **OTHERS**

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=10-2-6, 5=10-2-6, 6=10-2-6,

7=10-2-6, 8=10-2-6

Max Horiz 1=33 (LC 16)

Max Uplift 1=-7 (LC 12), 5=-13 (LC 13), 6=-69

(LC 13), 8=-69 (LC 12)

1=89 (LC 1), 5=89 (LC 1), 6=238 (LC 26), 7=132 (LC 1), 8=238 (LC

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-48/36, 2-3=-44/70, 3-4=-44/73,

4-5=-40/28

BOT CHORD 1-8=-7/28, 7-8=-7/28, 6-7=-7/28, 5-6=-7/28 WEBS 3-7=-104/38, 2-8=-177/173, 4-6=-177/140

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 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 is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

LOAD CASE(S) Standard







Job	Truss	Truss Type	Qty	Ply	Roof - Osage Lot 55	
P230180-01	V1	Valley	2	1	Job Reference (optional)	I57758165

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Thu Apr 13 10:44:39 ID:k_8Ssu7U3alQg2CQbGVU?UzRLXc-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f Page: 1

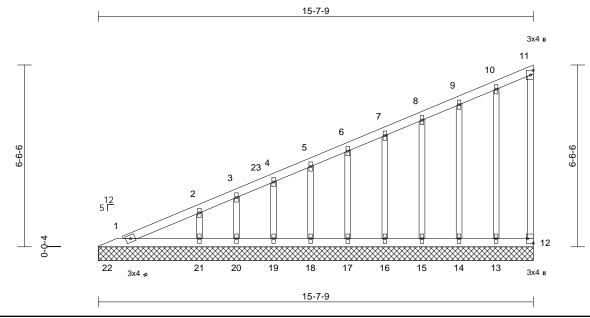


Plate Offsets (X, Y): [12:Edge,0-2-8]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.41	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	0.08	Horiz(TL)	0.00	12	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-SH							Weight: 75 lb	FT = 20%

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

BRACING TOP CHORD

Scale = 1:41.4

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

BOT CHORD Rigid ceiling directly applied or 9-0-13 oc

bracing.

REACTIONS (size) 1=15-7-9, 12=15-7-9, 13=15-7-9, 14=15-7-9, 15=15-7-9, 16=15-7-9, 17=15-7-9, 18=15-7-9, 19=15-7-9, 20=15-7-9, 21=15-7-9, 22=15-7-9

Max Horiz 22=280 (LC 9)

Max Uplift 12=-35 (LC 11), 13=-45 (LC 12), 14=-25 (LC 12), 15=-38 (LC 12), 16=-33 (LC 12), 17=-34 (LC 12),

18=-34 (LC 12), 19=-36 (LC 12), 20=-25 (LC 12), 21=-67 (LC 12),

22=-71 (LC 1)

Max Grav 1=208 (LC 20), 12=47 (LC 1), 13=123 (LC 1), 14=122 (LC 1), 15=120 (LC 1), 16=120 (LC 1),

17=120 (LC 1), 18=119 (LC 1), 19=128 (LC 1), 20=83 (LC 1),

21=214 (LC 1), 22=27 (LC 12)

FORCES (lb) - Maximum Compression/Maximum Tension 1-2=-365/204, 2-3=-312/174, 3-4=-290/169, TOP CHORD

4-5=-262/158, 5-6=-236/148, 6-7=-209/137, 7-8=-180/127, 8-9=-151/117, 9-10=-121/107, 10-11=-92/92, 11-12=-40/42

LOAD CASE(S) Standard

BOT CHORD 1-22=-425/267, 1-21=-107/117,

20-21=-107/117, 19-20=-107/117, 18-19=-107/117, 17-18=-107/117, 16-17=-107/117, 15-16=-107/117, 14-15=-107/117, 13-14=-107/117,

12-13=-107/117

WEBS 10-13=-105/106, 9-14=-95/61, 8-15=-93/61,

7-16=-93/58, 6-17=-93/54, 5-18=-93/53, 4-19=-98/58, 3-20=-69/46, 2-21=-160/110

NOTES

- 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) 0-11-6 to 5-11-6, Interior (1) 5-11-6 to 15-6-15 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 1-4-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.







WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

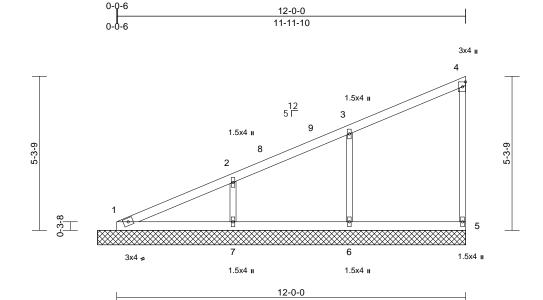
Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chorembers 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

AMSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job		Truss	Truss Type	Qty	Ply	Roof - Osage Lot 55	
P230180-0	1	V2	Valley	2	1	Job Reference (optional)	157758166

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Thu Apr 13 10:44:39 ID:WcRfdZXs?bG3GRhQ2QHdPbz1SCN-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f Page: 1



Scale = 1:39.6

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	0.14	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	NO	WB	0.09	Horiz(TL)	0.00	5	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-SH							Weight: 45 lb	FT = 20%

LUMBER

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

BRACING

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

verticals.

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

bracing.

REACTIONS (size) 1=12-7-15, 5=12-7-15, 6=12-7-15, 7=12-7-15

Max Horiz 1=224 (LC 9)

Max Uplift 5=-32 (LC 9), 6=-109 (LC 12),

7=-114 (LC 12)

Max Grav 1=147 (LC 20), 5=144 (LC 1),

6=384 (LC 1), 7=391 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=-308/182, 2-3=-219/141, 3-4=-118/90,

4-5=-110/101

BOT CHORD 1-7=-86/96, 6-7=-86/96, 5-6=-86/96 WEBS 3-6=-303/238, 2-7=-290/216

NOTES

- 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) 0-10-5 to 5-10-5, Interior (1) 5-10-5 to 12-7-5 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.

- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- This truss 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



April 14,2023



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

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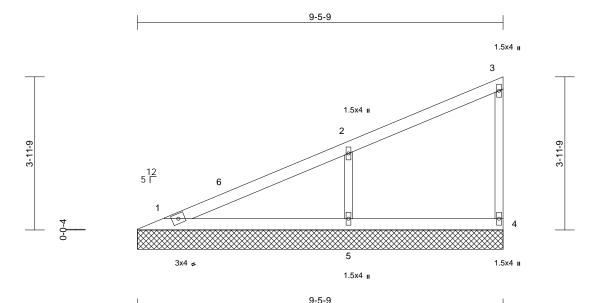
ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information

available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job	Truss	Truss Type	Qty	Ply	Roof - Osage Lot 55	
P230180-01	V3	Valley	2	1	Job Reference (optional)	I57758167

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Thu Apr 13 10:44:39 ID:WcRfdZXs?bG3GRhQ2QHdPbz1SCN-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f Page: 1



Scale = 1:29.8

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	0.38	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	0.07	Horiz(TL)	0.00	4	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-SH							Weight: 32 lb	FT = 20%

LUMBER

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

BRACING

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

verticals.

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

bracing.

REACTIONS (size) 1=9-5-9, 4=9-5-9, 5=9-5-9

Max Horiz 1=164 (LC 9)

Max Uplift 1=-1 (LC 12), 4=-25 (LC 9), 5=-138

(LC 12)

1=171 (LC 1), 4=123 (LC 1), 5=485 Max Grav

(LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=-234/143, 2-3=-107/73, 3-4=-99/102 **BOT CHORD** 1-5=-64/73, 4-5=-64/73

2-5=-360/300

WEBS NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) 1) 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) 0-9-1 to 5-6-3, Interior (1) 5-6-3 to 9-4-15 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

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



April 14,2023



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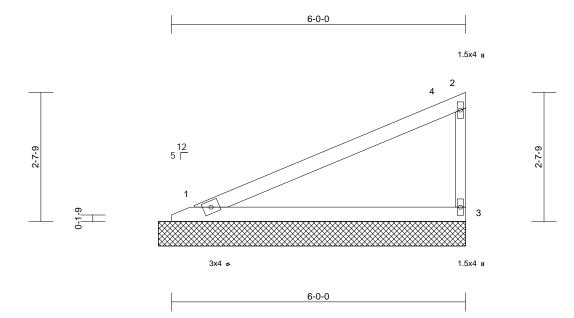
ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information

available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job	Truss	Truss Type	Qty	Ply	Roof - Osage Lot 55	
P230180-01	V4	Valley	2	1	Job Reference (optional)	157758168

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries. Inc. Thu Apr 13 10:44:40 ID:WcRfdZXs?bG3GRhQ2QHdPbz1SCN-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f Page: 1



Scale = 1:23.5

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	0.79	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.41	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: 19 lb	FT = 20%

LUMBER

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

BRACING

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

verticals.

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

bracing.

REACTIONS (size) 1=6-3-3, 3=6-3-3

Max Horiz 1=103 (LC 9)

Max Uplift 1=-39 (LC 12), 3=-60 (LC 12) Max Grav 1=244 (LC 1), 3=244 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-133/91, 2-3=-190/209

BOT CHORD 1-3=-45/49

NOTES

- 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) 0-9-8 to 5-9-8, Interior (1) 5-9-8 to 6-2-8 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.
- 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 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



April 14,2023



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

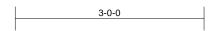
Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chorembers 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

AMSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

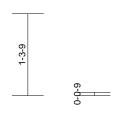


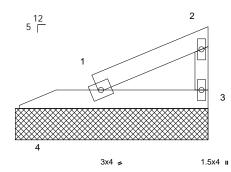
Job	Truss	Truss Type	Qty	Ply	Roof - Osage Lot 55	
P230180-01	V5	Valley	2	1	Job Reference (optional)	157758169

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries. Inc. Thu Apr 13 10:44:40 ID:WcRfdZXs?bG3GRhQ2QHdPbz1SCN-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1



1.5x4 II







3-0-0

Scale = 1:18.3

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	0.06	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.02	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: 8 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Sheathed or 3-1-6 oc purlins, except end

verticals.

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

bracing.

REACTIONS (size) 1=3-0-12, 3=3-0-12, 4=3-0-12

Max Horiz 4=43 (LC 9) Max Uplift 3=-23 (LC 12)

Max Grav 1=92 (LC 1), 3=71 (LC 1), 4=9 (LC

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-60/40, 2-3=-58/78 BOT CHORD 1-4=-96/58, 1-3=-19/21

NOTES

- 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 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 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



April 14,2023

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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information

available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



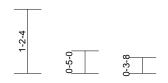
16023 Swingley Ridge Rd Chesterfield, MO 63017

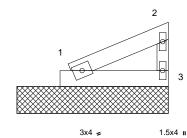
Job	Truss	Truss Type	Qty	Ply	Roof - Osage Lot 55	
P230180-01	V6	Valley	2	1	Job Reference (optional)	157758170

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries. Inc. Thu Apr 13 10:44:40 ID:WcRfdZXs?bG3GRhQ2QHdPbz1SCN-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f Page: 1











2-0-0

Scal	Α:	= 1	.21	3

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	0.06	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.03	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	NO	WB	0.00	Horiz(TL)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 6 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Sheathed or 2-10-3 oc purlins, except end

verticals.

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

bracing.

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

Max Horiz 1=38 (LC 9)

Max Uplift 1=-11 (LC 12), 3=-20 (LC 12) Max Grav 1=76 (LC 1), 3=76 (LC 1) (lb) - Maximum Compression/Maximum

FORCES

Tension

TOP CHORD 1-2=-51/34, 2-3=-59/73 BOT CHORD 1-3=-17/18

NOTES

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

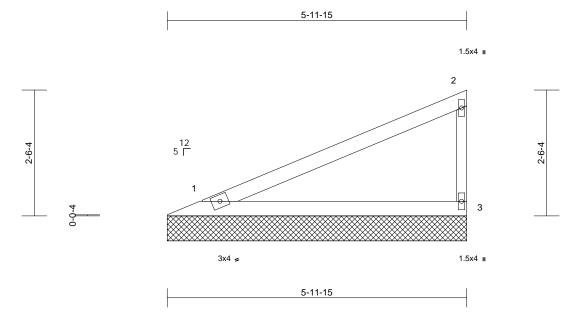
LOAD CASE(S) Standard





Job	Truss	Truss Type	Qty	Ply	Roof - Osage Lot 55	
P230180-01	V7	Valley	2	1	Job Reference (optional)	I57758171

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries. Inc. Thu Apr 13 10:44:40 ID:WcRfdZXs?bG3GRhQ2QHdPbz1SCN-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f Page: 1



Scale = 1:23.1

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.72	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.37	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: 19 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Sheathed or 6-0-9 oc purlins, except end

verticals.

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

bracing.

REACTIONS (size) 1=5-11-15, 3=5-11-15

Max Horiz 1=98 (LC 9)

Max Uplift 1=-37 (LC 12), 3=-57 (LC 12) Max Grav 1=233 (LC 1), 3=233 (LC 1) (lb) - Maximum Compression/Maximum

FORCES

Tension

TOP CHORD 1-2=-126/86, 2-3=-182/200 BOT CHORD 1-3=-43/46

NOTES

- 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 DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

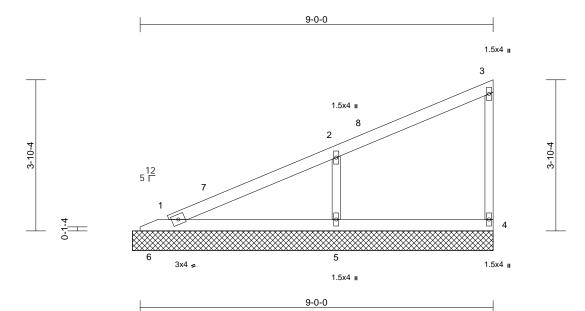
LOAD CASE(S) Standard





Job	Truss	Truss Type Qty Ply Roof - Osage Lot 55		Roof - Osage Lot 55		
P230180-01	V8	Valley	1	1	Job Reference (optional)	157758172

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries. Inc. Thu Apr 13 10:44:41 ID:WcRfdZXs?bG3GRhQ2QHdPbz1SCN-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f Page: 1



Scale = 1:29.4

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	0.37	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.16	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	NO	WB	0.08	Horiz(TL)	0.00	4	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 2x3 SPF No.2 WEBS 2x3 SPF No.2 OTHERS

BRACING

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

verticals.

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

bracing.

REACTIONS (size) 1=9-2-6, 4=9-2-6, 5=9-2-6, 6=9-2-6

Max Horiz 6=159 (LC 9)

Max Uplift 4=-24 (LC 9), 5=-139 (LC 12),

6=-88 (LC 3)

1=221 (LC 3), 4=129 (LC 1), 5=450 Max Grav

(LC 1), 6=-26 (LC 8)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-242/148, 2-3=-104/77, 3-4=-99/105

1-6=-299/184, 1-5=-65/71, 4-5=-65/71 **BOT CHORD**

WEBS 2-5=-357/315

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) 1) 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) 0-11-13 to 5-11-13, Interior (1) 5-11-13 to 9-1-11 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

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.

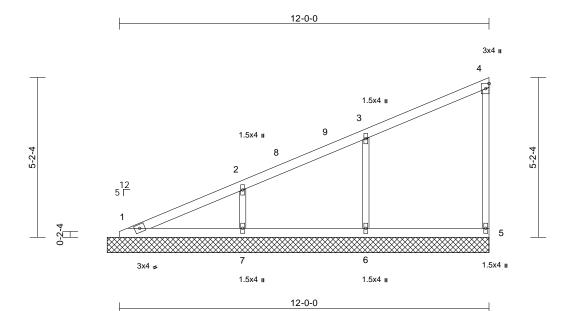
LOAD CASE(S) Standard





Job	Truss	Truss Type	Qty	Ply	Roof - Osage Lot 55	
P230180-01	V9	Valley	1	1	Job Reference (optional)	

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries. Inc. Thu Apr 13 10:44:41 ID:WcRfdZXs?bG3GRhQ2QHdPbz1SCN-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f Page: 1



Scal	le	=	1	:37	. 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	0.27	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	0.09	Horiz(TL)	0.00	5	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-SH							Weight: 44 lb	FT = 20%

LUMBER

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

BRACING

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

verticals.

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

bracing.

REACTIONS (size) 1=12-4-12, 5=12-4-12, 6=12-4-12,

7=12-4-12 Max Horiz 1=219 (LC 9)

Max Uplift 5=-32 (LC 9), 6=-110 (LC 12),

7=-109 (LC 12)

Max Grav 1=140 (LC 20), 5=143 (LC 1),

6=387 (LC 1), 7=381 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=-302/177, 2-3=-218/139, 3-4=-117/88,

4-5=-110/101

BOT CHORD 1-7=-84/93, 6-7=-84/93, 5-6=-84/93 WEBS 3-6=-305/238, 2-7=-283/210

NOTES

- 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) 0-9-1 to 5-9-1, Interior (1) 5-9-1 to 12-4-2 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.

- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- This truss 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 55	
P230180-01	V10	Valley	1	1	Job Reference (optional)	7758174

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Thu Apr 13 10:44:41 ID:WcRfdZXs?bG3GRhQ2QHdPbz1SCN-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f Page: 1

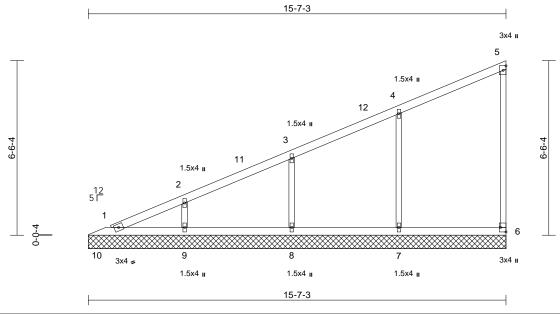


Plate Offsets (X, Y): [6:Edge,0-2-8]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.43	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	0.16	Horiz(TL)	0.00	6	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-SH							Weight: 58 lb	FT = 20%

LUMBER

Scale = 1:43

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

BRACING

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

verticals

BOT CHORD Rigid ceiling directly applied or 9-1-5 oc

bracing.

REACTIONS (size) 1=15-7-3, 6=15-7-3, 7=15-7-3,

8=15-7-3, 9=15-7-3, 10=15-7-3 10=279 (LC 9) Max Horiz

Max Uplift

6=-37 (LC 9), 7=-111 (LC 12), 8=-102 (LC 12), 9=-97 (LC 12),

10=-43 (LC 1)

1=169 (LC 20), 6=142 (LC 1), Max Grav

7=393 (LC 1), 8=360 (LC 1), 9=325

(LC 1), 10=19 (LC 12)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-369/207, 2-3=-294/178, 3-4=-216/148,

4-5=-130/100, 5-6=-110/90

1-10=-424/266, 1-9=-105/116, 8-9=-105/116,

7-8=-105/116, 6-7=-105/116 WEBS

4-7=-306/215, 3-8=-280/172, 2-9=-251/168

NOTES

BOT CHORD

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) 0-10-14 to 5-10-14, Interior (1) 5-10-14 to 15-6-8 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.
- 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 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

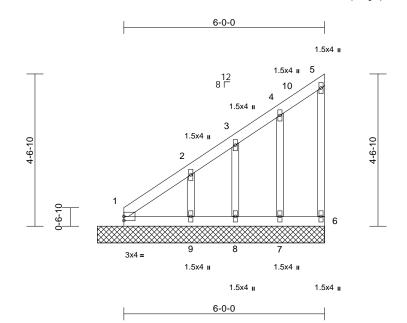






Job	Truss	Truss Type	Qty	Ply	Roof - Osage Lot 55	
P230180-01	V11	Valley	1	1	Job Reference (optional)	

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Scal	le :	= 1	:34	1.5

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	0.34	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.03	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	NO	WB	0.05	Horiz(TL)	0.00	6	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 28 lb	FT = 20%

LUMBER

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

BRACING

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

verticals.

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

bracing.

REACTIONS (size) 1=6-9-9, 6=6-9-9, 7=6-9-9,

8=6-9-9, 9=6-9-9 Max Horiz 1=172 (LC 9)

Max Uplift 1=-28 (LC 8), 6=-29 (LC 9), 7=-50

(LC 12), 8=-43 (LC 12), 9=-95 (LC

12)

1=117 (LC 20), 6=57 (LC 19), Max Grav

7=134 (LC 19), 8=109 (LC 19),

9=191 (LC 19)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-346/222, 2-3=-216/149, 3-4=-162/126,

4-5=-96/91, 5-6=-71/73

BOT CHORD 1-9=-82/89, 8-9=-82/89, 7-8=-82/89,

6-7=-82/89

4-7=-105/103, 3-8=-87/82, 2-9=-152/192

WEBS NOTES

- 1) 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) 0-11-11 to 5-11-11, Interior (1) 5-11-11 to 6-8-11 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 1-4-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

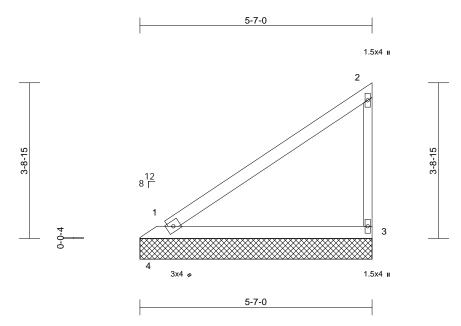
LOAD CASE(S) Standard





	Job	Truss	Truss Type	Qty	Ply	Roof - Osage Lot 55	
١	P230180-01	V12	Valley	1	1	Job Reference (optional)	157758176

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Scal	le	=	1	:27	

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	0.62	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.23	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	NO	WB	0.00	Horiz(TL)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 20 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Sheathed or 5-7-7 oc purlins, except end

verticals.

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

bracing.

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

Max Horiz 4=138 (LC 9)

Max Uplift 3=-76 (LC 12), 4=-213 (LC 3) 1=398 (LC 3), 3=225 (LC 19), Max Grav

4=-64 (LC 8)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-190/141, 2-3=-188/213 BOT CHORD 1-4=-289/196, 1-3=-66/72

NOTES

- 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 DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

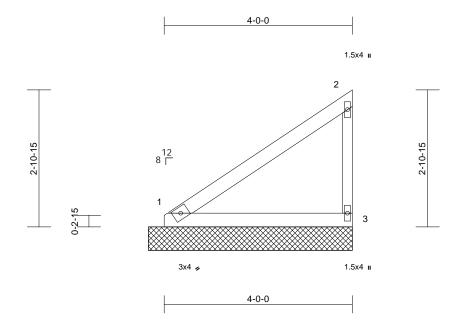
LOAD CASE(S) Standard





	Job	Truss	Truss Type	Qty	Ply	Roof - Osage Lot 55	
١	P230180-01	V13	Valley	1	1	Job Reference (optional)	157758177

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Scale = 1:24.5

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	0.36	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.18	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: 15 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Sheathed or 4-4-7 oc purlins, except end

verticals.

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

bracing.

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

Max Horiz 1=104 (LC 9)

Max Uplift 1=-16 (LC 12), 3=-53 (LC 12) Max Grav 1=169 (LC 1), 3=183 (LC 19)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=-146/108, 2-3=-145/169

BOT CHORD 1-3=-50/55

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) 1) 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 DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

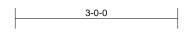
LOAD CASE(S) Standard



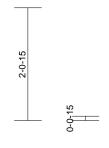


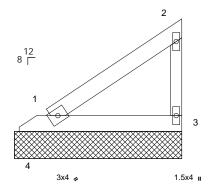
Job	Truss	Truss Type	Qty	Ply	Roof - Osage Lot 55	
P230180-01	V14	Valley	1	1	Job Reference (optional)	157758178

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1.5x4 II







3-0-0

Scale = 1:21.2

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.13	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.05	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	NO	WB	0.00	Horiz(TL)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 10 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Sheathed or 3-1-7 oc purlins, except end verticals.

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

bracing.

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

Max Horiz 4=70 (LC 9)

Max Uplift 3=-37 (LC 12), 4=-45 (LC 3) 1=141 (LC 3), 3=110 (LC 19), Max Grav

4=-14 (LC 8)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-102/76, 2-3=-97/117 BOT CHORD 1-4=-155/104, 1-3=-34/36

NOTES

- 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 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 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



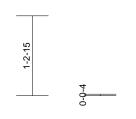


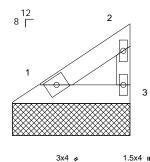
Job		Truss	Truss Type	Qty	Ply	Roof - Osage Lot 55	
P230180-0	1	V15	Valley	1	1	Job Reference (optional)	157758179

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1.5x4 II







1-10-1

Scale = 1:18

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	0.04	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.02	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: 6 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Sheathed or 1-10-7 oc purlins, except end

verticals.

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

bracing.

REACTIONS (size) 1=1-10-1, 3=1-10-1

Max Horiz 1=35 (LC 9)

Max Uplift 1=-6 (LC 12), 3=-18 (LC 12) Max Grav 1=58 (LC 1), 3=62 (LC 19) (lb) - Maximum Compression/Maximum

FORCES Tension

TOP CHORD 1-2=-51/39, 2-3=-53/61

BOT CHORD 1-3=-17/18

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) 1) 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 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 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



April 14,2023



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 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 chorembers 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

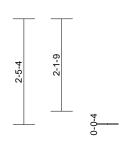
AMSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

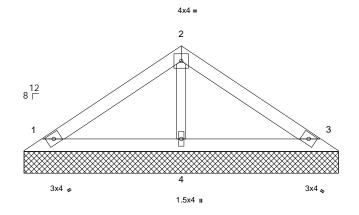


Job	Truss	Truss Type	Qty	Ply	Roof - Osage Lot 55	
P230180-01	V16	Valley	1	1	Job Reference (optional)	157758180

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7-3-1

Scale = 1:26.6

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.25	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.11	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	NO	WB	0.03	Horiz(TL)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 24 lb	FT = 20%

LUMBER

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

BRACING

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

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

bracing.

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

Max Horiz 1=57 (LC 9)

Max Uplift 1=-38 (LC 12), 3=-45 (LC 13) 1=161 (LC 1), 3=161 (LC 1), 4=250 Max Grav

(LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-100/60, 2-3=-96/60 BOT CHORD 1-4=-12/47, 3-4=-12/47

WEBS 2-4=-171/91

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 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 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

7) This truss 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



April 14,2023



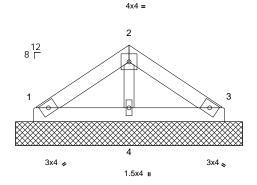
Job	Truss	Truss Type	Qty	Ply	Roof - Osage Lot 55	
P230180-01	V17	Valley	1	1	Job Reference (optional)	157758181

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries. Inc. Thu Apr 13 10:44:43 ID:WcRfdZXs?bG3GRhQ2QHdPbz1SCN-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1









Scale = 1:24.1

	 	 	 Т
	4-0-0		

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	0.08	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.04	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	NO	WB	0.02	Horiz(TL)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 14 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Sheathed or 4-9-13 oc purlins.

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

bracing.

REACTIONS (size) 1=4-9-1, 3=4-9-1, 4=4-9-1

Max Horiz 1=-35 (LC 10)

Max Uplift 1=-22 (LC 12), 3=-27 (LC 13) 1=95 (LC 1), 3=95 (LC 1), 4=144 Max Grav

(LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-61/41, 2-3=-58/41 BOT CHORD 1-4=-7/29, 3-4=-7/29

2-4=-97/60 **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=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.
- 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.

7) 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.

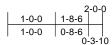
LOAD CASE(S) Standard

OF MISS SCOTT M. SEVIER NUMBER PE-2001018807



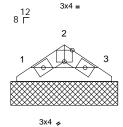
Job	Truss	Truss Type	Qty	Ply	Roof - Osage Lot 55	
P230180-01	V18	Valley	1	1	Job Reference (optional)	157758182

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries. Inc. Thu Apr 13 10:44:43 ID:WcRfdZXs?bG3GRhQ2QHdPbz1SCN-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1









3x4 🏎

2-0-0

Scale = 1:24.3

Plate Offsets (X, Y): [2:0-2-0,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	0.01	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.02	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: 5 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Sheathed or 2-3-13 oc purlins.

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

bracing.

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

Max Horiz 1=-12 (LC 8)

Max Uplift 1=-8 (LC 12), 3=-8 (LC 13) Max Grav 1=61 (LC 1), 3=61 (LC 1) (lb) - Maximum Compression/Maximum

FORCES Tension

1-2=-53/36, 2-3=-53/36 TOP CHORD

BOT CHORD 1-3=-13/36

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) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) Gable requires continuous bottom chord bearing.
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 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



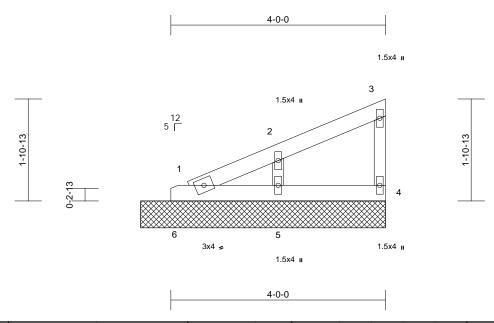


Ply Qty Job Truss Truss Type Roof - Osage Lot 55 157758183 P230180-01 V19 Valley Job Reference (optional)

Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083,

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Thu Apr 13 10:44:44 ID:XO6fujX7NdLVJ9Ym54gbBpzb0C8-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:21.5

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	0.07	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.03	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	NO	WB	0.04	Horiz(TL)	0.00	4	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 13 lb	FT = 20%

LUMBER

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

TOP CHORD

OTHERS BRACING

4-6-12 oc purlins, except end verticals. Rigid ceiling directly applied or 10-0-0 oc **BOT CHORD**

bracing.

REACTIONS (size) 1=4-6-12, 4=4-6-12, 5=4-6-12,

6=4-6-12 Max Horiz 6=70 (LC 9)

Max Uplift 4=-12 (LC 12), 5=-60 (LC 12),

6=-15 (LC 3)

1=69 (LC 20), 4=67 (LC 1), 5=197 Max Grav

Structural wood sheathing directly applied or

(LC 1), 6=-5 (LC 8)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-129/77, 2-3=-53/40, 3-4=-52/64 **BOT CHORD** 1-6=-158/95, 1-5=-31/34, 4-5=-31/34

2-5=-155/171 WEBS

NOTES

- 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 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 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



April 14,2023



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 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, DSB-89 and BCSI Building Component Safety Information

available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

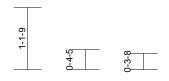


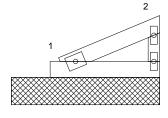
Job	Т	Truss	Truss Type	Qty	Ply	Roof - Osage Lot 55	
P230180-01	V	V20	Valley	1	1	Job Reference (optional)	157758184

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries. Inc. Thu Apr 13 10:44:44 ID: xzonWIZ0fYj4AcGLmCEIpSzb0C5-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?ff











Page: 1

3x4 =

1.5x4 II

2-0-0

Scale = 1:21.1

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.07	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.03	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	NO	WB	0.00	Horiz(TL)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 6 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 2-8-8 oc purlins, except end verticals. BOT CHORD Rigid ceiling directly applied or 10-0-0 oc

bracing.

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

Max Horiz 1=35 (LC 11)

Max Uplift 1=-12 (LC 12), 3=-19 (LC 12) Max Grav 1=77 (LC 1), 3=77 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-47/32, 2-3=-60/71

BOT CHORD 1-3=-16/17

NOTES

- 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 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 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



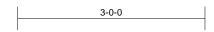
April 14,2023



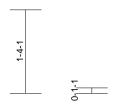
Qty Job Truss Truss Type Ply Roof - Osage Lot 55 157758185 P230180-01 V21 Valley 2 Job Reference (optional)

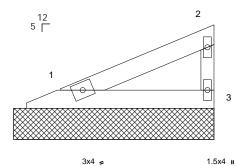
Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083,

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Thu Apr 13 10:44:44 ID:uLwYxRbGBAzoPwQkudGmutzb0C3-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1



1.5x4 II







3-0-0

Scale = 1:18.5

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	0.13	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.07	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: 9 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 3-2-8 oc purlins, except end verticals. BOT CHORD Rigid ceiling directly applied or 10-0-0 oc

bracing.

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

Max Horiz 1=45 (LC 9)

Max Uplift 1=-17 (LC 12), 3=-26 (LC 12) Max Grav 1=106 (LC 1), 3=106 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-59/40, 2-3=-82/94

BOT CHORD 1-3=-20/21

NOTES

- 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 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 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



April 14,2023



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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information

available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

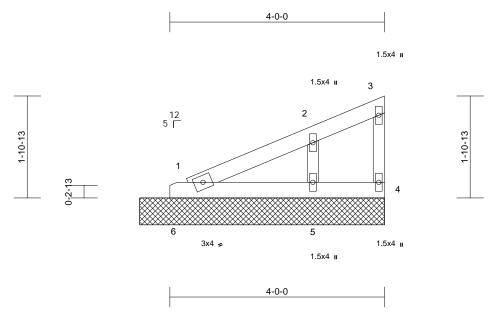


16023 Swingley Ridge Rd Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Roof - Osage Lot 55	
P230180-01	V22	Valley	1	1	Job Reference (optional)	157758186

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries. Inc. Thu Apr 13 10:44:44 ID:m793noenFOTEuXkV7TLi2jzb0C?-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:21.5

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	0.09	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.04	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	NO	WB	0.05	Horiz(TL)	0.00	4	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 14 lb	FT = 20%

LUMBER

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

TOP CHORD

OTHERS BRACING

4-6-12 oc purlins, except end verticals. Rigid ceiling directly applied or 10-0-0 oc **BOT CHORD**

bracing.

REACTIONS (size) 1=4-6-12, 4=4-6-12, 5=4-6-12, 6=4-6-12

Max Horiz 6=70 (LC 9)

Max Uplift 4=-6 (LC 9), 5=-67 (LC 12), 6=-60

Structural wood sheathing directly applied or

(LC 3)

1=138 (LC 3), 4=22 (LC 1), 5=208 Max Grav

(LC 1), 6=-18 (LC 8)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-118/74, 2-3=-42/30, 3-4=-22/25

BOT CHORD 1-6=-158/95, 1-5=-31/34, 4-5=-31/34

2-5=-167/183 WEBS

NOTES

- 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 DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 1-4-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

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



April 14,2023



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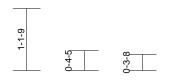


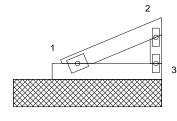
ſ	Job	Truss	Truss Type	Qty	Ply	Roof - Osage Lot 55	
	P230180-01	V23	Valley	1	1	Job Reference (optional)	157758187

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Thu Apr 13 10:44:45 ID:iVHpBUf1n0kx8ruuEuNA88zb0Bz-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f











Page: 1

3x4 = 1.5x4 II

2-0-0

Scale	= '	1.21	1

Loading	(psf)	Spacing	2-0-0	csı		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.07	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.03	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	NO	WB	0.00	Horiz(TL)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 6 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 2-8-8 oc purlins, except end verticals. BOT CHORD Rigid ceiling directly applied or 10-0-0 oc

bracing.

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

Max Horiz 1=35 (LC 9)

Max Uplift 1=-12 (LC 12), 3=-19 (LC 12) Max Grav 1=77 (LC 1), 3=77 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-47/32, 2-3=-60/71

BOT CHORD 1-3=-16/17

NOTES

- 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 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 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



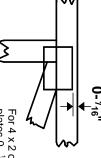


Symbols

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- ¹/16" from outside edge of truss.

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

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

PLATE SIZE



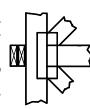
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING LOCATION



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

BEARING



Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur.

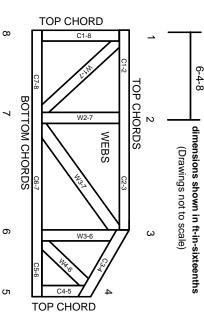
Min size shown is for crushing only

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 & Bracing of Metal Plate Connected Wood Trusses.

ANSI/TPI1: DSB-89:

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

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. 5/19/2020

General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

- Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI
- Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves may require bracing, or alternative Tor I bracing should be considered.
- Never exceed the design loading shown and never stack materials on inadequately braced trusses.

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

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

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- Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber
- Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
- Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
- Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
- Top chords must be sheathed or purlins provided at spacing indicated on design.
- Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
- Connections not shown are the responsibility of others.
- Do not cut or alter truss member or plate without prior approval of an engineer.
- 17. 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.
- 21. The design does not take into account any dynamic or other loads other than those expressly stated.