07/07/2025



RE: P250398-01 - Roof - BY Lot 2290

MiTek, Inc.

Site Information:

16023 Swingley Ridge Rd. Chesterfield, MO 63017

Project Customer: Clayton Properties Project Name: Twin Tupelo - Farmhouse Lot/Block: 2290 Subdivision: Bailey Farms

314.434.1200

Model:

Address: 1222/1224 SE Windbreak Dr

City: Lee's Summit State: MO

General Truss Engineering Criteria & Design Loads (Individual Truss Design

**Drawings Show Special Loading Conditions):** 

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

No.

35 36 37 Seal#

174494442 174494443 174494444

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

Truss Name Date

Wind Speed: 115 mph

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

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

1	2 6/27/25 3 6/27/25 4 6/27/25 5 6/27/25 5 6/27/25 6 6/27/25 7 6/27/25 8 6/27/25 9 6/27/25 10 6/27/25 11 6/27/25 12 6/27/25 13 6/27/25 14 6/27/25 15 6/27/25 16 6/27/25 17 6/27/25 18 6/27/25 19 6/27/25 10 6/27/25 11 6/27/25 12 6/27/25 13 6/27/25 14 6/27/25 15 6/27/25 16 6/27/25 17 6/27/25 18 6/27/25 19 6/27/25 10 6/27/25 10 6/27/25 11 6/27/25 12 6/27/25 13 6/27/25 14 6/27/25 15 6/27/25 16 6/27/25 17 6/27/25 18 6/27/25 18 6/27/25 18 6/27/25 18 6/27/25 18 6/27/25 18 6/27/25 18 6/27/25
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The truss drawing(s) referenced above have been prepared by MiTek USA, Inc. under my direct supervision based on the parameters provided by Premier Building Supply (Springhill, KS)20300 W 207th Street.

Truss Design Engineer's Name: Galinski, John

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

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



Job Truss Truss Type Qty Ply Roof - BY Lot 2290 P250398-01 A1 2 Common Supported Gable Job Reference (optiona

DEVELOPMENT SERVICES 174494408 LEE'S SUMMIT. MISSOURI

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

Run: 8.63 S Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Thu Jun 76 ID:vYYx6\_E10M8fo9?i15imeazlt8q-RfC?PsB70Hq3NSgPqnL8w3uITXbGKW

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW

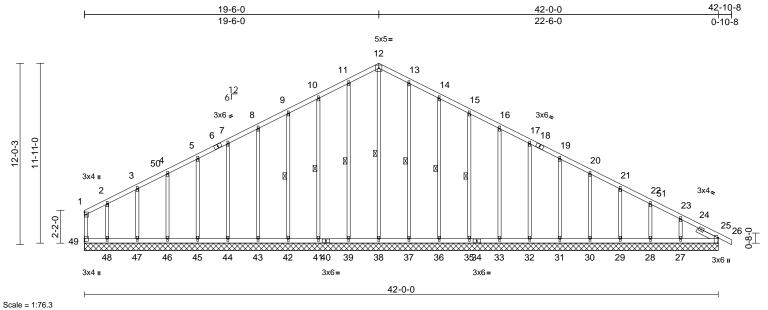


Plate Offsets (X, Y): [25:0-4-1,Edge]

		1			•							•
Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defI	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.14	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDI	10.0	Lumber DOI	1 15	DC.	0.06	\/ort(CT)	2/0		2/0	000		

**BCLL** 0.0 Rep Stress Incr YES WB Horz(CT) 25 0.45 0.02 n/a BCDL 10.0 Code IRC2018/TPI2014 Matrix-S Weight: 241 lb FT = 20%

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

**BRACING BOT CHORD** 

LUMBER

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins, except end verticals. Rigid ceiling directly applied or 10-0-0 oc

bracing.

WFBS 1 Row at midpt 12-38, 11-39, 10-41,

9-42, 13-37, 14-36, 15-35 25=42-0-0, 27=42-0-0, 28=42-0-0,

REACTIONS (size) 29=42-0-0, 30=42-0-0, 31=42-0-0, 32=42-0-0, 33=42-0-0, 35=42-0-0, 36=42-0-0, 37=42-0-0, 38=42-0-0, 39=42-0-0, 41=42-0-0, 42=42-0-0,

43=42-0-0, 44=42-0-0, 45=42-0-0, 46=42-0-0, 47=42-0-0, 48=42-0-0, 49=42-0-0

Max Horiz 49=-228 (LC 17) Max Uplift 25=-84 (LC 9), 27=-120 (LC 13),

28=-48 (LC 13), 29=-64 (LC 13), 30=-60 (LC 13), 31=-61 (LC 13), 32=-61 (LC 13), 33=-61 (LC 13), 35=-60 (LC 13), 36=-68 (LC 13), 37=-47 (LC 13), 39=-38 (LC 12), 41=-72 (LC 12), 42=-60 (LC 12), 43=-61 (LC 12), 44=-61 (LC 12), 45=-61 (LC 12), 46=-63 (LC 12), 47=-55 (LC 12), 48=-106 (LC 12), 49=-23 (LC 13)

25=199 (LC 19), 27=216 (LC 26), 28=171 (LC 1), 29=182 (LC 26), 30=179 (LC 1), 31=180 (LC 26), 32=180 (LC 1), 33=180 (LC 26), 35=180 (LC 1), 36=180 (LC 26), 37=188 (LC 26), 38=314 (LC 12). 39=188 (LC 25), 41=180 (LC 25), 42=180 (LC 1), 43=180 (LC 25), 44=180 (LC 25), 45=180 (LC 1), 46=179 (LC 25), 47=184 (LC 1), 48=163 (LC 25), 49=73 (LC 21)

(lb) - Maximum Compression/Maximum

1-49=-50/34, 1-2=-58/53, 2-3=-65/107, 3-4=-84/161, 4-5=-103/215, 5-7=-121/269, 7-8=-140/323, 8-9=-159/377, 9-10=-177/430, 10-11=-198/489, 11-12=-213/530, 12-13=-213/530, 13-14=-198/489,

14-15=-177/430, 15-16=-159/377, 16-17=-140/323, 17-19=-121/281, 19-20=-125/253, 20-21=-141/225, 21-22=-157/198, 22-23=-184/169, 23-25=-250/162. 25-26=0/6

48-49=-125/245, 47-48=-125/245, 46-47=-125/245, 45-46=-125/245, 44-45=-125/245, 43-44=-125/245, 42-43=-125/245, 41-42=-125/245, 39-41=-125/245, 38-39=-125/245, 37-38=-125/245, 36-37=-125/245, 35-36=-125/245, 33-35=-125/245,

32-33=-125/245, 31-32=-125/245, 30-31=-125/245, 29-30=-125/245, 28-29=-125/245, 27-28=-125/245, 25-27=-125/245

**WEBS** 12-38=-365/99, 11-39=-148/66, 10-41=-140/110, 9-42=-140/95,

8-43=-140/97, 7-44=-140/97, 5-45=-140/96, 4-46=-139/113, 3-47=-143/151, 2-48=-128/158, 13-37=-148/71, 14-36=-140/110, 15-35=-140/95,

16-33=-140/97, 17-32=-140/96, 19-31=-140/97, 20-30=-140/97, 21-29=-141/98, 22-28=-135/105, 23-27=-163/189

### NOTES

- Unbalanced roof live loads have been considered for this design
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Corner(3E) 3-1-4 to 8-1-4. Exterior(2N) 8-1-4 to 22-6-0, Corner(3R) 22-6-0 to 27-6-0, Exterior(2N) 27-6-0 to 45-10-8 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



June 27,2025

### Continued on page 2

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

**FORCES** 

TOP CHORD

BOT CHORD



Qty Job Truss Truss Type Ply Roof - BY Lot 2290 P250398-01 A1 Common Supported Gable 2 Job Reference (optiona

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

Run: 8.63 S Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Thu Jun 16 8.76: 40 7/2 9:2 ID:vYYx6\_E10M8fo9?i15imeazlt8q-RfC?PsB70Hq3NSgPqnL8w3uITXbGKW

DEVELOPMENT SERVICES 174494408 LEE'S SUMMIT. MISSOURI

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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.
- All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 23 lb uplift at joint 49, 38 lb uplift at joint 39, 72 lb uplift at joint 41, 60 lb uplift at joint 42, 61 lb uplift at joint 43, 61 lb uplift at joint 44, 61 lb uplift at joint 45, 63 lb uplift at joint 46, 55 lb uplift at joint 47, 106 lb uplift at joint 48, 47 lb uplift at joint 37, 68 lb uplift at joint 36, 60 lb uplift at joint 35, 61 Ib uplift at joint 33, 61 lb uplift at joint 32, 61 lb uplift at joint 31, 60 lb uplift at joint 30, 64 lb uplift at joint 29, 48 lb uplift at joint 28, 120 lb uplift at joint 27 and 84 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.





Truss Type Job Truss Qty Ply Roof - BY Lot 2290 P250398-01 A2 8 Common

Job Reference (optiona

S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 174494409 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION

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

Run: 8.63 S Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Thu Jun 76 ID:Nk6JJJFfngGWQJauboD?Anzlt8p-RfC?PsB70Hq3NSgPqnL8w3uITXbGk VrCDoi7

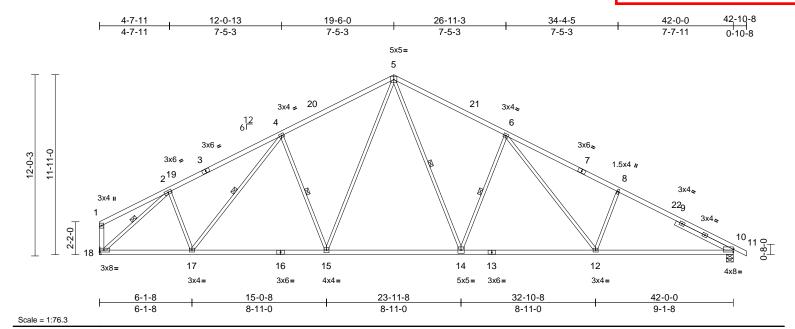


Plate Offsets (X, Y): [10:Edge,0-2-1]

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	0.94	Vert(LL)	-0.17	12-14	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.86	Vert(CT)	-0.35	14-15	>999	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.90	Horz(CT)	0.13	10	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 203 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP 2400F 2.0E \*Except\* 1-3,7-11:2x4 SP

No.2

**BOT CHORD** 2x4 SP No.2 \*Except\* 13-10:2x4 SP 2400F

2.0E

**WEBS** 2x3 SPF No.2 \*Except\* 18-1:2x4 SP No.2 **SLIDER** 

Right 2x4 SP No.2 -- 4-2-14

**BRACING** 

WFBS

FORCES

TOP CHORD

Structural wood sheathing directly applied, TOP CHORD

except end verticals.

**BOT CHORD** Rigid ceiling directly applied or 9-6-6 oc bracing

1 Row at midpt

2-18

5-14, 6-14, 4-15, 4-17,

REACTIONS (size) 10=0-5-8, 18= Mechanical

Max Horiz 18=-229 (LC 13)

Max Uplift 10=-319 (LC 13), 18=-269 (LC 12)

Max Grav 10=1945 (LC 1), 18=1883 (LC 1) (lb) - Maximum Compression/Maximum

Tension

1-2=-119/101, 2-4=-2301/443,

4-5=-2279/520, 5-6=-2428/545

6-8=-3159/596. 8-10=-3346/525. 10-11=0/6.

1-18=-148/77

**BOT CHORD** 17-18=-371/1852, 15-17=-295/2076,

14-15=-97/1696, 12-14=-206/2342,

10-12=-348/2855

**WEBS** 5-14=-283/1020, 6-14=-832/394 6-12=-187/676, 8-12=-373/278,

5-15=-221/710, 4-15=-510/338,

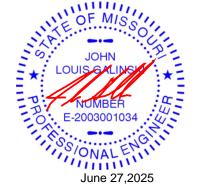
4-17=-188/66, 2-17=0/357, 2-18=-2463/375

### 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) 3-1-12 to 8-1-12, Interior (1) 8-1-12 to 22-6-0, Exterior(2R) 22-6-0 to 27-6-0, Interior (1) 27-6-0 to 45-10-8 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
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Bearings are assumed to be: , Joint 10 SP 2400F 2.0E crushing capacity of 805 psi.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 319 lb uplift at joint 10 and 269 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





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



Truss Type Job Truss Qty Ply Roof - BY Lot 2290 P250398-01 **A3** Roof Special Job Reference (optiona S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 174494410 LEE'S SUMMIT. MISSOURI

12<sub>13</sub> ç

6x6 ı

RELEASE FOR CONSTRUCTION

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

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16

27-9-13

6-11-13

5x8=

30-0-0

2-2-3

15

4x6=

34-9-11

4-9-11

14

1.5x4 II

42-0-0

7-2-5

42-10-8 4-0-3 11-2-6 17-6-4 19-6-0 27-9-13 34-9-11 42-0-0 4-0-3 7-2-4 6-3-14 6-10-9 7-2-5 0-10-8 1-11-12 6-11-13 1-5-4 6x6= 6 26 27 1<u>2</u> 6Г 8 3x6 💋 3x6**≤** 3 25 10 6x6 s

Scale = 1:76.3

12-0-3

Plate Offsets (X, Y): [12:0-3-9,0-0-5], [18:0-2-8,0-2-8], [19:0-3-0,0-2-8], [20:Edge,0-2-8], [23:0-2-8,0-2-0]

22

11-2-6

7-2-4

3x6=

21

5x10=

17-7-8

6-5-2

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.80	Vert(LL)	-0.23	7	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.83	Vert(CT)	-0.44	16-17	>999	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.94	Horz(CT)	0.21	12	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 233 lb	FT = 20%

5x8= 20 17

20-10-0

3-2-8

5x8=

### LUMBER

TOP CHORD 2x4 SP No.2

2-2-0

2x4 SP No.2 \*Except\* 20-5,7-17:2x3 SPF BOT CHORD

4-0-3

4-0-3

No.2

WFBS 2x3 SPF No.2 \*Except\* 24-1:2x4 SP No.2 **SLIDER** 

Right 2x4 SP No.2 -- 3-11-13

**BRACING** 

TOP CHORD Structural wood sheathing directly applied or

2-2-0 oc purlins, except end verticals.

23

4x6=

**BOT CHORD** Rigid ceiling directly applied or 9-8-14 oc

bracing. Except: 5-19, 7-18

1 Row at midpt WEBS

1 Row at midpt 4-19, 8-18 REACTIONS 12=0-5-8, 24= Mechanical (size)

Max Horiz 24=-229 (LC 13)

Max Uplift 12=-319 (LC 13), 24=-269 (LC 12)

Max Grav 12=1945 (LC 1), 24=1883 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension TOP CHORD

1-2=-2028/314, 2-4=-2462/436,

4-5=-2606/494, 5-6=-2536/592,

6-7=-2541/600, 7-8=-2612/505 8-10=-2809/491, 10-12=-3378/519,

12-13=0/6, 1-24=-1851/301

**BOT CHORD** 23-24=-133/246, 21-23=-362/1781,

20-21=0/28, 19-20=0/104, 5-19=-300/214,

18-19=-107/2039, 17-18=0/120, 7-18=-339/257, 16-17=0/40,

14-16=-348/2883, 12-14=-348/2883

**WEBS** 2-23=-764/207, 2-21=-30/370,

4-21=-684/149, 19-21=-310/2180, 4-19=-48/281, 16-18=-219/2487,

8-18=-380/280. 8-16=-286/112.

10-16=-557/229. 10-14=0/284.

1-23=-292/1963, 6-18=-402/1280,

6-19=-345/952

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) 3-1-12 to 8-1-12, Interior (1) 8-1-12 to 22-6-0, Exterior(2R) 22-6-0 to 27-6-0, Interior (1) 27-6-0 to 45-10-8 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
- All plates are 3x4 MT20 unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Bearings are assumed to be: , Joint 12 SP No.2 crushing capacity of 565 psi.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 269 lb uplift at joint 24 and 319 lb uplift at joint 12.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.







Job Truss Truss Type Qty Ply Roof - BY Lot 2290 P250398-01 **A4** Roof Special Job Reference (optiona RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 174494411 LEE'S SUMMIT. MISSOURI

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

Run: 8.63 S Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Thu Jun 46 8:78:48 ID:nJoSxLHX4ae5HmITGwnioPzlt8m-RfC?PsB70Hq3NSgPqnL8w3uITXbGi

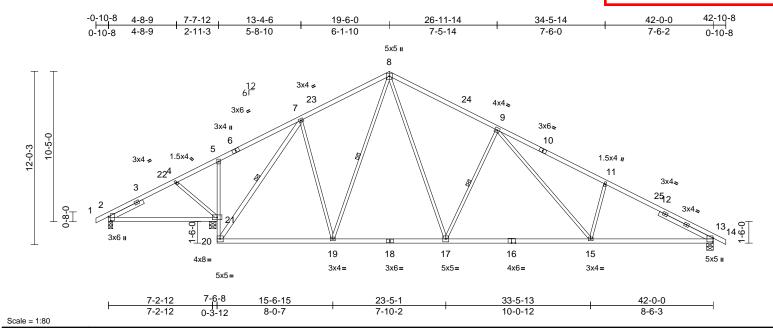


Plate Offsets (X, Y): [2:0-3-5,0-1-13], [13:0-3-1,0-0-4]

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	0.89	Vert(LL)	-0.23	15-17	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.96	Vert(CT)	-0.50	15-17	>817	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.99	Horz(CT)	0.06	13	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 213 lb	FT = 20%

### LUMBER

TOP CHORD 2x4 SP No.2

**BOT CHORD** 2x4 SP No.2 \*Except\* 5-20:2x3 SPF No.2 2x3 SPF No.2 \*Except\* 7-20:2x4 SP No.2 Left 2x4 SP No.2 -- 2-7-14, Right 2x4 SP WEBS SLIDER No 2 -- 4-2-0

**BRACING** 

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

WFBS

1 Row at midpt 7-20. 8-19. 9-17 REACTIONS (size) 2=0-3-8, 13=0-5-8, 21=0-5-8

Max Horiz 2=-258 (LC 13)

Max Uplift 2=-159 (LC 13), 13=-328 (LC 13),

21=-301 (LC 12)

Max Grav 2=377 (LC 25), 13=1599 (LC 1),

21=1936 (LC 1)

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

Tension

TOP CHORD 1-2=0/6, 2-4=-266/343, 4-5=-102/351,

5-7=-134/433, 7-8=-1167/456,

8-9=-1631/508, 9-11=-2519/639,

11-13=-2659/539, 13-14=0/6

2-21=-102/181, 20-21=-61/1380, 5-21=-309/181, 19-20=-60/854,

17-19=0/1026, 15-17=-163/1681.

13-15=-363/2254

WFBS 4-21=-259/155, 7-20=-1578/123,

8-19=-312/20, 7-19=0/477, 8-17=-264/993,

9-17=-835/394, 9-15=-204/760,

11-15=-397/284

### NOTES

BOT CHORD

Unbalanced roof live loads have been considered for this design.

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-10-8 to 4-1-8, Interior (1) 4-1-8 to 19-6-0, Exterior (2R) 19-6-0 to 24-6-0, Interior (1) 24-6-0 to 42-10-8 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
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 159 lb uplift at joint 2, 301 lb uplift at joint 21 and 328 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





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

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



Ply Truss Type Job Truss Qty Roof - BY Lot 2290 P250398-01 A5 Common

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

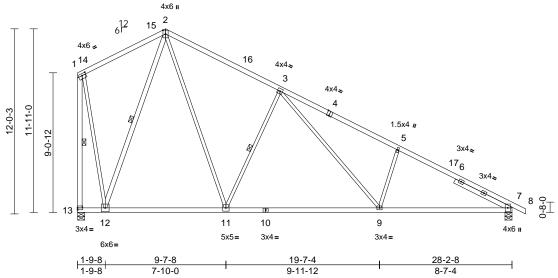
Job Reference (optiona Run: 8.63 S Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. ID:GVMq9hl9rumyuwtfqelxLdzlt8l-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKW

S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 174494412 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION

hu Jun <mark>7</mark>6





Scale = 1:74.8

Plate Offsets (X, Y): [1:0-3-0,0-1-8], [4:0-2-0,Edge], [7:0-3-9,0-1-5]

	( 0		2.2.2	001		DEE:		(1 )	1/1.0		DI 4750	
Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.88	Vert(LL)	-0.19	9-11	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.89	Vert(CT)	-0.42	9-11	>810	180		
BCLL	0.0	Rep Stress Incr	YES	WB	1.00	Horz(CT)	0.05	7	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 162 lb	FT = 20%

### LUMBER

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

2x3 SPF No.2 \*Except\* 12-2,13-1:2x4 SP WEBS

No 2 **SLIDER** Right 2x4 SP No.2 -- 4-1-7

**BRACING** 

TOP CHORD Structural wood sheathing directly applied or

2-2-0 oc purlins, except end verticals.

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

WEBS 1 Row at midpt 3-11, 2-12, 1-13

**REACTIONS** (size) 7=0-5-8, 13=0-5-8

Max Horiz 13=-433 (LC 8)

Max Uplift 7=-238 (LC 13), 13=-231 (LC 13) Max Grav 7=1325 (LC 1), 13=1262 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-372/308, 2-3=-1042/377,

3-5=-1951/448, 5-7=-2101/361, 7-8=0/6, 1-13=-1254/285

**BOT CHORD** 12-13=-267/438, 11-12=0/548,

9-11=-65/1155, 7-9=-210/1766 **WEBS** 

2-11=-266/1015, 3-11=-844/399 3-9=-210/775, 5-9=-418/292, 2-12=-940/358,

1-12=-186/997

### 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) 16-11-4 to 21-11-4, Interior (1) 21-11-4 to 22-6-0, Exterior(2R) 22-6-0 to 27-6-0, Interior (1) 27-6-0 to 45-10-8 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
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 231 lb uplift at joint 13 and 238 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





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

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



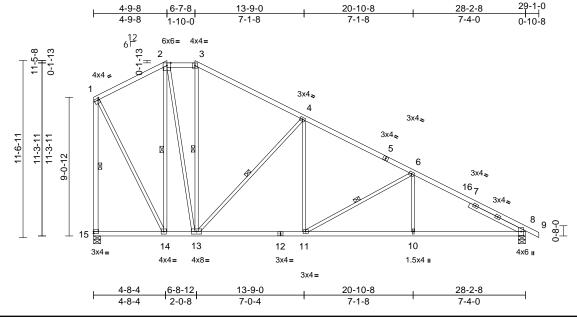
Truss Type Job Truss Qty Ply Roof - BY Lot 2290 P250398-01 A6 Hip 2 Job Reference (optiona

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 174494413 LEE'S SUMMIT. MISSOURI

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

Run: 8.63 S Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Thu Jun 76 ID:zQycF6QRUz1X5SeaPkTHkkzlt8b-RfC?PsB70Hq3NSgPqnL8w3uITXbGI

WrCDoi754zJC?



Scale = 1:75.3

Plate Offsets (X, Y): [1:0-1-0,0-1-8], [8:0-3-9,0-1-5]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.87	Vert(LL)	-0.08	11	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.62	Vert(CT)	-0.19	11-13	>999	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.92	Horz(CT)	0.06	8	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 167 lb	FT = 20%

### LUMBER

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

2x3 SPF No.2 \*Except\* 15-1:2x4 SP No.2 WEBS

SLIDER Right 2x4 SP No.2 -- 4-0-12

**BRACING** 

TOP CHORD Structural wood sheathing directly applied or 3-10-9 oc purlins, except end verticals, and

2-0-0 oc purlins (6-0-0 max.): 2-3.

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

bracing.

WFBS 1 Row at midpt 2-14, 3-13, 4-13, 6-11, 1-15

REACTIONS (size) 8=0-5-8, 15=0-5-8

Max Horiz 15=-424 (LC 8)

Max Uplift 8=-238 (LC 13), 15=-213 (LC 13) Max Grav 8=1325 (LC 1), 15=1262 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

1-2=-561/290, 2-3=-590/298, 3-4=-780/292,

4-6=-1471/308, 6-8=-2108/352, 8-9=0/6, 1-15=-1223/302

**BOT CHORD** 14-15=-272/425, 13-14=0/514

11-13=-37/1223, 10-11=-201/1770,

8-10=-201/1770

2-14=-776/297, 2-13=-214/818,

3-13=-44/124, 4-13=-936/330, 4-11=-32/500,

6-11=-631/241, 6-10=0/301, 1-14=-263/963

### NOTES

**WEBS** 

TOP CHORD

1) Unbalanced roof live loads have been considered for

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 16-11-4 to 23-5-0, Exterior(2R) 23-5-0 to 30-6-8, Interior (1) 30-6-8 to 45-10-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- All plates are 3x4 MT20 unless otherwise indicated.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 213 lb uplift at joint 15 and 238 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.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.





Truss Type Job Truss Qty Ply Roof - BY Lot 2290 P250398-01 Α7 Hip 2

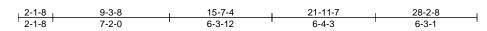
Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083,

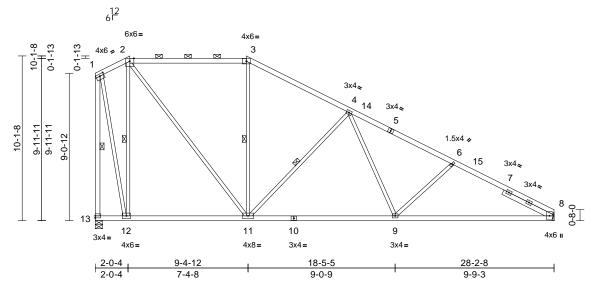
Job Reference (optiona Run: 8.63 S Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Thu Jun 76

S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 174494414 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION

ID:VEPE2mPpjfvgTJ3Or1y2CWzlt8c-RfC?PsB70Hq3NSgPqnL8w3uITXbGK VrCDoi7





Scale = 1:70.8

Plate Offsets (X, Y): [1:0-3-0,0-1-8], [8:0-3-9,0-1-5]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.Ó	Plate Grip DOL	1.15	TC	0.85	Vert(LL)	-0.22	`8-9	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.97	Vert(CT)	-0.46	8-9	>729	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.99	Horz(CT)	0.05	8	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 155 lb	FT = 20%

### LUMBER

TOP CHORD 2x4 SP No.2 \*Except\* 2-3:2x4 SP 2400F

2.0E

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

2x3 SPF No.2 \*Except\* 13-1:2x4 SP No.2 WFBS

SLIDER Right 2x4 SP No.2 -- 3-5-9

**BRACING** 

TOP CHORD Structural wood sheathing directly applied or

3-8-5 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 2-3

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

bracing, Except:

2-2-0 oc bracing: 8-9.

WFBS 1 Row at midpt 2-12, 3-11, 1-13, 4-11

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

Max Horiz 13=-406 (LC 10)

Max Uplift 8=-211 (LC 13), 13=-175 (LC 8)

Max Grav 8=1263 (LC 1), 13=1263 (LC 1) (lb) - Maximum Compression/Maximum

FORCES

Tension

1-2=-367/271, 2-3=-834/308, 3-4=-1033/303, 4-6=-1813/337, 6-8=-2113/385,

1-13=-1260/270

12-13=-275/433, 11-12=-93/364,

9-11=-88/1353, 8-9=-246/1785 **WEBS** 2-12=-1043/441, 2-11=-270/973,

3-11=-59/158, 1-12=-302/1164,

4-11=-762/308, 4-9=-52/501, 6-9=-339/246

### NOTES

TOP CHORD

**BOT CHORD** 

Unbalanced roof live loads have been considered for

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 16-11-4 to 26-1-0, Exterior(2R) 26-1-0 to 33-1-14, Interior (1) 33-1-14 to 45-0-0 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
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Bearings are assumed to be: Joint 13 SP No.2 crushing capacity of 565 psi.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 175 lb uplift at joint 13 and 211 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.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard



June 27,2025



Ply Job Truss Truss Type Qty Roof - BY Lot 2290 P250398-01 **A8** Half Hip 2 Job Reference (optiona

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 174494415 LEE'S SUMMIT. MISSOURI

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

Run: 8.63 S Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Thu Jun 76 ID:VEPE2mPpjfvgTJ3Or1y2CWzlt8c-RfC?PsB70Hq3NSgPqnL8w3uITXbGk

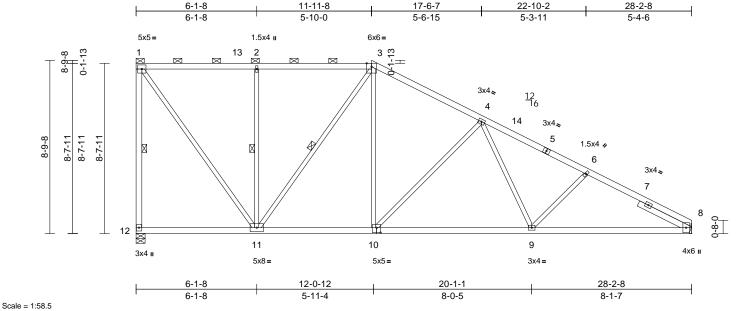


Plate Offsets (X, Y): [8:0-3-9,0-1-5], [10:0-2-8,0-3-0]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.78	Vert(LL)	-0.11	8-9	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.75	Vert(CT)	-0.23	8-9	>999	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.99	Horz(CT)	0.05	8	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 147 lb	FT = 20%

### LUMBER

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

2x3 SPF No.2 \*Except\* 12-1:2x4 SP No.2 WEBS

SLIDER Right 2x4 SP No.2 -- 2-11-9

BRACING

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

2-0-0 oc purlins (5-10-15 max.): 1-3. Rigid ceiling directly applied or 10-0-0 oc

BOT CHORD bracing. 1-12, 3-11, 2-11

WFBS 1 Row at midpt

REACTIONS (size) 8= Mechanical, 12=0-5-8

Max Horiz 12=-371 (LC 8)

Max Uplift 8=-201 (LC 13), 12=-251 (LC 8) Max Grav 8=1263 (LC 1), 12=1263 (LC 1)

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

TOP CHORD 1-12=-1208/294, 1-2=-749/284

2-3=-752/286, 3-4=-1268/316, 4-6=-1917/349, 6-8=-2148/368

**BOT CHORD** 11-12=-258/418, 9-11=-126/1498,

8-9=-243/1810

3-10=-107/601, 3-11=-521/174,

2-11=-492/231, 1-11=-287/1270,

4-10=-641/265, 4-9=-42/409, 6-9=-231/199

### NOTES

**WEBS** 

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 5-1-12, Interior (1) 5-1-12 to 11-11-8, Exterior(2R) 11-11-8 to 19-0-6, Interior (1) 19-0-6 to 28-2-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Bearings are assumed to be: Joint 12 SP No.2 crushing capacity of 565 psi.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 251 lb uplift at joint 12 and 201 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.
- 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





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

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



Ply Qty Job Truss Truss Type Roof - BY Lot 2290 P250398-01 Α9 Half Hip 2 Job Reference (optiona

S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 174494416 LEE'S SUMMIT. MISSOURI

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

Run: 8.63 S Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Thu Jun 26 8:78: ID:zQycF6QRUz1X5SeaPkTHkkzlt8b-RfC?PsB70Hq3NSgPqnL8w3uITXbGk

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RELEASE FOR CONSTRUCTION

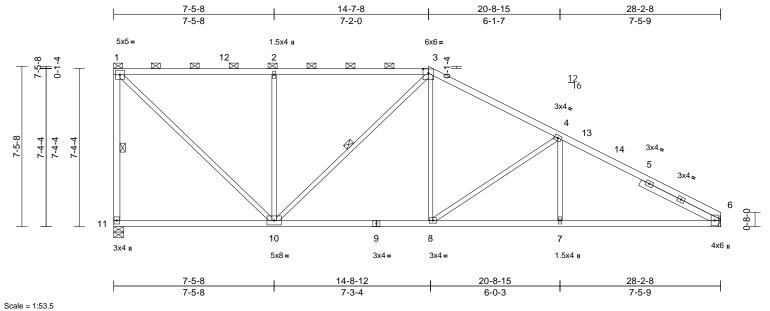


Plate Offsets (X, Y): [3:0-3-0,0-2-7], [6:0-3-9,0-1-5]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.90	Vert(LL)	-0.09	6-7	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.65	Vert(CT)	-0.21	6-7	>999	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.77	Horz(CT)	0.05	6	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 139 lb	FT = 20%

LUMBER

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

2x3 SPF No.2 \*Except\* 11-1:2x4 SP No.2 WEBS

SLIDER Right 2x4 SP No.2 -- 4-1-10

BRACING

Structural wood sheathing directly applied or TOP CHORD 3-7-5 oc purlins, except end verticals, and

2-0-0 oc purlins (4-1-1 max.): 1-3.

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

bracing.

WFBS 1 Row at midpt 1-11, 3-10 REACTIONS (size) 6= Mechanical, 11=0-5-8

Max Horiz 11=-314 (LC 8)

Max Uplift 6=-185 (LC 13), 11=-259 (LC 8)

Max Grav 6=1263 (LC 1), 11=1263 (LC 1)

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

Tension

TOP CHORD 1-11=-1198/290, 1-2=-1036/301,

2-3=-1038/302, 3-4=-1527/329, 4-6=-2103/341

**BOT CHORD** 10-11=-215/358, 8-10=-63/1272,

7-8=-198/1766, 6-7=-198/1766 **WEBS** 

3-8=-63/462, 3-10=-332/139, 2-10=-598/275, 1-10=-287/1415, 4-8=-590/249, 4-7=0/286

### NOTES

- Unbalanced roof live loads have been considered for 1) this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-1-12 to 5-1-12, Interior (1) 5-1-12 to 14-7-8, Exterior(2R) 14-7-8 to 21-8-6, Interior (1) 21-8-6 to 28-2-8 zone; cantilever left and right exposed; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Bearings are assumed to be: Joint 11 SP No.2 crushing capacity of 565 psi.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 259 lb uplift at joint 11 and 185 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.
- 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



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

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



Job	Truss	Truss Type	Qty	Ply	Roof - BY Lot 2290
P250398-01	A10	Half Hip	2	1	Job Reference (optional

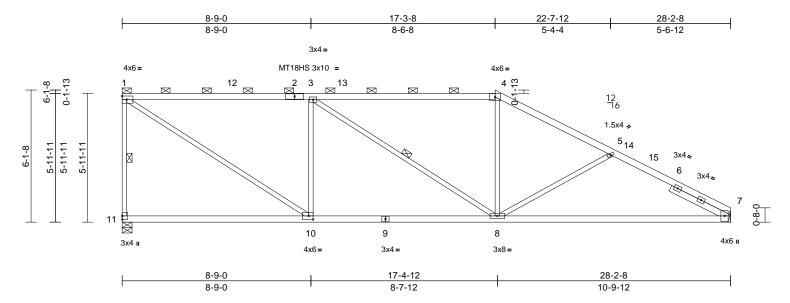
Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083,

Run: 8.63 S Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Thu Jun 26 8:78:48 ID:YrHUd4NYC2fyE?v0kcwa75zlt8e-RfC?PsB70Hq3NSgPqnL8w3uITXbGKV

S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 174494417 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION





Scale = 1:53.4

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	0.74	Vert(LL)	-0.25	7-8	>999		MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.72	Vert(CT)	-0.52	7-8	>643	180	MT18HS	244/190
BCLL	0.0	Rep Stress Incr	YES	WB	0.96	Horz(CT)	0.04	7	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 125 lb	FT = 20%

LUMBER

2x4 SP 2400F 2.0E \*Except\* 4-7:2x4 SP TOP CHORD

No.2

**BOT CHORD** 2x4 SP No.2 \*Except\* 9-7:2x4 SP 2400F

2.0E

2x3 SPF No.2 **WEBS SLIDER** Right 2x4 SP No.2 -- 3-0-13

**BRACING** 

WFBS

FORCES

TOP CHORD

Structural wood sheathing directly applied or TOP CHORD

3-8-13 oc purlins. except end verticals, and

2-0-0 oc purlins (5-8-3 max.): 1-4. BOT CHORD Rigid ceiling directly applied or 10-0-0 oc

bracing.

1 Row at midpt 1-11, 3-8

REACTIONS (size) 7= Mechanical, 11=0-5-8

Max Horiz 11=-252 (LC 8)

Max Uplift 7=-164 (LC 13), 11=-265 (LC 8)

Max Grav 7=1265 (LC 1), 11=1265 (LC 1)

(lb) - Maximum Compression/Maximum

Tension

1-11=-1187/305, 1-3=-1454/335,

3-4=-1529/326, 4-5=-1784/327,

5-7=-2118/399

**BOT CHORD** 10-11=-173/297, 8-10=-209/1454,

7-8=-267/1788

1-10=-365/1716, 3-10=-767/314,

3-8=-112/174, 4-8=0/391, 5-8=-295/253

### NOTES

**WEBS** 

Unbalanced roof live loads have been considered for this design.

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-1-4 to 5-1-4, Interior (1) 5-1-4 to 17-3-8, Exterior(2R) 17-3-8 to 24-4-6, Interior (1) 24-4-6 to 28-2-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- All plates are MT20 plates unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Bearings are assumed to be: Joint 11 SP No.2 crushing capacity of 565 psi.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 265 lb uplift at joint 11 and 164 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.
- 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





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

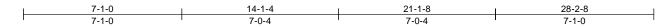


Job Truss Truss Type Qty Ply Roof - BY Lot 2290 P250398-01 A11 Flat Girder 2 Job Reference (optiona RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 174494418 LEE'S SUMMIT. MISSOURI

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

Run: 8.63 S Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Thu Jun 16 ID:VEPE2mPpjfvgTJ3Or1y2CWzlt8c-RfC?PsB70Hq3NSgPqnL8w3uITXbGk

VrCDoi7



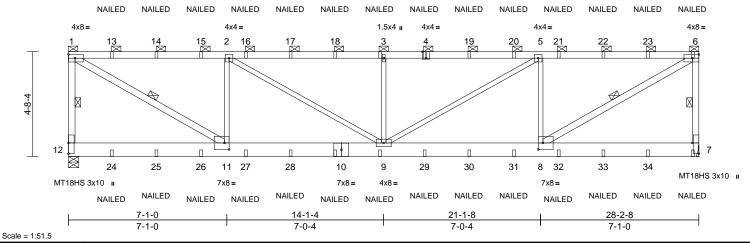


Plate Offsets (X, Y): [4:0-2-0,Edge], [7:Edge,0-3-8], [8:0-2-8,0-3-8], [11:0-2-8,0-3-8]

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	0.77	Vert(LL)	0.21	` ģ	>999	240	MT18HS	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.62	Vert(CT)	-0.33	9	>999	180	MT20	244/190
BCLL	0.0	Rep Stress Incr	NO	WB	0.87	Horz(CT)	0.03	7	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 165 lb	FT = 20%

### LUMBER

TOP CHORD 2x4 SP 2400F 2.0E **BOT CHORD** 2x8 SPF No.2

2x3 SPF No.2 \*Except\* 12-1,6-7,6-8,11-1:2x4 WEBS

SP No 2 BRACING

TOP CHORD 2-0-0 oc purlins (3-6-0 max.): 1-6, except

end verticals.

**BOT CHORD** Rigid ceiling directly applied or 7-0-3 oc

bracing WEBS

1-12, 6-7, 6-8, 1-11 1 Row at midpt

REACTIONS (size) 7= Mechanical, 12=0-5-8

Max Horiz 12=-173 (LC 8)

Max Uplift 7=-878 (LC 9), 12=-802 (LC 8)

Max Grav 7=2496 (LC 1), 12=2316 (LC 1)

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

Tension

TOP CHORD 1-12=-2182/1013, 1-2=-3088/1317,

2-3=-4015/1653 3-5=-4015/1653

5-6=-3092/1317, 6-7=-2308/1104 BOT CHORD 11-12=-244/265, 9-11=-1438/3088,

8-9=-1359/3092, 7-8=-97/115

**WEBS** 6-8=-1479/3559, 2-11=-1506/963

1-11=-1479/3553, 2-9=-484/1083, 3-9=-833/622, 5-9=-486/1078, 5-8=-1506/965

### 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 Corner (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 grip
- Provide adequate drainage to prevent water ponding.
- All plates are MT20 plates unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- Bearings are assumed to be: Joint 12 SPF No.2 crushing capacity of 425 psi.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 802 lb uplift at joint 12 and 878 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.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 10) "NAILED" indicates Girder: 3-10d (0.148" x 3") toe-nails per NDS guidelines
- 11) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

### LOAD CASE(S) Standard

Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1 15

Uniform Loads (lb/ft)

Vert: 1-6=-70. 7-12=-20

Concentrated Loads (lb)

Vert: 4=-109 (B), 6=-140 (B), 7=-61 (B), 10=-52 (B), 9=-52 (B), 3=-109 (B), 13=-109 (B), 14=-109 (B), 15=-109 (B), 16=-109 (B), 17=-109 (B), 18=-109 (B), 19=-109 (B), 20=-109 (B), 21=-109 (B), 22=-109 (B), 23=-109 (B), 24=-52 (B), 25=-52 (B), 26=-52 (B), 27=-52 (B), 28=-52 (B), 29=-52 (B), 30=-52 (B), 31=-52 (B), 32=-52 (B), 33=-52 (B), 34=-52 (B)



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

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



Job Truss Truss Type Qty Ply Roof - BY Lot 2290 P250398-01 В1 2 Common Supported Gable Job Reference (optiona

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 174494419 LEE'S SUMMIT. MISSOURI

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

Run: 8.63 S Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Thu Jun 76 ID:GVMq9hl9rumyuwtfqelxLdzlt8l-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWr0

LOAD CASE(S) Standard

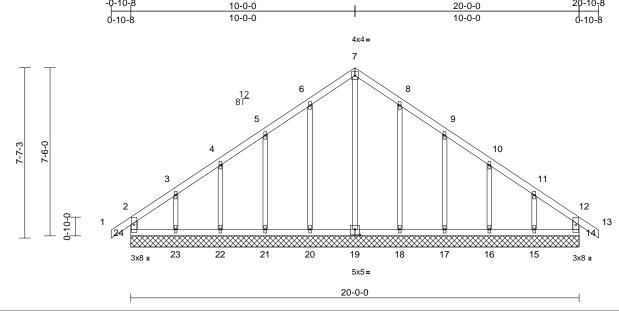


Plate Offsets (X, Y): [19:0-2-8,0-3-0]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.08	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	0.27	Horz(CT)	0.00	14	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R							Weight: 99 lb	FT = 20%

LUMBER

Scale = 1:51.4

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

**BRACING** 

TOP CHORD

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) 14=20-0-0, 15=20-0-0, 16=20-0-0, 17=20-0-0, 18=20-0-0, 19=20-0-0, 20=20-0-0, 21=20-0-0, 22=20-0-0,

23=20-0-0, 24=20-0-0

Max Horiz 24=-227 (LC 10)

Max Uplift 14=-45 (LC 9), 15=-125 (LC 13), 16=-66 (LC 13), 17=-85 (LC 13),

18=-72 (LC 13), 20=-73 (LC 12), 21=-85 (LC 12), 22=-64 (LC 12), 23=-134 (LC 12), 24=-80 (LC 8)

Max Grav 14=174 (LC 19), 15=207 (LC 20), 16=185 (LC 20), 17=189 (LC 20),

18=197 (LC 20), 19=210 (LC 22), 20=198 (LC 19), 21=189 (LC 19), 22=184 (LC 1), 23=220 (LC 19),

24=203 (LC 20)

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

Tension

2-24=-168/71, 1-2=0/40, 2-3=-153/141, 3-4=-115/109. 4-5=-102/136. 5-6=-113/204.

6-7=-150/272, 7-8=-150/272, 8-9=-113/204, 9-10=-73/127, 10-11=-81/75, 11-12=-109/94, 12-13=0/40, 12-14=-148/69

BOT CHORD 23-24=-96/117, 22-23=-96/117

21-22=-96/117, 20-21=-96/117, 18-20=-96/117, 17-18=-96/117, 16-17=-96/117, 15-16=-96/117,

14-15=-96/117

**WEBS** 

7-19=-219/66, 6-20=-159/98, 5-21=-148/115,

4-22=-147/117, 3-23=-160/138, 8-18=-157/98, 9-17=-148/115,

10-16=-148/117, 11-15=-153/139 NOTES

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

Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Corner(3E) -0-10-8 to 4-0-0, Exterior(2N) 4-0-0 to 10-0-0, Corner(3R) 10-0-0 to 15-0-0, Exterior(2N) 15-0-0 to 20-10-8 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 DOI =1 60

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

- All plates are 1.5x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 80 lb uplift at joint 24, 45 lb uplift at joint 14, 73 lb uplift at joint 20, 85 lb uplift at joint 21, 64 lb uplift at joint 22, 134 lb uplift at joint 23, 72 lb uplift at joint 18, 85 lb uplift at joint 17, 66 lb uplift at joint 16 and 125 lb uplift at joint 15.
- 11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



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

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

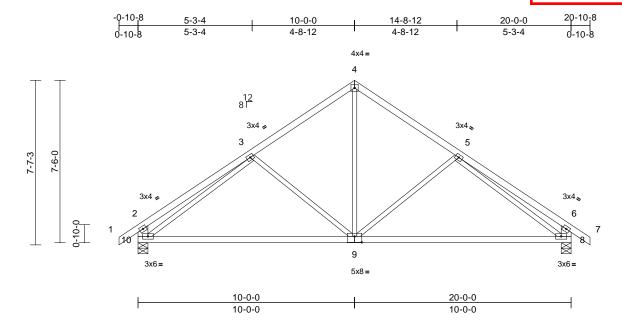


Job Truss Truss Type Qty Ply Roof - BY Lot 2290 P250398-01 B2 6 Common Job Reference (optiona RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 174494420 LEE'S SUMMIT. MISSOURI

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

Run: 8.63 S Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Thu Jun 76 ID:kiwCM1JocCuoW4SsNLpAtqzlt8k-RfC?PsB70Hq3NSgPqnL8w3uITXbGK

VrCDoi7



Scale = 1:53.2

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.34	Vert(LL)	-0.18	8-9	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.92	Vert(CT)	-0.36	8-9	>660	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.64	Horz(CT)	0.03	8	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 97 lb	FT = 20%

LUMBER

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

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

**BRACING** 

TOP CHORD Structural wood sheathing directly applied or 5-11-3 oc purlins, except end verticals.

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

bracing.

REACTIONS 8=0-5-8, 10=0-5-8 (size)

Max Horiz 10=-230 (LC 10)

Max Uplift 8=-150 (LC 13), 10=-150 (LC 12)

Max Grav 8=957 (LC 1), 10=957 (LC 1)

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

Tension

TOP CHORD 1-2=0/43, 2-3=-477/153, 3-4=-858/199,

4-5=-858/199, 5-6=-477/152, 6-7=0/43,

2-10=-463/177, 6-8=-463/177 8-10=-169/857

**WEBS** 4-9=-84/524, 3-10=-651/114, 5-8=-651/114,

3-9=-286/233, 5-9=-287/233

### 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 10-0-0, Exterior(2R) 10-0-0 to 14-10-3, Interior (1) 14-10-3 to 20-10-8 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
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- All bearings are assumed to be SP No.2 crushing capacity of 565 psi.

- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 150 lb uplift at joint 10 and 150 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



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

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



 Job
 Truss
 Truss Type
 Qty
 Ply
 Roof - BY Lot 2290

 P250398-01
 B3
 Common
 2
 1
 Job Reference (optional)

RELEASE FOR CONSTRUCTION

AS NOTED FOR PLAN REVIEW

DEVELOPMENT SERVICES
174494421

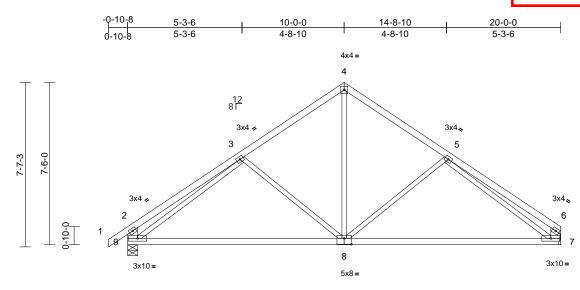
LEE'S SUMMIT, MISSOURI

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

Run: 8.63 S Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. thu Jun 68.76: 907/29:25
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20-0-0

10-0-0



Scale = 1:53.2

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

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	0.35	Vert(LL)	-0.18	7-8	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.92	Vert(CT)	-0.36	8-9	>659	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.70	Horz(CT)	0.03	7	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 95 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2

BOT CHORD 2x4 SP No.2 WEBS 2x3 SPF No.2 \*Except\* 9-2,7-6:2x6 SP No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or 5-11-1 oc purlins, except end verticals.

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

bracing.

**REACTIONS** (size) 7= Mechanical, 9=0-5-8

Max Horiz 9=223 (LC 9)

Max Uplift 7=-122 (LC 13), 9=-150 (LC 12)

Max Grav 7=877 (LC 1), 9=959 (LC 1) (lb) - Maximum Compression/Maximum

FORCES (lb) - Ma Tension

TOP CHORD 1-2=0/43, 2-3=-479/154, 3-4=-861/199,

4-5=-863/201, 5-6=-419/98, 2-9=-464/178,

6-7=-348/113 7-9=-183/849

BOT CHORD 7-9=-183/849 WEBS 4-8=-87/533, 3-9=-653/114, 5-7=-715/152,

3-8=-287/233, 5-8=-299/238

### 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 10-0-0, Exterior(2R) 10-0-0 to 14-10-1, Interior (1) 14-10-1 to 19-9-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Bearings are assumed to be: , Joint 9 SP No.2 crushing capacity of 565 psi.

- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 150 lb uplift at joint 9 and 122 lb uplift at joint 7.
- 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

10-0-0

10-0-0



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

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

Design Value to use only with rease contractors. This design is based with your parameters shown, and is not an individual building design in the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPH Quality Criteria, and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcscomponents.com)



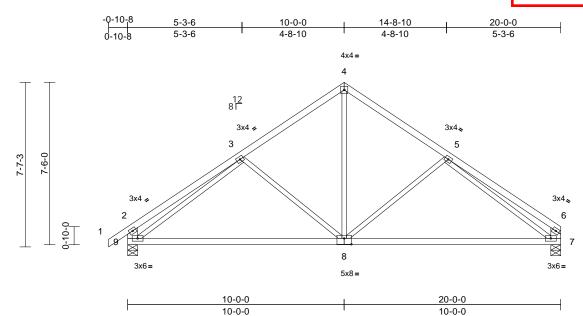
Truss Type Ply Job Truss Qty Roof - BY Lot 2290 P250398-01 B4 14 Common Job Reference (optiona

S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 174494422 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION

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

Run: 8.63 S Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Thu Jun 76 8:78:49 ID:kiwCM1JocCuoW4SsNLpAtqzlt8k-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7 342Je?f



Scale = 1:53.2

Plate Offsets	(X,	Y):	[8:0-4-0,0-3-4]
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Loading	(psf)	Spacing	2-0-0	csı		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.35	Vert(LL)	-0.18	7-8	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.92	Vert(CT)	-0.36	8-9	>659	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.70	Horz(CT)	0.03	7	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 95 lb	FT = 20%

LUMBER

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

2x3 SPF No.2 \*Except\* 9-2,7-6:2x6 SP No.2 WEBS

**BRACING** 

TOP CHORD Structural wood sheathing directly applied or 5-11-1 oc purlins, except end verticals.

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

bracing.

REACTIONS 7=0-5-8, 9=0-5-8 (size)

Max Horiz 9=223 (LC 9)

Max Uplift 7=-122 (LC 13), 9=-150 (LC 12) Max Grav 7=877 (LC 1), 9=959 (LC 1)

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

Tension

TOP CHORD 1-2=0/43, 2-3=-479/154, 3-4=-861/199,

4-5=-863/201, 5-6=-419/98, 2-9=-464/178, 6-7=-348/113

7-9=-183/849

**WEBS** 4-8=-87/533, 3-9=-653/114, 5-7=-715/152,

3-8=-287/233, 5-8=-299/238

### 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 10-0-0, Exterior(2R) 10-0-0 to 14-10-1, Interior (1) 14-10-1 to 19-9-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- All bearings are assumed to be SP No.2 crushing capacity of 565 psi.

- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 150 lb uplift at joint 9 and 122 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





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

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



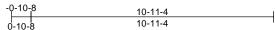
Job Truss Truss Type Qty Ply Roof - BY Lot 2290 P250398-01 C1 2 Monopitch Supported Gable Job Reference (optiona

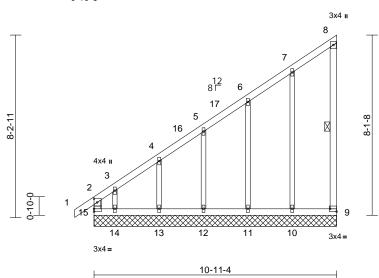
Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083,

LEE'S SUMMIT. MISSOURI Run: 8.63 S Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Thu Jun 16 8:78:49 ID:kiwCM1JocCuoW4SsNLpAtqzlt8k-RfC?PsB70Hq3NSgPqnL8w3uITXbGK VrCDoi7342JC?f

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW

DEVELOPMENT SERVICES 174494423





Scale = 1:51.9

Plate Offsets (X, Y): [2:0-2-0,0-1-12], [9:Edge,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	0.56	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.27	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.21	Horz(CT)	0.00	9	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R							Weight: 64 lb	FT = 20%

### LUMBER

TOP CHORD 2x4 SP No.2 **BOT CHORD** 2x4 SP No.2 2x4 SP 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 WFBS 1 Row at midpt

REACTIONS (size)

9=10-11-4, 10=10-11-4, 11=10-11-4, 12=10-11-4,

13=10-11-4, 14=10-11-4,

8-9

15=10-11-4

Max Horiz 15=340 (LC 9)

Max Uplift 9=-67 (LC 11), 10=-84 (LC 12),

11=-75 (LC 12), 12=-82 (LC 12), 13=-67 (LC 12), 14=-260 (LC 12),

15=-186 (LC 10)

Max Grav 9=95 (LC 19), 10=193 (LC 19),

11=191 (LC 19), 12=188 (LC 19),

13=191 (LC 19), 14=231 (LC 10), 15=373 (LC 9)

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

Tension TOP CHORD

2-15=-566/398. 1-2=0/40. 2-3=-810/524.

3-4=-599/395, 4-5=-508/350, 5-6=-407/302, 6-7=-298/263, 7-8=-148/167, 8-9=-80/94

**BOT CHORD** 14-15=-152/198, 13-14=-152/198,

12-13=-152/198, 11-12=-152/198, 10-11=-152/198, 9-10=-152/198

**WEBS** 7-10=-209/245, 6-11=-147/173,

5-12=-148/157, 4-13=-153/186,

3-14=-273/371

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 Corner(3E) -0-10-8 to 4-1-8, Exterior(2N) 4-1-8 to 10-9-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face). see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- All plates are 1.5x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 186 lb uplift at joint 15, 67 lb uplift at joint 9, 84 lb uplift at joint 10, 75 lb uplift at joint 11, 82 lb uplift at joint 12, 67 lb uplift at joint 13 and 260 lb uplift at joint 14.
- 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard





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

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



Job Truss Truss Type Qty Ply Roof - BY Lot 2290 P250398-01 C2 Monopitch Girder 2 2 Job Reference (optiona

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

LEE'S SUMMIT. MISSOURI Run: 8.63 S Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Thu Jun 76 8:79:10 ID:RdW\_TSQ3FG9OjcDnzS\_WHxzlt8a-RfC?PsB70Hq3NSgPqnL8w3uITXb0 KWrCDol7J42JO?

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW

DEVELOPMENT SERVICES 174494424



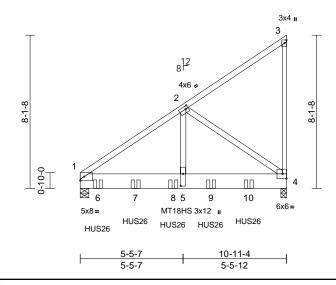


Plate Offsets (X, Y): [2:0-1-8,0-1-12], [5:0-7-12,0-1-8]

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	0.77	Vert(LL)	-0.04	4-5	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.30	Vert(CT)	-0.07	4-5	>999	180	MT18HS	244/190
BCLL	0.0	Rep Stress Incr	NO	WB	0.83	Horz(CT)	0.01	4	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 166 lb	FT = 20%

### LUMBER

TOP CHORD 2x4 SP No.2

**BOT CHORD** 2x10 SP 2400F 2.0E

2x4 SP No.2 \*Except\* 3-4:2x3 SPF No.2 WEBS

**BRACING** 

TOP CHORD Structural wood sheathing directly applied or

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

bracing.

REACTIONS 1=0-5-8, 4=0-3-8 (size)

Max Horiz 1=319 (LC 28)

Max Uplift 1=-825 (LC 12), 4=-788 (LC 12)

Max Grav 1=5658 (LC 1), 4=4613 (LC 1) **FORCES** (lb) - Maximum Compression/Maximum

Tension

1-2=-5208/841, 2-3=-215/186, 3-4=-188/171

TOP CHORD **BOT CHORD** 1-5=-891/4117, 4-5=-891/4117

**WEBS** 2-5=-798/5625, 2-4=-5081/969

### NOTES

- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
  - Top chords connected as follows: 2x4 1 row at 0-9-0 oc, 2x3 - 1 row at 0-9-0 oc.
  - Bottom chords connected as follows: 2x10 2 rows staggered at 0-4-0 oc.
- Web connected as follows: 2x4 1 row at 0-9-0 oc. All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.

- 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 5-5-7, Interior (1) 5-5-7 to 10-10-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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.
- All bearings are assumed to be SP 2400F 2.0E crushing capacity of 805 psi.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 825 lb uplift at joint 1 and 788 lb uplift at joint 4.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Use Simpson Strong-Tie HUS26 (14-16d Girder, 4-16d Truss) or equivalent spaced at 2-0-0 oc max. starting at 0-11-4 from the left end to 8-11-4 to connect truss(es) to front face of bottom chord.
- 10) Fill all nail holes where hanger is in contact with lumber.

### LOAD CASE(S) Standard

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

Uniform Loads (lb/ft)

Vert: 1-3=-70, 1-4=-20 Concentrated Loads (lb)

Vert: 6=-1866 (F), 7=-1863 (F), 8=-1863 (F), 9=-1863

(F), 10=-1863 (F)



June 27,2025

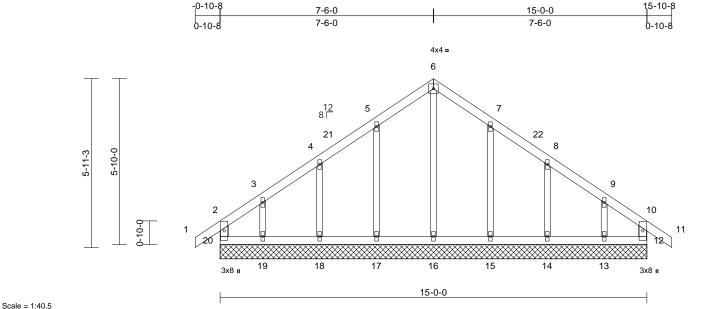


Job Truss Truss Type Qty Ply Roof - BY Lot 2290 P250398-01 D1 2 Common Supported Gable Job Reference (optiona

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 174494425 LEE'S SUMMIT. MISSOURI

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

Run: 8.63 S Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Thu Jun 16 ID:CuTbaNJQNV1f8E12x3KPQ2zlt8j-RfC?PsB70Hq3NSgPqnL8w3uITXbGk



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Loading	(psf)	Spacing	2-0-0	csı		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.09	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.05	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.12	Horz(CT)	0.00	12	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R							Weight: 71 lb	FT = 20%

### LUMBER

2x4 SP No.2 TOP CHORD 2x4 SP No.2 **BOT CHORD** 2x4 SP 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 6-0-0 oc

bracing.

**REACTIONS** (size)

12=15-0-0, 13=15-0-0, 14=15-0-0, 15=15-0-0, 16=15-0-0, 17=15-0-0, 18=15-0-0, 19=15-0-0, 20=15-0-0

Max Horiz 20=181 (LC 11)

Max Uplift 12=-44 (LC 9), 13=-106 (LC 13), 14=-76 (LC 13), 15=-79 (LC 13), 17=-80 (LC 12), 18=-75 (LC 12),

19=-113 (LC 12), 20=-74 (LC 8)

Max Grav 12=148 (LC 19), 13=174 (LC 20), 14=191 (LC 20), 15=197 (LC 20), 16=190 (LC 22), 17=199 (LC 19), 18=189 (LC 19), 19=186 (LC 19),

20=172 (LC 20)

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

Tension TOP CHORD

2-20=-141/79, 1-2=0/40, 2-3=-116/110, 3-4=-85/86, 4-5=-75/152, 5-6=-116/234, 6-7=-117/234, 7-8=-75/152, 8-9=-61/69, 9-10=-82/74, 10-11=0/40, 10-12=-130/79

**BOT CHORD** 19-20=-79/99, 18-19=-79/99, 17-18=-79/99,

16-17=-79/99. 15-16=-79/99. 14-15=-79/99. 13-14=-79/99, 12-13=-79/99

WEBS 6-16=-168/28, 5-17=-159/123 4-18=-150/158, 3-19=-134/136

> 7-15=-157/123, 8-14=-152/158, 9-13=-128/136

### NOTES

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

- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=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 7-6-0, Corner(3R) 7-6-0 to 12-6-0, Exterior(2N) 12-6-0 to 15-10-8 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.
- All bearings are assumed to be SP No.2 crushing capacity of 565 psi
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 74 lb uplift at joint 20, 44 lb uplift at joint 12, 80 lb uplift at joint 17, 75 lb uplift at joint 18, 113 lb uplift at joint 19, 79 lb uplift at joint 15, 76 lb uplift at joint 14 and 106 lb uplift at joint 13.
- 11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



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



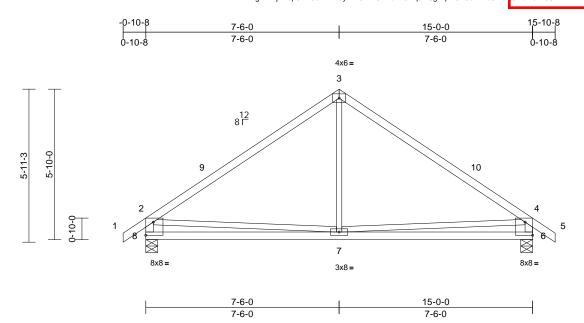
Truss Type Ply Job Truss Qty Roof - BY Lot 2290 P250398-01 D2 Common 8 Job Reference (optiona

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

Run: 8.63 S Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Thu Jun 76 ID:g41znjK28p9WIOcEVmreyFzlt8i-RfC?PsB70Hq3NSgPqnL8w3uITXbGKV

S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 174494426 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION



Scale = 1:44.7

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.80	Vert(LL)	-0.06	7-8	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.51	Vert(CT)	-0.12	7-8	>999	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.32	Horz(CT)	0.01	6	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 70 lb	FT = 20%

LUMBER

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

2x3 SPF No.2 \*Except\* 8-2,6-4:2x4 SP No.2 WEBS

**BRACING** 

TOP CHORD Structural wood sheathing directly applied or

5-9-0 oc purlins, except end verticals. **BOT CHORD** Rigid ceiling directly applied or 9-5-0 oc

bracing.

REACTIONS 6=0-5-8, 8=0-5-8 (size)

Max Horiz 8=-181 (LC 10)

Max Uplift 6=-117 (LC 13), 8=-117 (LC 12) Max Grav 6=733 (LC 1), 8=733 (LC 1)

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

Tension

1-2=0/40, 2-3=-740/161, 3-4=-740/161, TOP CHORD

4-5=0/40, 2-8=-670/211, 4-6=-670/211 **BOT CHORD** 7-8=-386/711, 6-7=-308/585

WFBS 3-7=0/322, 2-7=-223/385, 4-7=-236/391

### 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 7-6-0, Exterior (2R) 7-6-0 to 12-6-0, Interior (1) 12-6-0 to 15-10-8 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
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 117 lb uplift at joint 8 and 117 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





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

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



Job Truss Truss Type Qty Ply Roof - BY Lot 2290 P250398-01 D3 2 2 Common Girder Job Reference (optiona

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

Run: 8.63 S Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Thu Jun 16 8:79:00

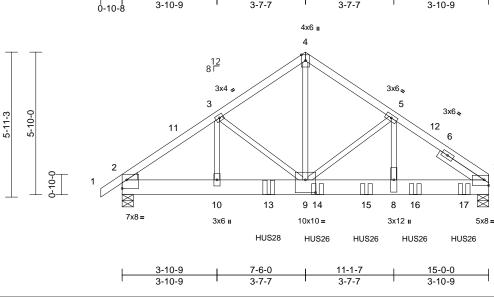
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RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW

DEVELOPMENT SERVICES 174494427

LEE'S SUMMIT. MISSOURI

3-10-9 15-0-0 7-6-0 11-1-7 3-7-7 3-7-7 3-10-9 3-10-9



Scale = 1:47.2

Plate Offsets (X, Y): [2:Edge,0-4-4], [7:Edge,0-2-12], [9:0-5-0,0-6-4]

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	0.55	Vert(LL)	-0.06	9-10	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.76	Vert(CT)	-0.10	9-10	>999	180		
BCLL	0.0	Rep Stress Incr	NO	WB	0.79	Horz(CT)	0.03	7	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 167 lb	FT = 20%

### LUMBER

TOP CHORD 2x4 SP No.2 \*Except\* 4-7:2x4 SP 2400F

2.0E

**BOT CHORD** 2x8 SPF No.2 2x3 SPF No 2 WFBS WEDGE Left: 2x4 SP No.2

Right 2x4 SP No.2 -- 2-1-15 **SLIDER** 

BRACING

TOP CHORD Structural wood sheathing directly applied or

5-4-1 oc purlins

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

bracing

REACTIONS (size) 2=0-5-8, 7=0-5-8

Max Horiz 2=154 (LC 9)

Max Uplift 2=-855 (LC 12), 7=-1051 (LC 13)

Max Grav 2=3518 (LC 1), 7=5319 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/16, 2-3=-5316/1371, 3-4=-4561/1162,

4-5=-4522/1155, 5-7=-6066/1289

**BOT CHORD** 2-10=-1047/4066, 9-10=-1047/4066,

8-9=-946/4735, 7-8=-946/4735 **WEBS** 3-10=-287/835, 3-9=-494/292,

4-9=-1151/4619, 5-9=-1282/230

5-8=-199/1862

### NOTES

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

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

Bottom chords connected as follows: 2x8 - 3 rows staggered at 0-5-0 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
- 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 3-10-9, Interior (1) 3-10-9 to 7-6-0, Exterior(2R) 7-6-0 to 12-6-0, Interior (1) 12-6-0 to 14-9-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- All bearings are assumed to be SPF No.2 crushing capacity of 425 psi.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1051 lb uplift at joint 7 and 855 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.
- Use Simpson Strong-Tie HUS28 (22-16d Girder, 8-16d Truss, Single Ply Girder) or equivalent at 6-0-0 from the left end to connect truss(es) to back face of bottom
- 10) Use Simpson Strong-Tie HUS26 (14-16d Girder, 4-16d Truss) or equivalent spaced at 2-0-0 oc max. starting at 8-0-0 from the left end to 14-0-0 to connect truss(es) to back face of bottom chord.
- 11) 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: 1-4=-70, 4-7=-70, 2-7=-20

Concentrated Loads (lb)

Vert: 13=-2476 (B), 14=-1245 (B), 15=-1243 (B), 16=-1243 (B), 17=-1245 (B)





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

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



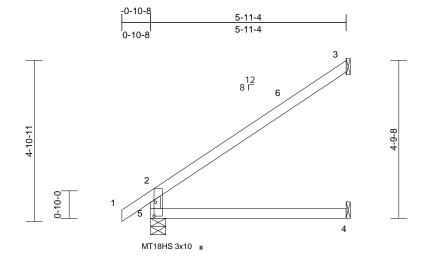
Ply Job Truss Truss Type Qty Roof - BY Lot 2290 Jack-Open P250398-01 J1 28 Job Reference (optiona

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

Run: 8.63 S Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Thu Jun 16 8:79:00 ID:g41znjK28p9WIOcEVmreyFzlt8i-RfC?PsB70Hq3NSgPqnL8w3uITXbGKW

S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 174494428 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION



5-11-4

Scale = 1:35

Plate Offsets (X, Y): [5:0-5-0,0-0-8] Loading Spacing 2-0-0 CSI **DEFL** I/defI L/d **PLATES** GRIP (psf) (loc) Plate Grip DOL TCLL (roof) 25.0 1.15 TC 0.63 Vert(LL) 0.08 4-5 >826 240 MT18HS

244/190 **TCDL** 10.0 Lumber DOL 1.15 BC 0.48 Vert(CT) -0.11 4-5 >600 180 **BCLL** 0.0 Rep Stress Incr YES WB 0.00 Horz(CT) 3 -0.05 n/a BCDL 10.0 Code IRC2018/TPI2014 Matrix-R Weight: 22 lb FT = 20%

LUMBER

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

**BRACING** 

TOP CHORD Structural wood sheathing directly applied or 5-11-4 oc purlins, except end verticals. **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc

bracing.

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

Max Horiz 5=183 (LC 12)

Max Uplift 3=-133 (LC 12), 5=-10 (LC 12) 3=193 (LC 19), 4=109 (LC 3), Max Grav

5=336 (LC 1)

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

Tension

TOP CHORD 2-5=-294/152, 1-2=0/40, 2-3=-149/89

**BOT CHORD** 4-5=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) -0-10-8 to 4-1-8, Interior (1) 4-1-8 to 5-10-8 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
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Bearings are assumed to be: , Joint 5 SP No.2 crushing capacity of 565 psi.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 10 lb uplift at joint 5 and 133 lb uplift at joint 3.

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

LOAD CASE(S) Standard





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

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



Job Truss Truss Type Qty Ply Roof - BY Lot 2290 P250398-01 LG<sub>1</sub> 2 Lay-In Gable

Job Reference (optiona

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

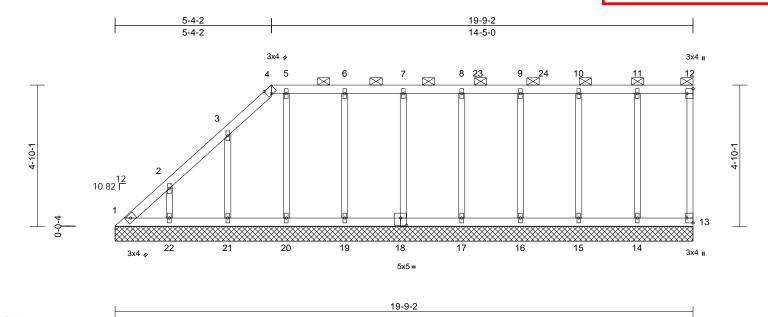
Run: 8.63 S Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Thu Jun 26 8:79:0 ID:g41znjK28p9WIOcEVmreyFzlt8i-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKW

CDoi7J42

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW

DEVELOPMENT SERVICES 174494429

LEE'S SUMMIT. MISSOURI



Scale = 1:39.4

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.26	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.09	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.08	Horiz(TL)	0.00	13	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 92 lb	FT = 20%

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

**BOT CHORD** 

LUMBER

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

2-0-0 oc purlins (6-0-0 max.): 4-12. Rigid ceiling directly applied or 6-0-0 oc

bracing.

REACTIONS (size)

1=19-9-2, 13=19-9-2, 14=19-9-2, 15=19-9-2, 16=19-9-2, 17=19-9-2, 18=19-9-2, 19=19-9-2, 20=19-9-2, 21=19-9-2, 22=19-9-2

Max Horiz 1=194 (LC 9)

1=-48 (LC 10), 13=-16 (LC 9), Max Uplift

14=-43 (LC 8), 15=-41 (LC 9), 16=-40 (LC 8), 17=-39 (LC 9),

18=-40 (LC 9), 19=-52 (LC 8), 20=-77 (LC 9), 21=-102 (LC 12),

22=-110 (LC 12)

Max Grav 1=127 (LC 9), 13=66 (LC 1) 14=187 (LC 26), 15=180 (LC 1),

16=180 (LC 26), 17=182 (LC 26), 18=180 (LC 1), 19=183 (LC 26), 20=183 (LC 1), 21=204 (LC 19),

22=191 (LC 19)

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

Tension TOP CHORD

1-2=-314/201, 2-3=-227/168, 3-4=-117/107, 4-5=-92/100, 5-6=-92/100, 6-7=-92/100, 7-8=-94/101, 8-9=-94/101, 9-10=-94/101 10-11=-94/101, 11-12=-94/101, 12-13=-55/46 **BOT CHORD** 

1-22=-95/103, 21-22=-95/103, 20-21=-95/103, 19-20=-95/103, 17-19=-95/103, 16-17=-93/102, 15-16=-93/102, 14-15=-93/102, 13-14=-93/102

**WEBS** 2-22=-148/129, 3-21=-164/142,

5-20=-146/124, 6-19=-145/75, 7-18=-140/64, 8-17=-140/63, 9-16=-140/64, 10-15=-140/66,

11-14=-145/80

### NOTES

- Unbalanced roof live loads have been considered for 1) this design.
- Wind: ASCE 7-16: Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-4-9 to 5-4-6, Exterior(2R) 5-4-6 to 12-5-4, Interior (1) 12-5-4 to 19-8-2 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable or consult qualified building designer as per ANSI/TPI 1.
- Provide adequate drainage to prevent water ponding.
- All plates are 1.5x4 MT20 unless otherwise indicated. 5)
- Gable requires continuous bottom chord bearing. 6) Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- All bearings are assumed to be SP No.2 crushing capacity of 565 psi.

- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 48 lb uplift at joint 1, 16 lb uplift at joint 13, 110 lb uplift at joint 22, 102 lb uplift at joint 21, 77 lb uplift at joint 20, 52 lb uplift at joint 19, 40 lb uplift at joint 18, 39 lb uplift at joint 17, 40 lb uplift at joint 16, 41 lb uplift at joint 15 and 43 lb uplift at joint 14.
- 11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



Job Truss Truss Type Qty Ply Roof - BY Lot 2290 P250398-01 LG<sub>2</sub> Lay-In Gable 2

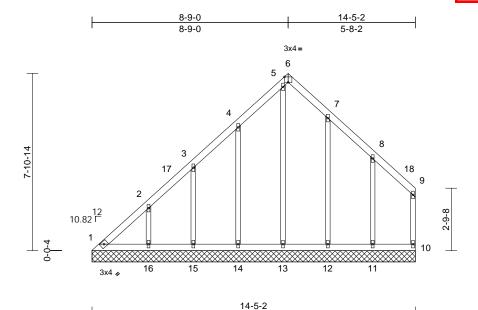
Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083,

Job Reference (optiona Run: 8.63 S Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Thu Jun 16 8:79:00

ID:g41znjK28p9WIOcEVmreyFzlt8i-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKW

S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 174494430 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION



Scale = 1:51.4

Plate Offsets	(X,	Y):	[6:0-2-0,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	0.15	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.05	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.46	Horiz(TL)	0.00	10	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 74 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

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

bracing. REACTIONS (size)

1=14-5-2, 10=14-5-2, 11=14-5-2, 12=14-5-2, 13=14-5-2, 14=14-5-2,

15=14-5-2, 16=14-5-2

Max Horiz 1=249 (LC 9)

Max Uplift 1=-130 (LC 8), 10=-30 (LC 12),

11=-138 (LC 13), 12=-63 (LC 13), 13=-117 (LC 11), 14=-128 (LC 12),

15=-104 (LC 12), 16=-131 (LC 12)

Max Grav 1=202 (LC 11), 10=92 (LC 20), 11=218 (LC 20), 12=184 (LC 26),

13=269 (LC 8), 14=203 (LC 19), 15=186 (LC 19), 16=236 (LC 19)

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

Tension

TOP CHORD 1-2=-280/254, 2-3=-245/227, 3-4=-215/235,

4-5=-226/344. 5-6=-84/111. 6-7=-210/311. 7-8=-175/241, 8-9=-100/112, 9-10=-95/91 1-16=-56/64, 15-16=-56/64, 14-15=-56/64,

13-14=-56/64, 12-13=-56/64, 11-12=-56/64,

10-11=-56/64

WEBS 2-16=-181/152, 3-15=-151/139,

4-14=-162/165, 5-13=-353/173, 7-12=-144/87, 8-11=-167/171

### NOTES

BOT CHORD

Unbalanced roof live loads have been considered for this design.

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-4-9 to 5-4-9, Interior (1) 5-4-9 to 8-9-4, Exterior (2R) 8-9-4 to 13-9-4, Interior (1) 13-9-4 to 14-4-2 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face). see Standard Industry Gable End Details as applicable or consult qualified building designer as per ANSI/TPI 1.
- 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.
- All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 130 lb uplift at joint 1, 30 lb uplift at joint 10, 131 lb uplift at joint 16, 104 Ib uplift at joint 15, 128 lb uplift at joint 14, 117 lb uplift at joint 13, 63 lb uplift at joint 12 and 138 lb uplift at joint
- 10) This truss is designed in accordance with the 2018 International Residential Code sections R502 11 1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard





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



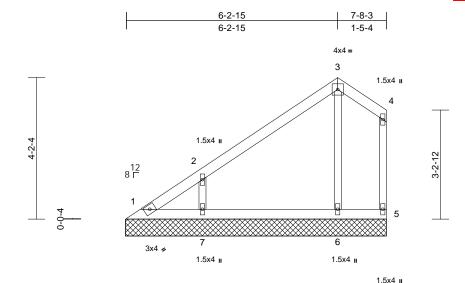
Ply Job Truss Truss Type Qty Roof - BY Lot 2290 P250398-01 V1 Valley 2 Job Reference (optiona

S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 174494431 LEE'S SUMMIT. MISSOURI

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

Run: 8.63 S Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Thu Jun 16 8:79:10 ID:8GbL?3Lgv7HNNXBR3UMtVTzlt8h-RfC?PsB70Hq3NSgPqnL8w3uITXbG (WrCDoix-4zbC1f

RELEASE FOR CONSTRUCTION



Scale = 1:34.1

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defI	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.24	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.09	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.07	Horiz(TL)	0.00	5	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 31 lb	FT = 20%

7-8-3

LUMBER

2x4 SP No.2 TOP CHORD 2x4 SP No.2 **BOT CHORD** 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=7-8-9, 5=7-8-9, 6=7-8-9, 7=7-8-9

Max Horiz 1=152 (LC 9)

Max Uplift 1=-50 (LC 10), 5=-41 (LC 8), 6=-24

(LC 9), 7=-167 (LC 12)

1=85 (LC 9), 5=69 (LC 20), 6=248 Max Grav (LC 19), 7=376 (LC 19)

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

Tension

TOP CHORD 1-2=-258/195, 2-3=-141/80, 3-4=-98/115,

4-5=-87/93

**BOT CHORD** 1-7=-61/66, 6-7=-61/66, 5-6=-61/66 WEBS 3-6=-181/155, 2-7=-306/300

### NOTES

- Unbalanced roof live loads have been considered for 1) this design
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-5-12 to 5-5-12, Interior (1) 5-5-12 to 6-3-5, Exterior(2E) 6-3-5 to 7-7-5 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Gable requires continuous bottom chord bearing.

- Gable studs spaced at 4-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 50 lb uplift at joint 1, 41 lb uplift at joint 5, 24 lb uplift at joint 6 and 167 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



June 27,2025



Ply Job Truss Truss Type Qty Roof - BY Lot 2290 P250398-01 V2 Valley 2

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

Job Reference (optiona Run: 8.63 S Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Thu Jun 76 8:79:

DEVELOPMENT SERVICES 174494432 LEE'S SUMMIT. MISSOURI ID:4fj5PkMwRkX5crLpAuPLauzlt8f-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWCDoi7J42dC?

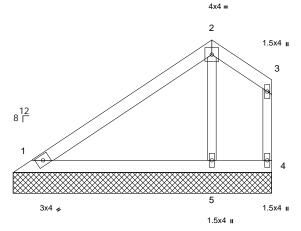
2-2-12

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW

4-8-15 6 - 2 - 31-5-4







6-2-3

Scale = 1:27.7

Loading	(psf)	Spacing	2-0-0	csı		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.42	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.15	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.05	Horiz(TL)	0.00	4	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 23 lb	FT = 20%

### LUMBER

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

### BRACING

**BOT CHORD** 

TOP CHORD Structural wood sheathing directly applied or

6-2-9 oc purlins, except end verticals. Rigid ceiling directly applied or 10-0-0 oc

bracing.

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

Max Horiz 1=109 (LC 9)

Max Uplift 1=-34 (LC 12), 4=-39 (LC 8), 5=-13

(LC 12)

Max Grav 1=185 (LC 1), 4=51 (LC 20), 5=303

(LC 19)

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

Tension

TOP CHORD 1-2=-110/94, 2-3=-74/92, 3-4=-75/84

**BOT CHORD** 1-5=-41/44, 4-5=-41/44

**WEBS** 2-5=-211/192

### NOTES

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

- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 34 lb uplift at joint 1, 39 lb uplift at joint 4 and 13 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 Job Truss Qty Roof - BY Lot 2290 P250398-01 V3 Valley 2 Job Reference (optiona

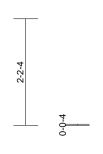
Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083,

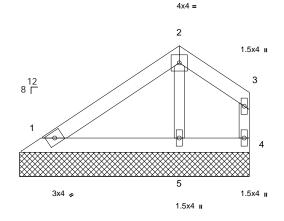
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S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 174494433 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION

3-2-15	4-8-3
3-2-15	1-5-4





4-8-3

Scale = 1:23.7

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.17	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.06	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horiz(TL)	0.00	4	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 17 lb	FT = 20%

### LUMBER

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

### BRACING

TOP CHORD Structural wood sheathing directly applied or 4-8-9 oc purlins, except end verticals.

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

bracing.

(size) REACTIONS 1=4-8-9, 4=4-8-9, 5=4-8-9

Max Horiz 1=66 (LC 9)

Max Uplift 1=-25 (LC 12), 4=-28 (LC 13), 5=-9

(LC 12)

Max Grav 1=121 (LC 1), 4=59 (LC 20), 5=207

(LC 19)

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

Tension

TOP CHORD 1-2=-72/63, 2-3=-50/67, 3-4=-63/73

**BOT CHORD** 1-5=-20/22, 4-5=-20/22

**WEBS** 2-5=-150/118

### NOTES

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

- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 25 lb uplift at joint 1, 28 lb uplift at joint 4 and 9 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





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

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



Truss Type Job Truss Qty Ply Roof - BY Lot 2290 P250398-01 V4 Valley 2 Job Reference (optiona

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

Run: 8.63 S Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Thu Jun 66 8:39:40

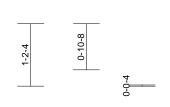
S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 174494434 LEE'S SUMMIT. MISSOURI

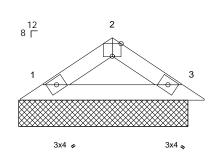
RELEASE FOR CONSTRUCTION

ID:4fj5PkMwRkX5crLpAuPLauzIt8f-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKW CDoi7J42-C?

		3-5-15
1-8-15	3-0-12	
1-8-15	1-3-12	0-5-3

3x4 =





3-5-15

Scale = 1:21.9

Plate Offsets (X, Y): [2:0-2-0,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	0.04	Vert(LL)	n/a	-	n/a	999	MT20	244/190
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)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 10 lb	FT = 20%

### LUMBER

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

### **BRACING**

TOP CHORD Structural wood sheathing directly applied or 3-2-9 oc purlins.

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

bracing.

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

Max Horiz 1=-24 (LC 8)

Max Uplift 1=-17 (LC 12), 3=-17 (LC 13) Max Grav 1=117 (LC 1), 3=117 (LC 1)

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

Tension

TOP CHORD 1-2=-102/70, 2-3=-102/70

BOT CHORD 1-3=-26/68

### NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.

- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 17 lb uplift at joint 1 and 17 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.



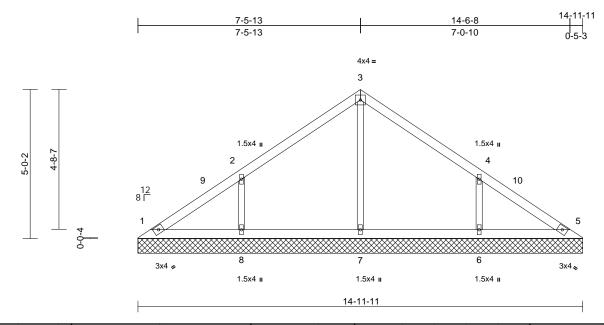
Job	Truss	Truss Type	Qty	Ply	Roof - BY Lot 2290
P250398-01	V5	Valley	1	1	Job Reference (optional

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

Run: 8.63 S Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Thu Jun 76 8:7

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 174494435 LEE'S SUMMIT. MISSOURI

ID:4fj5PkMwRkX5crLpAuPLauzlt8f-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWCDoi7J42dC?



Scale = 1:38.8

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.22	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.11	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.11	Horiz(TL)	0.00	5	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 54 lb	FT = 20%

### LUMBER

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

**BRACING** 

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins.

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

bracing.

REACTIONS (size)

1=14-11-11, 5=14-11-11, 6=14-11-11, 7=14-11-11, 8=14-11-11

Max Horiz 1=-131 (LC 8)

Max Uplift 1=-16 (LC 13), 6=-169 (LC 13),

8=-169 (LC 12)

Max Grav 1=136 (LC 20), 5=127 (LC 1), 6=392 (LC 20), 7=275 (LC 1),

8=392 (LC 19)

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

TOP CHORD 1-2=-137/96, 2-3=-148/119, 3-4=-140/110,

4-5=-104/52

1-8=-36/83, 7-8=-36/83, 6-7=-36/83,

5-6=-36/83 **WEBS** 

3-7=-195/10, 2-8=-310/211, 4-6=-310/211

### NOTES

**BOT CHORD** 

- Unbalanced roof live loads have been considered for 1) this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-5-12 to 5-5-12, Interior (1) 5-5-12 to 7-6-3, Exterior(2R) 7-6-3 to 12-6-3, Interior (1) 12-6-3 to 14-6-10 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 16 lb uplift at joint 1, 169 lb uplift at joint 8 and 169 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



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

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



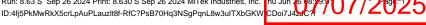
Truss Type Ply Job Truss Qty Roof - BY Lot 2290 P250398-01 V<sub>6</sub> Valley

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

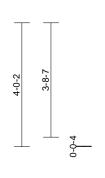
Job Reference (optiona Run: 8.63 S Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Thu Jun 76

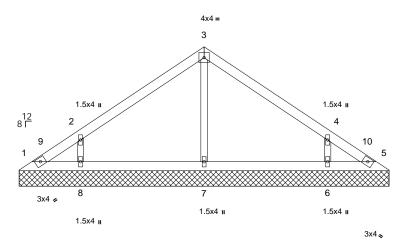
S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 174494436 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION



11-6-8 5-11-13 5-11-13 5-6-10





11-11-11

Scale = 1:37.3

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.20	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.12	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.07	Horiz(TL)	0.00	5	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 42 lb	FT = 20%

### LUMBER

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

### **BRACING**

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins.

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

bracing.

REACTIONS (size)

1=11-11-11, 5=11-11-11, 6=11-11-11, 7=11-11-11,

8=11-11-11

Max Horiz 1=-103 (LC 8)

Max Uplift 1=-38 (LC 10), 5=-19 (LC 11),

6=-154 (LC 13), 8=-154 (LC 12)

Max Grav 1=62 (LC 20), 5=50 (LC 22), 6=347 (LC 20), 7=285 (LC 1), 8=347 (LC

19)

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

TOP CHORD 1-2=-106/86, 2-3=-145/99, 3-4=-140/97,

4-5=-85/51

1-8=-25/71, 7-8=-25/71, 6-7=-25/71,

5-6=-25/71 WEBS

3-7=-199/39, 2-8=-287/215, 4-6=-286/215

### NOTES

**BOT CHORD** 

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

- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 38 lb uplift at joint 1, 19 lb uplift at joint 5, 154 lb uplift at joint 8 and 154 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



June 27,2025



Ply Job Truss Truss Type Qty Roof - BY Lot 2290 P250398-01 V7 Valley Job Reference (optiona

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

Run: 8.63 S Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Thu Jun 76

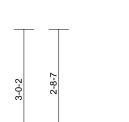
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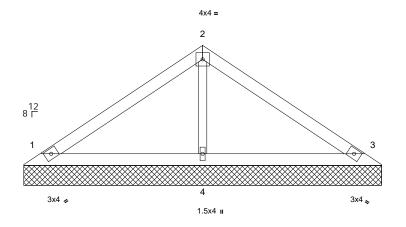
RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW

DEVELOPMENT SERVICES 174494437

LEE'S SUMMIT. MISSOURI

4-5-13 8-6-8 4-5-13 4-0-10





8-11-11

Scale = 1:28.9

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.37	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.17	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.05	Horiz(TL)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 30 lb	FT = 20%

### LUMBER

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

**BRACING** 

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins.

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

bracing.

REACTIONS (size) 1=8-11-11, 3=8-11-11, 4=8-11-11

1=-75 (LC 8) Max Horiz

Max Uplift 1=-52 (LC 12), 3=-61 (LC 13), 4=-1

(LC 12)

1=204 (LC 1), 3=204 (LC 1), 4=318 Max Grav

(LC 1)

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

Tension

TOP CHORD 1-2=-128/71, 2-3=-122/71 **BOT CHORD** 1-4=-16/60, 3-4=-16/60

2-4=-217/103 WEBS

NOTES

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

- All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 52 lb uplift at joint 1, 61 lb uplift at joint 3 and 1 lb uplift at joint 4.
- 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





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

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



Truss Type Ply Job Truss Qty Roof - BY Lot 2290 P250398-01 V8 Valley

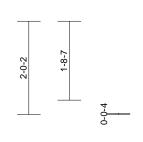
Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083,

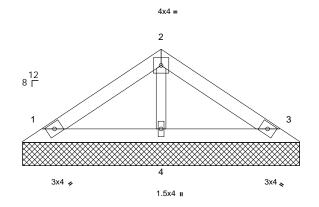
Job Reference (optiona Run: 8.63 S Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Thu Jun 76 8:79:11

DEVELOPMENT SERVICES 174494438 LEE'S SUMMIT. MISSOURI ID:4fj5PkMwRkX5crLpAuPLauzlt8f-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKW CDoi7J42dC?

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW







5-11-11

Scale = 1:24.8

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	0.13	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.07	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horiz(TL)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 19 lb	FT = 20%

### LUMBER

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

### **BRACING**

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins.

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

bracing.

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

Max Horiz 1=-47 (LC 10)

Max Uplift 1=-32 (LC 12), 3=-38 (LC 13) Max Grav 1=128 (LC 1), 3=128 (LC 1), 4=200

(LC 1)

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

Tension

TOP CHORD 1-2=-81/55, 2-3=-77/55 **BOT CHORD** 1-4=-10/38, 3-4=-10/38

WFBS 2-4=-136/85

### NOTES

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

- All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 32 lb uplift at joint 1 and 38 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.





Truss Type Job Truss Qty Ply Roof - BY Lot 2290 P250398-01 V9 Valley Job Reference (optiona

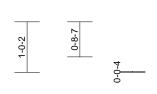
Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083,

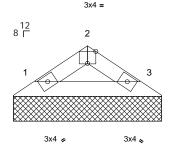
Run: 8.63 S Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Thu Jun 66 8:39:40 ID:4fj5PkMwRkX5crLpAuPLauzlt8f-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKW CDoi7J42dC?

S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 174494439 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION

1-5-13 1-5-13 1-0-10





2-11-11

Scale = 1:23.1

Plate Offsets (X, Y): [2:0-2-0,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	0.03	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.05	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.00	Horiz(TL)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 8 lb	FT = 20%

### LUMBER

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

### **BRACING**

TOP CHORD Structural wood sheathing directly applied or 3-0-7 oc purlins.

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

bracing.

REACTIONS (size) 1=2-11-11, 3=2-11-11

Max Horiz 1=-19 (LC 8)

Max Uplift 1=-13 (LC 12), 3=-13 (LC 13) Max Grav 1=93 (LC 1), 3=93 (LC 1) (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-81/56, 2-3=-81/56

BOT CHORD 1-3=-21/54

### NOTES

**FORCES** 

- 1) Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.

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



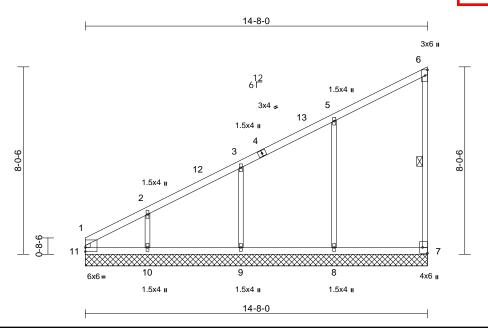
Job	Truss	Truss Type	Qty	Ply	Roof - BY Lot 2290
P250398-01	V10	Valley	2	1	Job Reference (optional

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

DEVELOPMENT SERVICES 174494440 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW

Run: 8.63 S Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Thu Jun 26 8:79: ID:cT9jCOMIgQPE?hmdcBu62gzlt8g-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi734zJC?f



Scale = 1:49.4

Plate Offsets (X, Y): [7:Edge,0-2-8], [11:Edge,0-2-2]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.77	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.26	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.25	Horiz(TL)	0.00	7	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R							Weight: 61 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

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

bracing.

WFBS 1 Row at midpt 6-7

7=14-8-0, 8=14-8-0, 9=14-8-0, REACTIONS (size) 10=14-8-0, 11=14-8-0

Max Horiz 11=340 (LC 9)

Max Uplift 7=-49 (LC 9), 8=-135 (LC 12), 9=-113 (LC 12), 10=-167 (LC 12)

7=142 (LC 1), 8=393 (LC 1), 9=359 Max Grav

(LC 1), 10=330 (LC 1), 11=178 (LC

9)

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

Tension TOP CHORD

1-11=-235/115, 1-2=-514/298, 2-3=-399/248,

3-5=-301/213, 5-6=-162/143, 6-7=-110/113 **BOT CHORD** 10-11=-150/164, 9-10=-150/164,

8-9=-150/164, 7-8=-150/164 WEBS 5-8=-306/264 3-9=-280/202 2-10=-255/227

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) 0-1-4 to 5-1-4, Interior (1) 5-1-4 to 14-6-12 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

- 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.
- The Fabrication Tolerance at joint 11 = 12%, joint 1 = 16%, joint 11 = 12%
- Gable requires continuous bottom chord bearing.
- Truss to be fully sheathed from one face or securely 5) braced against lateral movement (i.e. diagonal web).
- Gable studs spaced at 4-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 49 lb uplift at joint 7, 135 lb uplift at joint 8, 113 lb uplift at joint 9 and 167 lb uplift at joint 10.
- 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



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

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



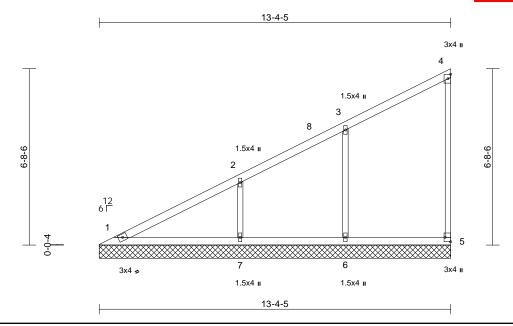
Job	Truss	Truss Type	Qty	Ply	Roof - BY Lot 2290
P250398-01	V11	Valley	2	1	Job Reference (optional

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

S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 174494441 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION

Run: 8.63 S Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Thu Jun 76 8:79:01 ID:cT9jCOMIgQPE?hmdcBu62gzlt8g-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi734zJC?f



Scale = 1:43.8

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.53	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.18	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.14	Horiz(TL)	0.00	5	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 51 lb	FT = 20%

### LUMBER

TOP CHORD 2x4 SP No.2 2x4 SP No.2 **BOT CHORD** 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=13-4-5, 5=13-4-5, 6=13-4-5,

7=13-4-5

Max Horiz 1=282 (LC 9)

Max Uplift 5=-44 (LC 9), 6=-124 (LC 12), 7=-154 (LC 12)

1=195 (LC 20), 5=147 (LC 1), Max Grav 6=364 (LC 1), 7=453 (LC 1)

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

Tension

TOP CHORD 1-2=-414/251, 2-3=-286/191, 3-4=-152/129,

4-5=-113/120

1-7=-126/138, 6-7=-126/138, 5-6=-126/138

**WEBS** 3-6=-287/252, 2-7=-341/267

### NOTES

**BOT CHORD** 

- 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) 0-7-9 to 5-4-13, Interior (1) 5-4-13 to 13-3-9 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.

- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 44 lb uplift at joint 5, 124 lb uplift at joint 6 and 154 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





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

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



Truss Type Job Truss Qty Ply Roof - BY Lot 2290 P250398-01 V12 Valley 2

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

Job Reference (optiona Run: 8.63 S Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Thu Jun 16 8:7

DEVELOPMENT SERVICES 174494442 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW

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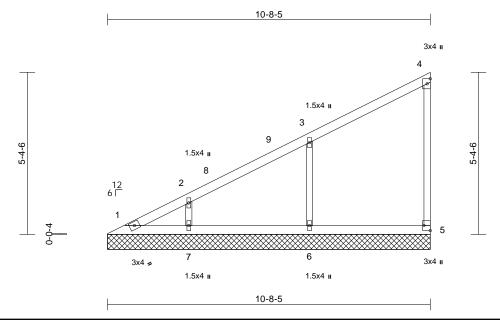


Plate Offsets (X, Y): [5:Edge,0-2-8]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.32	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.13	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: 40 lb	FT = 20%

### LUMBER

Scale = 1:38.2

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

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

bracing.

REACTIONS (size) 1=10-8-5, 5=10-8-5, 6=10-8-5,

7=10-8-5

Max Horiz 1=223 (LC 9)

Max Uplift 5=-37 (LC 9), 6=-137 (LC 12),

7=-103 (LC 12)

1=95 (LC 20), 5=140 (LC 1), 6=404 Max Grav

(LC 1), 7=301 (LC 1)

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

Tension

TOP CHORD 1-2=-377/218, 2-3=-294/184, 3-4=-138/112,

4-5=-108/124

**BOT CHORD** 1-7=-101/111, 6-7=-101/111, 5-6=-101/111

WEBS 3-6=-315/300, 2-7=-233/225

### 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) 0-7-9 to 5-7-9, Interior (1) 5-7-9 to 10-7-9 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.

- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 37 lb uplift at joint 5, 137 lb uplift at joint 6 and 103 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





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

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



Ply Job Truss Truss Type Qty Roof - BY Lot 2290 P250398-01 V13 Valley

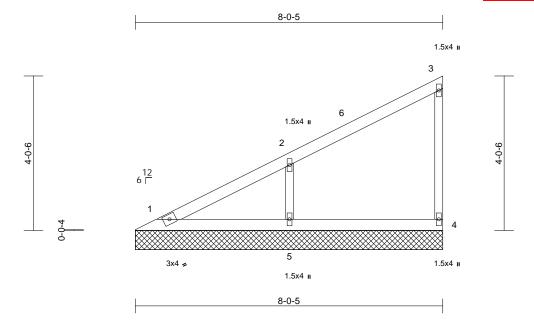
Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083,

Job Reference (optiona Run: 8.63 S Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Thu Jun 76

S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 174494443 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION

ID:4fj5PkMwRkX5crLpAuPLauzlt8f-RfC?PsB70Hq3NSgPqnL8w3uITXbGKW CDoi7J42JC?



Scale = 1:30.	1:30.	=	Scale
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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	0.27	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.14	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.08	Horiz(TL)	0.00	4	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 28 lb	FT = 20%

### LUMBER

2x4 SP No.2 TOP CHORD 2x4 SP No.2 **BOT CHORD** 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=8-0-5, 4=8-0-5, 5=8-0-5

Max Horiz 1=163 (LC 9)

Max Uplift 4=-31 (LC 9), 5=-140 (LC 12) 1=119 (LC 20), 4=136 (LC 1), Max Grav

5=413 (LC 1)

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

Tension

TOP CHORD 1-2=-293/175, 2-3=-128/98, 3-4=-109/135

**BOT CHORD** 1-5=-76/82. 4-5=-76/82 WFBS 2-5=-321/331

### 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) 0-7-9 to 5-7-9, Interior (1) 5-7-9 to 7-11-9 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- All bearings are assumed to be SP No.2 crushing capacity of 565 psi.

- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 31 lb uplift at joint 4 and 140 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





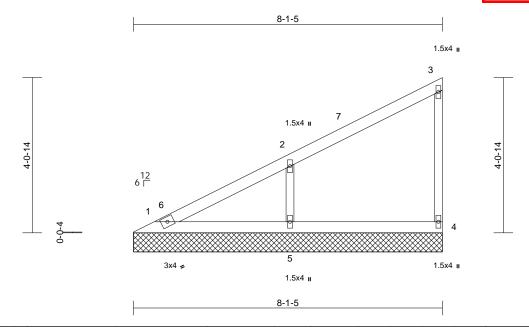
Ply Job Truss Truss Type Qty Roof - BY Lot 2290 P250398-01 V14 Valley Job Reference (optiona

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 174494444 LEE'S SUMMIT. MISSOURI

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

Run: 8.63 S Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Thu Jun 76 ID:4fj5PkMwRkX5crLpAuPLauzlt8f-RfC?PsB70Hq3NSgPqnL8w3uITXbGKW

CDoi7J42JC?



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	0.28	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.14	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.08	Horiz(TL)	0.00	4	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 29 lb	FT = 20%

### LUMBER

TOP CHORD 2x4 SP No.2 2x4 SP No.2 **BOT CHORD** 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=8-1-5, 4=8-1-5, 5=8-1-5

Max Horiz 1=165 (LC 9)

Max Uplift 4=-31 (LC 9), 5=-142 (LC 12) 1=123 (LC 20), 4=136 (LC 1), Max Grav

5=418 (LC 1)

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

Tension

TOP CHORD 1-2=-295/176, 2-3=-129/99, 3-4=-109/135

**BOT CHORD** 1-5=-77/83 4-5=-77/83

2-5=-325/333 WFBS

### 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) 0-7-9 to 5-7-9, Interior (1) 5-7-9 to 8-0-9 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- All bearings are assumed to be SP No.2 crushing capacity of 565 psi.

- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 31 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.





## Center plate on joint unless x Offsets are indicated. Dimensions are in ft-in-sixtee Apply plates to both sides of and fully embed teeth. Symbols Center plate on joint unless x, y

For 4 x 2 orientation, locate Apply plates to both sides of truss Dimensions are in ft-in-sixteenths

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

connector plates.

required direction of slots in This symbol indicates the ₹

edge of truss.

plates 0- 1/16" from outside

### PLATE SIZE

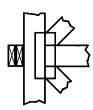
to slots. Second dimension is the length parallel to slots. width measured perpendicular The first dimension is the plate

## LATERAL BRACING LOCATION



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

### **BEARING**



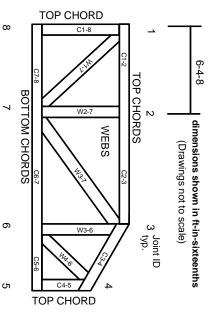
Min size shown is for crushing only number/letter where bearings occur reaction section indicates joint (supports) occur. Icons vary but Indicates location where bearings

### Industry Standards:

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

DSB-22: ANSI/TPI1:

## Numbering System



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

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

# Product Code Approvals

**ICC-ES Reports** 

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

# Design General Notes

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

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

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## Mile

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

# General Safety Notes

## Damage or Personal Injury Failure to Follow Could Cause Property

- Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI
- Ņ 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.

ω

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

'n

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

œ

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

9

- 10. Camber is a non-structural consideration and is the camber for dead load deflection responsibility of truss fabricator. General practice is to
- 11. 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
- Top chords must be sheathed or purlins provided at spacing indicated on design.
- Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
- 15. Connections not shown are the responsibility of others
- Do not cut or alter truss member or plate without prior approval of an engineer.
- Install and load vertically unless indicated otherwise.
- Use of green or treated lumber may pose unacceptable project engineer before use. environmental, health or performance risks. Consult with
- Review all portions of this design (front, back, words is not sufficient. and pictures) before use. Reviewing pictures alone
- 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.