

RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW **DEVELOPMENT SERVICES** LEE'S SUMMIT, MISSOURI

06/11/2024

RE: P240539-01

Roof - Osage Lot 79

MiTek, Inc.

16023 Swingley Ridge Rd. Chesterfield, MO 63017

314.434.1200

Site Information:

Customer: Clayton Properties Project Name: P240539-01 Lot/Block: 79 Model:

Address: 3716/3718 SW Knoxville Ct OS Isoth Tollivision: Osage

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 Floor Load: N/A psf Roof Load: 45.0 psf

This package includes 17 individual, dated Truss Design Drawings and 0 Additional Drawings.

No.	Seal#	Truss Name	Date
1	l61197917	A1	10/6/2023
2	l61197918	A2	10/6/2023
3	l61197919	A3	10/6/2023
4	l61197920	A4	10/6/2023
5	l61197921	B1	10/6/2023
6	161197922	B2	10/6/2023
7	l61197923	C1	10/6/2023
8	l61197924	C2	10/6/2023
9	161197925	C3	10/6/2023
10	161197926	C4	10/6/2023
11	161197927	E1	10/6/2023
12	l61197928	E2	10/6/2023
13	l61197929	G1A	10/6/2023
14	l61197930	G2A	10/6/2023
15	161197931	V5	10/6/2023
16	l61197932	V6	10/6/2023
17	l61197933	V7	10/6/2023

The truss drawing(s) referenced above have been prepared by

MiTek USA, Inc under my direct supervision

based on the parameters provided by .

Truss Design Engineer's Name: Sevier, Scott

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

Missouri COA: 001193

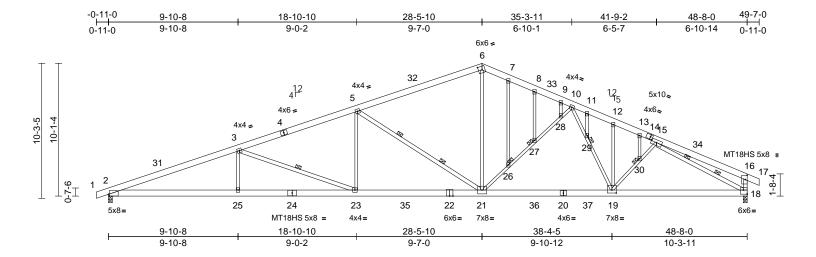
IMPORTANT NOTE: The seal on these truss component designs is a certification that the engineer named is licensed in the jurisdiction(s) identified and that the designs comply with ANSI/TPI 1. These designs are based upon parameters shown (e.g., loads, supports, dimensions, shapes and design codes), which were given to MiTek. Any project specific information included is for MiTek customers file reference purpose only, and was not taken into account in the preparation of these designs. MiTek 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.



Job	Truss	Truss Type	Qty	Ply	Roof - Osage Lot 79	
P240539-01	A1	Roof Special Structural Gable	1	1	Job Reference (optional)	

Run: 8.63 S Aug 30 2023 Print: 8.630 S Aug 30 2023 MiTek Industries, Inc. Ved Oct 1416 924 ID:1FL_5cO5javKO0N85pK5gdz_bwQ-RfC?PsB70Hq3NSgPqnL8w3uITXbG WrCDoiw4220 ff

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 161197917 LEE'S SUMMIT. MISSOURI



Scale = 1:87.8

Plate Offsets (X, Y): [2:0-0-14,Edge], [6:0-3-5,0-3-4], [14:0-2-2,0-2-0], [16:0-4-0,0-1-12], [18:Edge,0-3-12], [19:0-4-0,0-2-12]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)		Plate Grip DOL	1.15	TC	0.60	Vert(LL)	-0.45	19-21	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.50	Vert(CT)	-0.73	19-21	>794	180	MT18HS	197/144
BCLL	0.0*	Rep Stress Incr	YES	WB	0.81	Horz(CT)	0.15	18	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 319 lb	FT = 20%

LUMBER TOP CHORD 2x6 SP 2400F 2.0E *Except* 6-14,14-17:2x6

SPF No.2 2x6 SP 2400F 2.0E

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

18-16,21-5,23-3,18-15:2x4 SP No.2

OTHERS 2x3 SPF No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or

3-7-12 oc purlins, except end verticals. **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc

bracing.

WFBS 1 Row at midpt 3-23 WFBS 2 Rows at 1/3 pts 5-21, 15-18

JOINTS 1 Brace at Jt(s): 26,

27, 29, 30

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

Max Horiz 2=184 (LC 12)

Max Uplift 2=-449 (LC 8), 18=-328 (LC 13) Max Grav 2=2348 (LC 2), 18=2366 (LC 2)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD

1-2=0/11, 2-3=-5861/1164, 3-5=-4575/983,

5-6=-3139/777, 6-7=-3091/796, 7-8=-3130/785, 8-9=-3164/773, 9-10=-3239/782, 10-11=-3748/840, 11-12=-3780/835, 12-13=-3795/802 13-15=-3833/793, 15-16=-460/213,

16-17=0/29, 16-18=-480/303

BOT CHORD 2-25=-1036/5472, 23-25=-1036/5472, 21-23=-755/4260, 19-21=-563/3330,

18-19=-624/3316

WEBS 6-21=-276/1706, 3-25=0/424,

5-21=-1669/450, 3-23=-1305/354, 5-23=-18/828, 19-30=0/338, 15-30=0/330, 21-26=-705/282, 26-27=-693/274, 27-28=-679/268, 10-28=-791/316, 15-18=-3502/610, 10-29=-25/454,

19-29=-26/423, 7-26=-20/15, 8-27=-25/12, 9-28=-65/155, 11-29=-34/0, 12-19=-107/61,

13-30=0/10

NOTES

- Unbalanced roof live loads have been considered for 1) this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-11-0 to 4-1-0, Interior (1) 4-1-0 to 28-5-10, Exterior(2R) 28-5-10 to 33-5-10, Interior (1) 33-5-10 to 49-7-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- All plates are MT20 plates unless otherwise indicated.
- All plates are 3x4 MT20 unless otherwise indicated.
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- All bearings are assumed to be SP 2400F 2.0E crushing capacity of 805 psi.

- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 328 lb uplift at joint 18 and 449 lb uplift at joint 2.
- 11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



October 6,2023



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

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



Job	Truss	Truss Type	Qty	Ply	Roof - Osage Lot 79
P240539-01	A2	Roof Special	2	1	Job Reference (optional)

Run: 8.63 S Aug 30 2023 Print: 8.630 S Aug 30 2023 MiTek Industries, Inc. Ved Oct 13 16 39 20 ID:QF_s_JP9cHCCgLmFn8Tnnyz_c3R-RfC?PsB70Hq3NSgPqnL8w3uITXbc KWrCDow342-0?f

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 161197918 LEE'S SUMMIT. MISSOURI

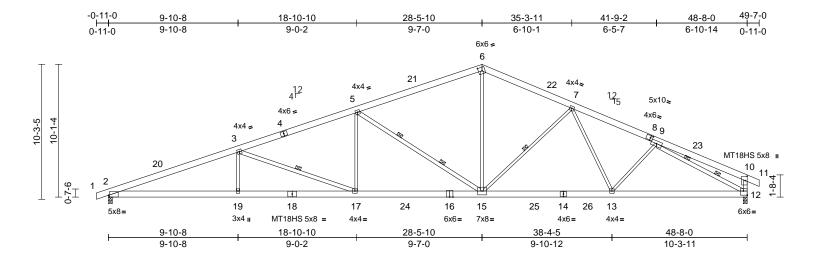


Plate Offsets (X, Y): [2:0-0-14,Edge], [6:0-3-5,0-3-4], [8:0-2-2,0-2-0], [10:0-4-0,0-1-12], [12:Edge,0-3-12]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.59	Vert(LL)	-0.43	13-15	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.49	Vert(CT)	-0.70	17-19	>833	180	MT18HS	197/144
BCLL	0.0*	Rep Stress Incr	YES	WB	0.81	Horz(CT)	0.15	12	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 303 lb	FT = 20%

LUMBER

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

SPF No.2

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

No.2

WEBS 2x3 SPF No.2 *Except*

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 3-6-2 oc purlins, except end verticals.

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

bracing.

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

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

Max Horiz 2=184 (LC 16)

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

Max Grav 2=2348 (LC 2), 12=2366 (LC 2)

FORCES (lb) - Maximum Compression/Maximum

Tension

1-2=0/11, 2-3=-5857/1163, 3-5=-4577/984, TOP CHORD

5-6=-3135/775, 6-7=-3198/796, 7-9=-3818/813. 9-10=-456/207. 10-11=0/29.

10-12=-475/299

BOT CHORD 2-19=-1035/5468, 17-19=-1035/5468,

15-17=-756/4263, 13-15=-568/3334,

12-13=-630/3313

WEBS 3-19=0/422, 6-15=-283/1724, 9-13=0/317,

5-17=-17/827, 7-13=0/390, 5-15=-1677/454,

3-17=-1299/352, 7-15=-712/287,

9-12=-3497/622

NOTES

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

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-11-0 to 4-1-0, Interior (1) 4-1-0 to 28-5-10, Exterior(2R) 28-5-10 to 33-5-10, Interior (1) 33-5-10 to 49-7-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- All plates are MT20 plates unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- All bearings are assumed to be SP 2400F 2.0E crushing capacity of 805 psi.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 449 lb uplift at joint 2 and 328 lb uplift at joint 12.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



October 6,2023



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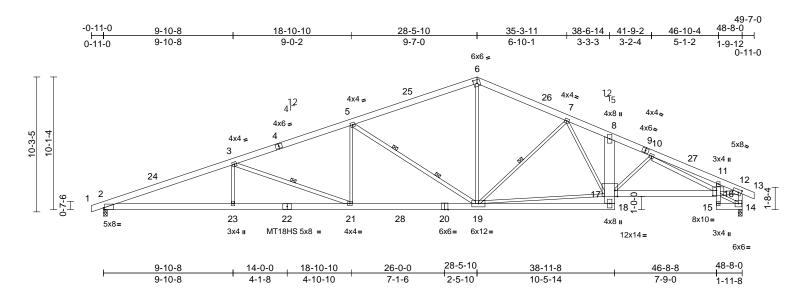


Job	Truss	Truss Type	Qty	Ply	Roof - Osage Lot 79
P240539-01	A3	Roof Special	5	1	Job Reference (optional)

Run: 8.63 S Aug 30 2023 Print: 8.630 S Aug 30 2023 MiTek Industries, Inc. Ved Oct 14 17 39 27 ID:m_P9pcXgCxbN3mpg9BHX8Rz_bfT-RfC?PsB70Hq3NSgPqnL8w3uITXbc kWrCDord 4 20 27

DEVELOPMENT SERVICES
161197919
LEE'S SUMMIT, MISSOURI
Ved Oct 14110921 1 / 1991 1

RELEASE FOR CONSTRUCTION
AS NOTED FOR PLAN REVIEW



Scale = 1:87.8

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

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

LUMBER

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

SPF No.2

BOT CHORD 2x6 SPF No.2 *Except* 18-8:1 1/2" x 9 1/4"

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

WEBS 2x3 SPF No.2 *Except*

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

BRACING

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

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

bracing, Except: 2-2-0 oc bracing: 16-17.

WEBS 1 Row at midpt 3-21, 7-19
WEBS 2 Rows at 1/3 pts 5-19
REACTIONS (2022) 2 0 3 2 14 0 3 2 8

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

Max Horiz 2=184 (LC 12)

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

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

FORCES (lb) - Maximum Compression/Maximum

Tension TOP CHORD 1-2=0/11

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

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

12-13=0/29, 12-14=-2224/556 BOT CHORD 17-18=0/189, 8-17=0/117, 16-17=-828/4190,

15-16=0/21, 11-16=-191/158, 14-15=-77/186, 2-23=-1033/5408, 21-23=-1033/5408, 19-21=-757/4218, 18-19=-367/2037

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

3-21=-1285/352, 5-21=-17/836, 5-19=-1689/455, 10-17=-242/161, 7-19=-800/309, 10-16=-619/152, 7-17=-72/519, 14-16=-133/94,

12-16=-700/3324, 17-19=-232/1318

- Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-11-0 to 4-1-0, Interior (1) 4-1-0 to 28-5-10, Exterior(2R) 28-5-10 to 33-5-10, Interior (1) 33-5-10 to 49-7-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- All plates are MT20 plates unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- All bearings are assumed to be SP 2400F 2.0E crushing capacity of 805 psi.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 449 lb uplift at joint 2 and 328 lb uplift at joint 14.
- 3) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



October 6,2023



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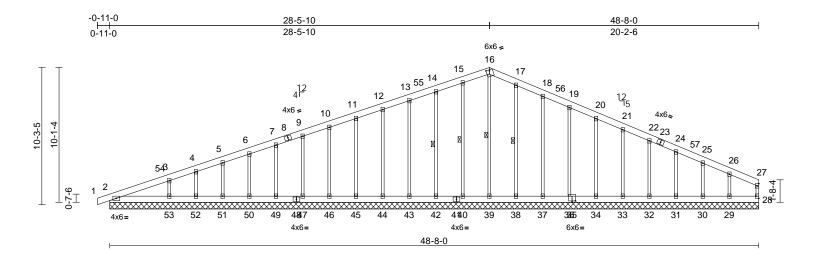


Job	Truss	Truss Type	Qty	Ply	Roof - Osage Lot 79	Γ
P240539-01	A4	Roof Special Supported Gable	1	1	Job Reference (optional	

ID:9CS9baXEWIG0D9YvLzplp8z_bgl-RfC?PsB70Hq3NSgPqnL8w3ulTXbGkWrCDoi7542301

DEVELOPMENT SERVICES 161197920 LEE'S SUMMIT. MISSOURI

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Scale = 1:86.4

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

LUMBER	
TOP CHORD	2x6 SPF No.2
BOT CHORD	2x6 SPF No.2
WEBS	2x3 SPF No.2
OTHERS	2x3 SPF No.2
BRACING	

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

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

WFBS 1 Row at midpt

16-39, 15-40, 14-42, 17-38

REACTIONS (size) 2=48-8-0, 28=48-8-0, 29=48-8-0, 30=48-8-0, 31=48-8-0, 32=48-8-0, 33=48-8-0, 34=48-8-0, 36=48-8-0, 37=48-8-0, 38=48-8-0, 39=48-8-0, 40=48-8-0, 42=48-8-0, 43=48-8-0, 44=48-8-0, 45=48-8-0, 46=48-8-0, 47=48-8-0, 49=48-8-0, 50=48-8-0,

51=48-8-0. 52=48-8-0. 53=48-8-0 Max Horiz 2=192 (LC 12)

Max Uplift 2=-44 (LC 13), 29=-94 (LC 13), 30=-43 (LC 13), 31=-58 (LC 13), 32=-59 (LC 13), 33=-51 (LC 13), 34=-53 (LC 13), 36=-58 (LC 13), 37=-64 (LC 13), 38=-20 (LC 13), 40=-26 (LC 12), 42=-57 (LC 8), 43=-50 (LC 8), 44=-49 (LC 12), 45=-49 (LC 12), 46=-46 (LC 8),

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

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

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

Max Grav 2=240 (LC 1), 28=84 (LC 1), 29=203 (LC 26), 30=171 (LC 1), 31=184 (LC 26), 32=189 (LC 1), 33=172 (LC 26), 34=183 (LC 1), 36=176 (LC 26), 37=186 (LC 26), 38=183 (LC 1), 39=204 (LC 22), 40=184 (LC 1), 42=183 (LC 25), 43=180 (LC 25), 44=180 (LC 1), 45=180 (LC 25), 46=174 (LC 25), 47=184 (LC 1), 49=189 (LC 1), 50=169 (LC 25), 51=198 (LC 1), 52=91 (LC 25), 53=393 (LC 25)

FORCES (lb) - Maximum Compression/Maximum TOP CHORD

1-2=0/11, 2-3=-194/131, 3-4=-144/145, 4-5=-124/159, 5-6=-102/176, 6-7=-81/193, 7-9=-84/211, 9-10=-96/229, 10-11=-107/246, 11-12=-119/263, 12-13=-131/287, 13-14=-143/317, 14-15=-156/348, 15-16=-161/365, 16-17=-165/367, 17-18=-157/334, 18-19=-140/285, 19-20=-125/245, 20-21=-109/209, 21-22=-96/173, 22-24=-79/134, 24-25=-63/96. 25-26=-50/62. 26-27=-55/34.

27-28=-66/22 BOT CHORD 2-53=-35/58, 52-53=-35/58, 51-52=-35/58 50-51=-35/58, 49-50=-35/58, 47-49=-35/58 46-47=-35/58, 45-46=-35/58, 44-45=-35/58, 43-44=-35/58, 42-43=-35/58, 40-42=-35/58,

39-40=-35/58, 38-39=-35/58, 37-38=-35/58, 36-37=-35/58, 34-36=-35/58, 33-34=-35/58, 32-33=-35/58, 31-32=-35/58, 30-31=-35/58,

29-30=-35/58, 28-29=-35/58

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

25-30=-132/93, 26-29=-158/135

NOTES

- Unbalanced roof live loads have been considered for 1) this design
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-11-0 to 4-1-0, Interior (1) 4-1-0 to 28-5-10, Exterior(2R) 28-5-10 to 33-5-10, Interior (1) 33-5-10 to 48-6-12 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60



October 6,2023

Continued on page 2

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



J	ob	Truss	Truss Type	Qty	Ply	Roof - Osage Lot 79	Г
Р	240539-01	A4	Roof Special Supported Gable	1	1	Job Reference (optional)	

Run: 8.63 S Aug 30 2023 Print: 8.630 S Aug 30 2023 MiTek Industries, Inc. Ved Oct 14 12 27 ID:9CS9baXEWIG0D9YvLzplp8z_bgl-RfC?PsB70Hq3NSgPqnL8w3ulTXbGk_WrCDoi7s-z_ber/

DEVELOPMENT SERVICES 161197920 LEE'S SUMMIT, MISSOURI

RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW

Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.

- All plates are 3x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 * This truss has been designed for a live load of 20.0psf
- on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SPF No.2 crushing capacity of 425 psi.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 44 lb uplift at joint 2, 26 lb uplift at joint 40, 57 lb uplift at joint 42, 50 lb uplift at joint 43, 49 lb uplift at joint 44, 49 lb uplift at joint 45, 46 lb uplift at joint 46, 51 lb uplift at joint 47, 54 lb uplift at joint 49, 45 lb uplift at joint 50, 52 lb uplift at joint 51, 30 lb uplift at joint 52, 111 lb uplift at joint 53, 20 lb uplift at joint 38, 64 lb uplift at joint 37, 58 lb uplift at joint 36, 53 lb uplift at joint 34, 51 lb uplift at joint 33, 59 lb uplift at joint 32, 58 lb uplift at joint 31, 43 lb uplift at joint 30 and 94 lb uplift at joint 29.
- 11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



Job	Truss	Truss Type	Qty	Ply	Roof - Osage Lot 79	
P240539-01	B1	Roof Special Structural Gable	2	1	Job Reference (optional	

Run: 8.63 S Aug 30 2023 Print: 8.630 S Aug 30 2023 MiTek Industries, Inc. Ved Oct 041009/28 ID:?AVNLbq4WBVV5137XnfsuHz_dHf-RfC?PsB70Hq3NSgPqnL8w3uITXbCKWrCDohrd4292ff

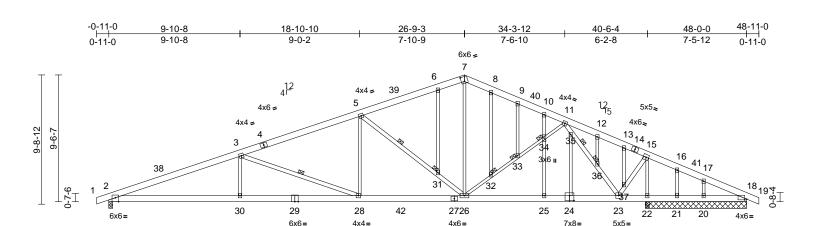
4x8=

38-4-5

11-7-3

S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 161197921 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION



Scale = 1:86.7

Plate Offsets (X, Y): [2:0-3-0,Edge], [7:0-2-13,0-4-4], [18:0-1-12,0-0-10], [24:0-4-0,0-4-8]

9-10-8

9-10-8

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	0.81	Vert(LL)	-0.31	28-30	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.98	Vert(CT)	-0.59	28-30	>825	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.88	Horz(CT)	0.11	22	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 286 lb	FT = 20%

26-9-3

7-10-9

LUMBER TOP CHORD 2x6 SPF No.2

BOT CHORD 2x6 SPF No.2 *Except* 18-24:2x6 SP 2400F

2.0E

WFBS 2x3 SPF No.2 *Except*

28-3,23-15,23-11,26-5:2x4 SP No.2

OTHERS 2x3 SPF No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or

2-2-5 oc purlins.

Rigid ceiling directly applied or 2-2-0 oc **BOT CHORD**

bracing.

WFBS 1 Row at midpt 3-28, 11-36, 5-31 **JOINTS**

1 Brace at Jt(s): 31, 32, 33, 34, 36

REACTIONS (size) 2=0-3-8, 18=7-7-8, 20=7-7-8, 21=7-7-8. 22=0-3-8

Max Horiz 2=-169 (LC 13)

Max Uplift 2=-365 (LC 8), 18=-431 (LC 27),

20=-94 (LC 13), 21=-180 (LC 27), 22=-384 (LC 8)

Max Grav 2=1783 (LC 2), 18=102 (LC 12),

20=397 (LC 2), 21=42 (LC 12),

22=2808 (LC 2)

FORCES (lb) - Maximum Compression/Maximum

Tension TOP CHORD

1-2=0/11, 2-3=-4169/818, 3-5=-2887/650,

5-6=-1706/500. 6-7=-1629/518. 7-8=-1634/516, 8-9=-1698/510, 9-10=-1733/498, 10-11=-1798/462, 11-12=-84/306, 12-13=-139/282,

13-15=-184/239, 15-16=-200/1265 16-17=-230/1252, 17-18=-293/1291,

18-19=0/11

BOT CHORD

18-10-10

9-0-2

2-30=-716/3855, 28-30=-716/3855, 26-28=-406/2660, 25-26=-104/1054, 23-25=-104/1054, 22-23=-1129/309, 21-22=-1129/309, 20-21=-1129/309,

18-20=-1129/309 **WEBS**

3-30=0/413, 5-28=-12/805, 3-28=-1282/332, 7-26=-130/772, 23-37=-293/1901, 15-37=-325/1858, 11-35=-2007/391, 35-36=-2075/396, 23-36=-2054/399, 5-31=-1421/356, 26-31=-1487/379, 26-32=-136/740, 32-33=-127/695, 33-34=-130/702, 11-34=-138/757,

6-31=-104/35, 8-32=-14/73, 9-33=-22/12, 10-34=0/127, 25-34=0/178, 24-35=-6/85, 12-36=0/32, 13-37=-15/98, 16-21=-115/61,

17-20=-224/148, 15-22=-2291/474

NOTES

- 1) Unbalanced roof live loads have been considered for this design
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-11-0 to 4-1-0, Interior (1) 4-1-0 to 26-9-3, Exterior(2R) 26-9-3 to 31-9-3, Interior (1) 31-9-3 to 48-11-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- All plates are 3x4 MT20 unless otherwise indicated.
- Gable studs spaced at 2-0-0 oc. 5)
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.

40-6-4

2-1-15

48-0-0

7-5-12

- Bearings are assumed to be: Joint 2 SPF No.2 crushing capacity of 425 psi, Joint 22 SP 2400F 2.0E crushing capacity of 805 psi, Joint 22 SP 2400F 2.0E crushing capacity of 805 psi.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 431 lb uplift at joint 18, 365 lb uplift at joint 2, 180 lb uplift at joint 21, 94 lb uplift at joint 20 and 384 lb uplift at joint 22.
- 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



October 6,2023



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

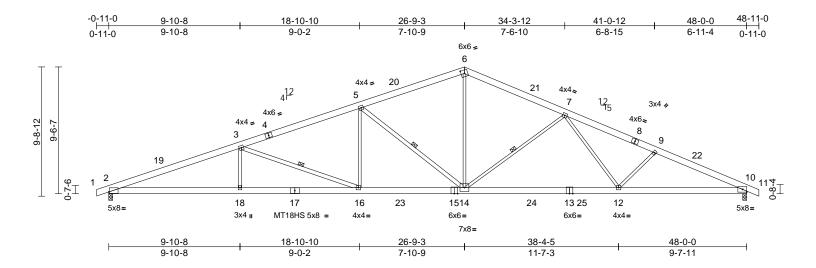


Job	Truss	Truss Type	Qty	Ply	Roof - Osage Lot 79
P240539-01	B2	Roof Special	4	1	Job Reference (optional

Run: 8.63 S Aug 30 2023 Print: 8.630 S Aug 30 2023 MiTek Industries, Inc. Ved Oct 141 1429 25 ID:TM3IYxriHVdLiBeK5VA5RVz_dHe-RfC?PsB70Hq3NSgPqnL8w3uITXbGK

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 161197922 LEE'S SUMMIT. MISSOURI

WrCDoi794zJe?



Scale = 1:86.7

Plate Offsets (X, Y	'): [2:0-0-6,0-	1-5], [6:0-3-1,0-3-	0]
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Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.82	Vert(LL)	-0.57	12-14	>997	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.85	Vert(CT)	-0.99	12-14	>579	180	MT18HS	244/190
BCLL	0.0*	Rep Stress Incr	YES	WB	0.87	Horz(CT)	0.17	10	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 262 lb	FT = 20%

LUMBER

TOP CHORD 2x6 SPF No.2

BOT CHORD 2x6 SP 2400F 2.0E *Except* 13-15:2x6 SPF

No.2

WFBS 2x3 SPF No.2 *Except* 14-5,16-3:2x4 SP

No.2

BRACING TOP CHORD

Structural wood sheathing directly applied or

2-2-0 oc purlins.

BOT CHORD Rigid ceiling directly applied or 9-0-8 oc bracing.

WEBS 1 Row at midpt

7-14, 5-14, 3-16

REACTIONS 2=0-3-8, 10=0-3-8 (size) Max Horiz 2=-174 (LC 17)

Max Uplift 2=-437 (LC 8), 10=-339 (LC 13)

Max Grav 2=2311 (LC 2), 10=2327 (LC 2)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/11 2-3=-5737/1125 3-5=-4431/954

5-6=-3224/808, 6-7=-3321/819,

7-9=-4720/933, 9-10=-4954/981, 10-11=0/12 BOT CHORD

2-18=-950/5331, 16-18=-950/5331,

14-16=-661/4121, 12-14=-648/3781, 10-12=-789/4440

WEBS 3-18=0/433, 6-14=-312/1825, 9-12=-352/251,

5-16=-16/820, 7-14=-1037/335,

7-12=-20/912, 5-14=-1484/379,

3-16=-1307/345

NOTES

1) Unbalanced roof live loads have been considered for

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-11-0 to 4-1-0, Interior (1) 4-1-0 to 26-9-3, Exterior(2R) 26-9-3 to 31-9-3, Interior (1) 31-9-3 to 48-11-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- All plates are MT20 plates unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- All bearings are assumed to be SP 2400F 2.0E crushing capacity of 805 psi.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 339 lb uplift at joint 10 and 437 lb uplift at joint 2.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



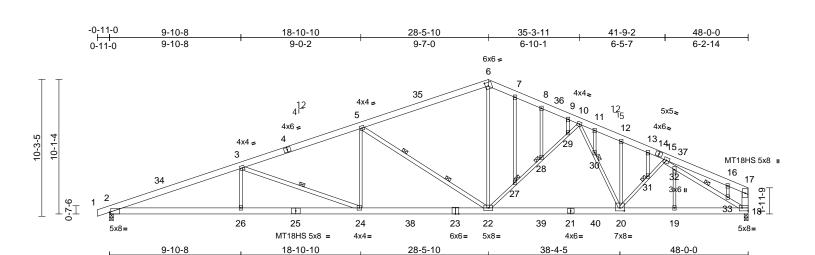
October 6,2023



Job	Truss	Truss Type	Qty	Ply	Roof - Osage Lot 79	
P240539-01	C1	Roof Special Structural Gable	1	1	Job Reference (optional	

Run: 8.63 S Aug 30 2023 Print: 8.630 S Aug 30 2023 MiTek Industries, Inc. Ved Oct 041049/29 ID:QwsMJ9UGunpD_Jran7lpT1z_WWI-RfC?PsB70Hq3NSgPqnL8w3uITXbQkWrCDord42g0?f

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 161197923 LEE'S SUMMIT. MISSOURI



Scale = 1:86.6

Plate Offsets (X, Y): [2:0-1-2,Edge], [6:0-2-9,0-3-4], [18:Edge,0-2-12], [20:0-4-0,0-2-12]

9-10-8

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	0.49	Vert(LL)	-0.37	24-26	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.50	Vert(CT)	-0.67	24-26	>851	180	MT18HS	197/144
BCLL	0.0*	Rep Stress Incr	YES	WB	0.93	Horz(CT)	0.14	18	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 317 lb	FT = 20%

LUMBER TOP CHORD 2x6 SP 2400F 2.0E *Except* 14-17,14-6:2x6

SPF No.2

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

No.2

WEBS 2x3 SPF No.2 *Except* 18-17:2x6 SPF No.2,

24-3,22-5:2x4 SP No.2, 18-15:2x4 SP 2400F

2.0E

2x3 SPF No.2 **OTHERS**

BRACING

JOINTS

TOP CHORD Structural wood sheathing directly applied or 3-9-9 oc purlins, except end verticals.

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

bracing

WEBS 1 Row at midpt 3-24, 15-18 WEBS 2 Rows at 1/3 pts

1 Brace at Jt(s): 27,

28, 30, 31

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

Max Horiz 2=193 (LC 16)

Max Uplift 2=-445 (LC 8), 18=-292 (LC 13) Max Grav 2=2313 (LC 2), 18=2270 (LC 2)

FORCES

(lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/11, 2-3=-5747/1140, 3-5=-4472/964,

5-6=-3029/755, 6-7=-2978/778, 7-8=-3017/767, 8-9=-3052/755 9-10=-3119/763, 10-11=-3492/802

11-12=-3527/798, 12-13=-3526/761, 13-15=-3584/752, 15-16=-784/259,

16-17=-928/249, 17-18=-760/253 **BOT CHORD** 2-26=-1070/5365, 24-26=-1070/5365,

22-24=-793/4163, 20-22=-587/3147, 19-20=-586/2823, 18-19=-586/2823

WEBS

9-0-2

3-26=0/421, 6-22=-260/1626, 10-30=-9/336, 20-30=-11/314, 5-24=-19/833,

9-7-0

20-31=-12/672, 15-31=-12/630 3-24=-1298/352, 22-27=-612/265, 27-28=-600/258, 28-29=-586/252, 10-29=-686/297, 15-32=-2739/509

32-33=-2595/472, 18-33=-2448/463, 5-22=-1675/452, 7-27=-17/17, 8-28=-25/11, 9-29=-61/138, 11-30=-26/0, 12-20=-149/70,

13-31=-1/56, 19-32=-350/80, 16-33=-27/275

NOTES

- 1) Unbalanced roof live loads have been considered for this design
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-11-0 to 4-1-0. Interior (1) 4-1-0 to 28-5-10, Exterior(2R) 28-5-10 to 33-5-10, Interior (1) 33-5-10 to 47-9-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- All plates are MT20 plates unless otherwise indicated.
- All plates are 3x4 MT20 unless otherwise indicated.
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- All bearings are assumed to be SP 2400F 2.0E crushing capacity of 805 psi.

10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 292 lb uplift at joint 18 and 445 lb uplift at joint 2.

9-7-11

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

LOAD CASE(S) Standard

9-10-12



October 6,2023



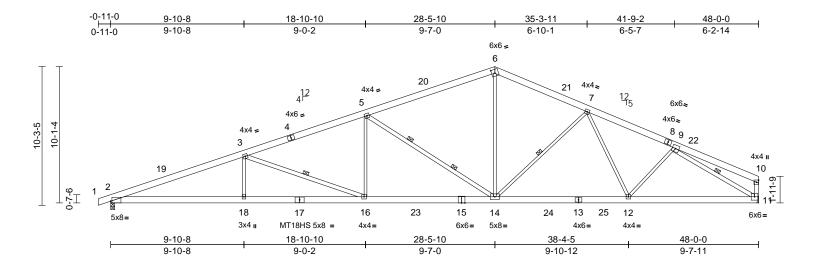


Job	Truss	Truss Type	Qty	Ply	Roof - Osage Lot 79
P240539-01	C2	Roof Special	2	1	Job Reference (optional)

Run: 8.63 S Aug 30 2023 Print: 8.630 S Aug 30 2023 MiTek Industries, Inc. Ved Oct 141 1429 ID:4EauqFdo3SKWQ9muUfydzZz_WW6-RfC?PsB70Hq3NSgPqnL8w3uITXt<mark>r</mark>GKWrCD=/7392.JC?f

DEVELOPMENT SERVICES 161197924 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW



Scale = 1:85.4

Plate Offsets (X, Y): [2:0-1-2,Edge], [6	6:0-2-13,0-3-4]	
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Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.47	Vert(LL)	-0.40	12-14	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.48	Vert(CT)	-0.68	16-18	>847	180	MT18HS	244/190
BCLL	0.0*	Rep Stress Incr	YES	WB	0.88	Horz(CT)	0.15	11	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 297 lb	FT = 20%

LUMBER

BOT CHORD

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

SPF No.2

2x6 SP 2400F 2 0F

2x3 SPF No.2 *Except* 11-10:2x4 SPF No.3, **WEBS**

14-5,16-3,11-9:2x4 SP No.2

BRACING

TOP CHORD

TOP CHORD Structural wood sheathing directly applied or

3-7-11 oc purlins, except end verticals.

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

WEBS 1 Row at midpt

3-16, 7-14, 9-11 2 Rows at 1/3 pts 5-14

WFBS

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

Max Horiz 2=193 (LC 16)

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

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

FORCES (lb) - Maximum Compression/Maximum

Tension

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

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

7-9=-3586/778, 9-10=-247/137, 10-11=-275/165

BOT CHORD

2-18=-1071/5380, 16-18=-1071/5380, 14-16=-793/4173, 12-14=-594/3173,

11-12=-631/2987

WEBS 3-18=0/423, 6-14=-270/1656, 9-12=0/439,

5-16=-17/828, 7-12=-27/287, 5-14=-1678/454, 3-16=-1302/352, 7-14=-631/272, 9-11=-3430/682

NOTES

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

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-11-0 to 4-1-0, Interior (1) 4-1-0 to 28-5-10, Exterior(2R) 28-5-10 to 33-5-10, Interior (1) 33-5-10 to 47-10-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- All plates are MT20 plates unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom
- chord live load nonconcurrent with any other live loads. * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Bearings are assumed to be: Joint 2 SP 2400F 2.0E crushing capacity of 805 psi.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 446 lb uplift at joint 2 and 293 lb uplift at joint 11.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



October 6,2023



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

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



Job	Truss	Truss Type	Qty	Ply	Roof - Osage Lot 79
P240539-01	C3	Roof Special	5	1	Job Reference (optional)

Run: 8.63 S Aug 30 2023 Print: 8.630 S Aug 30 2023 MiTek Industries, Inc. Ved Oct 141 129 80 ID:Sb0KJjJkHtSHkuN7kDNnkhz_WMA-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDon94290?f

DEVELOPMENT SERVICES 161197925 LEE'S SUMMIT. MISSOURI

7-9-0

1-3-8

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW

-0-11-0 38-6-14 9-10-8 18-10-10 28-5-10 35-3-11 41-9-2 46-10-4 0-11-0 9-10-8 9-0-2 9-7-0 6-10-1 3-3-3 3-2-4 5-1-2 1-1-12 6x6 = 6 12 15 24 4x4 25 412 5 4x4≤ 3x8 II 4x6 = 8 4x6. 10-3-5 9₁₀₂₆ 4x4 = 6x6≥ 10-1 3 3x4 II 11 12 14 22 21 20 27 19 18 8x10= 4x6 ı 5x8 MT18HS 5x8 = 3x4 i 6x6= 6x12= 3x4 II 12x14= MT18HS 6x12 = 48-0-0 9-10-8 18-10-10 28-5-10 38-11-8 46-8-8 14-0-0 24-11-8

Scale = 1:86.2

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

4-1-8

4-10-10

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

6-0-14

3-6-2

10-5-14

LUMBER

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

SPF No.2

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

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

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

9-10-8

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

BRACING

TOP CHORD

WFBS

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

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

bracing, Except:

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

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

Max Horiz 2=193 (LC 12)

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

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

FORCES (lb) - Maximum Compression/Maximum

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

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

12-13=-2126/475

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

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

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

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

16-18=-242/1271

- Unbalanced roof live loads have been considered for
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-11-0 to 4-1-0, Interior (1) 4-1-0 to 28-5-10, Exterior(2R) 28-5-10 to 33-5-10, Interior (1) 33-5-10 to 47-10-4 zone; cantilever left and right exposed; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- All plates are MT20 plates unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Bearings are assumed to be: Joint 2 SP 2400F 2.0E crushing capacity of 805 psi.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 293 lb uplift at joint 13 and 446 lb uplift at joint 2.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



October 6,2023

NOTES

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

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



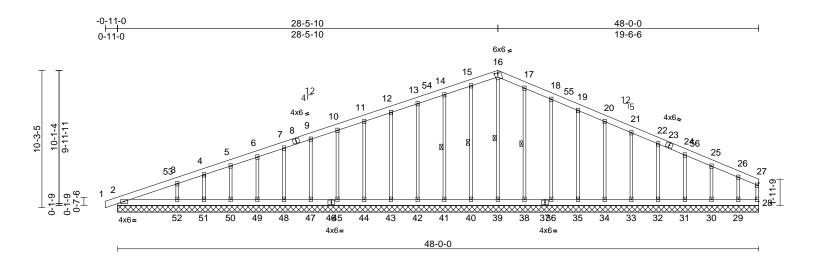
Job	Truss	Truss Type	Qty	Ply	Roof - Osage Lot 79	
P240539-01	C4	Roof Special Supported Gable	1	1	Job Reference (optional)	

S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 161197926 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION

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

Run: 8.63 S Aug 30 2023 Print: 8.630 S Aug 30 2023 MiTek Industries, Inc. Ved Oct 14 16 9 80 ID:IDEkMeSePsGXytVpYj8zJQz_WR9-RfC?PsB70Hq3NSgPqnL8w3uITXbG WrCDow4220 ff



Scale = 1:86.2

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

LUMBER				Max Grav	2=239 (LC 1), 28=58 (LC 22),
TOP CHORD	2x6 SPF No.2				29=165 (LC 26), 30=179 (LC 1),
BOT CHORD	2x6 SPF No.2				31=182 (LC 26), 32=189 (LC 1),
WEBS	2x3 SPF No.2				33=173 (LC 26), 34=181 (LC 1),
OTHERS	2x3 SPF No.2				35=179 (LC 26), 36=183 (LC 26)
BRACING					38=184 (LC 1), 39=204 (LC 22),
TOP CHORD	Structural wood she	eathing directly applied or			40=184 (LC 1), 41=183 (LC 25),
TOT OTTORID	6-0-0 oc purlins, ex	0 , 11			42=180 (LC 25), 43=180 (LC 1),
BOT CHORD		y applied or 10-0-0 oc			44=180 (LC 25), 45=175 (LC 25)
BOT OHORB	bracing.	, applied of 10 0 0 00			47=183 (LC 1), 48=189 (LC 1),
WEBS	1 Row at midpt	16-39, 15-40, 14-41,			49=169 (LC 25), 50=198 (LC 1),
	at mapt	17-38			51=91 (LC 25), 52=393 (LC 25)
REACTIONS	(size) 2-48-0-0	28-48-0-0 29-48-0-0	FORCES	(lb) - Max	ximum Compression/Maximum

TOP CHORD

		17-38
REACTIONS	(size)	2=48-0-0, 28=48-0-0, 29=48-0-0, 30=48-0-0, 31=48-0-0, 32=48-0-0, 33=48-0-0, 35=48-0-0, 36=48-0-0, 36=48-0-0, 38=48-0-0, 39=48-0-0, 40=48-0-0, 41=48-0-0, 42=48-0-0, 43=48-0-0, 44=48-0-0, 45=48-0-0,
		47=48-0-0, 48=48-0-0, 49=48-0-0,

Max Horiz 2=193 (LC 12) Max Uplift 2=-44 (LC 13), 29=-81 (LC 13), 30=-49 (LC 13), 31=-57 (LC 13), 32=-59 (LC 13), 33=-50 (LC 13), 34=-54 (LC 13), 35=-56 (LC 13), 36=-65 (LC 13), 38=-20 (LC 13), 40=-26 (LC 12), 41=-57 (LC 8), 42=-50 (LC 8), 43=-49 (LC 12),

50=48-0-0, 51=48-0-0, 52=48-0-0 BOT CHORD 44=-49 (LC 12), 45=-46 (LC 8), 47=-51 (LC 8), 48=-54 (LC 12), 49=-45 (LC 8), 50=-52 (LC 12), 51=-30 (LC 8), 52=-111 (LC 12)

(lb) - Maximum Compression/Maximum Tension 1-2=0/11, 2-3=-195/129, 3-4=-145/143, 4-5=-125/157, 5-6=-103/175, 6-7=-82/192,

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

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

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

WEBS 16-39=-164/21, 15-40=-144/57, 14-41=-143/97, 13-42=-140/74, 12-43=-140/73, 11-44=-140/73, 10-45=-134/70, 9-47=-144/75, 7-48=-149/78, 6-49=-131/69, 5-50=-149/77, 4-51=-84/47, 3-52=-286/172, 17-38=-144/59, 18-36=-143/105, 19-35=-140/80, 20-34=-140/78, 21-33=-133/74, 22-32=-149/84, 24-31=-143/84, 25-30=-138/105. 26-29=-129/112

NOTES

- 1) Unbalanced roof live loads have been considered for this design
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-11-0 to 4-1-0, Interior (1) 4-1-0 to 28-5-10, Exterior(2R) 28-5-10 to 33-5-10, Interior (1) 33-5-10 to 47-10-12 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60



October 6,2023

ontinued on page 2

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

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



Job Truss Truss Type Qty Ply Roof - Osage Lot 79 P240539-01 C4 Roof Special Supported Gable Job Reference (optional

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

Run: 8.63 S. Aug 30 2023 Print: 8.630 S. Aug 30 2023 MiTek Industries, Inc. Ved Oct 13 1679 86 ID:IDEKMeSePsGXytVpYj8zJQz_WR9-RfC?PsB70Hq3NSgPqnL8w3uITXbG WrCDon-4220 f

RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW

DEVELOPMENT SERVICES 161197926

LEE'S SUMMIT. MISSOURI

Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.

- All plates are 3x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 * This truss has been designed for a live load of 20.0psf
- on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SPF No.2 crushing capacity of 425 psi.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 44 lb uplift at joint 2, 26 lb uplift at joint 40, 57 lb uplift at joint 41, 50 lb uplift at joint 42, 49 lb uplift at joint 43, 49 lb uplift at joint 44, 46 lb uplift at joint 45, 51 lb uplift at joint 47, 54 lb uplift at joint 48, 45 lb uplift at joint 49, 52 lb uplift at joint 50, 30 lb uplift at joint 51, 111 lb uplift at joint 52, 20 lb uplift at joint 38, 65 lb uplift at joint 36, 56 lb uplift at joint 35, 54 lb uplift at joint 34, 50 lb uplift at joint 33, 59 lb uplift at joint 32, 57 lb uplift at joint 31, 49 lb uplift at joint 30 and 81 lb uplift at joint 29.
- 11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



Job	Truss	Truss Type	Qty	Ply	Roof - Osage Lot 79	
P240539-01	E1	Roof Special Supported Gable	2	1	Job Reference (optional)	

Run: 8.63 S Aug 30 2023 Print: 8.630 S Aug 30 2023 MiTek Industries, Inc. Ved Oct 13 15 9 81 ID: _3k0BplF41zm?y3f9Y6MyBz_WS3-RfC?PsB70Hq3NSgPqnL8w3ulTXbGi_WrCDoi 1423-24

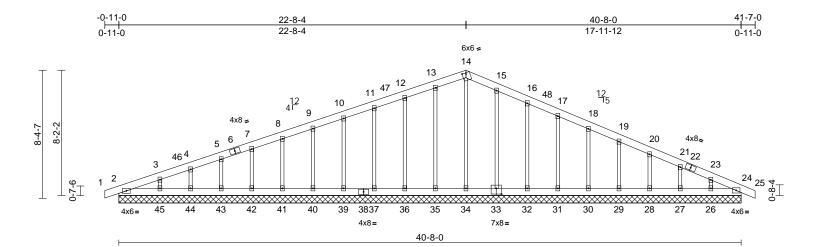
RELEASE FOR CONSTRUCTION

AS NOTED FOR PLAN REVIEW

DEVELOPMENT SERVICES
161197927

LEE'S SUMMIT, MISSOURI

. Ved Oct 04109/31 1/2/9/24



Scale = 1:75.3

Plate O	ffsets (X	Y):	[14:0-3-0,0-0-15], [33:0-4-0,0-4-8]

Loading	(psf)	Spacing	1-11-4	csı		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	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.02	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.18	Horz(CT)	0.01	24	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 213 lb	FT = 20%

LUMBER TOP CHOPP 200 CPE No 2								
	FORCES	(lb) - Maximum Compression	on/Maximum					
TOP CHORD 2x6 SPF No.2 BOT CHORD 2x6 SPF No.2 OTHERS 2x3 SPF No.2 BRACING TOP CHORD Structural wood sheathing d	TOP CHORD ectly applied or	1-2=0/11, 2-3=-171/68, 3-4 4-5=-100/82, 5-7=-83/95, 7 8-9=-50/129, 9-10=-53/146 11-12=-76/180, 12-13=-88/	7-8=-67/112, 5, 10-11=-65/163, /206,					
6-0-0 oc purlins. BOT CHORD Rigid ceiling directly applied bracing.		13-14=-97/230, 14-15=-100/236, 15-16=-88/207, 16-17=-72/169, 17-18=-57/133, 18-19=-44/97, 19-20=-44/61, 20-21=-53/28, 21-23=-72/18, 23-24=-114/39						
REACTIONS (size) 2=40-8-0, 24=40-8-0, 28=40-8-0, 38=40-8-0, 37=46-0-8-0, 37=46-0-8-0, 37=46-0-8-0, 41=40-8-0,	8-0, 29=40-8-0, 8-0, 32=40-8-0, 8-0, 35=40-8-0, 8-0, 39=40-8-0, 8-0, 42=40-8-0, 8-0, 45=40-8-0, 8-0, 4	24-25=0/11 24-25=0/11 24-45=-35/125, 44-45=-35/1 43-44=-35/125, 40-41=-35/3 39-40=-35/125, 37-39=-35/3 39-35-35/125, 35-36=-35/3 34-35=-35/125, 32-34=-35/3 31-32=-35/125, 28-29=-35/27-28=-35/125, 26-27=-35/125	125, 1/125, 1/125, 1/125, 1/125, 1/125, 1/125, 1/125, 1/125, 1/125, 1/127,					

NOTES

28=167 (LC 1), 29=175 (LC 26),

32=182 (LC 26), 33=169 (LC 1),

34=170 (LC 22), 35=177 (LC 1), 36=175 (LC 25), 37=177 (LC 1),

39=174 (LC 1), 40=174 (LC 25), 41=169 (LC 25), 42=177 (LC 25),

43=187 (LC 1), 44=151 (LC 25),

45=226 (LC 25)

30=175 (LC 1), 31=173 (LC 1),

 Unbalanced roof live loads have been considered for this design.

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp. C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-11-0 to 4-1-0, Interior (1) 4-1-0 to 22-8-4, Exterior(2R) 22-8-4 to 27-8-4, Interior (1) 27-8-4 to 41-7-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) All plates are 3x4 MT20 unless otherwise indicated.
- 5) Gable requires continuous bottom chord bearing.
- 6) Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.



October 6,2023

Continued on page 2

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



Ply Job Truss Truss Type Qty Roof - Osage Lot 79 P240539-01 E1 Roof Special Supported Gable 2 Job Reference (optional

DEVELOPMENT SERVICES 161197927 LEE'S SUMMIT, MISSOURI Run: 8.63 S Aug 30 2023 Print: 8.630 S Aug 30 2023 MiTek Industries, Inc. Ved Oct 13 10 3 10: 3koBplF41zm?y3f9Y6MyBz_WS3-RfC?PsB70Hq3NSgPqnL8w3ulTXbGi_WrCDoi.

RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW

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

- 9) All bearings are assumed to be SPF No.2 crushing capacity of 425 psi.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 20 lb uplift at joint 2, 34 lb uplift at joint 35, 54 lb uplift at joint 36, 46 lb uplift at joint 37, 48 lb uplift at joint 39, 48 lb uplift at joint 40, 44 lb uplift at joint 41, 49 lb uplift at joint 42, 53 lb uplift at joint 43, 42 lb uplift at joint 44, 69 lb uplift at joint 45, 39 lb uplift at joint 33, 57 lb uplift at joint 32, 54 lb uplift at joint 31, 52 lb uplift at joint 30, 53 lb uplift at joint 29, 49 lb uplift at joint 28, 58 lb uplift at joint 27, 62 lb uplift at joint 26 and 14 lb uplift at joint 24.
- 11) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 2.
- 12) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

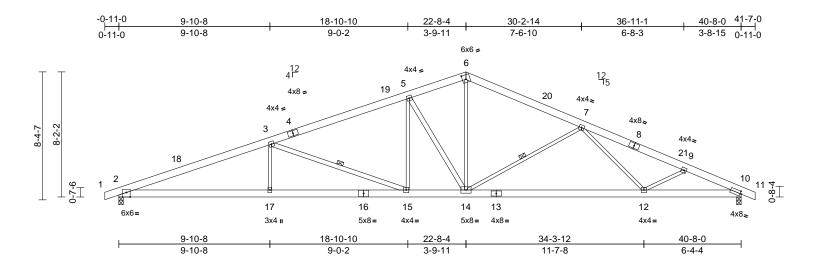


Job	Truss	Truss Type	Qty	Ply	Roof - Osage Lot 79	
P240539-01	E2	Roof Special	4	1	Job Reference (optional	

Run: 8.63 S Aug 30 2023 Print: 8.630 S Aug 30 2023 MiTek Industries, Inc. Ved Oct 14 12 9 5 4 ID:H8704Oe_QziBoQlkZRw0Y4z_WSD-RfC?PsB70Hq3NSgPqnL8w3ulTXbcKWrCDor, J422 6?f

DEVELOPMENT SERVICES 161197928 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW



Scale = 1:75.3

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	0.92	Vert(LL)	-0.26	15-17	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.96	Vert(CT)	-0.55	15-17	>874	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.98	Horz(CT)	0.15	10	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 206 lb	FT = 20%

LUMBER

WEBS

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

2x3 SPF No.2 *Except* 14-5,15-3:2x4 SP

BRACING

TOP CHORD Structural wood sheathing directly applied or

2-2-0 oc purlins.

BOT CHORD Rigid ceiling directly applied or 2-2-0 oc

bracing

WEBS 1 Row at midpt 3-15, 7-14 2=0-3-8, 10=0-3-8

REACTIONS (size) Max Horiz 2=-149 (LC 17)

Max Uplift 2=-377 (LC 8), 10=-291 (LC 13)

Max Grav 2=1891 (LC 1), 10=1891 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension TOP CHORD

1-2=0/11, 2-3=-4410/924, 3-5=-3163/749,

5-6=-2570/697, 6-7=-2707/687,

7-9=-3717/822. 9-10=-3910/910. 10-11=0/12

2-17=-758/4059, 15-17=-758/4059, 14-15=-466/2902, 12-14=-625/3123,

10-12=-762/3488

WEBS 3-17=0/404, 6-14=-333/1488, 9-12=-212/226, 5-15=-49/573, 7-12=0/484, 5-14=-1045/305,

3-15=-1256/348, 7-14=-885/362

NOTES

BOT CHORD

Unbalanced roof live loads have been considered for this design.

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-11-0 to 4-1-0, Interior (1) 4-1-0 to 22-8-4, Exterior(2R) 22-8-4 to 27-8-4, Interior (1) 27-8-4 to 41-7-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SPF No.2 crushing capacity of 425 psi.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 377 lb uplift at joint 2 and 291 lb uplift at joint 10.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



October 6,2023



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

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



Job Truss Truss Type Qty Ply Roof - Osage Lot 79 P240539-01 G₁A Common Supported Gable

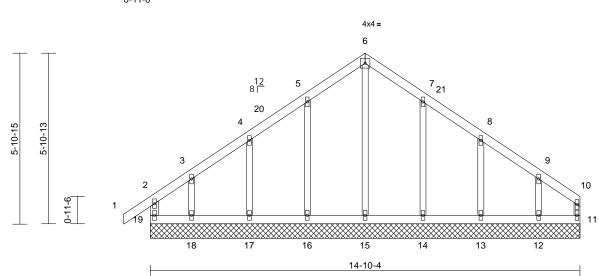
DEVELOPMENT SERVICES 161197929 LEE'S SUMMIT. MISSOURI Job Reference (optiona Run: 8.63 S Aug 30 2023 Print: 8.630 S Aug 30 2023 MiTek Industries, Inc. | Wed Oct 14 KWrCDolf 4292

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW

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

0-11-0 14-10-4 7-5-2 7-5-2

ID:P?23fvqSL42HZUnaJ1h?Xkz_WQh-RfC?PsB70Hq3NSgPqnL8w3ulTXbG



Scal	le	=	1	:39	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	0.06	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.14	Horz(CT)	0.00	11	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R							Weight: 69 lb	FT = 20%

LUMBER

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

2x4 SP No.2 *Except* 10-11:2x3 SPF No.2 WEBS

2x3 SPF No.2 OTHERS

BRACING TOP CHORD

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

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

bracing.

REACTIONS (size)

11=14-10-4, 12=14-10-4, 13=14-10-4, 14=14-10-4, 15=14-10-4, 16=14-10-4, 17=14-10-4, 18=14-10-4,

19=14-10-4 Max Horiz 19=178 (LC 9)

11=-44 (LC 9), 12=-109 (LC 13),

13=-76 (LC 13), 14=-78 (LC 13), 16=-80 (LC 12), 17=-74 (LC 12),

18=-120 (LC 12), 19=-97 (LC 8) 11=84 (LC 19), 12=202 (LC 20), Max Grav

13=187 (LC 20), 14=198 (LC 20), 15=191 (LC 22), 16=199 (LC 19), 17=188 (LC 19), 18=189 (LC 19),

19=197 (LC 20)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 2-19=-159/94, 1-2=0/41, 2-3=-130/119,

3-4=-96/96, 4-5=-89/170, 5-6=-129/251, 6-7=-130/252. 7-8=-88/169. 8-9=-63/81.

9-10=-71/67, 10-11=-60/34

18-19=-66/71, 17-18=-66/71, 16-17=-66/71, BOT CHORD

15-16=-66/71, 14-15=-66/71, 13-14=-66/71, 12-13=-66/71, 11-12=-66/71

WEBS 6-15=-188/42, 5-16=-159/123

4-17=-151/160, 3-18=-133/129,

7-14=-157/133, 8-13=-149/164,

9-12=-149/156

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Corner(3E) -0-11-0 to 4-1-0, Exterior(2N) 4-1-0 to 7-5-2, Corner(3R) 7-5-2 to 12-5-2, Exterior(2N) 12-5-2 to 14-9-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For study exposed to wind (normal to the face). see Standard Industry Gable End Details as applicable or consult qualified building designer as per ANSI/TPI 1.
- All plates are 1.5x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 10) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 97 lb uplift at joint 19, 44 lb uplift at joint 11, 80 lb uplift at joint 16, 74 lb uplift at joint 17, 120 lb uplift at joint 18, 78 lb uplift at joint 14, 76 lb uplift at joint 13 and 109 lb uplift at joint
- 12) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



October 6,2023



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

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



Job Truss Truss Type Qty Ply Roof - Osage Lot 79 3 P240539-01 G2A Common Girder Job Reference (optiona

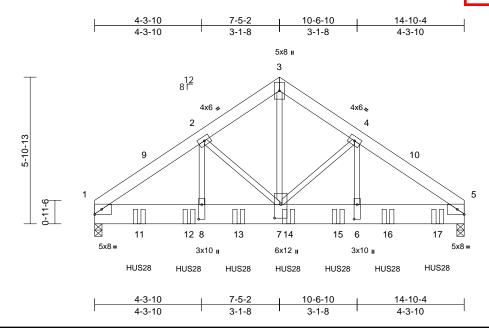
S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 161197930 LEE'S SUMMIT. MISSOURI

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

Run: 8.63 S Aug 30 2023 Print: 8.630 S Aug 30 2023 MiTek Industries, Inc. Ved Oct 14 1209/32 ID:P3Fn?fAeoNHL7fkarwdBaSz_WL4-RfC?PsB70Hq3NSgPqnL8w3uITXbGł

WrCDoi 34z.

RELEASE FOR CONSTRUCTION



Scale = 1:46.3

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.22	Vert(LL)	-0.05	6-7	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.24	Vert(CT)	-0.09	6-7	>999	180		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.90	Horz(CT)	0.02	5	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 317 lb	FT = 20%

LUMBER

TOP CHORD 2x6 SPF No.2 **BOT CHORD** 2x10 SP 2400F 2.0E 2x3 SPF No.2 WEBS

BRACING

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins.

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

bracing.

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

Max Horiz 1=-146 (LC 10)

Max Uplift 1=-1105 (LC 12), 5=-1212 (LC 13) Max Grav 1=7954 (LC 2), 5=8734 (LC 2)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD

1-2=-9871/1429, 2-3=-7507/1164, 3-4=-7508/1164, 4-5=-9913/1435

BOT CHORD 1-8=-1108/7790, 7-8=-1111/7813,

6-7=-1074/7850, 5-6=-1071/7825

WFBS 2-8=-416/3290, 3-7=-1166/7827,

2-7=-2163/406, 4-6=-422/3347,

4-7=-2214/416

NOTES

- 3-ply truss to be connected together with 10d (0.131"x3") nails as follows:
 - Top chords connected as follows: 2x6 2 rows staggered at 0-9-0 oc.
 - Bottom chords connected as follows: 2x10 5 rows staggered at 0-7-0 oc.
- Web connected as follows: 2x3 1 row at 0-9-0 oc. All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- 3) Unbalanced roof live loads have been considered for this design.

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-1-12 to 5-1-12, Interior (1) 5-1-12 to 7-5-2, Exterior(2R) 7-5-2 to 12-5-2, Interior (1) 12-5-2 to 14-8-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SP 2400F 2.0E crushing capacity of 805 psi.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1105 lb uplift at joint 1 and 1212 lb uplift at joint 5.
- 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) Use Simpson Strong-Tie HUS28 (22-10d Girder, 4-10d Truss) or equivalent spaced at 12-0-0 oc max. starting at 1-9-8 from the left end to 13-9-8 to connect truss(es) to back face of bottom chord.
- 11) Use Simpson Strong-Tie HUS28 (22-16d Girder, 4-16d Truss, Single Ply Girder) or equivalent spaced at 2-0-0 oc max. starting at 3-9-8 from the left end to 11-9-8 to connect truss(es) to back face of bottom chord.
- 12) Fill all nail holes where hanger is in contact with lumber.

LOAD CASE(S) Standard

Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (lb/ft)

Vert: 1-3=-70, 3-5=-70, 1-5=-20 Concentrated Loads (lb)

Vert: 11=-2126 (B), 12=-2126 (B), 13=-2126 (B), 14=-2126 (B), 15=-2126 (B), 16=-2126 (B), 17=-2127 (B)



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

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



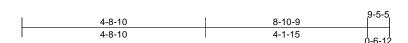
Truss Type Ply Job Truss Qty Roof - Osage Lot 79 P240539-01 V5 Valley Job Reference (optiona

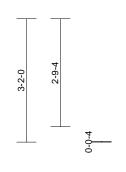
Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083,

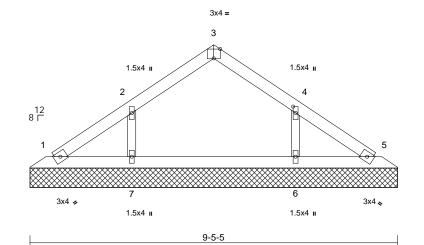
Run: 8.63 S Aug 30 2023 Print: 8.630 S Aug 30 2023 MiTek Industries, Inc. Ved Oct 14 ID:tyIEz_eIEbE7?C0qx_G0ijymfrJ-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zbc

S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 161197931 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION







Scale = 1:29.6

Plate Offsets (X, Y): [3:0-2-0,Edge], [4:0-1-15,0-0-12]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.07	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.11	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.04	Horiz(TL)	0.00	5	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							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 Structural wood sheathing directly applied or

6-0-0 oc purlins.

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

bracing.

REACTIONS 1=9-5-5, 5=9-5-5, 6=9-5-5, 7=9-5-5 (size)

Max Horiz 1=-80 (LC 8)

1=-5 (LC 13), 5=-4 (LC 12), 6=-82 Max Uplift

(LC 13), 7=-83 (LC 12)

1=127 (LC 1), 5=127 (LC 1), 6=256 Max Grav

(LC 20), 7=257 (LC 19)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=-151/26, 2-3=-159/76, 3-4=-159/76, 4-5=-149/23

BOT CHORD 1-7=-14/109, 6-7=-14/109, 5-6=-14/109 WEBS 2-7=-178/151, 4-6=-177/151

NOTES

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

- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 5 lb uplift at joint 1, 4 lb uplift at joint 5, 83 lb uplift at joint 7 and 82 lb uplift at joint 6.
- 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



October 6,2023



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

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



 Job
 Truss
 Truss Type
 Qty
 Ply
 Roof - Osage Lot 79

 P240539-01
 V6
 Valley
 1
 1
 Job Reference (optional)

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

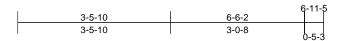
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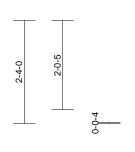
RELEASE FOR CONSTRUCTION

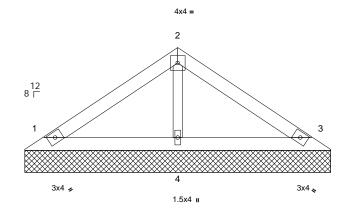
AS NOTED FOR PLAN REVIEW

DEVELOPMENT SERVICES
16197932

LEE'S SUMMIT, MISSOURI







6-11-5

Scale = 1:26.2

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	0.20	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.09	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.03	Horiz(TL)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 23 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins.

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

bracing.

REACTIONS (size) 1=6-11-5, 3=6-11-5, 4=6-11-5

Max Horiz 1=-56 (LC 10)

Max Uplift 1=-39 (LC 12), 3=-46 (LC 13) Max Grav 1=153 (LC 1), 3=153 (LC 1), 4=238

(LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-96/61, 2-3=-91/61

BOT CHORD 1-4=-12/45, 3-4=-12/45

WEBS 2-4=-162/92

NOTES

-) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) Gable requires continuous bottom chord bearing.
- 5) Gable studs spaced at 4-0-0 oc.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 8) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 39 lb uplift at joint 1 and 46 lb uplift at joint 3.
- This truss is designed in accordance with the 2018
 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



October 6,2023

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

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



Ply Job Truss Truss Type Qty Roof - Osage Lot 79 P240539-01 V7 Valley Job Reference (optional

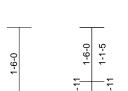
Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083,

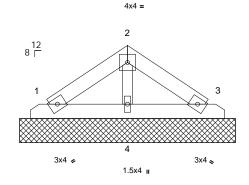
Run: 8.63 S Aug 30 2023 Print: 8.630 S Aug 30 2023 MiTek Industries, Inc. Ved Oct 14 16 9 83 ID:SZ1peW_Ry0QnXvtSnflLWKymfs9-RfC?PsB70Hq3NSgPqnL8w3ulTXbG WrCDoi N42 9 16

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 161197933 LEE'S SUMMIT. MISSOURI



		4-0-0
2-0-0	3-7-15	
2-0-0	1-7-15	0-4-1





4-0-0

Scale = 1:23.7

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	0.05	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.03	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.01	Horiz(TL)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 13 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or

4-6-1 oc purlins.

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

bracing.

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

Max Horiz 1=33 (LC 9)

Max Uplift 1=-21 (LC 12), 3=-25 (LC 13) Max Grav 1=83 (LC 1), 3=83 (LC 1), 4=120

(LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-56/38, 2-3=-53/38

BOT CHORD 1-4=-7/26, 3-4=-7/26

WFBS 2-4=-81/51

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.
- This truss has been designed for a 10.0 psf bottom 6) chord live load nonconcurrent with any other live loads.

- 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 21 lb uplift at joint 1 and 25 lb uplift at joint 3.
- 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



October 6,2023



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

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



RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES LEE'S SUMMICE OF STATE 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.

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

connector plates.

This symbol indicates the required direction of slots in ₹

edge of truss.

For 4 x 2 orientation, locate plates 0- "46" from outside

PLATE SIZE

4 × 4

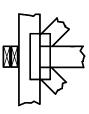
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING LOCATION



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

BEARING



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

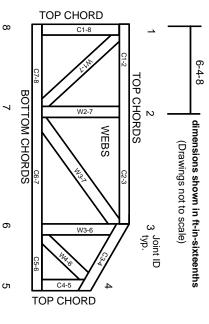
Industry Standards:

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

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

ANSI/TPI1: DSB-22:

Numbering System



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

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

Product Code Approvals

ICC-ES Reports:

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

Design General Notes

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

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

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

General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

- Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI
- Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves may require bracing, or alternative Tor I bracing should be considered.
- 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.
- Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.

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