



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

Re: P230132-01

Roof - Osage Lot 71

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

Pages or sheets covered by this seal: I57221927 thru I57221953

My license renewal date for the state of Missouri is December 31, 2023.

Missouri COA: Engineering 001193



March 17,2023

Sevier, Scott

,Engineer

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

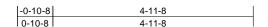
Ply Job Truss Truss Type Qty Roof - Osage Lot 71 P230132-01 В1 Monopitch Supported Gable

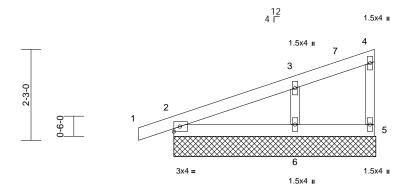
DEVELOPMENT SERVICES 157221927 LEE'S SUMMIT. MISSOURI Job Reference (optiona

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

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Thu Mar ID:rc4sjKzIJtfsErm8VGMRJ_zwwqN-RfC?PsB70Hq3NSgPqnL8w3uITXbGK

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW





4-11-8 Scale = 1:28.5

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defI	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.12	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.07	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.07	Horz(CT)	n/a	-	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 19 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or

5-0-0 oc purlins, except end verticals. **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc

bracing.

(size) REACTIONS 2=5-0-0, 5=5-0-0, 6=5-0-0

Max Horiz 2=85 (LC 8)

Max Uplift 2=-49 (LC 8), 5=-14 (LC 8), 6=-78

(LC 12)

Max Grav 2=182 (LC 1), 5=47 (LC 1), 6=269

(LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/6, 2-3=-141/58, 3-4=-29/8, 4-5=-37/47

BOT CHORD 2-6=0/0, 5-6=0/0 3-6=-205/304 **WEBS**

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) 1) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-10-8 to 4-1-8, Interior (1) 4-1-8 to 4-10-4 zone; cantilever left and right exposed; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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.

- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 14 lb uplift at joint 5, 49 lb uplift at joint 2 and 78 lb uplift at joint 6.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard







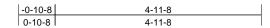
Ply Qty Job Truss Truss Type Roof - Osage Lot 71 P230132-01 B2 Monopitch 3 Job Reference (optiona

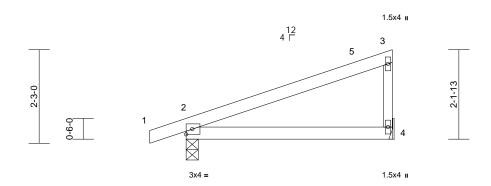
Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083,

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Thu Mar 6 ID:4QEzufucAXMxzh8xWxEVwDzwwpA-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDbf/J4zJC?f

S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 157221928 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION





4-11-8 Scale = 1:27.7

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.49	Vert(LL)	-0.03	2-4	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.27	Vert(CT)	-0.06	2-4	>958	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	n/a	-	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 2x3 SPF No.2 WEBS

BRACING

TOP CHORD Structural wood sheathing directly applied or 5-0-0 oc purlins, except end verticals. **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc

bracing.

REACTIONS (size) 2=0-3-8, 4= Mechanical

Max Horiz 2=85 (LC 8)

Max Uplift 2=-83 (LC 8), 4=-59 (LC 12) Max Grav 2=291 (LC 1), 4=204 (LC 1) (lb) - Maximum Compression/Maximum

FORCES

Tension 1-2=0/6, 2-3=-100/45, 3-4=-157/228

TOP CHORD 2-4=0/0

BOT CHORD

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-10-8 to 4-1-8, Interior (1) 4-1-8 to 4-10-4 zone; cantilever left and right exposed; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 59 lb uplift at joint 4 and 83 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





Ply Job Truss Truss Type Qty Roof - Osage Lot 71 P230132-01 В3 Monopitch Job Reference (optional

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

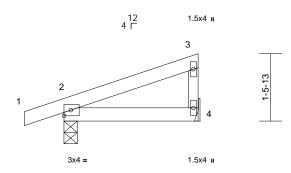
Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Thu Mar 6 ID:k?UxzaFoLR0qy8sWjXGlcLzwwoj-RfC?PsB70Hq3NSgPqnL8w3ulTXbGK

DEVELOPMENT SERVICES 157221929 LEE'S SUMMIT. MISSOURI hu Mar 6 240:26 2/0:26

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW

-0-10-8	2-11-8
0-10-8	2-11-8





2-11-8

Scale = 1:25.4

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.13	Vert(LL)	0.00	2-4	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.08	Vert(CT)	-0.01	2-4	>999	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	n/a	-	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 11 lb	FT = 20%

LUMBER

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

BRACING

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

bracing.

REACTIONS (size) 2=0-3-8, 4= Mechanical

Max Horiz 2=56 (LC 8)

Max Uplift 2=-72 (LC 8), 4=-32 (LC 12) Max Grav 2=207 (LC 1), 4=108 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/6, 2-3=-61/28, 3-4=-81/124 BOT CHORD 2-4=0/0

NOTES

- 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 exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 32 lb uplift at joint 4 and 72 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





Ply Job Truss Truss Type Qty Roof - Osage Lot 71 P230132-01 C1 Common Structural Gable Job Reference (optiona

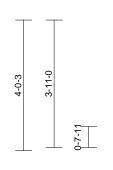
Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083,

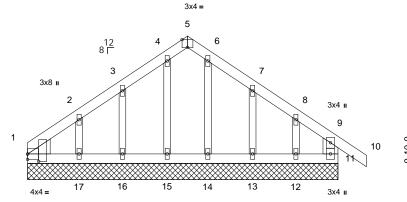
Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. ID:EiusZUx23f_KaFqBj9FMc9zwwlF-RfC?PsB70Hq3NSgPqnL8w3ulTXbGk

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 157221930 LEE'S SUMMIT. MISSOURI

hu Mar







9-6-8

Scale = 1:35.4

Plate Offsets (X, Y): [1:0-2-11,0-4-1], [5:0-2-0,Edge]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.10	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.04	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	11	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 45 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No.2 2x6 SPF No.2 WEBS OTHERS 2x3 SPF No.2 WEDGE Left: 2x6 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 6-0-0 oc

bracing.

REACTIONS (size)

1=9-6-8, 11=9-6-8, 12=9-6-8, 13=9-6-8, 14=9-6-8, 15=9-6-8,

16=9-6-8, 17=9-6-8

Max Horiz 1=117 (LC 11)

Max Uplift 1=-30 (LC 8), 11=-4 (LC 9), 12=-77

(LC 13), 13=-60 (LC 13), 15=-9 (LC 9), 16=-57 (LC 12), 17=-84 (LC 12)

Max Grav 1=85 (LC 20), 11=160 (LC 1),

12=94 (LC 20), 13=139 (LC 20), 14=116 (LC 1), 15=131 (LC 19), 16=119 (LC 19), 17=170 (LC 19)

FORCES (lb) - Maximum Compression/Maximum

Tension

5-6=-67/98, 6-7=-67/99, 7-8=-27/37, 8-9=-54/38, 9-10=0/43, 1-2=-101/97, TOP CHORD

2-3=-67/65, 3-4=-67/98, 4-5=-67/99,

9-11=-138/68

BOT CHORD 1-17=-62/96, 16-17=-62/96, 15-16=-62/96,

14-15=-62/96, 13-14=-62/96, 12-13=-62/96,

11-12=-62/96

4-15=-104/24, 6-14=-91/1, 2-17=-131/116,

8-12=-91/89, 3-16=-96/96, 7-13=-110/102

WEBS NOTES

Unbalanced roof live loads have been considered for this design

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-0-0 to 4-11-0, Exterior(2R) 4-11-0 to 9-11-0, Interior (1) 9-11-0 to 10-5-0 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 4 lb uplift at joint 11, 30 lb uplift at joint 1, 9 lb uplift at joint 15, 84 lb uplift at joint 17, 77 lb uplift at joint 12, 57 lb uplift at joint 16 and 60 lb uplift at joint 13.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard







Ply Qty Job Truss Truss Type Roof - Osage Lot 71 P230132-01 C2 Common Job Reference (optiona

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

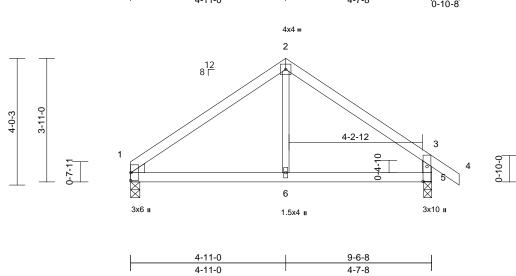
Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. ID:jF5Ncuz?p4p7vTPjlDnW5Hzwwjv-RfC?PsB70Hq3NSgPqnL8w3ulTXbGK

LEE'S SUMMIT. MISSOURI hu Mar

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW

DEVELOPMENT SERVICES 157221931





Scale = 1:36.5

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

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	0.42	Vert(LL)	0.06	1-6	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.54	Vert(CT)	-0.04	1-6	>999	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.11	Horz(CT)	0.00	5	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 37 lb	FT = 20%

LUMBER

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

2x3 SPF No.2 *Except* 5-3:2x4 SP No.2 WEBS

Left: 2x4 SPF No.3 WEDGE

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) 1=0-3-8, 5=0-3-0 Max Horiz 1=116 (LC 11)

Max Uplift 1=-57 (LC 12), 5=-82 (LC 13) Max Grav 1=412 (LC 1), 5=492 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 2-3=-452/479, 3-4=0/40, 1-2=-465/468,

3-5=-445/419 BOT CHORD 1-6=-264/295, 5-6=-264/295

WEBS 2-6=-342/207

NOTES

- 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) 0-1-12 to 4-11-0, Exterior(2R) 4-11-0 to 9-11-0, Interior (1) 9-11-0 to 10-5-0 zone; cantilever left and right exposed; end vertical left and right exposed; porch left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 82 lb uplift at joint 5 and 57 lb uplift at joint 1.

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

LOAD CASE(S) Standard







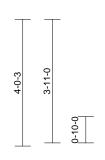
Ply Qty Job Truss Truss Type Roof - Osage Lot 71 P230132-01 C3 Common Job Reference (optiona S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 157221932 LEE'S SUMMIT. MISSOURI

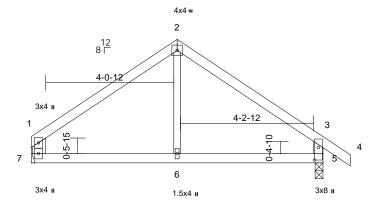
RELEASE FOR CONSTRUCTION

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

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Thu Mar ID:omfbAuONF0YWRSsC6HOyKzzwwi4-RfC?PsB70Hq3NSgPqnL8w3ulTXt GKWrCD









Scale = 1:36.5

Plate Offsets (X, Y): [5:0-4-12,0-1-8]

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	0.32	Vert(LL)	0.03	5-6	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.19	Vert(CT)	-0.03	5-6	>999	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.09	Horz(CT)	0.00	5	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R							Weight: 37 lb	FT = 20%

LUMBER

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

2x3 SPF No.2 *Except* 7-1:2x6 SPF No.2, WEBS

5-3:2x4 SP 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

REACTIONS (size) 5=0-3-0, 7= Mechanical

Max Horiz 7=-122 (LC 8)

Max Uplift 5=-81 (LC 13), 7=-54 (LC 12) Max Grav 5=475 (LC 1), 7=395 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 2-3=-411/435, 3-4=0/40, 1-2=-404/434,

1-7=-339/330, 3-5=-423/400 **BOT CHORD** 6-7=-228/259, 5-6=-228/259

WEBS 2-6=-298/175

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-2-12 to 4-7-8, Exterior(2R) 4-7-8 to 9-7-8, Interior (1) 9-7-8 to 10-1-8 zone; cantilever left and right exposed; end vertical left and right exposed; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 81 lb uplift at joint 5 and 54 lb uplift at joint 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



March 17,2023



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

Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chorembers only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses sand truss systems, see

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

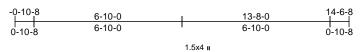


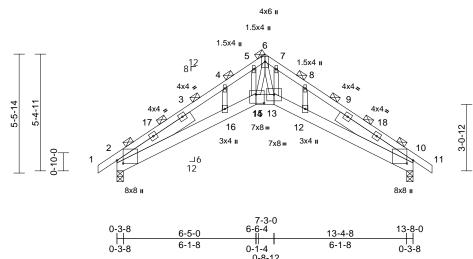
Job Truss Truss Type Qty Ply Roof - Osage Lot 71 P230132-01 D1 Roof Special Supported Gable Job Reference (optiona S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 157221933 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION

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

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Thu Mar ID:wijvgVRNMEbdXh3iv6zXHnzww7s-RfC?PsB70Hq3NSgPqnL8w3uITXbGkWrCDoi7





Scale = 1:53.2

Plate Offsets (X, Y): [2:0-1-12,0-3-6], [10:0-1-12,0-3-6], [15:0-4-8,0-4-12]

Loading	(psf)	Spacing	4-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.55	Vert(LL)	-0.11	15-16	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.74	Vert(CT)	-0.20	15-16	>785	180		
BCLL	0.0	Rep Stress Incr	NO	WB	0.49	Horz(CT)	0.25	10	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 77 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2

2x6 SPF No.2 *Except* 15-13:2x6 SP 2400F BOT CHORD

2.0E

WFBS 2x3 SPF No 2

OTHERS 2x3 SPF No.2 **SLIDER**

Left 2x6 SPF No.2 -- 4-1-3, Right 2x6 SPF

No.2 -- 4-1-3

BRACING TOP CHORD 2-0-0 oc purlins (3-2-7 max.)

(Switched from sheeted: Spacing > 2-0-0). BOT CHORD

Rigid ceiling directly applied or 10-0-0 oc

bracing.

REACTIONS (size) 2=0-3-8, 10=0-3-8

Max Horiz 2=287 (LC 11)

Max Uplift 2=-219 (LC 12), 10=-219 (LC 13)

Max Grav 2=1344 (LC 1), 10=1344 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

1-2=0/19, 2-4=-3167/324, 4-5=-2829/530, TOP CHORD

5-6=-2669/581, 6-7=-2684/550,

7-8=-2859/498, 8-10=-3191/316, 10-11=0/19

2-16=-248/2685, 15-16=-339/2770,

14-15=-201/2408, 13-14=-91/2118,

12-13=-134/2716, 10-12=-105/2646 6-13=-423/1377, 6-14=-570/1549,

5-15=-5/190, 7-13=-114/264, 4-16=-140/339,

8-12=-169/358

NOTES

WEBS

BOT CHORD

Unbalanced roof live loads have been considered for

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-10-8 to 4-1-8, Interior (1) 4-1-8 to 6-10-0, Exterior (2R) 6-10-0 to 11-10-0, Interior (1) 11-10-0 to 14-6-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Gable studs spaced at 1-4-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Bearing at joint(s) 2, 10 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 219 lb uplift at joint 2 and 219 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.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard





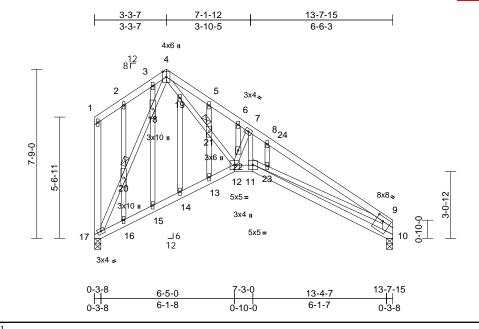
Job Truss Truss Type Qty Ply Roof - Osage Lot 71 P230132-01 D2 Roof Special Structural Gable

Job Reference (optiona

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 157221934 LEE'S SUMMIT. MISSOURI

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

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Thu Mar 6 ID:0Un07T0ZcCLyQZnshlmJUDzwwdO-RfC?PsB70Hq3NSgPqnL8w3ulTXb0KWrCDoirJ4zJc?f



Scale = 1:52.8

Plate Offsets (X, Y): [9:0-3-12,0-2-4]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.59	Vert(LL)	-0.10	11	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.35	Vert(CT)	-0.18	10-11	>894	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.67	Horz(CT)	0.18	10	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 92 lb	FT = 20%

LUMBER

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

2x3 SPF No.2 *Except* 17-1:2x4 SP No.2, WEBS

10-9:2x6 SPF No.2 **OTHERS** 2x3 SPF No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or

3-5-6 oc purlins, except end verticals.

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

bracing.

JOINTS 1 Brace at Jt(s): 20,

21

REACTIONS (size) 10=0-3-8, 17=0-3-7

Max Horiz 17=-286 (LC 10)

Max Uplift 10=-81 (LC 13), 17=-121 (LC 13)

Max Grav 10=598 (LC 1), 17=598 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-188/190. 2-3=-166/195. 3-4=-127/213.

4-5=-1065/316, 5-6=-1118/276, 6-7=-1274/331, 7-8=-1313/274,

8-9=-1638/240, 1-17=-184/165

9-10=-757/224

BOT CHORD 16-17=-94/379, 15-16=-80/402,

14-15=-82/412, 13-14=-84/368,

12-13=-73/398, 11-12=-120/1231, 10-11=-173/556

WEBS 4-19=-193/1149, 19-21=-178/1037,

12-21=-184/1086, 12-22=-738/156, 7-22=-969/265, 7-11=-14/380,

17-20=-612/62, 18-20=-628/63, 4-18=-682/66, 11-23=-4/828, 9-23=-5/896, 3-18=-5/89, 15-18=-1/53, 14-19=-18/136,

2-20=-79/84, 16-20=-92/84, 5-21=-24/57

13-21=-76/56, 6-22=-114/241, 8-23=-17/245

NOTES

- Unbalanced roof live loads have been considered for this design
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-1-12 to 3-3-7, Exterior(2R) 3-3-7 to 8-3-7, Interior (1) 8-3-7 to 13-5-3 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 arip 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.
- Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- Gable studs spaced at 1-4-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Bearing at joint(s) 10, 17 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 81 lb uplift at joint 10 and 121 lb uplift at joint 17.
- 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



March 17,2023



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

Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chorembers only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses sand truss systems, see

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



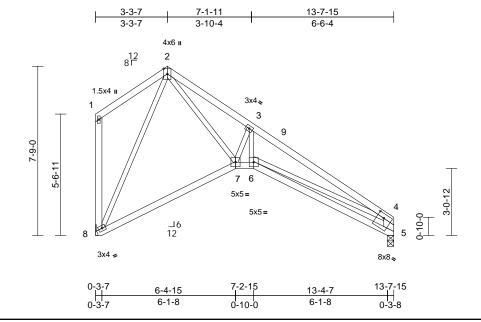
Ply Qty Job Truss Truss Type Roof - Osage Lot 71 P230132-01 D3 Roof Special Job Reference (optiona

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

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Thu Mar ID:pwt0jO1hEphDIMFL4rqrrezwwfy-RfC?PsB70Hq3NSgPqnL8w3uITXbGKV

S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 157221935 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION



Scale = 1:52.8

Plate Offsets (X, Y): [5:0-3-12,0-2-4]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.71	Vert(LL)	-0.07	7-8	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.37	Vert(CT)	-0.16	7-8	>968	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.92	Horz(CT)	0.13	5	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 75 lb	FT = 20%

LUMBER

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

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

5-4:2x6 SPF No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or 2-10-9 oc purlins, except end verticals.

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

bracing

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

Max Horiz 8=-233 (LC 13)

Max Uplift 5=-58 (LC 13), 8=-144 (LC 13)

Max Grav 5=598 (LC 1), 8=598 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=-77/70, 2-3=-1192/171, 3-4=-1599/84,

1-8=-123/81, 4-5=-693/161

BOT CHORD 7-8=-74/349, 6-7=0/1200, 5-6=-118/396 2-7=-94/1160, 3-7=-760/218, 3-6=0/523, **WEBS**

2-8=-583/51, 4-6=0/955

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) 28-5-13 to 31-7-8, Exterior(2R) 31-7-8 to 36-7-8, Interior (1) 36-7-8 to 41-9-4 zone; cantilever left and right exposed; end vertical right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Refer to girder(s) for truss to truss connections.

- Bearing at joint(s) 5 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 58 lb uplift at joint 5 and 144 lb uplift at joint 8.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard





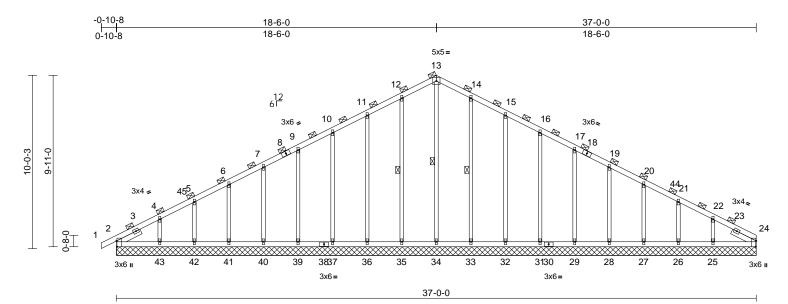


Job	Truss	Truss Type	Qty	Ply	Roof - Osage Lot 71	
P230132-01	E1	Common Supported Gable	1	1	Job Reference (optional	

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

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Thu Mar ID:bSBHIwRtVwODq1AP3GRETazww5H-RfC?PsB70Hq3NSgPqnL8w3uITX

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 157221936 LEE'S SUMMIT. MISSOURI



Scale = 1:66.6

LUMBER

Plate Offsets (X, Y): [2:0-4-1,Edge], [8:0-0-0,0-0-0], [24:0-4-1,Edge]

Loading	(psf)	Spacing	4-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.23	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.13	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	NO	WB	0.40	Horz(CT)	0.02	24	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 194 lb	FT = 20%

TOP CHORD 2x4 SP No.2 TOP CHORD 2x4 SP No.2 BOT CHORD OTHERS 2x3 SPF No.2 **SLIDER** Left 2x4 SP No.2 -- 1-6-7, Right 2x4 SP No.2 -- 1-6-7 **BRACING**

TOP CHORD 2-0-0 oc purlins (6-0-0 max.) (Switched from sheeted: Spacing > 2-0-0). **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc bracing. WEBS 1 Row at midpt 13-34, 12-35, 14-33

2=37-0-0, 24=37-0-0, 25=37-0-0, **REACTIONS** (size) 26=37-0-0, 27=37-0-0, 28=37-0-0, 29=37-0-0, 31=37-0-0, 32=37-0-0,

33=37-0-0, 34=37-0-0, 35=37-0-0, 36=37-0-0, 37=37-0-0, 39=37-0-0, 40=37-0-0, 41=37-0-0, 42=37-0-0, 43=37-0-0

Max Horiz 2=368 (LC 12)

Max Uplift 2=-52 (LC 13), 25=-223 (LC 13), 26=-100 (LC 13), 27=-127 (LC 13), 28=-121 (LC 13), 29=-123 (LC 13), 31=-120 (LC 13), 32=-134 (LC 13), 33=-101 (LC 13), 35=-109 (LC 12), 36=-131 (LC 12), 37=-121 (LC 12), 39=-123 (LC 12), 40=-121 (LC 12), 41=-128 (LC 12), 42=-96 (LC 12), 43=-238 (LC 12)

Max Grav 2=374 (LC 21), 24=246 (LC 22), 25=458 (LC 26), 26=335 (LC 1), 27=366 (LC 26), 28=359 (LC 1),

43=426 (LC 25)

29=360 (LC 26), 31=360 (LC 1), 32=359 (LC 26), 33=376 (LC 26), 34=413 (LC 22), 35=376 (LC 25), 36=359 (LC 25), 37=360 (LC 1), 39=360 (LC 25), 40=359 (LC 1), 41=364 (LC 25), 42=344 (LC 1),

FORCES (lb) - Maximum Compression/Maximum Tension

13-14=-257/688, 14-15=-223/595, 15-16=-183/480, 16-17=-146/374, 17-19=-120/266, 19-20=-120/158, 20-21=-150/61, 21-22=-201/42, 22-24=-337/100, 1-2=0/11, 2-4=-487/166,

4-5=-325/177, 5-6=-260/207, 6-7=-207/261, 7-9=-168/316, 9-10=-146/374,

10-11=-183/480, 11-12=-223/595, 12-13=-257/688

2-43=-93/384, 42-43=-93/384,

41-42=-93/384, 40-41=-93/384, 39-40=-93/384, 37-39=-93/384, 36-37=-93/384, 35-36=-93/384, 34-35=-93/384, 33-34=-93/384, 32-33=-93/384, 31-32=-93/384, 29-31=-93/384, 28-29=-93/384, 27-28=-93/384, 26-27=-93/384

25-26=-93/384, 24-25=-93/384 13-34=-430/84, 12-35=-296/163, 11-36=-279/208, 10-37=-280/191, 9-39=-280/193, 7-40=-280/193, 6-41=-282/197, 5-42=-272/202,

4-43=-320/414, 14-33=-296/163 15-32=-279/208, 16-31=-280/191, 17-29=-280/193, 19-28=-279/192, 20-27=-283/198, 21-26=-265/239, 22-25=-347/438

NOTES

BOT CHORD

WEBS

Unbalanced roof live loads have been considered for this design.

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Corner(3E) -0-10-8 to 4-1-8, Exterior(2N) 4-1-8 to 18-6-0, Corner(3R) 18-6-0 to 23-6-0, Exterior(2N) 23-6-0 to 37-0-0 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 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.



March 17,2023

Continued on page 2

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



Ply Qty Job Truss Truss Type Roof - Osage Lot 71 P230132-01 E1 Common Supported Gable

DEVELOPMENT SERVICES 157221936 Job Reference (optiona

LEE'S SUMMIT. MISSOURI Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. In Mar 6 2018 2/2028 ID:bSBHIwRtVwODq1AP3GRETazww5H-RfC?PsB70Hq3NSgPqnL8w3ulTX GKWrCbaf7Jazc?

RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW

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

- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 52 lb uplift at joint 2, 109 lb uplift at joint 35, 131 lb uplift at joint 36, 121 lb uplift at joint 37, 123 lb uplift at joint 39, 121 lb uplift at joint 40, 128 lb uplift at joint 41, 96 lb uplift at joint 42, 238 lb uplift at joint 43, 101 lb uplift at joint 33, 134 lb uplift at joint 32, 120 lb uplift at joint 31, 123 lb uplift at joint 29, 121 lb uplift at joint 28, 127 lb uplift at joint 27, 100 lb uplift at joint 26 and 223 lb uplift at joint 25.
- 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



Job	Truss	Truss Type	Qty	Ply	Roof - Osage Lot 71
P230132-01	E2	Common	3	1	Job Reference (optional)

S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 157221937 LEE'S SUMMIT. MISSOURI

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

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Thu Mar ID:2RQyHCb1kJbYTluKfo4gsvzww?w-RfC?PsB70Hq3NSgPqnL8w3uITXbG

WrCDoi

RELEASE FOR CONSTRUCTION

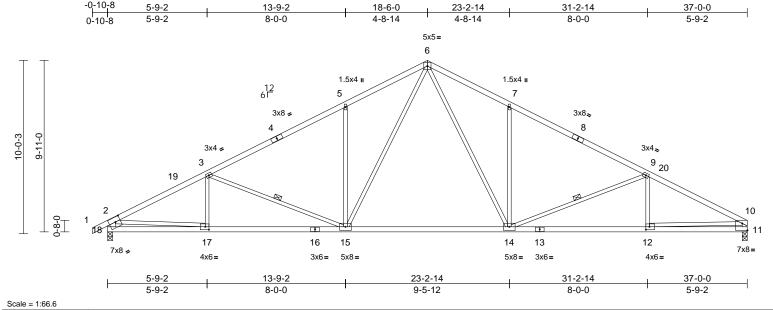


Plate Offsets (X, Y): [11:Edge,0-4-13], [12:0-2-8,0-2-0], [17:0-2-8,0-2-0], [18:0-3-8,0-3-4]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.64	Vert(LL)	-0.19	14-15	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.90	Vert(CT)	-0.44	14-15	>992	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.93	Horz(CT)	0.10	11	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 175 lb	FT = 20%

LUMBER

WEBS

TOP CHORD 2x4 SP 1650F 1.5E

BOT CHORD 2x4 SP No.2

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

11-10:2x4 SP No.2

BRACING TOP CHORD

Structural wood sheathing directly applied or 3-4-11 oc purlins, except end verticals.

BOT CHORD Rigid ceiling directly applied or 8-4-6 oc

bracing

WEBS

3-15, 9-14 1 Row at midpt REACTIONS 11=0-3-8, 18=0-3-8 (size) Max Horiz 18=176 (LC 16)

Max Uplift 11=-250 (LC 13), 18=-278 (LC 12)

Max Grav 11=1647 (LC 1), 18=1727 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

1-2=0/35, 2-3=-2850/431, 3-5=-2362/418, TOP CHORD

5-6=-2339/552, 6-7=-2345/549, 7-9=-2369/426, 9-10=-2893/451

2-18=-1662/338, 10-11=-1580/279 **BOT CHORD** 17-18=-257/548, 15-17=-483/2476,

14-15=-112/1563, 12-14=-348/2521,

11-12=-105/514

WEBS 3-17=-52/151, 3-15=-556/246,

5-15=-512/308, 6-15=-325/1011, 6-14=-327/1022, 7-14=-507/306, 9-14=-594/255, 9-12=-42/160,

2-17=-227/1935, 10-12=-244/2013

NOTES

Unbalanced roof live loads have been considered for this design.

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-10-8 to 4-1-8, Interior (1) 4-1-8 to 18-6-0, Exterior (2R) 18-6-0 to 23-2-14, Interior (1) 23-2-14 to 36-10-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 250 lb uplift at joint 11 and 278 lb uplift at joint 18.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard





Ply Job Truss Truss Type Qtv Roof - Osage Lot 71 P230132-01 E3 Common Girder 3 Job Reference (optiona RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 157221938 LEE'S SUMMIT. MISSOURI

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

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Thu Mar ID:X3j9csSdTd?hyQgxh8rn6OzwvzW-RfC?PsB70Hq3NSgPqnL8w3uITXbGkWrCDoi7

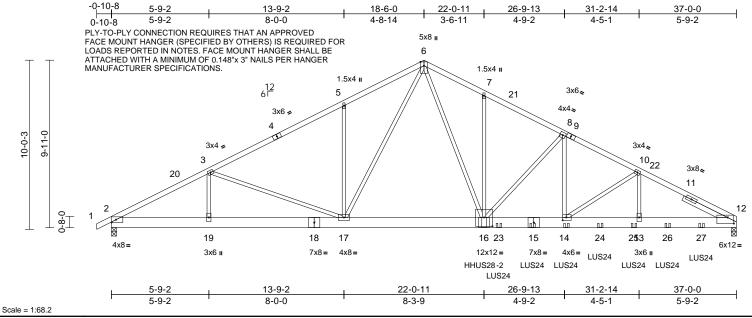


Plate Offsets (X, Y): [12:0-4-8,0-4-5], [14:0-2-8,0-2-0], [16:0-6-0,0-6-4]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.93	Vert(LL)	-0.20	14-16	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.77	Vert(CT)	-0.35	14-16	>999	180		
BCLL	0.0	Rep Stress Incr	NO	WB	0.80	Horz(CT)	0.08	12	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 621 lb	FT = 20%

LUMBER

2x4 SP No.2 *Except* 9-12:2x4 SP 1650F TOP CHORD

1.5E 2x8 SPF No.2

BOT CHORD 2x3 SPF No 2 WFBS

SLIDER Right 2x4 SP No.2 -- 2-10-7

BRACING

TOP CHORD Structural wood sheathing directly applied or

5-1-10 oc purlins

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

bracing

REACTIONS 2=0-3-8, 12=0-3-7, (req. 0-3-11) (size)

Max Horiz 2=187 (LC 33)

Max Uplift 2=-854 (LC 12), 12=-1612 (LC 13)

Max Grav 2=4090 (LC 1), 12=7032 (LC 1) (lb) - Maximum Compression/Maximum

FORCES Tension

1-2=0/16, 2-3=-7855/1625, 3-5=-7513/1671, TOP CHORD

5-6=-7478/1798, 6-7=-9697/2362,

7-8=-9768/2284, 8-10=-11559/2683

10-12=-12807/2934

BOT CHORD 2-19=-1530/6820, 17-19=-1530/6820,

16-17=-1236/6196, 14-16=-2236/10339

13-14=-2498/11175, 12-13=-2498/11175 WEBS 6-17=-382/928, 7-16=-206/237, 3-19=0/191,

6-16=-1763/6973, 8-16=-2541/750,

8-14=-575/2243, 10-14=-1058/363,

10-13=-278/1272, 5-17=-485/314, 3-17=-370/421

NOTES

1) N/A

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

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

Bottom chords connected as follows: 2x8 - 4 rows staggered at 0-4-0 oc.

- Web connected as follows: 2x3 1 row at 0-9-0 oc. All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- Unbalanced roof live loads have been considered for this design
- Wind: ASCE 7-16; Vult=115mph (3-second gust) 5) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-10-8 to 4-1-8, Interior (1) 4-1-8 to 18-6-0, Exterior(2R) 18-6-0 to 23-6-0, Interior (1) 23-6-0 to 36-10-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- WARNING: Required bearing size at joint(s) 12 greater than input bearing size.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1612 lb uplift at joint 12 and 854 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.
- 10) Use Simpson Strong-Tie HHUS28-2 (22-16d Girder 8-16d Truss) or equivalent at 22-0-11 from the left end to connect truss(es) to front face of bottom chord.

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

11) Use Simpson Strong-Tie LUS24 (4-10d Girder, 2-10d Truss) or equivalent spaced at 2-0-0 oc max. starting at 22-11-4 from the left end to 34-11-4 to connect truss(es) to front 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: 1-6=-70, 6-12=-70, 2-12=-20

Concentrated Loads (lb)

Vert: 15=-578 (F), 16=-3701 (F), 14=-578 (F), 23=-578 (F), 24=-578 (F), 25=-578 (F), 26=-578 (F),

27=-578 (F)



March 17,2023



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

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

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



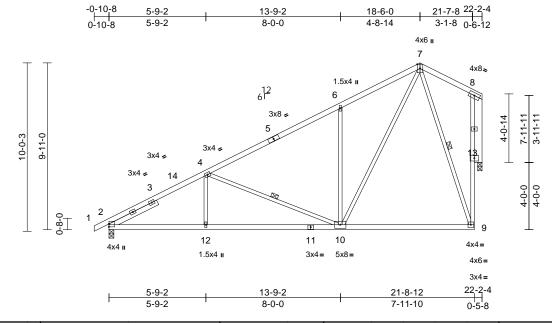
Ply Job Truss Truss Type Qty Roof - Osage Lot 71 P230132-01 E4 Roof Special 5

DEVELOPMENT SERVICES 157221939 LEE'S SUMMIT. MISSOURI Job Reference (optiona

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

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Thu Mar ID:X3j9csSdTd?hyQgxh8rn6OzwvzW-RfC?PsB70Hq3NSgPqnL8w3uITXbGł

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW



Scale = 1:68.5

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	0.79	Vert(LL)	-0.11	9-10	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.71	Vert(CT)	-0.23	9-10	>999	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.96	Horz(CT)	-0.03	13	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 121 lb	FT = 20%

LUMBER

2x4 SP No.2 TOP CHORD

BOT CHORD 2x4 SP No.2 *Except* 9-8:2x3 SPF No.2 2x3 SPF No.2 *Except* 13-8:2x6 SPF No.2 WEBS

SLIDER Left 2x4 SP No.2 -- 3-2-3 BRACING

TOP CHORD Structural wood sheathing directly applied or 3-5-6 oc purlins, except end verticals.

BOT CHORD Rigid ceiling directly applied or 8-4-8 oc

bracing.

WEBS 4-10, 7-9 1 Row at midpt REACTIONS 2=0-3-8, 13=0-3-2 (size)

Max Horiz 2=384 (LC 12) Max Uplift 2=-153 (LC 12), 13=-235 (LC 12) Max Grav 2=1036 (LC 1), 13=972 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/6, 2-4=-1623/208, 4-6=-943/120,

6-7=-924/276, 7-8=-64/49, 9-13=-212/848,

8-13=-124/66

BOT CHORD 2-12=-483/1364, 10-12=-483/1364,

9-10=-82/264

6-10=-521/308, 7-10=-338/1066, 4-12=0/277,

4-10=-680/274, 7-9=-822/263

WEBS NOTES

- 1) Unbalanced roof live loads have been considered for this design
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-10-8 to 4-1-8, Interior (1) 4-1-8 to 18-6-0, Exterior(2E) 18-6-0 to 21-7-8 zone; cantilever left and right exposed; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- 4) Bearing at joint(s) 13 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 153 lb uplift at joint 2 and 235 lb uplift at joint 13.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard





Ply Job Truss Truss Type Qty Roof - Osage Lot 71 P230132-01 E5 Roof Special 2 Job Reference (optiona

S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 157221940 LEE'S SUMMIT. MISSOURI

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

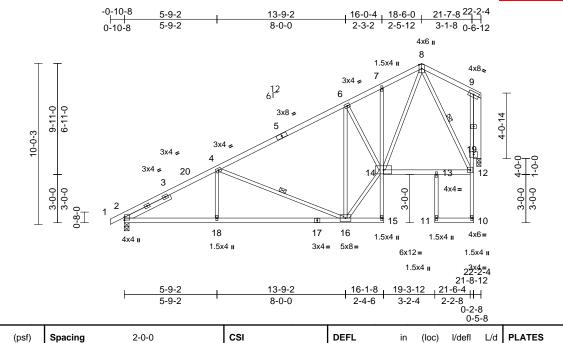
Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Thu Mar ID:X3j9csSdTd?hyQgxh8rn6OzwvzW-RfC?PsB70Hq3NSgPqnL8w3uITXbGk

GRIP

244/190

FT = 20%

RELEASE FOR CONSTRUCTION



BCDL LUMBER

Loading

TCDI

BCLL

TCLL (roof)

Scale = 1:71.7

2x4 SP No.2 TOP CHORD

2x4 SP No.2 *Except* 15-7,13-11,10-9:2x3 **BOT CHORD**

25.0

10.0

0.0

10.0

Plate Grip DOL

Rep Stress Incr

Lumber DOL

Code

1.15

1 15

YES

IRC2018/TPI2014

SPF No.2

WEBS 2x3 SPF No.2 *Except* 19-9:2x6 SPF No.2

SLIDER Left 2x4 SP No.2 -- 3-2-3

BRACING TOP CHORD

Structural wood sheathing directly applied or 3-10-14 oc purlins, except end verticals.

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

bracing.

WFBS 1 Row at midpt 4-16 8-12

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

Max Horiz 2=384 (LC 12)

Max Uplift 2=-153 (LC 12), 19=-235 (LC 12) Max Grav 2=1036 (LC 1), 19=972 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD

1-2=0/6. 2-4=-1624/204. 4-6=-940/125.

6-7=-943/261, 7-8=-841/278, 8-9=-69/49 10-12=0/47. 12-19=-208/852. 9-19=-122/68

BOT CHORD 2-18=-480/1364, 16-18=-480/1364,

15-16=-13/1, 14-15=-43/0, 7-14=-20/62,

13-14=-115/391, 12-13=-116/391,

11-13=0/41, 10-11=0/2

6-16=-566/285, 8-14=-303/1001, 4-18=0/294,

4-16=-682/265, 8-12=-875/265,

14-16=-374/1218, 6-14=-16/34

NOTES

WFBS

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

Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-10-8 to 4-1-8, Interior (1) 4-1-8 to 18-6-0, Exterior(2E) 18-6-0 to 21-7-8 zone; cantilever left and right exposed; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip

0.82

0.59

0.73

Vert(LL)

Vert(CT)

Horz(CT)

-0.10

-0.22

0.04

16-18

16-18

19

>999

>999

n/a n/a

240

180

MT20

Weight: 134 lb

TC

BC

WB

Matrix-S

- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Bearing at joint(s) 19 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 153 lb uplift at joint 2 and 235 lb uplift at joint 19.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard





Ply Qty Job Truss Truss Type Roof - Osage Lot 71 P230132-01 E6 Common Job Reference (optiona

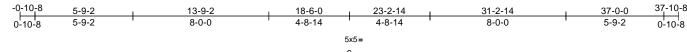
S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 157221941 LEE'S SUMMIT. MISSOURI

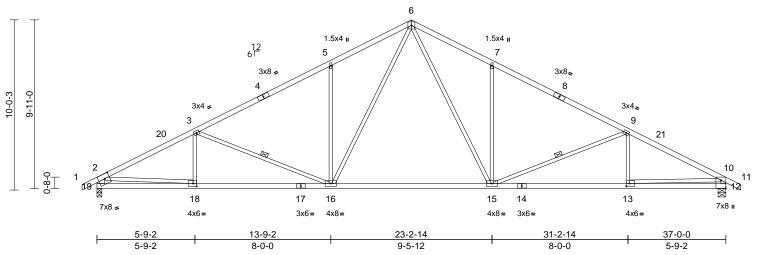
RELEASE FOR CONSTRUCTION

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

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. ID:TnZ3x61kRmd3IVZaqXdQQ5zwvtc-RfC?PsB70Hq3NSgPqnL8w3uITXbG

hu Mar





Scale = 1:67.8

Plate Offsets (X, Y): [12:Edge,0-3-8], [13:0-2-8,0-2-0], [18:0-2-8,0-2-0], [19:0-3-8,0-3-4]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.64	Vert(LL)	-0.19	15-16	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.90	Vert(CT)	-0.44	15-16	>993	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.92	Horz(CT)	0.10	12	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 176 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP 1650F 1.5E

BOT CHORD 2x4 SP No.2

2x3 SPF No.2 *Except* 19-2:2x6 SPF No.2,

12-10:2x4 SP 1650F 1.5E

BRACING

WEBS

TOP CHORD Structural wood sheathing directly applied or 3-4-13 oc purlins, except end verticals.

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

bracing, Except:

8-5-5 oc bracing: 16-18.

WEBS 3-16, 9-15 1 Row at midpt

REACTIONS (size) 12=0-5-8, 19=0-3-8 Max Horiz 19=-166 (LC 17)

Max Uplift 12=-276 (LC 13), 19=-278 (LC 12)

Max Grav 12=1719 (LC 1), 19=1726 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/35, 2-3=-2848/431, 3-5=-2360/418,

5-6=-2337/549, 6-7=-2343/549,

7-9=-2365/419, 9-10=-2884/437, 10-11=0/32,

2-19=-1661/337, 10-12=-1654/334

18-19=-249/555. 16-18=-474/2474.

15-16=-102/1561, 13-15=-312/2506 12-13=-114/613

WEBS 5-16=-512/308, 6-16=-325/1012,

9-13=-32/166, 7-15=-511/308, 3-18=-52/151,

10-13=-206/1899, 3-16=-556/246, 6-15=-327/1021, 2-18=-225/1934,

9-15=-581/251

NOTES

BOT CHORD

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

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-10-8 to 4-1-8, Interior (1) 4-1-8 to 18-6-0, Exterior (2R) 18-6-0 to 23-2-14, Interior (1) 23-2-14 to 37-10-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- The Fabrication Tolerance at joint 10 = 16%
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 276 lb uplift at joint 12 and 278 lb uplift at joint 19.
- 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 71	
P230132-01	E7	Common Supported Gable	1	1	Job Reference (optional	

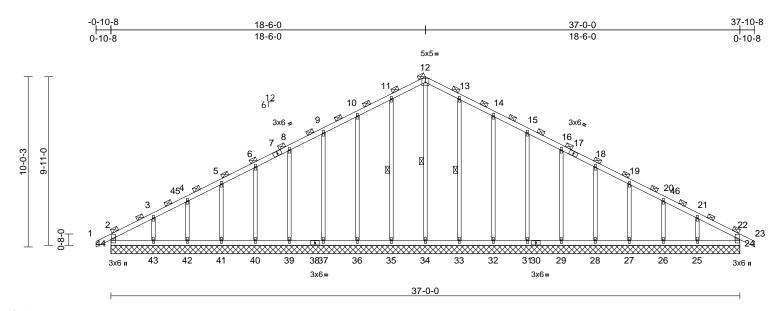
Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Thu Mar 6

S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 157221942 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION

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

ID:30TC0Xcr8WgF3uEpecUgNDzwvss-RfC?PsB70Hq3NSgPqnL8w3uITXbC



Scale = 1:67.8

Plate Offsets	(X,	Y):	[17:0-0-0,0-0-0]	
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Loading	(psf)	Spacing	4-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.22	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.16	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	NO	WB	0.40	Horz(CT)	0.02	24	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R							Weight: 191 lb	FT = 20%

			FORCES	(lb) - Maximum Compression/Maximum
2x4 SP N	0.2			Tension
2x4 SP N	0.2		TOP CHORD	2-44=-331/141, 1-2=0/64, 2-3=-395/168,
2x4 SP N	0.2			3-4=-263/184, 4-5=-207/232, 5-6=-163/287,
2x3 SPF I	No.2			6-8=-139/343, 8-9=-175/426, 9-10=-213/533,
				10-11=-252/648, 11-12=-286/740,
2-0-0 oc r	ourlins (6-	·0-0 max) except end		12-13=-286/740, 13-14=-252/648,
	o a (o	o o maxi,		14-15=-213/533, 15-16=-175/426,
	from she	eeted: Spacing > 2-0-0)		16-18=-138/319, 18-19=-101/211,
*		, ,		19-20=-128/127, 20-21=-177/81,
0	9 400	, applied 51 15 5 5 55		21-22=-285/83, 22-23=0/64, 22-24=-331/155
U	midnt	12-34 11-35 13-33	BOT CHORD	43-44=-87/325, 42-43=-87/325,
				41-42=-87/325, 40-41=-87/325,
(3126)				39-40=-87/325, 37-39=-87/325,
				36-37=-87/325, 35-36=-87/325,
				34-35=-87/325, 33-34=-87/325,
				32-33=-87/325, 31-32=-87/325,
				29-31=-87/325, 28-29=-87/325,
		-,,,		27-28=-87/325, 26-27=-87/325,
May Horiz				25-26=-87/325, 24-25=-87/325
		'	WEBS	12-34=-474/106, 11-35=-296/159,
Max Opilit				10-36=-279/210, 9-37=-280/190,
				8-39=-280/193, 6-40=-280/193,
				5-41=-281/197, 4-42=-275/204,
				3-43=-302/379, 13-33=-296/159,
	,	, ,,		14-32=-279/210, 15-31=-280/190,
				16-29=-280/193, 18-28=-280/193,
	2x4 SP N 2x4 SP N 2x3 SPF 2-0-0 oc verticals (Switcher Rigid ceil bracing. 1 Row at (size)	2x4 SP No.2 2x3 SPF No.2 2-0-0 oc purlins (6-verticals (Switched from she Rigid ceiling directibracing. 1 Row at midpt (size) 24=37-0 27=37-0 31=37-0 41=37-0 44=37-0 Max Horiz 44=-334 Max Uplift 24=-20 (26=-92 (28=-121 31=-120 33-99) (36=-132)	2x4 SP No.2 2x4 SP No.2 2x3 SPF No.2 2-0-0 oc purlins (6-0-0 max.), except end verticals (Switched from sheeted: Spacing > 2-0-0). Rigid ceiling directly applied or 10-0-0 oc bracing. 1 Row at midpt 12-34, 11-35, 13-33	2x4 SP No.2 2x4 SP No.2 2x4 SP No.2 2x3 SPF No.2 2-0-0 oc purlins (6-0-0 max.), except end verticals (Switched from sheeted: Spacing > 2-0-0). Rigid ceilling directly applied or 10-0-0 oc bracing. 1 Row at midpt

NOTES

39=-123 (LC 12), 40=-120 (LC 12),

41=-132 (LC 12), 42=-83 (LC 12), 43=-254 (LC 12), 44=-78 (LC 8)

24=375 (LC 1), 25=397 (LC 26),

26=350 (LC 1), 27=363 (LC 26),

28=359 (LC 1), 29=360 (LC 26), 31=360 (LC 1), 32=359 (LC 26),

33=376 (LC 26), 34=431 (LC 22),

35=376 (LC 25), 36=359 (LC 25), 37=360 (LC 1), 39=360 (LC 25), 40=359 (LC 1), 41=363 (LC 25), 42=350 (LC 1), 43=397 (LC 25),

44=375 (LC 1)

Unbalanced roof live loads have been considered for this design.

21-25=-302/375

19-27=-281/197, 20-26=-275/205,

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Corner(3E) -0-10-8 to 4-1-8, Exterior(2N) 4-1-8 to 18-6-0, Corner(3R) 18-6-0 to 23-6-0, Exterior(2N) 23-6-0 to 37-10-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 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.



March 17,2023

Continued on page 2

Max Grav

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



Ply Job Truss Truss Type Qty Roof - Osage Lot 71 P230132-01 E7 Common Supported Gable Job Reference (optiona

DEVELOPMENT SERVICES 157221942 LEE'S SUMMIT. MISSOURI Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. thu Mar 0.240:11 2/29:2 ID:30TC0Xcr8WgF3uEpecUgNDzwyss-RfC?PsB70Hq3NSgPqnL8w3uITXbc WrCDow-4zJ-7f

RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW

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

Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 78 lb uplift at joint 44, 20 lb uplift at joint 24, 105 lb uplift at joint 35, 132 lb uplift at joint 36, 120 lb uplift at joint 37, 123 lb uplift at joint 39, 120 lb uplift at joint 40, 132 lb uplift at joint 41, 83 lb uplift at joint 42, 254 lb uplift at joint 43, 99 lb uplift at joint 33, 135 lb uplift at joint 32, 120 lb uplift at joint 31, 123 lb uplift at joint 29, 121 lb uplift at joint 28, 129 lb uplift at joint 27, 92 lb uplift at joint 26 and 225 lb uplift at joint 25.

- 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

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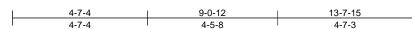
Ply Job Truss Truss Type Qty Roof - Osage Lot 71 P230132-01 R1 Flat Girder 2 Job Reference (optiona

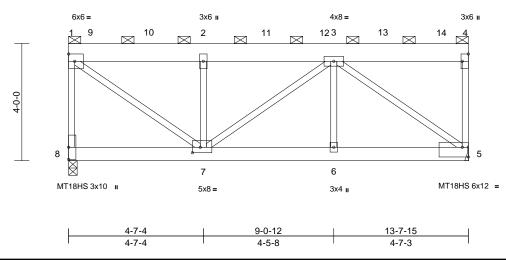
Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083,

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Thu Mar ID:X3j9csSdTd?hyQgxh8rn6OzwvzW-RfC?PsB70Hq3NSgPqnL8w3uITXbGk

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 157221943 LEE'S SUMMIT. MISSOURI

WrCDoi7





Scale = 1:39.4

Plate Offsets (X, Y): [4:Edge,0-2-8], [5:Edge,0-4-0], [7:0-3-4,0-2-4]

Loading	(psf)	Spacing	2-0-0	csı		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.36	Vert(LL)	-0.04	6-7	>999	240	MT18HS	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.40	Vert(CT)	-0.08	6-7	>999	180	MT20	197/144
BCLL	0.0	Rep Stress Incr	NO	WB	0.74	Horz(CT)	0.02	5	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 158 lb	FT = 20%

LUMBER

TOP CHORD 2x8 SPF No.2 BOT CHORD 2x6 SPF No.2 2x3 SPF No.2 WEBS

BRACING

TOP CHORD 2-0-0 oc purlins (6-0-0 max.): 1-4, except

end verticals.

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

bracing.

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

Max Uplift 5=-835 (LC 8), 8=-857 (LC 8) Max Grav 5=3721 (LC 1), 8=3822 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-8=-3741/1015, 1-2=-3307/877,

2-3=-3307/877, 3-4=-24/6, 4-5=-1074/313 7-8=-7/29, 6-7=-894/3359, 5-6=-894/3359 **BOT CHORD**

1-7=-1097/4139, 2-7=-2438/729, 3-7=-66/23, WEBS

3-6=0/172 3-5=-4213/1122

NOTES

- 1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows: Top chords connected as follows: 2x3 - 1 row at 0-9-0 oc, 2x8 - 2 rows staggered at 0-9-0 oc. Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 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.

- 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 (3) zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- All plates are MT20 plates unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 857 lb uplift at joint 8 and 835 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) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 11) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 914 lb down and 207 lb up at 0-9-0, 902 lb down and 203 lb up at 2-9-0, 902 lb down and 203 lb up at 4-9-0, 902 lb down and 203 lb up at 6-9-0, 902 lb down and 203 lb up at 8-9-0, and 902 lb down and 203 lb up at 10-9-0, and 909 lb down and 206 lb up at 12-9-0 on top chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

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

Vert: 1-4=-70, 5-8=-20

13=-902, 14=-909

Concentrated Loads (lb) Vert: 2=-902, 9=-914, 10=-902, 11=-902, 12=-902,

SCOTT M. SEVIER ROLL STONAL PE-2001018807

OF MISS



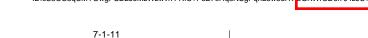


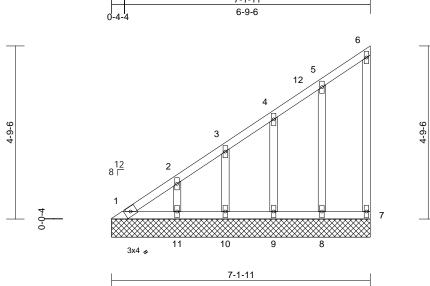
Ply Job Truss Truss Type Qty Roof - Osage Lot 71 P230132-01 V1 Valley Job Reference (optiona

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

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. hu Mar ID:cS3OC3qCMYOwgPSD2JoMzWzwvrH-RfC?PsB70Hq3NSgPqnL8w3uIT2

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 157221944 LEE'S SUMMIT. MISSOURI





Scale = 1:31.8

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	0.06	Vert(LL)	n/a	-	n/a	999	MT20	197/144
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	0.04	Horiz(TL)	0.00	7	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 23 lb	FT = 20%

LUMBER

TOP CHORD 2x3 SPF No.2 **BOT CHORD** 2x3 SPF No.2 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) 1=7-1-11, 7=7-1-11, 8=7-1-11, 9=7-1-11, 10=7-1-11, 11=7-1-11

Max Horiz 1=196 (LC 12)

Max Uplift 1=-13 (LC 10), 7=-19 (LC 12),

8=-55 (LC 12), 9=-53 (LC 12), 10=-49 (LC 12), 11=-68 (LC 12)

1=114 (LC 12), 7=46 (LC 19), Max Grav

8=134 (LC 19), 9=126 (LC 19),

10=120 (LC 19), 11=150 (LC 19)

FORCES (lb) - Maximum Compression/Maximum

TOP CHORD

1-2=-288/141, 2-3=-211/102, 3-4=-153/76, 4-5=-91/47, 5-6=-33/16, 6-7=-36/35

BOT CHORD 1-11=0/0, 10-11=0/0, 9-10=0/0, 8-9=0/0,

7-8=0/0 **WEBS** 5-8=-105/99, 4-9=-100/95, 3-10=-95/90,

2-11=-119/120

NOTES

- 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) 0-4-0 to 5-4-0, Interior (1) 5-4-0 to 6-11-12 zone; cantilever left and right exposed; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.

- All plates are 1.5x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 1-4-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 13 lb uplift at joint 1, 19 lb uplift at joint 7, 55 lb uplift at joint 8, 53 lb uplift at joint 9, 49 lb uplift at joint 10 and 68 lb uplift at joint
- 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



March 17,2023



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

Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chorembers only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses sand truss systems, see

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



Ply Qty Job Truss Truss Type Roof - Osage Lot 71 P230132-01 V2 Valley Job Reference (optiona

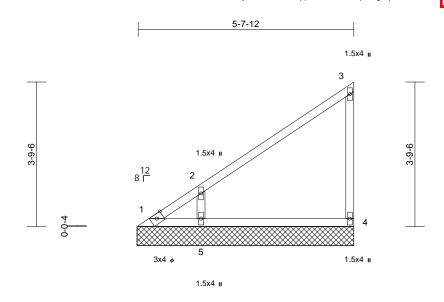
S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 157221945 LEE'S SUMMIT. MISSOURI

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

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Thu Mar 6 ID:sXlwxCz9DQEayreHZ3UPnLzwvpp-RfC?PsB70Hq3NSgPqnL8w3uITXbG

(WrCDoi754zJC?f

RELEASE FOR CONSTRUCTION



Scale = 1:30.2

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	0.40	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.21	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.08	Horiz(TL)	n/a	-	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 13 lb	FT = 20%

5-7-12

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or

5-8-2 oc purlins, except end verticals. **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc

bracing.

REACTIONS (size) 1=5-8-2, 4=5-8-2, 5=5-8-2

Max Horiz 1=152 (LC 12)

Max Uplift 1=-70 (LC 19), 4=-61 (LC 12),

5=-160 (LC 12)

Max Grav 1=119 (LC 12), 4=149 (LC 19),

5=387 (LC 19)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-272/149, 2-3=-103/53, 3-4=-117/119

BOT CHORD 1-5=0/0, 4-5=0/0 **WEBS** 2-5=-305/310

NOTES

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

- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 70 lb uplift at joint 1, 61 lb uplift at joint 4 and 160 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.

LOAD CASE(S) Standard





Ply Truss Type Qty Job Truss Roof - Osage Lot 71 P230132-01 V3 Valley

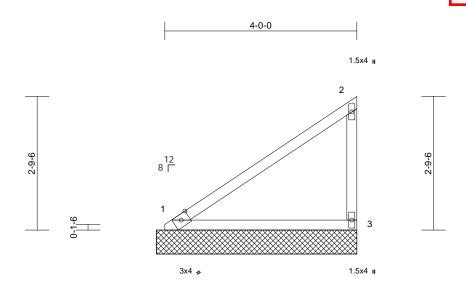
Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083,

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LEE'S SUMMIT. MISSOURI hu Mar 6 240:32 VrCDoi7342JC?f

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW

DEVELOPMENT SERVICES 157221946



Scale = 1:24

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	0.54	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.29	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.00	Horiz(TL)	n/a	-	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 9 lb	FT = 20%

4-0-0

LUMBER

LOAD CASE(S) Standard

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 4-2-2 oc purlins, except end verticals.

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

bracing.

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

Max Horiz 1=108 (LC 12) Max Uplift 3=-73 (LC 12)

Max Grav 1=167 (LC 1), 3=176 (LC 19)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-105/65, 2-3=-139/149

BOT CHORD 1-3=0/0

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) 1) 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 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 73 lb uplift at joint
- 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.



March 17,2023



Ply Qty Job Truss Truss Type Roof - Osage Lot 71 P230132-01 V4 Valley Job Reference (optiona

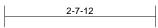
Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083,

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Thu Mar 🌀

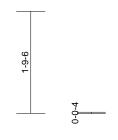
DEVELOPMENT SERVICES 157221947 LEE'S SUMMIT. MISSOURI

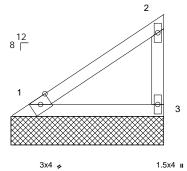
RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW

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1.5x4 ı







2-7-12

Scale = 1:20.2

Loading	(psf)	Spacing	2-0-0	csı		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.17	Vert(LL)	n/a	-	n/a	999	MT20	197/144
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	0.00	Horiz(TL)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 6 lb	FT = 20%

LOAD CASE(S) Standard

LUMBER TOP CHORD 2x3 SPF No.2 **BOT CHORD** 2x3 SPF No.2 2x3 SPF No.2 WEBS

BRACING

TOP CHORD Structural wood sheathing directly applied or 2-8-2 oc purlins, except end verticals.

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

bracing.

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

Max Horiz 1=65 (LC 12) Max Uplift 3=-43 (LC 12)

Max Grav 1=100 (LC 1), 3=105 (LC 19)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-66/39, 2-3=-83/95

BOT CHORD 1-3=0/0

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) 1) 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 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 43 lb uplift at joint
- 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.



March 17,2023



Ply Qty Job Truss Truss Type Roof - Osage Lot 71 P230132-01 V5 Valley

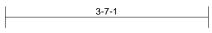
Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083,

S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 157221948 LEE'S SUMMIT. MISSOURI Job Reference (optiona

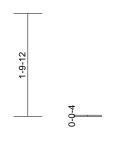
RELEASE FOR CONSTRUCTION

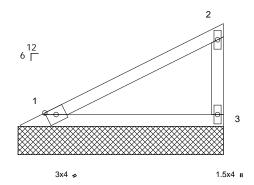
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3-7-1



1.5x4 II





1-9-12

3-7-1

Scale = 1:20.4

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.35	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.19	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.00	Horiz(TL)	n/a	-	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 7 lb	FT = 20%

LUMBER

LOAD CASE(S) Standard

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 3-7-9 oc purlins, except end verticals.

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

bracing.

REACTIONS (size) 1=3-7-9, 3=3-7-9

Max Horiz 1=67 (LC 12)

Max Uplift 1=-13 (LC 12), 3=-47 (LC 12) Max Grav 1=138 (LC 1), 3=138 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-72/39, 2-3=-107/128

BOT CHORD 1-3=0/0

NOTES

- 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 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 13 lb uplift at joint 1 and 47 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.



March 17,2023

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

Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chorembers only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses sand truss systems, see

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



Ply Qty Job Truss Truss Type Roof - Osage Lot 71 P230132-01 V6 Valley Job Reference (optional

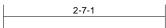
Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083,

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Thu Mar ID:X3j9csSdTd?hyQgxh8rn6OzwvzW-RfC?PsB70Hq3NSgPqnL8w3uITXbGk

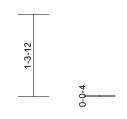
S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 157221949 LEE'S SUMMIT. MISSOURI

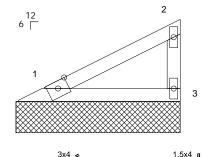
RELEASE FOR CONSTRUCTION

WrCDoi734zJC?



1.5x4 II







2-7-1

Scale = 1:18.4

Loading	(psf)	Spacing	2-0-0	csı		DEFL	in	(loc)	I/defI	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.15	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.08	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.00	Horiz(TL)	n/a	-	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 5 lb	FT = 20%

LUMBER

LOAD CASE(S) Standard

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 2-7-9 oc purlins, except end verticals.

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

bracing.

REACTIONS (size) 1=2-7-9, 3=2-7-9

Max Horiz 1=45 (LC 12)

Max Uplift 1=-9 (LC 12), 3=-32 (LC 12) Max Grav 1=93 (LC 1), 3=93 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-49/26, 2-3=-72/86

BOT CHORD 1-3=0/0

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) 1) 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 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 9 lb uplift at joint 1 and 32 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.



March 17,2023



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



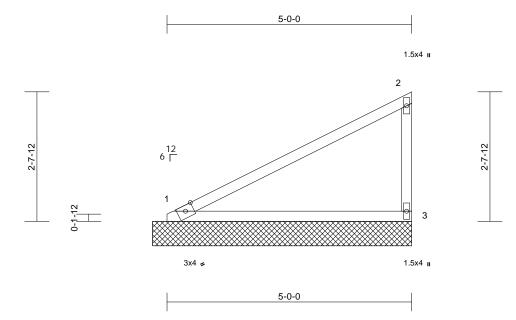
Ply Qty Job Truss Truss Type Roof - Osage Lot 71 P230132-01 V7 Valley Job Reference (optiona

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

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Thu Mar ID:X3j9csSdTd?hyQgxh8rn6OzwvzW-RfC?PsB70Hq3NSgPqnL8w3uITXbGk

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 157221950 LEE'S SUMMIT. MISSOURI

WrCDoi7



Scale = 1:23.5

Loading	(psf)	Spacing	2-0-0	csı		DEFL	in	(loc)	I/defI	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.89	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.48	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.00	Horiz(TL)	n/a	-	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 10 lb	FT = 20%

LUMBER LOAD CASE(S) Standard

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

BRACING

TOP CHORD Structural wood sheathing directly applied,

except end verticals.

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

bracing.

REACTIONS (size) 1=5-3-9, 3=5-3-9

Max Horiz 1=104 (LC 12)

Max Uplift 1=-20 (LC 12), 3=-72 (LC 12) Max Grav 1=213 (LC 1), 3=213 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-111/59, 2-3=-165/197

BOT CHORD 1-3=0/0

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) 1) 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 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 20 lb uplift at joint 1 and 72 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.





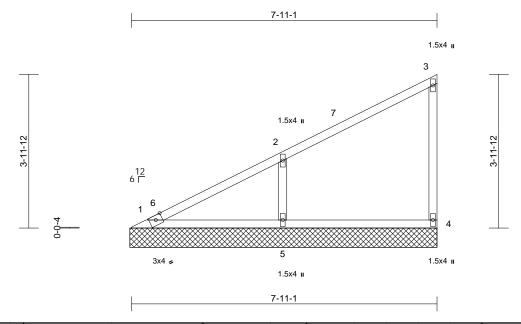
Ply Job Truss Truss Type Qty Roof - Osage Lot 71 P230132-01 V8 Valley Job Reference (optiona

S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 157221951 LEE'S SUMMIT. MISSOURI

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

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Thu Mar ID:X3j9csSdTd?hyQgxh8rn6OzwvzW-RfC?PsB70Hq3NSgPqnL8w3uITXbGł

RELEASE FOR CONSTRUCTION



Scale = 1:29.9

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.43	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.23	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.08	Horiz(TL)	n/a	-	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 17 lb	FT = 20%

LUMBER

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

(size) REACTIONS 1=7-11-9, 4=7-11-9, 5=7-11-9

Max Horiz 1=162 (LC 12)

Max Uplift 4=-46 (LC 12), 5=-142 (LC 12)

1=113 (LC 1), 4=136 (LC 1), 5=417 Max Grav

(LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-237/110, 2-3=-81/35, 3-4=-105/109

BOT CHORD 1-5=0/0 4-5=0/0 WFBS 2-5=-324/335

NOTES

- 1) 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) 0-5-9 to 5-5-9, Interior (1) 5-5-9 to 7-10-5 zone; cantilever left and right exposed; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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.

- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 46 lb uplift at joint 4 and 142 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.

LOAD CASE(S) Standard



March 17,2023



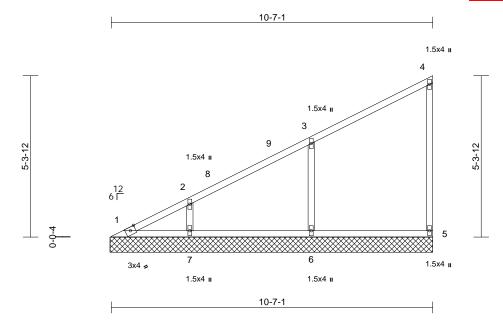
Ply Qty Job Truss Truss Type Roof - Osage Lot 71 P230132-01 V9 Valley Job Reference (optiona

S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 157221952 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION

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

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Thu Mar ID:X3j9csSdTd?hyQgxh8rn6OzwvzW-RfC?PsB70Hq3NSgPqnL8w3uITXbGł



Scale = 1:38

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.41	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.21	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.09	Horiz(TL)	0.00	5	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 25 lb	FT = 20%

LUMBER

TOP CHORD 2x3 SPF No.2 **BOT CHORD** 2x3 SPF No.2 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) 1=10-7-9, 5=10-7-9, 6=10-7-9,

7=10-7-9 Max Horiz 1=220 (LC 12)

Max Uplift 5=-49 (LC 12), 6=-135 (LC 12),

7=-105 (LC 12)

Max Grav 1=91 (LC 21), 5=143 (LC 1), 6=399

(LC 1), 7=304 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-299/129, 2-3=-212/91, 3-4=-83/44,

4-5=-110/101

BOT CHORD 1-7=-4/6, 6-7=-4/6, 5-6=-4/6 WEBS 3-6=-311/285, 2-7=-235/220

NOTES

- 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) 0-5-9 to 5-5-9, Interior (1) 5-5-9 to 10-6-5 zone; cantilever left and right exposed; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 49 lb uplift at joint 5, 135 lb uplift at joint 6 and 105 lb uplift at joint 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







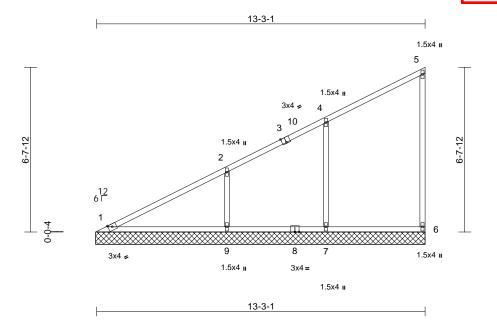
Ply Truss Type Qty Job Truss Roof - Osage Lot 71 Valley P230132-01 V10 Job Reference (optiona

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

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Thu Mar ID:X3j9csSdTd?hyQgxh8rn6OzwvzW-RfC?PsB70Hq3NSgPqnL8w3uITXbGł

S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 157221953 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION



Scale = 1:46.5

Plate Offsets	(X,	Y):	[3:0-2-0,Edge]
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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	0.59	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.32	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.14	Horiz(TL)	0.00	6	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 33 lb	FT = 20%

LUMBER

TOP CHORD 2x3 SPF No.2 BOT CHORD 2x3 SPF No.2 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) 1=13-3-9, 6=13-3-9, 7=13-3-9,

9=13-3-9 Max Horiz

1=278 (LC 12)

Max Uplift 6=-52 (LC 12), 7=-121 (LC 12),

9=-157 (LC 12)

1=179 (LC 1), 6=151 (LC 1), 7=357 Max Grav

(LC 1), 9=459 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-317/141, 2-4=-185/76, 4-5=-82/47,

5-6=-115/95

BOT CHORD 1-9=-3/5, 7-9=-3/5, 6-7=-3/5 WEBS 4-7=-282/228, 2-9=-346/264

NOTES

- 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) 0-5-9 to 5-3-9, Interior (1) 5-3-9 to 13-2-5 zone; cantilever left and right exposed; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 52 lb uplift at joint 6, 121 lb uplift at joint 7 and 157 lb uplift at joint 9.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



March 17,2023



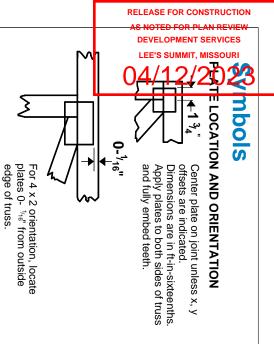
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

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

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





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

connector plates.

This symbol indicates the required direction of slots in

PLATE SIZE

4 × 4

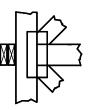
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

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



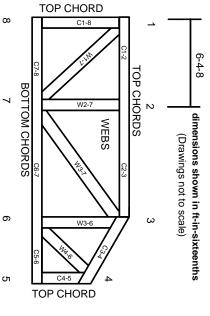
Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only

Industry Standards:

National Design Specification for Metal Plate Connected Wood Truss Construction. Design Standard for Bracing.
Building Component Safety Information, Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses.

ANSI/TPI1: DSB-89:

Numbering System



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

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

PRODUCT CODE APPROVALS

ICC-ES Reports:

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

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

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

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MiTek Engineering Reference Sheet: MII-7473 rev. 5/19/2020

General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

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

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

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

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

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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.
- Connections not shown are the responsibility of others.
- Do not cut or alter truss member or plate without prior approval of an engineer.
- 17. Install and load vertically unless indicated otherwise.
- Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use.
- Review all portions of this design (front, back, words and pictures) before use. Reviewing pictures alone is not sufficient.
- 20. Design assumes manufacture in accordance with ANSI/TPI 1 Quality Criteria.
- 21. The design does not take into account any dynamic or other loads other than those expressly stated.