



09/26/2023

RE: P230318-01  
Roof - Osage Lot 5

MiTek USA, Inc.  
16023 Swingley Ridge Rd  
Chesterfield, MO 63017  
314-434-1200

**Site Information:**

Customer: Clover & Hive Project Name: P230318-01  
Lot/Block: 5 Model:  
Address: 2002/2004/2006/2008 SW Holdbrook Dr. Subdivision: 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  
Wind Code: ASCE 7-16  
Roof Load: 45.0 psf

Design Program: MiTek 20/20 8.6  
Wind Speed: 115 mph  
Floor Load: N/A psf

This package includes 27 individual, dated Truss Design Drawings and 0 Additional Drawings.

No.	Seal#	Truss Name	Date	No.	Seal#	Truss Name	Date
1	I59271032	A1	6/30/2023	21	I59271052	V2	6/30/2023
2	I59271033	A2	6/30/2023	22	I59271053	V3	6/30/2023
3	I59271034	A3	6/30/2023	23	I59271054	V4	6/30/2023
4	I59271035	A4	6/30/2023	24	I59271055	V5	6/30/2023
5	I59271036	B1	6/30/2023	25	I59271056	V6	6/30/2023
6	I59271037	B2	6/30/2023	26	I59271057	V7	6/30/2023
7	I59271038	C1	6/30/2023	27	I59271058	V8	6/30/2023
8	I59271039	C2	6/30/2023				
9	I59271040	C3	6/30/2023				
10	I59271041	C4	6/30/2023				
11	I59271042	D1	6/30/2023				
12	I59271043	D2	6/30/2023				
13	I59271044	D3	6/30/2023				
14	I59271045	E1	6/30/2023				
15	I59271046	E2	6/30/2023				
16	I59271047	G1	6/30/2023				
17	I59271048	G1A	6/30/2023				
18	I59271049	G2	6/30/2023				
19	I59271050	G2A	6/30/2023				
20	I59271051	V1	6/30/2023				

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: Nathan Fox

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

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.



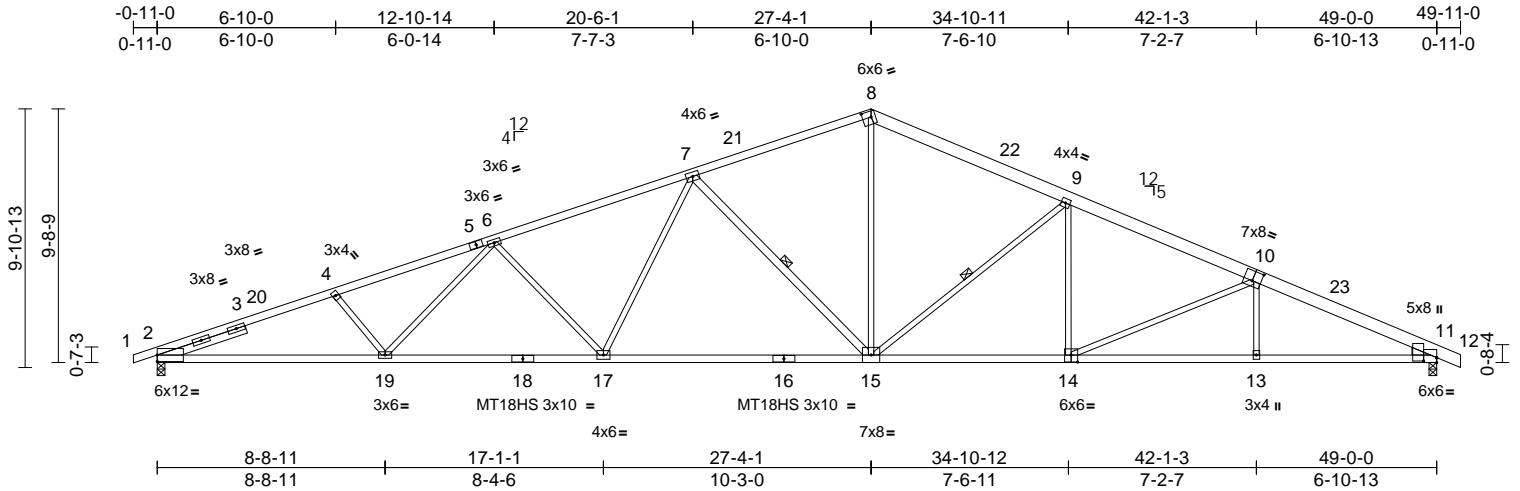
June 30, 2023

Job	Truss	Truss Type	Qty	Ply	Roof - Osage Lot 5	RELEASE FOR CONSTRUCTION
P230318-01	A1	Roof Special Structural Gable	1	1	Job Reference (optional)	AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 159271032 LEE'S SUMMIT, MISSOURI

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

Run: 8.63 S Apr 6 2023 Print: 8.630 S Apr 6 2023 MiTek Industries, Inc. Thu Jun 29 13:03:55  
ID:kkw6VMCTKypIjEPYbt576Oz\_rGt-RfC?PsB70Hq3NSgPqnL8w3ulTXbGK1VrCDoi7J42J641 Page: 1

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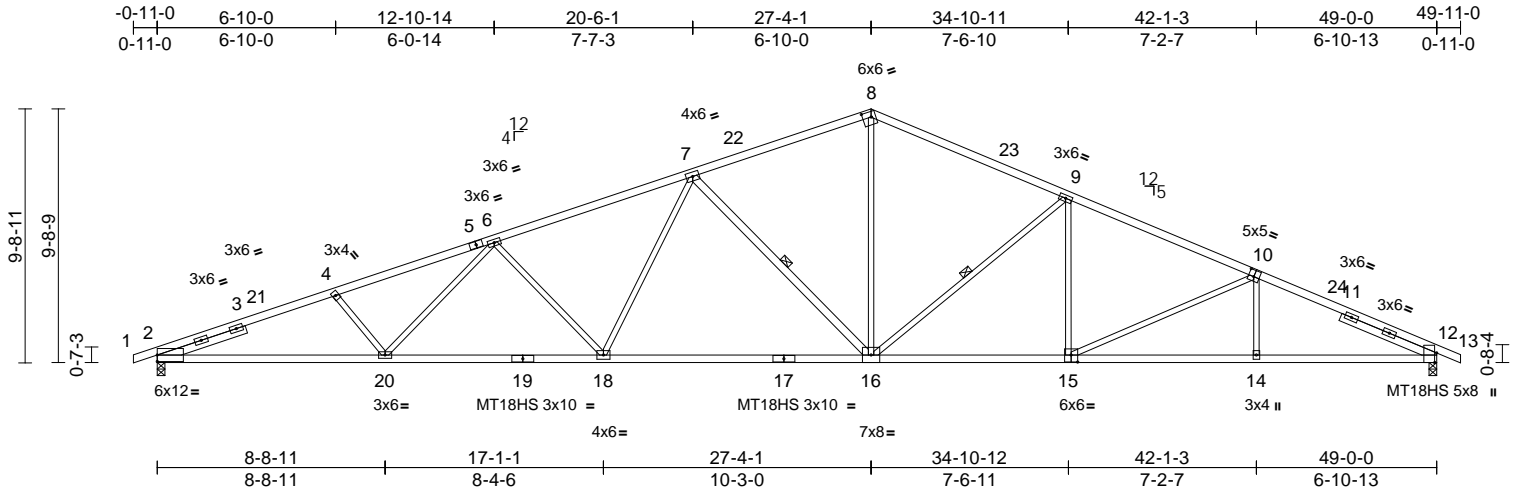
Job	Truss	Truss Type	Qty	Ply	Roof - Osage Lot 5	RELEASE FOR CONSTRUCTION
P230318-01	A2	Roof Special	2	1	Job Reference (optional)	AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 159271033 LEE'S SUMMIT, MISSOURI

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

Run: 8.63 S Apr 6 2023 Print: 8.630 S Apr 6 2023 MiTek Industries, Inc. Thu Jun 29 13:43:39 Page: 1

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09/26/2023



Scale = 1:88.2									
Plate Offsets (X, Y): [8:0-3-15,0-2-8], [10:0-2-8,0-3-0], [12:0-4-7,Edge], [15:0-3-0,0-3-4]									
<b>Loading</b>	(psf)	<b>Spacing</b>	2-0-0	<b>CSI</b>		<b>DEFL</b>	in (loc)	l/defl	L/d
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.88	Vert(LL)	-0.42 18	>999	240
TCDL	10.0	Lumber DOL	1.15	BC	0.99	Vert(CT)	-0.93 16-18	>634	180
BCLL	0.0	Rep Stress Incr	NO	WB	0.89	Horz(CT)	0.26 12	n/a	n/a
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-SH					
Weight: 226 lb FT = 20%									

**LUMBER**

TOP CHORD 2x4 SP 2400F 2.0E \*Except\* 5-8:2x4 SP 1650F 1.5E

BOT CHORD 2x4 SP 2400F 2.0E \*Except\* 0-0:2x4 SP No.2, 19-17,17-15:2x4 SP 1650F 1.5E

WEBS 2x3 SPF No.2 \*Except\* 16-7:2x4 SP No.2

SLIDER Left 2x4 SP No.2 -- 3-6-9, Right 2x4 SP No.2 -- 3-11-8

**BRACING**

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

BOT CHORD Rigid ceiling directly applied or 7-11-5 oc bracing.

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

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

Max Horiz 2=172 (LC 16)

Max Uplift 2=407 (LC 8), 12=313 (LC 13)

Max Grav 2=2269 (LC 1), 12=2269 (LC 1)

**FORCES** (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/0, 2-4=-5417/1094, 4-6=-5172/1061, 6-7=-4387/945, 7-8=-3099/768, 8-9=-3214/777, 9-12=-4544/913, 12-13=0/0

BOT CHORD 2-20=-939/4992, 18-20=-806/4599, 16-18=-597/3715, 14-16=-721/4023, 12-14=-720/4024

WEBS 4-20=-235/180, 7-18=-109/861, 8-16=-316/1697, 7-16=-1257/374, 6-18=-782/288, 6-20=-57/450, 10-14=0/265, 9-15=0/410, 9-16=-1002/318, 10-15=-532/192

- 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 27-4-1, Exterior(2R) 27-4-1 to 32-4-1, Interior (1) 32-4-1 to 49-11-0 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.
- All plates are 3x6 MT20 unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- All bearings are assumed to be SP 2400F 2.0E crushing capacity of 805 psi.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

**LOAD CASE(S)** Standard



June 30,2023

16023 Swingley Ridge Rd  
Chesterfield, MO 63017

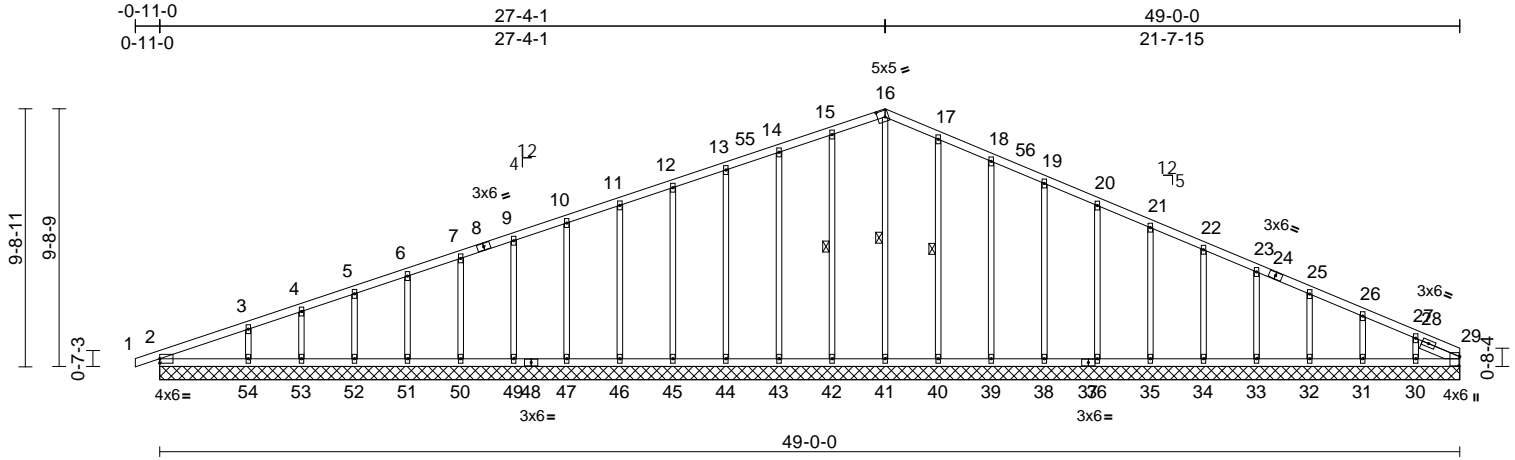
Job	Truss	Truss Type	Qty	Ply	Roof - Osage Lot 5	RELEASE FOR CONSTRUCTION
P230318-01	A4	Roof Special Supported Gable	1	1	Job Reference (optional)	AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 159271035 LEE'S SUMMIT, MISSOURI

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

Run: 8.63 E Jun 15 2023 Print: 8.630 E Jun 15 2023 MiTek Industries, Inc. Thu Jun 29 14:52:52 Page: 1

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09/26/2023



Scale = 1:86.8

Plate Offsets (X, Y): [16:0-3-7,0-3-0], [29:0-4-3,0-0-6]

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	0.14	Vert(LL)	n/a	-	n/a	999	MT20
TCDL	10.0	Lumber DOL	1.15	BC	0.04	Vert(CT)	n/a	-	n/a	999	244/190
BCLL	0.0	Rep Stress Incr	NO	WB	0.23	Horz(CT)	0.01	29	n/a	n/a	
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-SH							
Weight: 246 lb FT = 20%											

#### LUMBER

TOP CHORD	2x4 SP No.2
BOT CHORD	2x4 SP 2400F 2.0E *Except* 37-48:2x4 SP No.2
OTHERS	2x3 SPF No.2
SLIDER	Right 2x4 SPF No.3 -- 1-6-11

#### BRACING

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	1 Row at midpt 16-41, 15-42, 17-40

#### REACTIONS

All bearings 49-0-0.	
(lb) - Max Horiz	2=174 (LC 16)
Max Uplift	All uplift 100 (lb) or less at joint(s)
	2, 30, 31, 32, 33, 34, 35, 36, 38, 39, 40, 42, 43, 44, 45, 46, 47, 49, 50, 51, 52, 53, 54
Max Grav	All reactions 250 (lb) or less at joint (s) 2, 29, 30, 31, 32, 33, 34, 35, 36, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 49, 50, 51, 52, 53 except 54=300 (LC 25)

#### FORCES

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.	
TOP CHORD	14-15=101/265, 15-16=112/289, 16-17=115/284

#### 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 4-1-0, Exterior(2N) 4-1-0 to 27-4-1, Corner(3R) 27-4-1 to 32-4-1, Exterior(2N) 32-4-1 to 49-0-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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 2x4 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.
- Solid blocking is required on both sides of the truss at joint(s), 2.
- Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 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



June 30, 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



16023 Swingley Ridge Rd  
Chesterfield, MO 63017





Job	Truss	Truss Type	Qty	Ply	Roof - Osage Lot 5
P230318-01	B1	Roof Special Structural Gable	4	1	Job Reference (optional)

RELEASE FOR CONSTRUCTION

AS NOTED FOR PLAN REVIEW

DEVELOPMENT SERVICES

159271036

LEE'S SUMMIT, MISSOURI

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

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

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



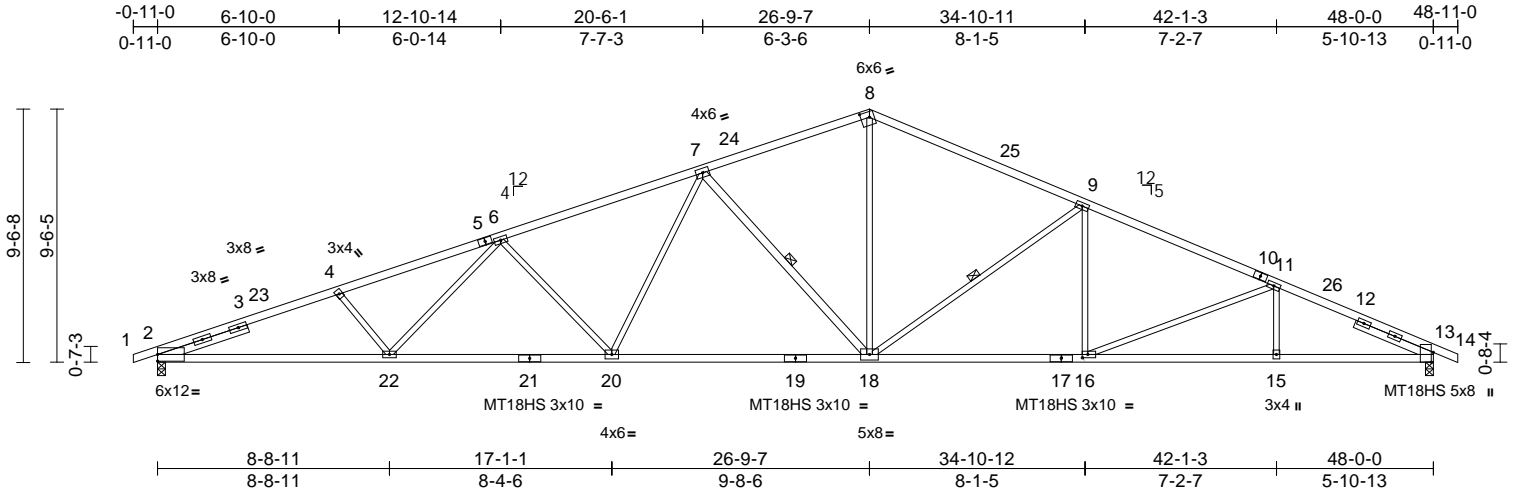
16023 Swingley Ridge Rd  
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Roof - Osage Lot 5	RELEASE FOR CONSTRUCTION
P230318-01	B2	Roof Special	8	1	Job Reference (optional)	AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 159271037 LEE'S SUMMIT, MISSOURI

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

Run: 8.63 S Apr 6 2023 Print: 8.630 S Apr 6 2023 MiTek Industries, Inc. Thu Jun 29 13:03:33 Page: 1  
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09/26/2023



Scale = 1:86.7

Plate Offsets (X, Y): [8:0-3-15,0-2-8], [13:0-4-7,Edge], [16:0-2-8,0-1-8]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.87	Vert(LL)	-0.40	20-22	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.95	Vert(CT)	-0.85	18-20	>677	180	MT18HS	244/190
BCLL	0.0	Rep Stress Incr	NO	WB	0.94	Horz(CT)	0.25	13	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-SH								
											Weight: 218 lb	FT = 20%

#### LUMBER

TOP CHORD 2x4 SP 2400F 2.0E \*Except\* 5-8:2x4 SP 1650F 1.5E  
 BOT CHORD 2x4 SP 2400F 2.0E \*Except\* 17-19,19-21:2x4 SP 1650F 1.5E  
 WEBS 2x3 SPF No.2 \*Except\* 18-7:2x4 SP No.2  
 SLIDER Left 2x4 SPF No.3 -- 3-6-9, Right 2x4 SPF No.3 -- 3-2-1

#### BRACING

TOP CHORD Structural wood sheathing directly applied or 2-6-6 oc purlins.  
 BOT CHORD Rigid ceiling directly applied or 8-0-13 oc bracing.

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

**REACTIONS** (size) 2=0-3-8, 13=0-3-8  
 Max Horiz 2=169 (LC 12)  
 Max Uplift 2=399 (LC 8), 13=308 (LC 13)  
 Max Grav 2=2224 (LC 1), 13=2224 (LC 1)

#### FORCES

(lb) - Maximum Compression/Maximum Tension  
 TOP CHORD 1-2=0/0, 2-4=-5292/1071, 4-6=-5046/1038, 6-7=-4248/922, 7-8=-3028/756, 8-9=-3158/759, 9-11=-3967/856, 11-13=-4430/895, 13-14=0/0  
 BOT CHORD 2-22=-917/4876, 20-22=-785/4475, 18-20=-572/3582, 16-18=-601/3609, 15-16=-715/3920, 13-15=-715/3920  
 WEBS 4-22=-238/180, 8-18=-308/1653, 6-22=-55/458, 7-20=-117/860, 7-18=-1209/360, 6-20=-793/290, 11-15=0/226, 9-16=0/396, 9-18=-1028/324, 11-16=-423/169

#### NOTES

1) 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 26-9-7, Exterior(2R) 26-9-7 to 31-9-7, Interior (1) 31-9-7 to 48-11-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) All plates are MT20 plates unless otherwise indicated.
- 4) All plates are 3x6 MT20 unless otherwise indicated.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) All bearings are assumed to be SP 2400F 2.0E crushing capacity of 805 psi.
- 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



June 30,2023

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



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 Chesterfield, MO 63017



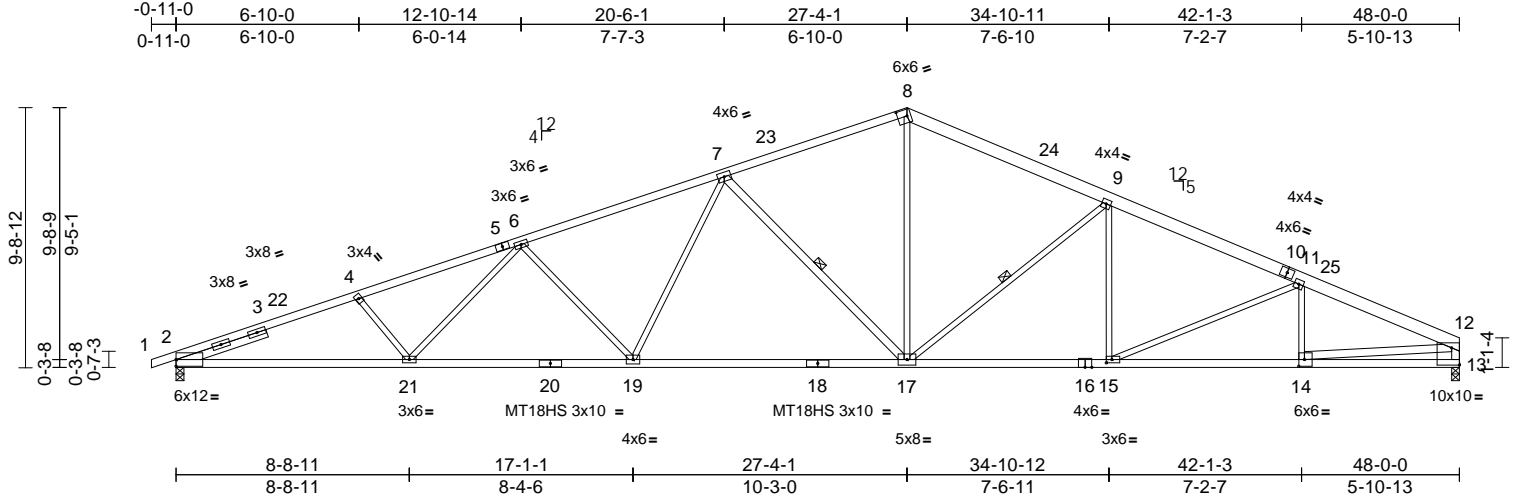
Job	Truss	Truss Type	Qty	Ply	Roof - Osage Lot 5	RELEASE FOR CONSTRUCTION
P230318-01	C1	Roof Special Structural Gable	1	1	Job Reference (optional)	AS NOTED FOR PLAN REVIEW
						DEVELOPMENT SERVICES
						159271038
						LEE'S SUMMIT, MISSOURI

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

Run: 8.63 S Apr 6 2023 Print: 8.630 S Apr 6 2023 MiTek Industries, Inc. Thu Jun 29 13:03:33 Page: 1

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09/26/2023



Scale = 1:86.2									
Plate Offsets (X, Y): [8:0-4-4,0-3-0], [13:Edge,0-7-12], [14:0-2-8,0-3-0], [15:0-2-8,0-1-8]									
Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.89	Vert(LL)	-0.38	19-21	>999
TCDL	10.0	Lumber DOL	1.15	BC	0.97	Vert(CT)	-0.85	17-19	>673
BCLL	0.0	Rep Stress Incr	NO	WB	0.77	Horz(CT)	0.22	13	n/a
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-SH					
					PLATES		GRIP		
					MT20		244/190		
					MT18HS		244/190		
					Weight: 230 lb		FT = 20%		

**LUMBER**  
TOP CHORD 2x6 SPF No.2 \*Except\* 1-5:2x4 SP 2400F 2.0E, 5-8:2x4 SP 1650F 1.5E  
BOT CHORD 2x4 SP 2400F 2.0E \*Except\* 18-20,18-16:2x4 SP 1650F 1.5E  
WEBS 2x3 SPF No.2 \*Except\* 13-12:2x4 SP No.3, 17-7,14-12:2x4 SP No.2  
SLIDER Left 2x4 SPF No.3 -- 3-6-9  
**BRACING**  
TOP CHORD Structural wood sheathing directly applied or 2-7-9 oc purlins, except end verticals.  
BOT CHORD Rigid ceiling directly applied or 7-9-15 oc bracing.  
WEBS 1 Row at midpt 7-17, 9-17  
**REACTIONS** (size) 2=0-3-8, 13=0-3-8  
Max Horiz 2=174 (LC 16)  
Max Uplift 2=402 (LC 8), 13=277 (LC 13)  
Max Grav 2=2218 (LC 1), 13=2153 (LC 1)  
**FORCES** (lb) - Maximum Compression/Maximum Tension  
TOP CHORD 1-2=0/0, 2-4=-5276/1068, 4-6=-5028/1035, 6-7=-4234/916, 7-8=-2950/739, 8-9=-3072/754, 9-11=-3731/826, 11-12=-3865/811, 12-13=-2083/495  
BOT CHORD 2-21=-941/4860, 19-21=-829/4457, 17-19=-626/3568, 15-17=-587/3364, 14-15=-698/3493, 13-14=-109/377  
WEBS 4-21=-239/180, 8-17=-298/1588, 6-19=-786/288, 11-14=-306/170, 9-15=0/321, 11-15=-265/142, 7-17=-1240/370, 6-21=-58/455, 9-17=-886/302, 7-19=-110/863, 12-14=-594/3144

**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 27-4-1, Exterior(2R) 27-4-1 to 32-4-1, Interior (1) 32-4-1 to 47-10-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- All plates are MT20 plates unless otherwise indicated.
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- All bearings are assumed to be SP 2400F 2.0E crushing capacity of 805 psi.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

**LOAD CASE(S)** Standard



June 30,2023

**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



16023 Swingley Ridge Rd  
Chesterfield, MO 63017

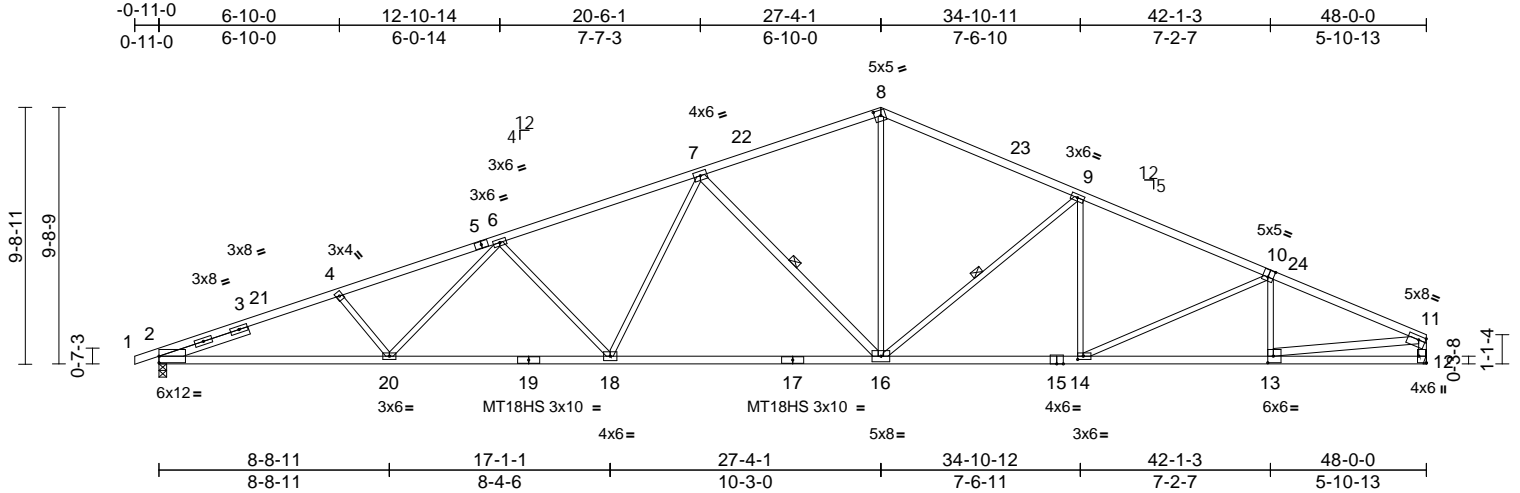
Job	Truss	Truss Type	Qty	Ply	Roof - Osage Lot 5	RELEASE FOR CONSTRUCTION
P230318-01	C2	Roof Special	2	1	Job Reference (optional)	AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 159271039 LEE'S SUMMIT, MISSOURI

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

Run: 8.63 S Apr 6 2023 Print: 8.630 S Apr 6 2023 MiTek Industries, Inc. Thu Jun 29 13:03:44 Page: 1

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09/26/2023



Scale = 1:87.3

Plate Offsets (X, Y): [8:0-2-15,0-2-8], [10:0-2-8,0-3-4], [11:0-3-0,0-1-12], [12:Edge,0-3-8], [13:0-2-8,0-3-0], [14:0-2-8,0-1-8]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.92	Vert(LL)	-0.39	18-20	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.97	Vert(CT)	-0.87	16-18	>662	180	MT18HS	244/190
BCLL	0.0	Rep Stress Incr	NO	WB	0.78	Horz(CT)	0.22	12	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-SH							Weight: 224 lb	FT = 20%

#### LUMBER

TOP CHORD 2x4 SP 2400F 2.0E \*Except\* 10-11:2x4 SP No.2, 5-8:2x4 SP 1650F 1.5E  
 BOT CHORD 2x4 SP 2400F 2.0E \*Except\* 15-17,17-19:2x4 SP 1650F 1.5E  
 WEBS 2x3 SPF No.2 \*Except\* 12-11:2x4 SPF No.3, 16-7,13-11:2x4 SP No.2  
 SLIDER Left 2x4 SPF No.3 -- 3-6-9

#### BRACING

TOP CHORD Structural wood sheathing directly applied, except end verticals.  
 BOT CHORD Rigid ceiling directly applied or 7-9-10 oc bracing.

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

**REACTIONS** (size) 2=0-3-8, 12= Mechanical  
 Max Horiz 2=175 (LC 16)  
 Max Uplift 2=401 (LC 8), 12=277 (LC 13)  
 Max Grav 2=2218 (LC 1), 12=2153 (LC 1)

#### FORCES

(lb) - Maximum Compression/Maximum Tension  
 TOP CHORD 1-2=0/0, 2-4=-5276/1068, 4-6=-5028/1035, 6-7=-4234/916, 7-8=-2943/739, 8-9=-3052/751, 9-11=-3771/819, 11-12=-2084/495  
 BOT CHORD 2-20=-947/4860, 18-20=-835/4457, 16-18=-632/3568, 14-16=-582/3318, 13-14=-687/3419, 12-13=-102/254  
 WEBS 4-20=-240/180, 8-16=-298/1580, 6-20=-58/455, 7-18=-109/863, 7-16=-1258/374, 6-18=-784/288, 10-13=-362/179, 9-14=0/314, 9-16=-852/294, 10-14=-242/138, 11-13=-589/3196

#### 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 27-4-1, Exterior(2R) 27-4-1 to 32-4-1, Interior (1) 32-4-1 to 47-10-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- All plates are MT20 plates unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Bearings are assumed to be: Joint 2 SP 2400F 2.0E crushing capacity of 805 psi, Joint 12 SPF No.3 crushing capacity of 425 psi.
- Refer to girder(s) for truss to truss connections.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

**LOAD CASE(S)** Standard



June 30,2023

**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



16023 Swingley Ridge Rd  
 Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Roof - Osage Lot 5
P230318-01	C3	Roof Special	5	1	Job Reference (optional)

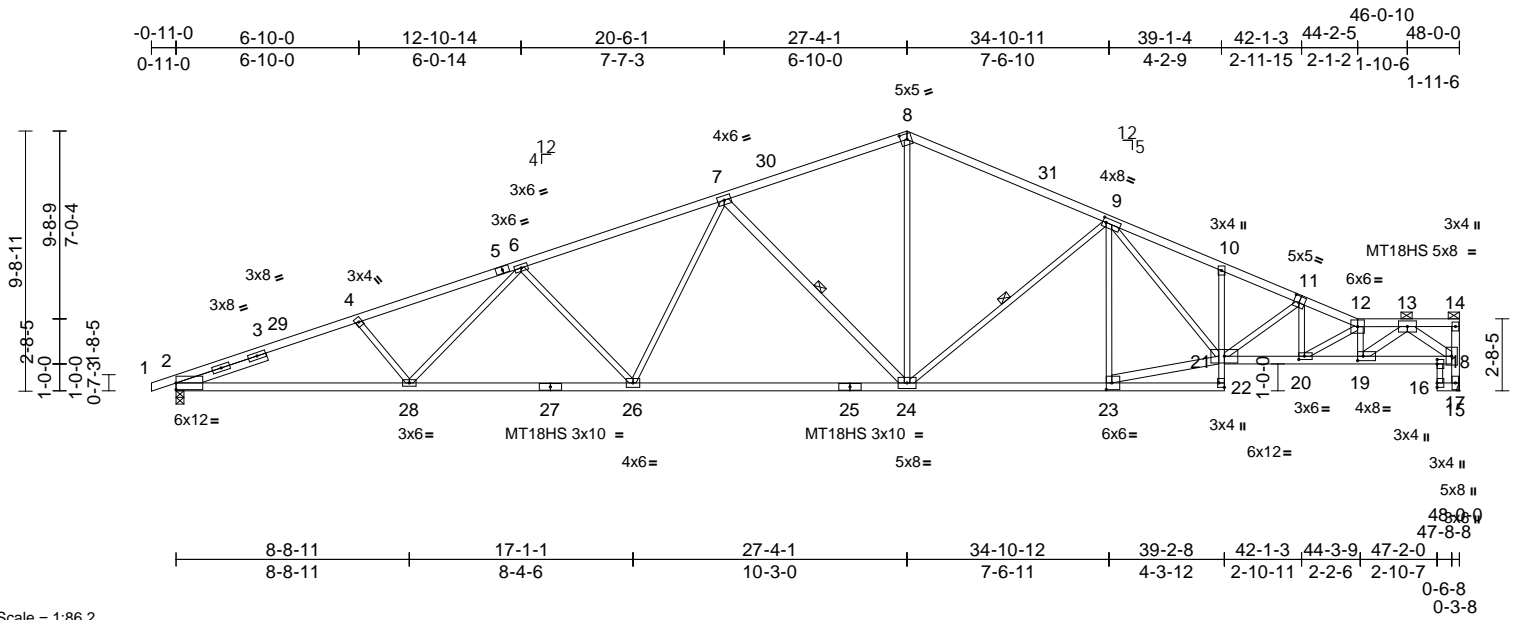
AS NOTED FOR PLAN REVIEW  
DEVELOPMENT SERVICES  
159271040  
LEE'S SUMMIT, MISSOURI

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

Run: 8.63 S Apr 6 2023 Print: 8.630 S Apr 6 2023 MiTek Industries, Inc. Thu Jun 29 13:03:44 Page: 1

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09/26/2023



Scale = 1:86.2

Plate Offsets (X, Y): [8:0-2-15,0-2-8], [9:0-1-8,0-2-0], [11:0-2-8,0-3-0], [18:0-2-0,Edge], [19:0-2-8,0-2-0], [20:0-2-8,0-1-8], [22:Edge,0-2-8], [23:0-2-8,0-3-0]

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	0.84	Vert(LL)	-0.42	24-26	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.97	Vert(CT)	-0.93	24-26	>619	180	MT18HS	244/190
BCLL	0.0	Rep Stress Incr	NO	WB	0.79	Horz(CT)	0.34	15	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-SH							Weight: 238 lb	FT = 20%

<b>LUMBER</b>		
TOP CHORD	2x4 SP 2400F 2.0E *Except* 11-12,12-14:2x4 SP No.2, 5-8:2x4 SP 1650F 1.5E	
BOT CHORD	2x4 SP 2400F 2.0E *Except* 22-10,18-16:2x3 SPF No.2, 21-17,25-27:2x4 SP 1650F 1.5E, 16-15:2x4 SP No.2	
WEBS	2x3 SPF No.2 *Except* 24-7,21-23,15-14,19-13,13-17:2x4 SP No.2	
SLIDER	Left 2x4 SPF No.3 -- 3-6-9	

## WEBS

4-28=240/180, 8-24=284/1575,  
6-28=57/457, 7-26=111/860,  
7-24=1256/375, 6-26=785/288,  
11-20=29/298, 9-23=648/211,  
9-24=833/286, 21-23=605/3231,  
9-21=352/1665, 11-21=574/148,  
12-20=363/91, 12-19=1883/404,  
15-17=2101/460, 14-17=56/31,  
13-19=564/3006, 13-17=3300/717

## NOTES

- 1) 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 27-4-1, Exterior(2R) 27-4-1 to 32-4-1, Interior (1) 32-4-1 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
- 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) Bearings are assumed to be: Joint 2 SP 2400F 2.0E crushing capacity of 805 psi, Joint 15 SPF No.3 crushing capacity of 425 psi.
- 7) Refer to girder(s) for truss to truss connections.
- 8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 9) 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



June 30,2023

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

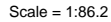
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall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



16023 Swingley Ridge Rd  
Chesterfield, MO 63017

[illegible]

TOP CHORD 2x4 SP No.2  
BOT CHORD 2x4 SP No.2  
WEBS 2x4 SPF No.3  
OTHERS 2x3 SPF No.2  
SLIDER Left 2x4 SPF No.3 -- 3-4-15

**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.

WEBS	1 Row at midpt	16-41, 15-42, 17-40
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(lb) - Max Horiz 2=175 (LC 12)  
 Max Uplift All uplift 100 (lb) or less at joint(s)  
 2, 29, 31, 32, 33, 34, 35, 36, 38,  
 39, 40, 42, 44, 45, 46, 47, 48, 50,  
 51, 52, 53, 54, 55 except 30=211  
 (LC 13)  
 Max Grav All reactions 250 (lb) or less at joint  
 (s) 2, 29, 30, 31, 32, 33, 34, 35, 36,  
 38, 39, 40, 41, 42, 44, 45, 46, 47,  
 48, 50, 51, 52, 53, 54 except  
 55=268 (LC 25)

(lb) or less except when shown.

TOP CHORD 12-13=-101/255, 13-56=-112/276,  
14-56=-100/283, 14-15=-124/312,  
15-16=-134/336, 16-17=-138/332,  
17-18=-124/274

1) 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=.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 27-4-1, Corner(3R) 27-4-1 to  
32-4-1, Exterior(2N) 32-4-1 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
- 3) Truss designed for wind loads in the plane of the truss  
only. For studs exposed to wind (normal to the face),  
see Standard Industry Gable End Details as applicable,  
or consult qualified building designer as per ANSI/TPI 1.
- 4) All plates are 2x4 MT20 unless otherwise indicated.
- 5) Gable requires continuous bottom chord bearing.
- 6) Gable studs spaced at 2-0-0 oc.
- 7) This truss has been designed for a 10.0 psf bottom  
chord live load nonconcurrent with any other live loads.
- 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



June 30, 2023



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



16023 Swingley Ridge Rd  
Chesterfield, MO 63017



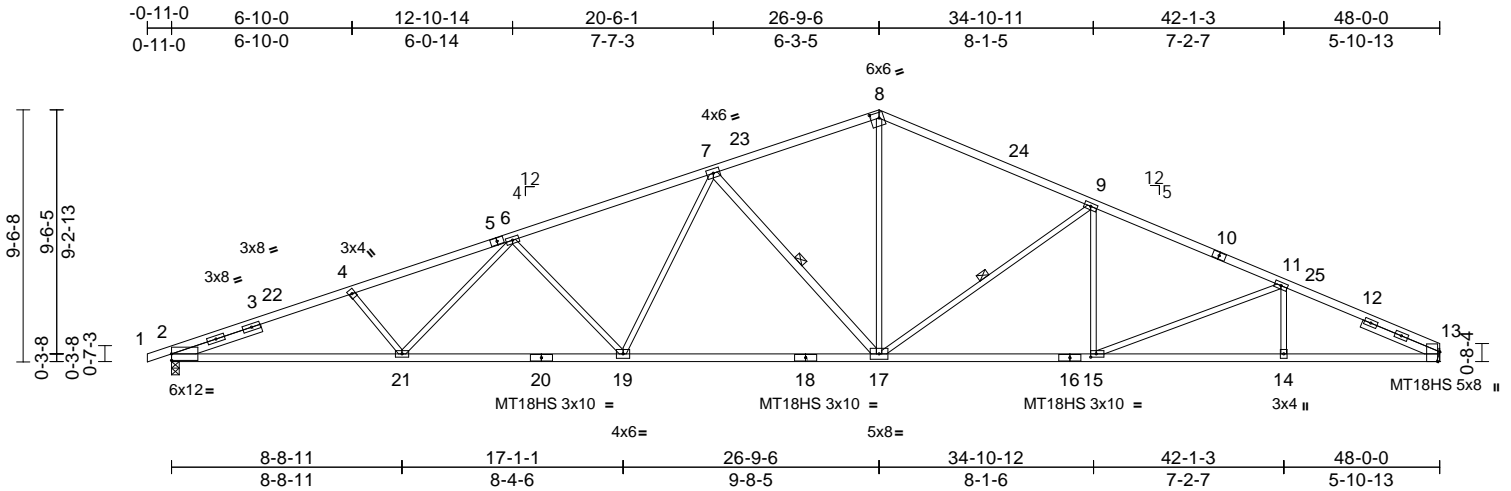
Job	Truss	Truss Type	Qty	Ply	Roof - Osage Lot 5	RELEASE FOR CONSTRUCTION
P230318-01	D1	Roof Special	4	1	Job Reference (optional)	AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 159271042 LEE'S SUMMIT, MISSOURI

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

Run: 8.63 S Apr 6 2023 Print: 8.630 S Apr 6 2023 MiTek Industries, Inc. Thu Jun 29 13:03:36 Page: 1

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09/26/2023



Scale = 1:87.2

Plate Offsets (X, Y): [8:0-3-15,0-2-8], [13:0-4-7,Edge], [15:0-2-8,0-1-8]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.87	Vert(LL)	-0.40	19-21	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.95	Vert(CT)	-0.85	17-19	>677	180	MT18HS	197/144
BCLL	0.0	Rep Stress Incr	NO	WB	0.95	Horz(CT)	0.25	13	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-SH								
											Weight: 217 lb	FT = 20%

#### LUMBER

TOP CHORD 2x4 SP 2400F 2.0E \*Except\* 5-8:2x4 SP 1650F 1.5E  
 BOT CHORD 2x4 SP 2400F 2.0E \*Except\* 18-20,18-16:2x4 SP 1650F 1.5E  
 WEBS 2x3 SPF No.2 \*Except\* 17-7:2x4 SP No.2  
 SLIDER Left 2x4 SPF No.3 -- 3-6-9, Right 2x4 SPF No.3 -- 3-2-1

#### BRACING

TOP CHORD Structural wood sheathing directly applied or 2-6-5 oc purlins.  
 BOT CHORD Rigid ceiling directly applied or 8-0-12 oc bracing.  
 WEBS 1 Row at midpt 7-17, 9-17

#### REACTIONS

(size) 2=0-3-8, 13= Mechanical  
 Max Horiz 2=169 (LC 16)  
 Max Uplift 2=399 (LC 8), 13=285 (LC 13)  
 Max Grav 2=2225 (LC 1), 13=2159 (LC 1)

#### FORCES

(lb) - Maximum Compression/Maximum Tension  
 TOP CHORD 1-2=0/0, 2-4=-5294/1072, 4-6=-5048/1039, 6-7=-4250/923, 7-8=-3031/757, 8-9=-3160/765, 9-11=-3969/870, 11-13=-4442/927  
 BOT CHORD 2-21=-918/4877, 19-21=-786/4476, 17-19=-572/3584, 15-17=-602/3614, 14-15=-743/3934, 13-14=-743/3934  
 WEBS 4-21=-238/180, 8-17=-313/1655, 6-21=-55/458, 7-19=-117/860, 7-17=-1209/360, 6-19=-793/290, 11-14=0/227, 9-15=0/398, 9-17=-1031/325, 11-15=-432/172

#### NOTES

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

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=0.96; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-11-0 to 4-1-0, Interior (1) 4-1-0 to 26-9-6, Exterior(2R) 26-9-6 to 31-9-6, Interior (1) 31-9-6 to 48-0-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- All plates are MT20 plates unless otherwise indicated.
- All plates are 3x6 MT20 unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Bearings are assumed to be: Joint 2 SP 2400F 2.0E crushing capacity of 805 psi, Joint 13 SPF No.3 crushing capacity of 425 psi.
- Refer to girder(s) for truss to truss connections.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



June 30,2023

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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

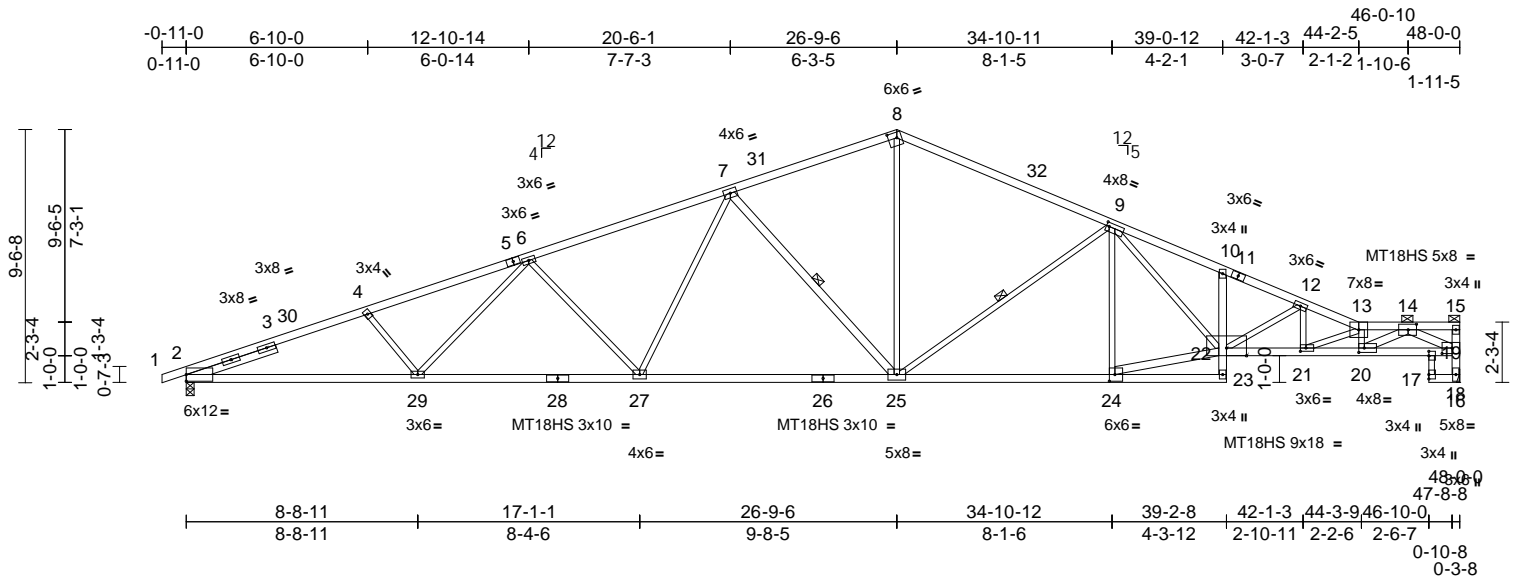


Job	Truss	Truss Type	Qty	Ply	Roof - Osage Lot 5	RELEASE FOR CONSTRUCTION
P230318-01	D2	Roof Special	10	1	Job Reference (optional)	AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 159271043 LEE'S SUMMIT, MISSOURI

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

Run: 8.63 S Apr 6 2023 Print: 8.630 S Apr 6 2023 MiTek Industries, Inc. Thu Jun 29 13:03:37 Page: 1  
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09/26/2023



Scale = 1:86.8

Plate Offsets (X, Y): [8:0-3-15,0-2-8], [9:0-1-4,0-1-12], [14:0-3-12,0-2-8], [18:0-4-8,0-2-8], [19:0-2-0,Edge], [20:0-2-8,0-2-0], [21:0-2-8,0-1-8], [24:0-2-8,0-3-0]

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	0.90	Vert(LL)	-0.48	25	>999	240	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.95	Vert(CT)	-1.00	25-27	>576	180	244/190
BCLL	0.0	Rep Stress Incr	NO	WB	0.91	Horz(CT)	0.40	16	n/a	n/a	
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-SH							
Weight: 237 lb FT = 20%											

<b>LUMBER</b>	
TOP CHORD	2x4 SP 2400F 2.0E *Except* 11-13:2x4 SP No.2, 13-15,5-8:2x4 SP 1650F 1.5E
BOT CHORD	2x4 SP 2400F 2.0E *Except* 23-10,17-16:2x4 SP No.2, 19-17:2x3 SPF No.2, 26-23,26-28:2x4 SP 1650F 1.5E
WEBS	2x3 SPF No.2 *Except* 25-7,22-24,16-15,18-14,14-20:2x4 SP No.2
SLIDER	Left 2x4 SPF No.3 -- 3-6-9

<b>WEBS</b>	4-29=-239/180, 6-29=-55/459, 7-27=-117/859, 6-27=-794/290, 8-25=-297/1629, 7-25=-1207/360, 12-21=-115/734, 9-24=-663/225, 9-25=-987/313, 22-24=-613/3325, 12-22=-1151/266, 9-22=-411/2002, 13-21=-1357/291, 16-18=-2105/459, 15-18=-67/33, 14-18=-4128/893, 14-20=-694/3727, 13-20=-1928/413
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<b>BRACING</b>	
TOP CHORD	Structural wood sheathing directly applied or 1-5-7 oc purlins, except 2-0-0 oc purlins (2-2-4 max.): 13-15.
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS	1 Row at midpt 7-25, 9-25
<b>REACTIONS</b>	(size) 2=0-3-8, 16= Mechanical Max Horiz 2=216 (LC 12) Max Uplift 2=-397 (LC 8), 16=-285 (LC 13) Max Grav 2=2218 (LC 1), 16=2153 (LC 1)

<b>FORCES</b>	(lb) - Maximum Compression/Maximum Tension
TOP CHORD	1-2=0/0, 2-4=-5276/1063, 4-6=-5030/1030, 6-7=-4230/914, 7-8=-3012/748, 8-9=-3137/747, 9-10=-5269/1131, 10-12=-5397/1102, 12-13=-6411/1291, 13-14=-6949/1398, 14-15=-69/8, 2-29=-989/4860, 27-29=-877/4458, 25-27=-669/3564, 24-25=-665/3555, 23-24=-69/321, 22-23=0/60, 10-22=-102/69, 21-22=-1178/5924, 20-21=-1442/7154, 19-20=-792/3694, 18-19=-800/3761, 17-19=-30/10, 16-17=-67/8
BOT CHORD	

- NOTES**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=0.96; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-11-0 to 4-1-0, Interior (1) 4-1-0 to 26-9-6, Exterior(2R) 26-9-6 to 31-9-6, Interior (1) 31-9-6 to 47-10-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - Provide adequate drainage to prevent water ponding.
  - All plates are MT20 plates unless otherwise indicated.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - Bearings are assumed to be: Joint 2 SP 2400F 2.0E crushing capacity of 805 psi, Joint 16 SPF No.3 crushing capacity of 425 psi.
  - Refer to girder(s) for truss to truss connections.
  - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
  - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

**LOAD CASE(S)** Standard



June 30,2023

**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



16023 Swingley Ridge Rd  
Chesterfield, MO 63017

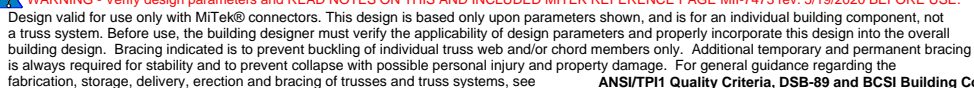
Run: 8.63 E Jun 15 2023 Print: 8.630 E Jun 15 2023 MiTek Industries, Inc. Thu Jun 23 14:54:45 Page: 1  
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Scale = 1:86.1

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	0.11	Vent(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.08	Vent(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	NO	WB	0.22	Horz(CT)	0.01	28	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-SH							Weight: 242 lb	FT = 20%

- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust)  
Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft;  
Ke=.96; Cat II; Exp C; Enclosed; MWFRS (envelope)  
exterior zone and C-C Corner(3E) -0-11-0 to 4-1-0,  
Exterior(2N) 4-1-0 to 26-9-6, Corner(3R) 26-9-6 to  
31-9-6, Exterior(2N) 31-9-6 to 48-0-0 zone; cantilever  
left and right exposed ; end vertical left and right  
exposed; C-C for members and forces & MWFRS for  
reactions shown; Lumber DOL=1.60 plate grip  
DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss  
only. For studs exposed to wind (normal to the face),  
see Standard Industry Gable End Details as applicable,  
or consult qualified building designer as per ANSI/TPI 1.
- 4) All plates are 2x4 MT20 unless otherwise indicated.
- 5) Gable requires continuous bottom chord bearing.
- 6) Gable studs spaced at 2-0-0 oc.
- 7) This truss has been designed for a 10.0 psf bottom  
chord live load nonconcurrent with any other live loads.
- 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.

June 30, 2023



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

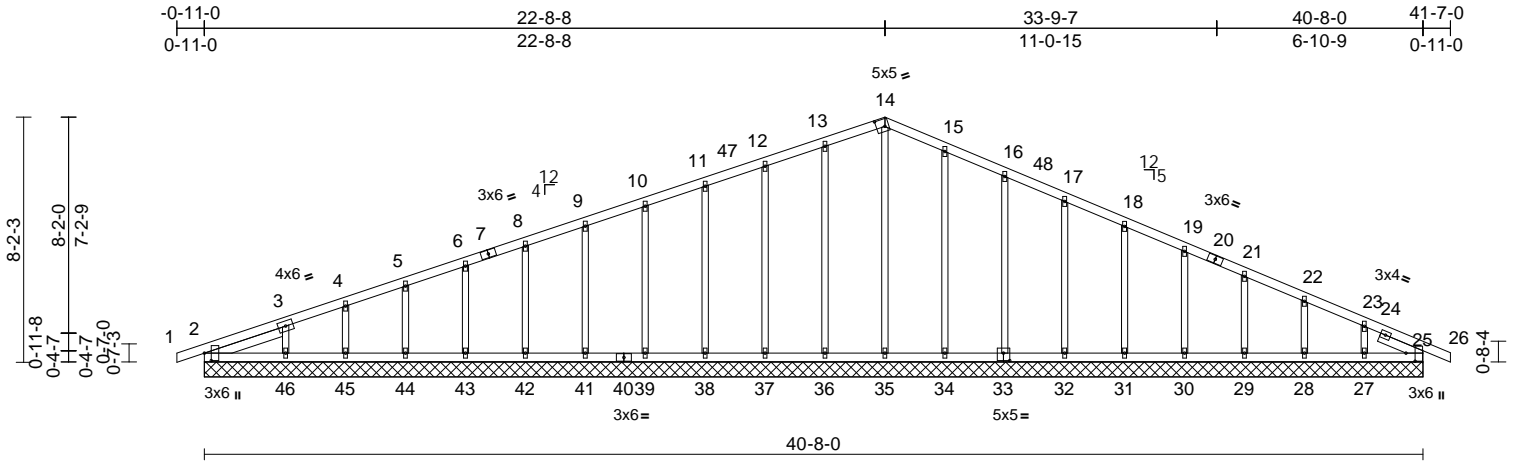


Job	Truss	Truss Type	Qty	Ply	Roof - Osage Lot 5	RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 159271045 LEE'S SUMMIT, MISSOURI
P230318-01	E1	Roof Special Supported Gable	4	1	Job Reference (optional)	

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

Run: 8.63 E Jun 15 2023 Print: 8.630 E Jun 15 2023 MiTek Industries, Inc. Thu Jun 29 15:00:42 Page: 1  
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06/26/2023



Scale = 1:76.9

Plate Offsets (X, Y): [2:0-3-0,0-2-12], [14:0-3-7,0-3-0], [25:0-3-4,0-3-10], [33:0-2-8,0-3-0]

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	0.07	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.05	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	NO	WB	0.21	Horz(CT)	0.01	25	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-SH							Weight: 197 lb	FT = 20%

#### LUMBER

TOP CHORD 2x4 SP No.2  
BOT CHORD 2x4 SP No.2  
OTHERS 2x3 SPF No.2  
SLIDER Left 2x4 SPF No.3 -- 2-8-15

#### 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

All bearings 40-8-0.  
(lb) - Max Horiz 2=139 (LC 12)  
Max Uplift All uplift 100 (lb) or less at joint(s)  
2, 25, 27, 28, 29, 30, 31, 32, 33,  
34, 36, 37, 38, 39, 41, 42, 43, 44,  
45, 46  
Max Grav All reactions 250 (lb) or less at joint  
(s) 2, 25, 27, 28, 29, 30, 31, 32, 33,  
34, 35, 36, 37, 38, 39, 41, 42, 43,  
44, 45, 46

#### FORCES

(lb) - Max. Comp./Max. Ten. - All forces 250  
(lb) or less except when shown.

#### 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 4-1-0,  
Exterior(2N) 4-1-0 to 22-8-8, Corner(3R) 22-8-8 to  
27-8-8, Exterior(2N) 27-8-8 to 41-7-0 zone; cantilever  
left and right exposed ; end vertical left and right  
exposed;C-C for members and forces & MWFRS for  
reactions shown; Lumber DOL=1.60 plate grip  
DOL=1.60

- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- All plates are 1.5x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 2'-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- This truss 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



June 30, 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



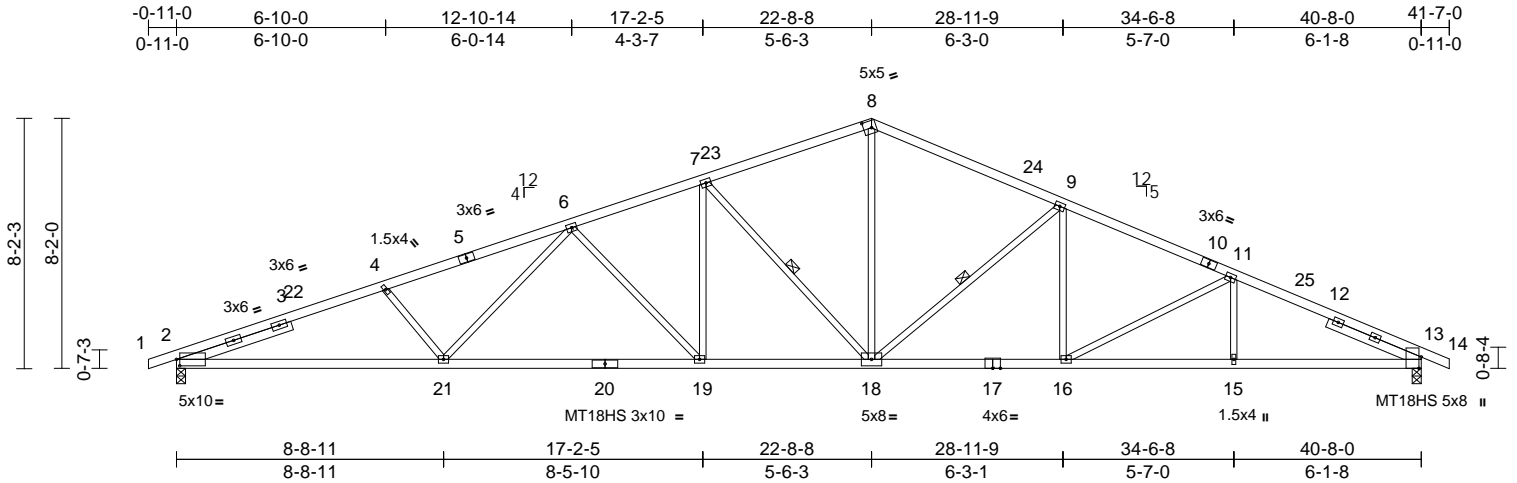
16023 Swingley Ridge Rd  
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Roof - Osage Lot 5	RELEASE FOR CONSTRUCTION
P230318-01	E2	Roof Special	8	1	Job Reference (optional)	AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 159271046 LEE'S SUMMIT, MISSOURI

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

Run: 8.63 S Apr 6 2023 Print: 8.630 S Apr 6 2023 MiTek Industries, Inc. Thu Jun 29 13:03:00 Page: 1  
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09/26/2023



Scale = 1:75.3

Plate Offsets (X, Y): [2:0-1-4,0-2-8], [8:0-3-3,0-2-12], [13:0-4-7,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	0.83	Vert(LL)	-0.34	19-21	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.88	Vert(CT)	-0.69	19-21	>710	180	MT18HS	197/144
BCLL	0.0	Rep Stress Incr	NO	WB	0.69	Horz(CT)	0.21	13	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-SH								
Weight: 183 lb FT = 20%												

#### LUMBER

TOP CHORD 2x4 SP 1650F 1.5E  
BOT CHORD 2x4 SP 1650F 1.5E \*Except\* 0-0:2x4 SP No.2  
WEBS 2x3 SPF No.2  
SLIDER Left 2x4 SPF No.3 -- 3-11-3, Right 2x4 SPF No.3 -- 3-3-8

#### BRACING

TOP CHORD Structural wood sheathing directly applied or 2-7-0 oc purlins.  
BOT CHORD Rigid ceiling directly applied or 8-2-0 oc bracing.  
WEBS 1 Row at midpt 7-18, 9-18

#### REACTIONS

(size) 2=0-3-8, 13=0-3-8  
Max Horiz 2=144 (LC 12)  
Max Uplift 2=-344 (LC 8), 13=-264 (LC 13)  
Max Grav 2=1894 (LC 1), 13=1894 (LC 1)

#### FORCES

(lb) - Maximum Compression/Maximum Tension  
TOP CHORD 1-2=0/0, 2-4=-4384/911, 4-6=-4144/869, 6-7=-3258/745, 7-8=-2539/651, 8-9=-2640/660, 9-11=-3243/727, 11-13=-3668/761, 13-14=0/0  
BOT CHORD 2-21=-768/4045, 19-21=-609/3519, 18-19=-476/3041, 16-18=-493/2955, 15-16=-589/3228, 13-15=-589/3228  
WEBS 4-21=-312/204, 8-18=-266/1373, 6-19=-708/229, 7-18=-1047/269, 6-21=-72/563, 7-19=-82/662, 11-16=-379/151, 9-18=-820/251, 9-16=0/349, 11-15=0/202

#### NOTES

- 1) 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 22-8-8, Exterior(2R) 22-8-8 to 27-8-8, Interior (1) 27-8-8 to 41-7-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) All plates are MT20 plates unless otherwise indicated.
- 4) All plates are 3x4 MT20 unless otherwise indicated.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) All bearings are assumed to be SP 1650F 1.5E crushing capacity of 565 psi.
- 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



June 30, 2023

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

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



16023 Swingley Ridge Rd  
Chesterfield, MO 63017

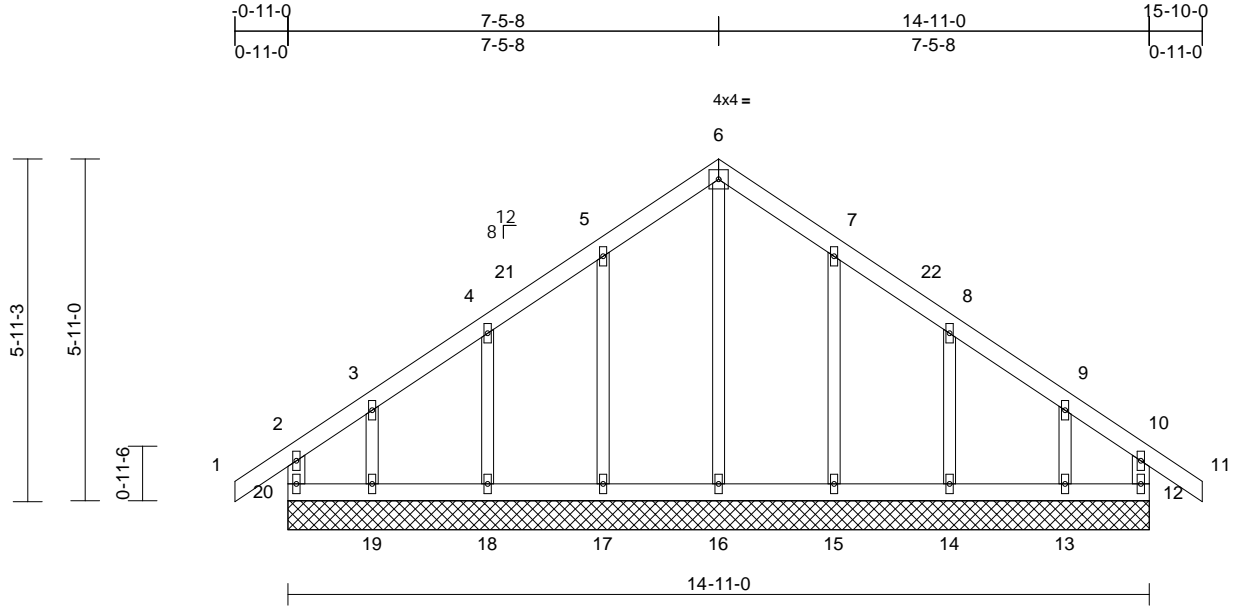
Job	Truss	Truss Type	Qty	Ply	Roof - Osage Lot 5	RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 159271047 LEE'S SUMMIT, MISSOURI
P230318-01	G1	Common Supported Gable	2	1	Job Reference (optional)	

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

Run: 8.63 S Apr 6 2023 Print: 8.630 S Apr 6 2023 MiTek Industries, Inc. Thu Jun 29 13:03:00 Page: 1

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09/26/2023



<b>Loading</b>	(psf)	<b>Spacing</b>	2-0-0	<b>CSI</b>		<b>DEFL</b>	in	(loc)	l/defl	L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.10	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	NO	WB	0.14	Horz(CT)	0.00	12	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R							Weight: 72 lb	FT = 20%

#### LUMBER

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

#### BRACING

TOP CHORD	Sheathed or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.

#### REACTIONS

(size)	12=14-11-0, 13=14-11-0, 14=14-11-0, 15=14-11-0, 16=14-11-0, 17=14-11-0, 18=14-11-0, 19=14-11-0, 20=14-11-0
Max Horiz	20=179 (LC 10)
Max Uplift	12=55 (LC 9), 13=105 (LC 13), 14=72 (LC 13), 15=74 (LC 13), 17=75 (LC 12), 18=71 (LC 12), 19=112 (LC 12), 20=81 (LC 8)
Max Grav	12=154 (LC 19), 13=176 (LC 20), 14=189 (LC 20), 15=197 (LC 20), 16=194 (LC 22), 17=198 (LC 19), 18=187 (LC 19), 19=189 (LC 19), 20=176 (LC 20)

#### FORCES

(lb) - Maximum Compression/Maximum Tension

TOP CHORD	2-20=-143/90, 1-2=0/41, 2-3=-110/106, 3-4=-80/84, 4-5=-77/164, 5-6=-116/242, 6-7=-116/242, 7-8=-76/163, 8-9=-59/78, 9-10=-81/76, 10-11=0/41, 10-12=-132/89
BOT CHORD	19-20=-82/90, 18-19=-82/90, 17-18=-82/90, 16-17=-82/90, 15-16=-82/90, 14-15=-82/90, 13-14=-82/90, 12-13=-82/90
WEBS	6-16=-180/30, 5-17=-157/118, 4-18=-149/154, 3-19=-133/126, 7-15=-156/118, 8-14=-151/154, 9-13=-127/127

#### 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 4-1-0, Exterior(2N) 4-1-0 to 7-5-8, Corner(3R) 7-5-8 to 12-5-8, Exterior(2N) 12-5-8 to 15-10-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- All plates are 1.5x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



June 30, 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



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Chesterfield, MO 63017



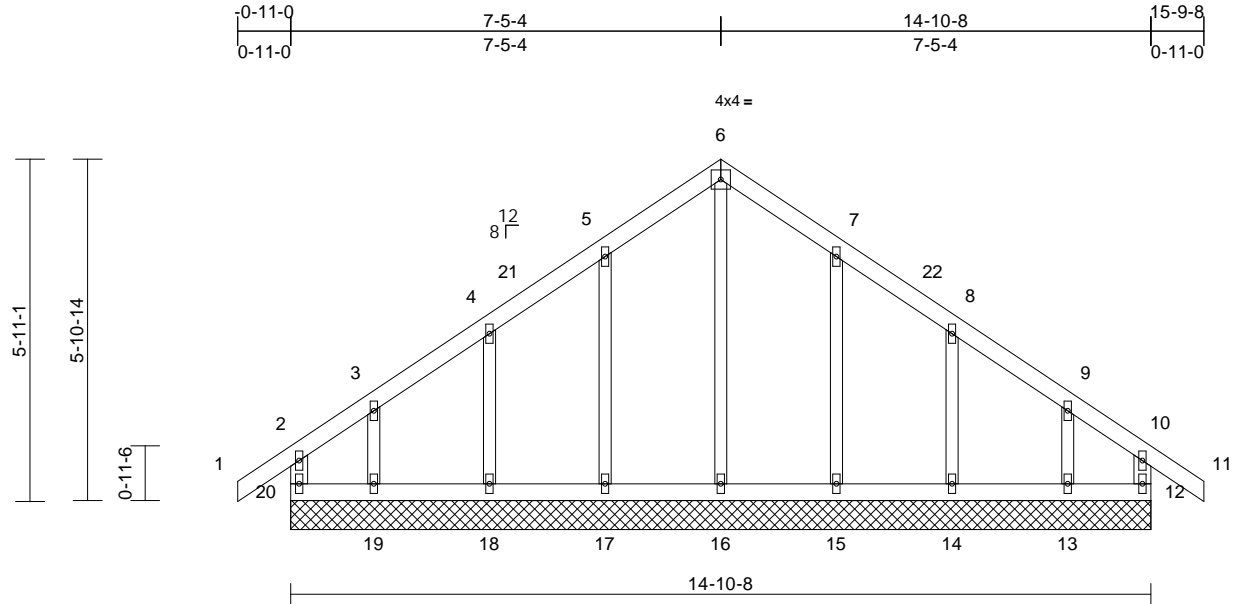
Job	Truss	Truss Type	Qty	Ply	Roof - Osage Lot 5
P230318-01	G1A	Common Supported Gable	1	1	Job Reference (optional)

AS NOTED FOR PLAN REVIEW  
DEVELOPMENT SERVICES  
159271048  
LEE'S SUMMIT, MISSOURI

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

Run: 8.63 S Apr 6 2023 Print: 8.630 S Apr 6 2023 MiTek Industries, Inc. Thu Jun 29 13:03:00  
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09/26/2023



Scale = 1:39.8

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	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.06	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	NO	WB	0.13	Horz(CT)	0.00	12	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R						Weight: 71 lb	FT = 20%

**LUMBER**

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

**BRACING**

TOP CHORD	Sheathed or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.

<b>REACTIONS</b> (size)	12=14-10-8, 13=14-10-8, 14=14-10-8, 15=14-10-8, 16=14-10-8, 17=14-10-8, 18=14-10-8, 19=14-10-8, 20=14-10-8
Max Horiz	20=179 (LC 10)
Max Uplift	12=55 (LC 9), 13=105 (LC 13), 14=72 (LC 13), 15=74 (LC 13), 17=75 (LC 12), 18=71 (LC 12), 19=112 (LC 12), 20=82 (LC 8)
Max Grav	12=154 (LC 19), 13=175 (LC 20), 14=189 (LC 20), 15=197 (LC 20), 16=194 (LC 22), 17=198 (LC 19), 18=187 (LC 19), 19=188 (LC 19), 20=176 (LC 20)

**FORCES** (lb) - Maximum Compression/Maximum Tension

TOP CHORD	2-20=-143/89, 1-2=0/41, 2-3=-110/107, 3-4=-79/84, 4-5=-76/163, 5-6=-116/241, 6-7=-116/241, 7-8=-76/162, 8-9=-59/77, 9-10=-81/76, 10-11=0/41, 10-12=-131/88
BOT CHORD	19-20=-82/90, 18-19=-82/90, 17-18=-82/90, 16-17=-82/90, 15-16=-82/90, 14-15=-82/90, 13-14=-82/90, 12-13=-82/90
WEBS	6-16=-179/29, 5-17=-157/118, 4-18=-149/154, 3-19=-132/125, 7-15=-156/118, 8-14=-151/154, 9-13=-126/126

**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 4-1-0, Exterior(2N) 4-1-0 to 7-5-4, Corner(3R) 7-5-4 to 12-5-4, Exterior(2N) 12-5-4 to 15-9-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- All plates are 1.5x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- 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.

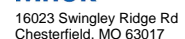
**LOAD CASE(S)** Standard

June 30, 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 2060116023 Swingley Ridge Rd  
Chesterfield, MO 63017



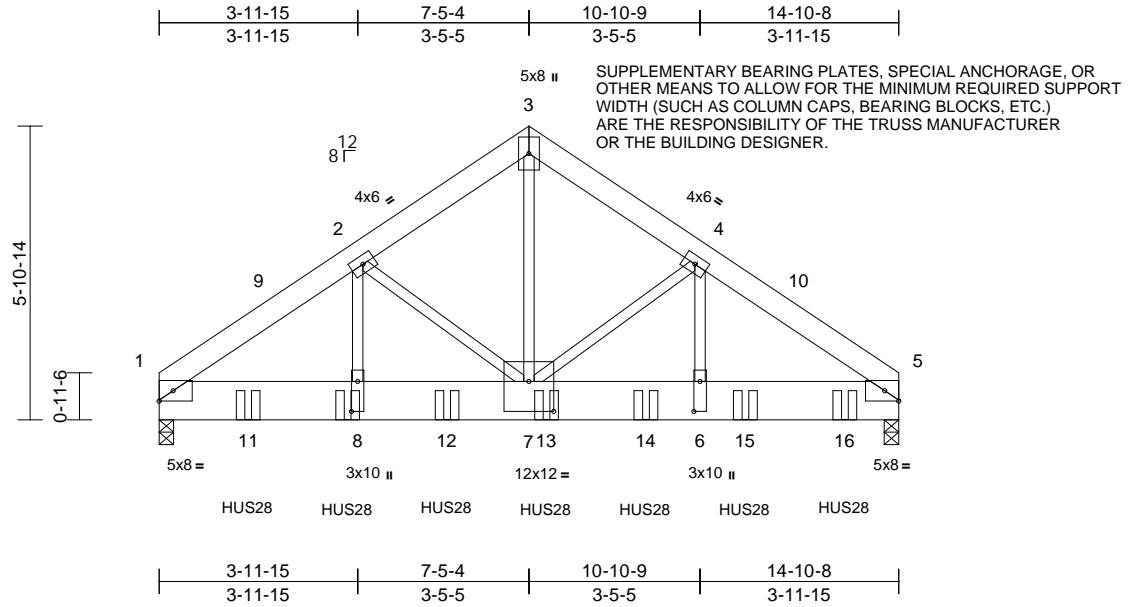
Job	Truss	Truss Type	Qty	Ply	Roof - Osage Lot 5	RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 159271050 LEE'S SUMMIT, MISSOURI
P230318-01	G2A	Common Girder	1	3	Job Reference (optional)	

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

Run: 8.63 S Apr 6 2023 Print: 8.630 S Apr 6 2023 MiTek Industries, Inc. Thu Jun 29 13:03:22 Page: 1

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09/26/2023



Scale = 1:46.3

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.24	Vert(LL)	-0.05	7-8	>999	240	MT20	185/144
TCDL	10.0	Lumber DOL	1.15	BC	0.59	Vert(CT)	-0.09	7-8	>999	180		
BCLL	0.0	Rep Stress Incr	NO	WB	0.89	Horz(CT)	0.03	5	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-SH							Weight: 279 lb	FT = 20%

#### LUMBER

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

#### BRACING

TOP CHORD	Sheathed or 6-0-0 oc purlins.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS	(size)	1=0-3-8, (req. 0-4-4), 5=0-3-8, (req. 0-4-11)
	Max Horiz	1=-142 (LC 31)
	Max Uplift	1=-1047 (LC 12), 5=-1154 (LC 13)
	Max Grav	1=7729 (LC 1), 5=8514 (LC 1)

#### FORCES

TOP CHORD	(lb) - Maximum Compression/Maximum Tension
	1-2=-10075/1422, 2-3=-7471/1122, 3-4=-7474/1122, 4-5=-10122/1428
BOT CHORD	1-8=-1105/7933, 7-8=-1108/7959, 6-7=-1072/8007, 5-6=-1069/7981
WEBS	2-8=-412/3322, 2-7=-2284/409, 3-7=-1111/7756, 4-7=-2347/421, 4-6=-422/3374

#### 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 - 4 rows staggered at 0-4-0 oc.  
Web connected as follows: 2x3 - 1 row at 0-4-0 oc.
- All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- Unbalanced roof live loads have been considered for this design.

- Wind: ASCE 7-16; Vult=115mph (3-second gust)  
Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft;  
Ke=0.96; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-1-12 to 5-1-12, Interior (1) 5-1-12 to 7-5-4, Exterior(2R) 7-5-4 to 12-5-4, Interior (1) 12-5-4 to 14-8-12 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
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- WARNING: Required bearing size at joint(s) 1, 5 greater than input bearing size.
- All bearings are assumed to be SPF No.2 crushing capacity of 425 psi.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Use Simpson Strong-Tie HUS28 (22-16d Girder, 4-16d Truss, Single Ply Girder) or equivalent spaced at 2-0-0 oc max. starting at 1-9-8 from the left end to 13-9-8 to connect truss(es) to back face of bottom chord.
- N/A

#### 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: 8=-2133 (B), 11=-2133 (B), 12=-2133 (B), 13=-2133 (B), 14=-2133 (B), 15=-2133 (B), 16=-2133 (B)



June 30, 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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**Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

ANSI/TPI Quality Criteria, DSB-89 and BCSI Building Component



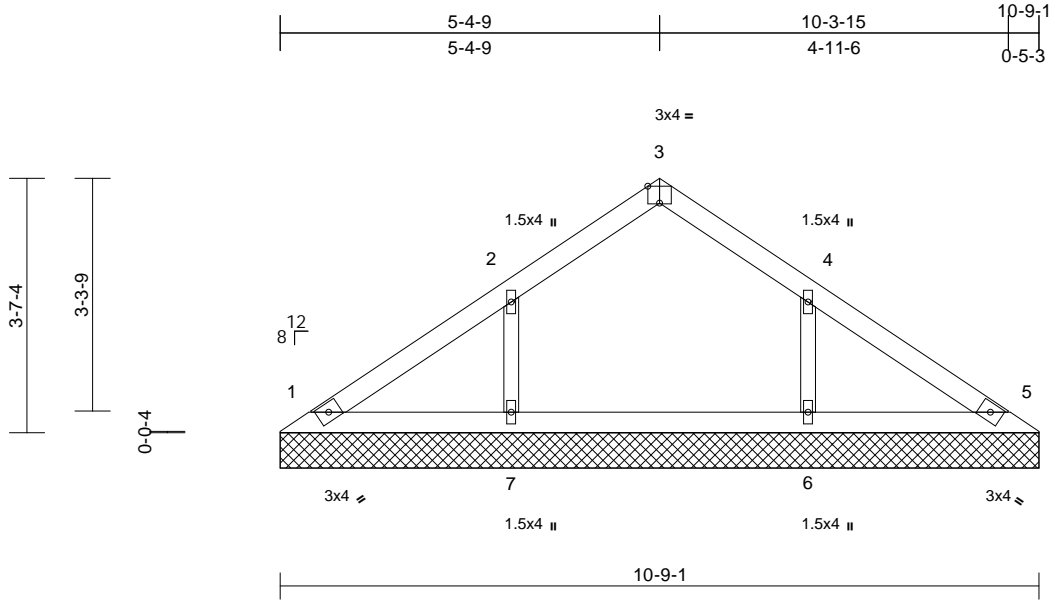
16023 Swingley Ridge Rd  
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Roof - Osage Lot 5	RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 159271051 LEE'S SUMMIT, MISSOURI
P230318-01	V1	Valley	2	1	Job Reference (optional)	

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

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09/26/2023



Scale = 1:32.7

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

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.12	Vert(LL)	n/a	-	n/a	999	MT20
TCDL	10.0	Lumber DOL	1.15	BC	0.12	Vert(TL)	n/a	-	n/a	999	244/190
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: 36 lb FT = 20%

#### LUMBER

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

#### BRACING

TOP CHORD Structural wood sheathing directly applied or 6'-0-0 oc purlins.  
BOT CHORD Rigid ceiling directly applied or 10'-0-0 oc bracing.

**REACTIONS** (size) 1=10-9-1, 5=10-9-1, 6=10-9-1, 7=10-9-1  
Max Horiz 1=89 (LC 9)  
Max Uplift 6=95 (LC 13), 7=97 (LC 12)  
Max Grav 1=151 (LC 1), 5=151 (LC 1), 6=304 (LC 20), 7=306 (LC 19)

#### FORCES

(lb) - Maximum Compression/Maximum Tension  
TOP CHORD 1-2=-150/33, 2-3=-147/61, 3-4=-147/61, 4-5=-148/30  
BOT CHORD 1-7=-24/110, 6-7=-24/110, 5-6=-24/110  
WEBS 2-7=-215/156, 4-6=-214/152

#### 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.
- All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

**LOAD CASE(S)** Standard



June 30, 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



16023 Swingley Ridge Rd  
Chesterfield, MO 63017

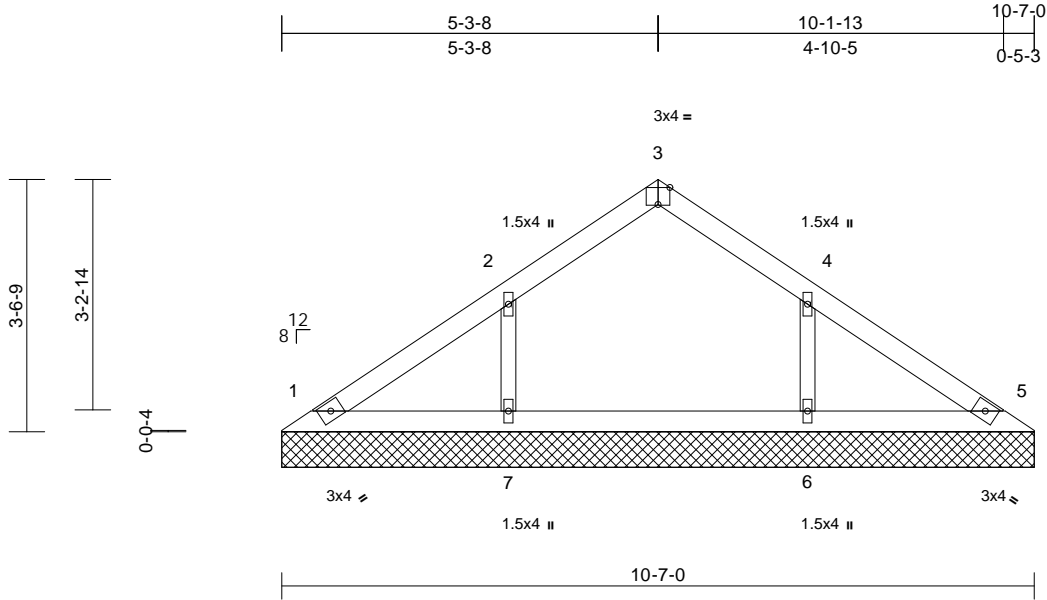
Job	Truss	Truss Type	Qty	Ply	Roof - Osage Lot 5	RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 159271052 LEE'S SUMMIT, MISSOURI
P230318-01	V2	Valley	2	1	Job Reference (optional)	

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

Run: 8.63 S Apr 6 2023 Print: 8.630 S Apr 6 2023 MiTek Industries, Inc. Thu Jun 29 13:03:22 Page: 1

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09/26/2023



Scale = 1:32.4									
Plate Offsets (X, Y): [3:0-2-0,Edge], [4:0-0-0,Edge]									
<b>Loading</b>	(psf)	<b>Spacing</b>	2-0-0	<b>CSI</b>		<b>DEFL</b>	in	(loc)	<b>PLATES</b>
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.11	Vert(LL)	n/a	-	MT20
TCDL	10.0	Lumber DOL	1.15	BC	0.12	Vert(TL)	n/a	-	GRIP
BCLL	0.0*	Rep Stress Incr	NO	WB	0.04	Horiz(TL)	0.00	5	244/190
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-SH					Weight: 36 lb FT = 20%

<b>LUMBER</b>	
TOP CHORD	2x4 SP No.2
BOT CHORD	2x4 SP No.2
OTHERS	2x3 SPF No.2
<b>BRACING</b>	
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.
<b>REACTIONS</b> (size)	
	1=10-7-0, 5=10-7-0, 6=10-7-0, 7=10-7-0
Max Horiz	1=90 (LC 8)
Max Uplift	6=99 (LC 13), 7=100 (LC 12)
Max Grav	1=149 (LC 1), 5=149 (LC 1), 6=301 (LC 20), 7=302 (LC 19)
<b>FORCES</b> (lb) - Maximum Compression/Maximum Tension	
TOP CHORD	1-2=-150/33, 2-3=-149/65, 3-4=-149/65, 4-5=-148/29
BOT CHORD	1-7=-24/111, 6-7=-24/111, 5-6=-24/111
WEBS	2-7=-212/161, 4-6=-211/157

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

- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

**LOAD CASE(S)** Standard



June 30, 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



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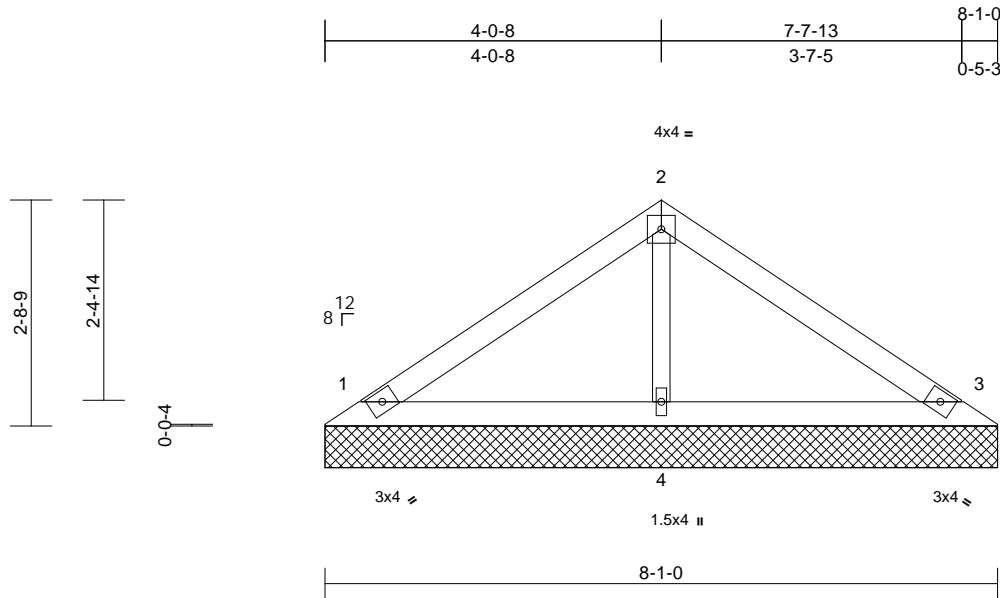


Job	Truss	Truss Type	Qty	Ply	Roof - Osage Lot 5
P230318-01	V3	Valley	2	1	Job Reference (optional)

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

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09/26/2023



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	0.33	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	0.04	Horiz(TL)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 27 lb	FT = 20%

#### LUMBER

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

#### BRACING

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.  
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

#### REACTIONS

(size) 1=8-1-0, 3=8-1-0, 4=8-1-0  
 Max Horiz 1=-67 (LC 8)  
 Max Uplift 1=-46 (LC 12), 3=-54 (LC 13)  
 Max Grav 1=182 (LC 1), 3=182 (LC 1), 4=283 (LC 1)

#### FORCES

(lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=-114/67, 2-3=-109/67  
 BOT CHORD 1-4=-14/54, 3-4=-14/54  
 WEBS 2-4=-193/99

#### 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=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



June 30, 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



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 Chesterfield, MO 63017

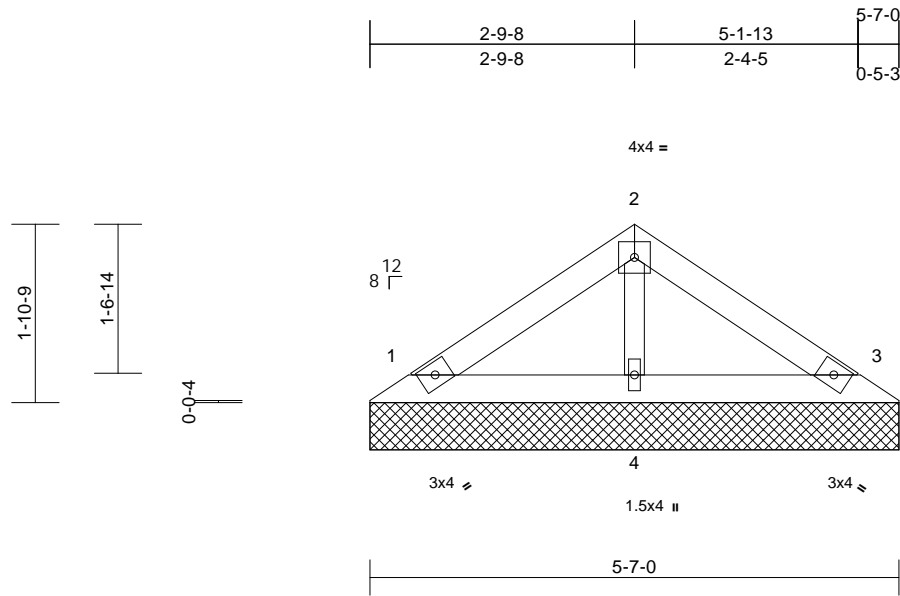
Job	Truss	Truss Type	Qty	Ply	Roof - Osage Lot 5	AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 159271054 LEE'S SUMMIT, MISSOURI
P230318-01	V4	Valley	2	1	Job Reference (optional)	

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

Run: 8.63 S Apr 6 2023 Print: 8.630 S Apr 6 2023 MiTek Industries, Inc. Thu Jun 29 13:03:33 Page: 1

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09/26/2023



Scale = 1:24.3

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	0.13	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.06	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.02	Horiz(TL)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 18 lb	FT = 20%

**LUMBER**

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

**BRACING**

TOP CHORD Structural wood sheathing directly applied or 5-7-12 oc purlins.  
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS**

(size) 1=5-7-0, 3=5-7-0, 4=5-7-0  
 Max Horiz 1=-44 (LC 10)  
 Max Uplift 1=-30 (LC 12), 3=-35 (LC 13)  
 Max Grav 1=119 (LC 1), 3=119 (LC 1), 4=184 (LC 1)

**FORCES**

(lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=-74/51, 2-3=-71/51  
 BOT CHORD 1-4=-9/35, 3-4=-9/35  
 WEBS 2-4=-126/80

**NOTES**

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

- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- 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

June 30, 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



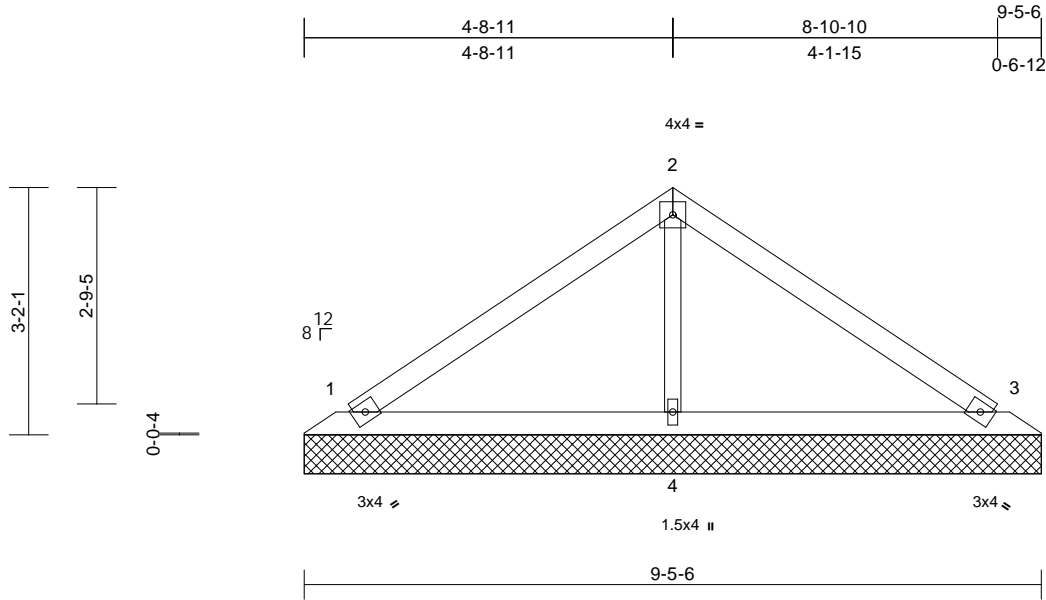
16023 Swingley Ridge Rd  
 Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Roof - Osage Lot 5	RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 159271055 LEE'S SUMMIT, MISSOURI
P230318-01	V5	Valley	1	1	Job Reference (optional)	

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

Run: 8.63 S Apr 6 2023 Print: 8.630 S Apr 6 2023 MiTek Industries, Inc. Thu Jun 29 13:03:33  
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09/26/2023



Scale = 1:29.5

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.28	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.20	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	NO	WB	0.05	Horiz(TL)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-SH							Weight: 31 lb	FT = 20%

#### LUMBER

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

- 7) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.  
8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

#### 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.

LOAD CASE(S) Standard

#### REACTIONS

(size) 1=9-5-6, 3=9-5-6, 4=9-5-6  
Max Horiz 1=-77 (LC 8)  
Max Uplift 1=-35 (LC 12), 3=-44 (LC 13), 4=-24 (LC 12)  
Max Grav 1=187 (LC 1), 3=187 (LC 1), 4=362 (LC 1)

#### FORCES

(lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=-146/72, 2-3=-145/72  
BOT CHORD 1-4=-15/64, 3-4=-15/64  
WEBS 2-4=-216/88

#### 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.



June 30, 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

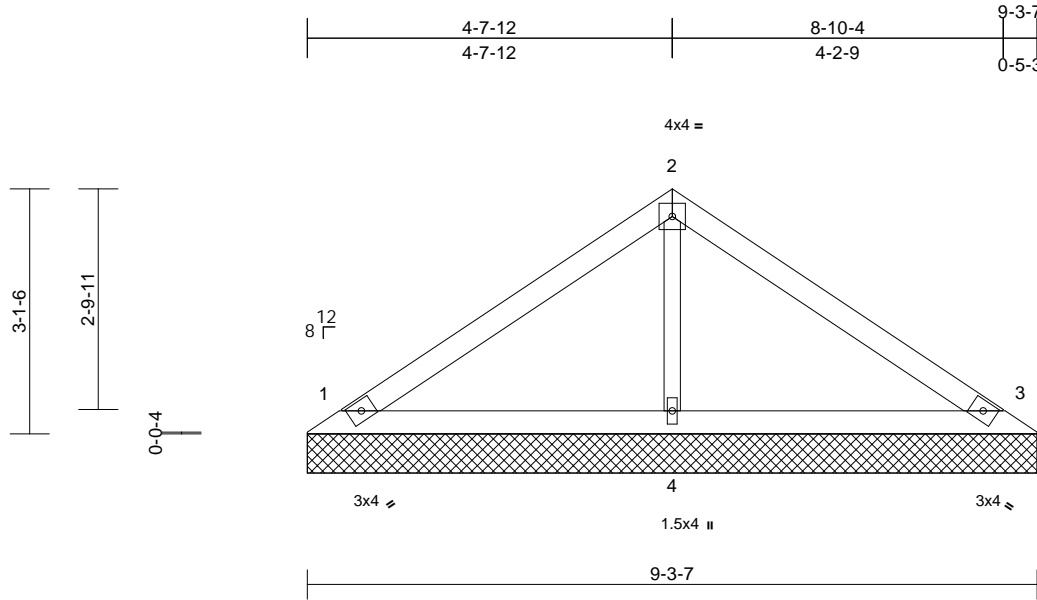
Job	Truss	Truss Type	Qty	Ply	Roof - Osage Lot 5
P230318-01	V6	Valley	1	1	Job Reference (optional)

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

Run: 8.63 S Apr 6 2023 Print: 8.630 S Apr 6 2023 MiTek Industries, Inc. Thu Jun 29 13:06:33 Page: 1

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09/26/2023



Scale = 1:29.3

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	0.29	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	0.06	Horiz(TL)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-SH							Weight: 31 lb	FT = 20%

**LUMBER**

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

**BRACING**

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS** (size) 1=9-3-7, 3=9-3-7, 4=9-3-7  
Max Horiz 1=78 (LC 9)  
Max Uplift 1=-39 (LC 12), 3=-49 (LC 13), 4=-30 (LC 12)  
Max Grav 1=189 (LC 1), 3=189 (LC 1), 4=377 (LC 1)

**FORCES** (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=-145/75, 2-3=-143/75  
BOT CHORD 1-4=-15/64, 3-4=-15/64  
WEBS 2-4=-227/100

**NOTES**

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

- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

**LOAD CASE(S)** Standard

June 30, 2023

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Chesterfield, MO 63017

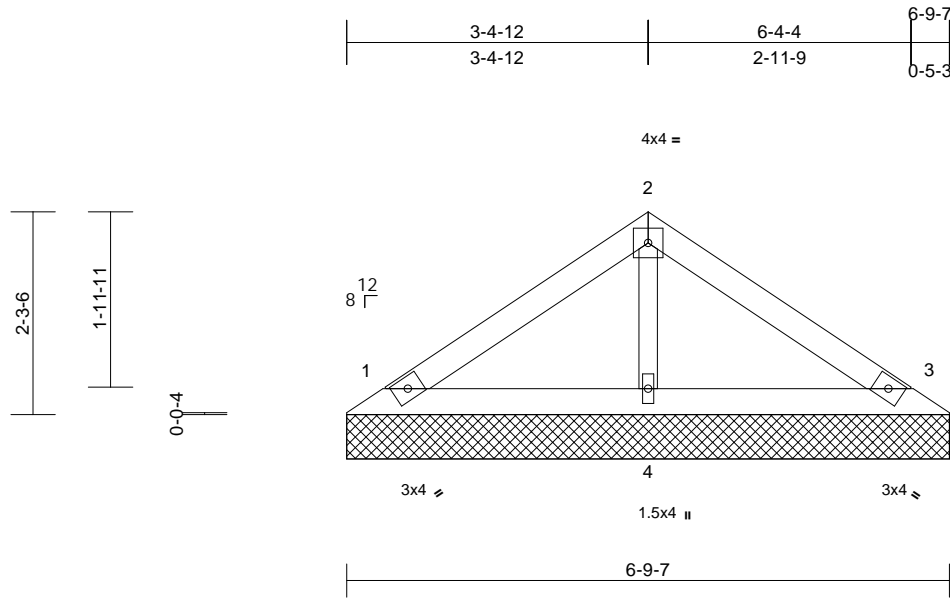
Job	Truss	Truss Type	Qty	Ply	Roof - Osage Lot 5
P230318-01	V7	Valley	1	1	Job Reference (optional)

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

Run: 8.63 S Apr 6 2023 Print: 8.630 S Apr 6 2023 MiTek Industries, Inc. Thu Jun 29 13:03:34 Page: 1

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09/26/2023



Scale = 1:25.9

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	0.21	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.10	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: 22 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=6-9-7, 3=6-9-7, 4=6-9-7  
Max Horiz 1=-55 (LC 10)  
Max Uplift 1=-38 (LC 12), 3=-44 (LC 13)  
Max Grav 1=149 (LC 1), 3=149 (LC 1), 4=232 (LC 1)

**FORCES** (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=-94/60, 2-3=-89/60  
BOT CHORD 1-4=-11/44, 3-4=-11/44  
WEBS 2-4=-158/91

**NOTES**

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

- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- 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

June 30, 2023

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Chesterfield, MO 63017

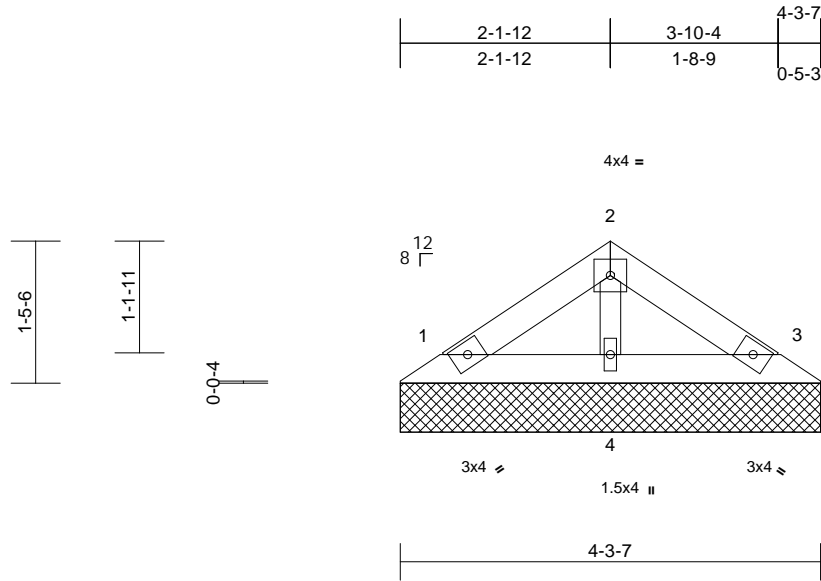


Job	Truss	Truss Type	Qty	Ply	Roof - Osage Lot 5
P230318-01	V8	Valley	1	1	Job Reference (optional)

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

Run: 8.63 S Apr 6 2023 Print: 8.630 S Apr 6 2023 MiTek Industries, Inc. Thu Jun 29 13:03:44 Page: 1  
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09/26/2023



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	0.06	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	0.02	Horiz(TL)	0.00	3	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  
 OTHERS 2x3 SPF No.2

#### BRACING

TOP CHORD Structural wood sheathing directly applied or 4-4-3 oc purlins.  
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

#### REACTIONS

(size) 1=4-3-7, 3=4-3-7, 4=4-3-7  
 Max Horiz 1=-32 (LC 8)  
 Max Uplift 1=-22 (LC 12), 3=-26 (LC 13)  
 Max Grav 1=86 (LC 1), 3=86 (LC 1), 4=133 (LC 1)

#### FORCES

(lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=-54/38, 2-3=-51/38  
 BOT CHORD 1-4=-7/25, 3-4=-7/25  
 WEBS 2-4=-91/60

#### NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
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- 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.
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- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



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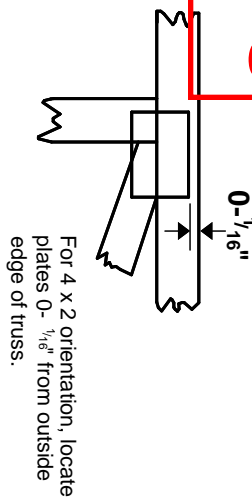
16023 Swingley Ridge Rd  
 Chesterfield, MO 63017

09/26/2023

## 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.



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

4 X 4

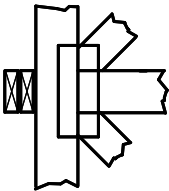
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

### 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



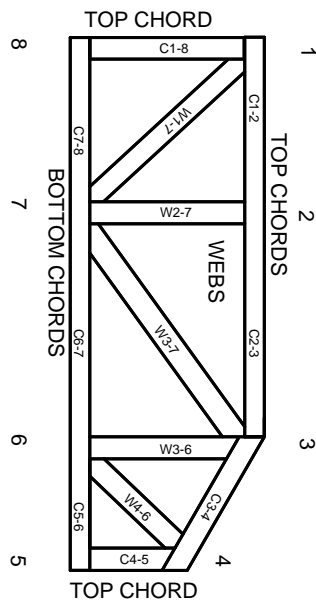
Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

### Industry Standards:

ANSI/TP1: National Design Specification for Metal Plate Connected Wood Truss Construction.  
DSB-89: Design Standard for Bracing.  
BCSI: Building Component Safety Information, Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses.

## Numbering System

6-4-8 dimensions shown in ft-in-sixteenths  
(Drawings not to scale)



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/TP1 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

1. Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI.
2. 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.
3. Never exceed the design loading shown and never stack materials on inadequately braced trusses.
4. Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
5. Cut members to bear tightly against each other.
6. Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TP1 1.
7. Design assumes trusses will be suitably protected from the environment in accord with ANSI/TP1 1.
8. Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
9. Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
10. Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
11. Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
12. Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
13. Top chords must be sheathed or purlins provided at spacing indicated on design.
14. 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.
16. Do not cut or alter truss member or plate without prior approval of an engineer.
17. Install and load vertically unless indicated otherwise.
18. Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use.
19. 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/TP1 1 Quality Criteria.
21. The design does not take into account any dynamic or other loads other than those expressly stated.