

RE: P240760-01

Roof - HM Lot 208

MiTek, Inc.

16023 Swingley Ridge Rd. Chesterfield, MO 63017

314.434.1200

### Site Information:

Customer: Clayton Properties Project Name: P240760-01 Lot/Block: 208 Model:

Address: 1113 SW Fiord Dr. Subdivision: Highland Meadows

City: Lee's Summit State: MO

# General Truss Engineering Criteria & Design Loads (Individual Truss Design Drawings Show Special **Loading Conditions):**

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

Wind Code: ASCE 7-16 Wind Speed: 115 mph Floor Load: N/A psf Roof Load: 45.0 psf

This package includes 47 individual, dated Truss Design Drawings and 0 Additional Drawings.

No.	Seal#	Truss Name	Date	No.	Seal#	Truss Name	Date
1	165760522	A6	5/22/2024	21	165760542	CG1	5/22/2024
2	165760523	A7	5/22/2024	22	165760543	CG2	5/22/2024
3	165760524	A8	5/22/2024	23	165760544	CG3	5/22/2024
4	165760525	A9	5/22/2024	24	165760545	D1	5/22/2024
5	165760526	A10	5/22/2024	25	165760546	E1	5/22/2024
6	165760527	A11	5/22/2024	26	165760547	E2	5/22/2024
7	165760528	A12	5/22/2024	27	165760548	J1	5/22/2024
8	165760529	A13	5/22/2024	28	165760549	J2	5/22/2024
9	165760530	A14	5/22/2024	29	165760550	J3	5/22/2024
10	165760531	A15	5/22/2024	30	165760551	J4	5/22/2024
11	165760532	A16	5/22/2024	31	165760552	J6	5/22/2024
12	165760533	A17	5/22/2024	32	165760553	J7	5/22/2024
13	165760534	A18	5/22/2024	33	165760554	J8	5/22/2024
14	165760535	B1	5/22/2024	34	165760555	LG1	5/22/2024
15	165760536	B2	5/22/2024	35	165760556	LG2	5/22/2024
16	165760537	B3	5/22/2024	36	165760557	LG3	5/22/2024
17	165760538	B4	5/22/2024	37	165760558	LG4	5/22/2024
18	165760539	C1	5/22/2024	38	165760559	M1	5/22/2024
19	165760540	C2	5/22/2024	39	165760560	M2	5/22/2024
20	165760541	C3	5/22/2024	40	165760561	M3	5/22/2024

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

MiTek USA, Inc under my direct supervision

based on the parameters provided by .

Truss Design Engineer's Name: Nathan Fox

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

Missouri COA: 001193

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







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# **Site Information:**

Project Customer: Clayton Properties Project Name: P240760-01

Lot/Block: 208 Subdivision: Highland Meadows

Lot/Block: 208 Address: 1113 SW Fiord Dr.

City, County: Lee's Summit State: MO

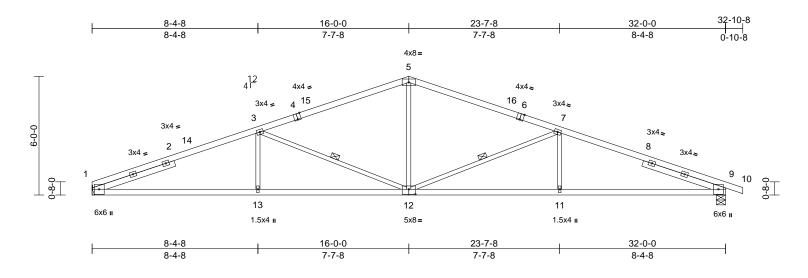
No.	Seal#	Truss Name	Date
41	165760562	M4	5/22/2024
42	165760563	M5	5/22/2024
43	165760564	M6	5/22/2024
44	165760565	M7	5/22/2024
45	165760566	M8	5/22/2024
46	165760567	V1	5/22/2024
47	165760568	V2	5/22/2024

Job	Truss	Truss Type	Qty	Ply	Roof - HM Lot 208
P240760-01	A6	Common	2	1	Job Reference (optional

Run: 8.63 S Apr 26 2024 Print: 8.630 S Apr 26 2024 MiTek Industries, Inc. V ed May 2 ID:gssx3aRENmQB7mKwARHJKMzbfHA-RfC?PsB70Hq3NSgPqnL8w3uITX

GKWrC 1792

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 165760522 LEE'S SUMMIT. MISSOURI



Scale = 1:58.2

Plate Offsets (X, Y): [1:0-3-13,0-1-5], [4:0-2-0,Edge], [6:0-2-0,Edge], [9:0-3-13,0-1-5], [12:0-4-0,0-3-0]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.95	Vert(LL)	-0.21	11-12	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.96	Vert(CT)	-0.42	11-12	>911	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.64	Horz(CT)	0.15	9	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 135 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP 1650F 1.5E \*Except\* 6-10:2x4 SP

No.2 2x4 SP No.2

**BOT CHORD** 2x3 SPF No 2 WFBS

**SLIDER** Left 2x4 SP No.2 -- 4-4-9, Right 2x4 SP No.2

**BRACING** 

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

bracing.

WEBS 1 Row at midpt 7-12, 3-12

**REACTIONS** (size) 1= Mechanical, 9=0-5-8

Max Horiz 1=109 (LC 12)

Max Uplift 1=-252 (LC 8), 9=-293 (LC 9) Max Grav 1=1439 (LC 1), 9=1502 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-3=-3204/749, 3-5=-2272/595,

5-7=-2272/587, 7-9=-3198/727, 9-10=-5/0

**BOT CHORD** 1-13=-612/2929, 11-13=-612/2929,

9-11=-601/2922

**WEBS** 5-12=-128/861, 7-12=-987/306, 7-11=0/333,

3-12=-995/308, 3-13=0/336

### NOTES

- Unbalanced roof live loads have been considered for 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) 0-0-0 to 5-0-0, Interior (1) 5-0-0 to 16-0-0, Exterior(2R) 16-0-0 to 21-0-0, Interior (1) 21-0-0 to 32-10-8 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 9 SP No.2 crushing capacity of 565 psi.
- Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 252 lb uplift at joint 1 and 293 lb uplift at joint 9.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



May 22,2024



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 a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TP11 Quality Criteria, and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcscomponents.com)



Job	Truss	Truss Type	Qty	Ply	Roof - HM Lot 208	
P240760-01	A7	Common	1	1	Job Reference (optional	

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

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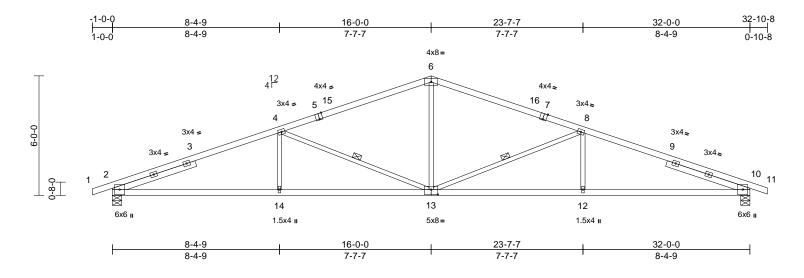


Plate Offsets (X, Y): [2:0-3-13,0-1-5], [5:0-2-0,Edge], [7:0-2-0,Edge], [10:0-3-13,0-1-5], [13:0-4-0,0-3-0]

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	тс	0.95	Vert(LL)	-0.21	13-14	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.95	Vert(CT)	-0.42	13-14	>907	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.63	Horz(CT)	0.15	10	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 136 lb	FT = 20%

LUMBER

2x4 SP 1650F 1.5E \*Except\* 1-5,7-11:2x4 SP TOP CHORD

No.2

**BOT CHORD** 2x4 SP No.2 2x3 SPF No 2 WFBS

**SLIDER** Left 2x4 SP No.2 -- 4-4-10, Right 2x4 SP

No.2 -- 4-4-10

**BRACING** 

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

bracing.

WEBS 1 Row at midpt 8-13, 4-13

**REACTIONS** (size) 2=0-5-8, 10=0-5-8

Max Horiz 2=108 (LC 12)

Max Uplift 2=-299 (LC 8), 10=-293 (LC 9) Max Grav 2=1510 (LC 1), 10=1501 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-2/0, 2-4=-3193/722, 4-6=-2269/585,

6-8=-2269/586, 8-10=-3194/724, 10-11=-5/0

**BOT CHORD** 2-14=-590/2917, 12-14=-593/2918,

10-12=-593/2918

**WEBS** 6-13=-121/858, 8-13=-987/306, 8-12=0/333,

4-13=-985/305, 4-14=0/333

### NOTES

- Unbalanced roof live loads have been considered for 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) -1-0-0 to 4-0-0, Interior (1) 4-0-0 to 16-0-0, Exterior(2R) 16-0-0 to 21-0-0, Interior (1) 21-0-0 to 32-10-8 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 299 lb uplift at joint 2 and 293 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



May 22,2024



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

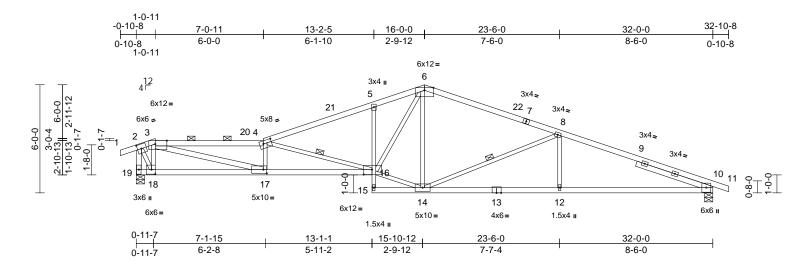
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall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



Job	Truss	Truss Type	Qty	Ply	Roof - HM Lot 208
P240760-01	A8	Roof Special	1	1	Job Reference (optional)

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 165760524 LEE'S SUMMIT. MISSOURI

Run: 8.63 S Apr 26 2024 Print: 8.630 S Apr 26 2024 MiTek Industries, Inc. V ed May 2 ID:5i3VGQhngvxLXrsmLee?8azbfGs-RfC?PsB70Hq3NSgPqnL8w3ulTXbGK VrCDoi7



Scale = 1:63.9

Plate Offsets (X, Y): [2:0-2-11,0-3-0], [3:0-7-12,Edge], [4:0-5-8,0-2-0], [10:0-3-13,0-1-5], [16:0-5-8,0-3-4], [17:0-2-4,0-2-8], [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	0.97	Vert(LL)	-0.39	16-17	>992	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.95	Vert(CT)	-0.72	16-17	>528	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.97	Horz(CT)	0.16	10	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 149 lb	FT = 20%

### LUMBER

TOP CHORD 2x4 SP 1650F 1.5E \*Except\* 1-3,7-11:2x4 SP

No.2

**BOT CHORD** 2x4 SP No.2 \*Except\* 19-16:2x4 SP 1650F

1.5E, 5-15:2x3 SPF No.2

2x3 SPF No.2 \*Except\* 17-3,19-2:2x4 SP WEBS

No 2

Right 2x4 SP No.2 -- 4-5-6 SLIDER

**BRACING** 

TOP CHORD Structural wood sheathing directly applied or

2-2-0 oc purlins, except end verticals, and 2-0-0 oc purlins (2-2-0 max.): 3-4.

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

bracing

WEBS 1 Row at midpt 4-16, 8-14

REACTIONS 10=0-5-8, 19=0-5-8 (size)

Max Horiz 19=-128 (LC 13)

Max Uplift 10=-291 (LC 9), 19=-301 (LC 8)

Max Grav 10=1494 (LC 1), 19=1505 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD

1-2=0/23, 2-3=-836/200, 3-4=-4719/1117,

4-5=-3216/775, 5-6=-3141/838,

6-8=-2228/582, 8-10=-3172/724, 10-11=-5/0,

2-19=-1604/418

**BOT CHORD** 18-19=-31/139, 17-18=-140/897, 16-17=-971/4659, 15-16=-1/4,

5-16=-339/200, 14-15=-35/50

12-14=-596/2898, 10-12=-596/2898

**WEBS** 3-18=-1166/389, 3-17=-916/3962,

4-17=-963/335, 4-16=-1737/431, 6-16=-445/1806, 2-18=-370/1576,

6-14=-260/112, 14-16=-331/2106,

8-12=0/344, 8-14=-992/301

### 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) -0-10-8 to 6-0-11, Interior (1) 6-0-11 to 16-0-0, Exterior(2R) 16-0-0 to 21-0-0, Interior (1) 21-0-0 to 32-10-8 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.
- 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 19 SP 1650F 1.5E crushing capacity of 565 psi, Joint 10 SP No.2 crushing capacity of 565 psi.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 301 lb uplift at joint 19 and 291 lb uplift at joint 10.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 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



May 22,2024

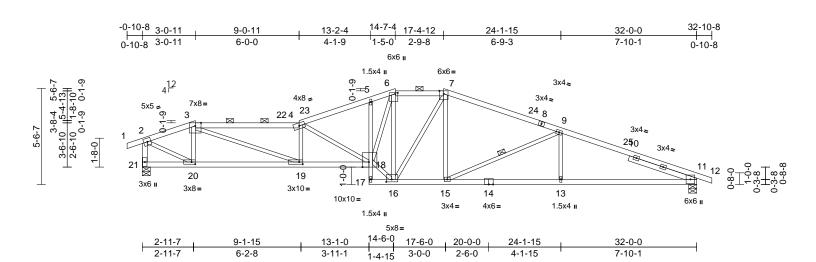




Job	Truss	Truss Type	Qty	Ply	Roof - HM Lot 208	_
P240760-01	A9	Roof Special	1	1	Job Reference (optional	

Run: 8.63 S Apr 26 2024 Print: 8.630 S Apr 26 2024 MiTek Industries, Inc. Ved May DD:dWV724g9vbpUvhHanx7mcMzbfGt-RfC?PsB70Hq3NSgPqnL8w3ulTXbG WrCDolw42se ff

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 165760525 LEE'S SUMMIT. MISSOURI



#### Scale = 1:66.5

Plate Offsets (X, Y): [6:0-0-12,0-1-12], [11:0-3-13,0-1-5], [16:0-3-12,0-1-12], [18:0-4-8,Edge], [19:0-2-8,0-1-8], [20:0-2-8,0-1-8]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.90	Vert(LL)	-0.31	18-19	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.90	Vert(CT)	-0.57	18-19	>669	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.96	Horz(CT)	0.16	11	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 151 lb	FT = 20%

### LUMBER

TOP CHORD 2x4 SP No.2 \*Except\* 3-4,7-8:2x4 SP 1650F

1.5E

**BOT CHORD** 2x4 SP No.2 \*Except\* 21-18:2x4 SP 1650F

1.5E, 5-17:2x3 SPF No.2

2x3 SPF No.2 \*Except\* 21-2:2x4 SP No.2 **WEBS SLIDER** 

Right 2x4 SP No.2 -- 4-1-3

**BRACING** TOP CHORD

**WEBS** 

TOP CHORD

Structural wood sheathing directly applied or

2-11-8 oc purlins, except end verticals, and 2-0-0 oc purlins (2-2-0 max.): 3-4, 6-7.

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

bracing.

1 Row at midpt 9-15

REACTIONS (size) 11=0-5-8, 21=0-5-8

Max Horiz 21=-118 (LC 13)

Max Uplift 11=-299 (LC 9), 21=-311 (LC 8)

Max Grav 11=1494 (LC 1), 21=1505 (LC 1)

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

1-2=0/23, 2-3=-1764/473, 3-4=-4011/1062,

4-5=-3149/856, 5-6=-3037/871,

6-7=-2194/678, 7-9=-2417/685,

9-11=-3194/794, 11-12=-5/0, 2-21=-1497/476 20-21=-44/129, 19-20=-335/1692,

BOT CHORD 18-19=-898/3976, 17-18=-10/13,

5-18=-44/98, 16-17=-33/130,

15-16=-465/2219, 13-15=-667/2917,

11-13=-667/2917

WEBS 3-20=-704/272, 3-19=-617/2481,

4-19=-786/294, 4-18=-1204/322, 16-18=-519/2560, 6-18=-545/2297,

6-16=-1434/324, 7-16=-241/170,

7-15=-43/419, 9-15=-806/261, 9-13=0/311,

2-20=-464/1834

### NOTES

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

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-10-8 to 3-0-11, Exterior(2R) 3-0-11 to 8-0-11, Interior (1) 8-0-11 to 14-7-4, Exterior(2E) 14-7-4 to 17-4-12, Exterior(2R) 17-4-12 to 22-4-12, Interior (1) 22-4-12 to 32-10-8 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.
- 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 21 SP 1650F 1.5E crushing capacity of 565 psi, Joint 11 SP No.2 crushing capacity of 565 psi.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 311 lb uplift at joint 21 and 299 lb uplift at joint 11.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 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



May 22,2024

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



Job	Truss	Truss Type	Qty	Ply	Roof - HM Lot 208	Ī
P240760-01	A10	Roof Special	1	1	Job Reference (optional	

LEE'S SUMMIT. MISSOURI ed May 2107; VrCDoi7 42J Run: 8.63 S Apr 26 2024 Print: 8.630 S Apr 26 2024 MiTek Industries, Inc. V ed May 22 ID:8JxkrkfW8IhdHXiODDcX39zbfGu-RfC?PsB70Hq3NSgPqnL8w3uITXbGK\

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 165760526

-0-10-8 12-7-4 14-7-4 32-10-8 5-0-11 11-0-11 17-0-0 23-5-7 32-0-0 1-5-0 5-0-11 1-6-9 6-0-0 2-4-12 6-5-7 8-6-9 0-10-8 0-10-8 0-7-0 5x8 4 4x6 II 1.5x4 ı 8 3x4 s 4x6 = 6x6 =6x6= 5 6 3x4≥ တု <sub>-23</sub> 3 <sup>--</sup>244 25 <sub>9</sub> 10 3x4> 2 11 3x4≥ 22 21 ò 20 3x6 II 3x8= 15 17 14 5x8= 7x8= 4x8 =4x6 =1.5x4 II 8x8= 3x4 II 16-10-12 13-1-0 14-8-8 4-11-7 11-1-15 20-0-0 23-5-7 32-0-0

Plate Offsets (X, Y): [2:0-3-0,0-2-0], [7:0-4-0,0-1-8], [12:0-3-13,0-1-5], [17:0-2-8,Edge], [19:0-2-4,0-3-4], [21:0-2-8,0-1-8]

6-2-8

4-11-7

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	0.82	Vert(LL)	-0.27	19-20	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.96	Vert(CT)	-0.49	19-20	>784	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.99	Horz(CT)	0.14	12	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 155 lb	FT = 20%

1-7-7

1-11-1

2-2-4

3-1-4

3-5-7

8-6-9

### LUMBER

TOP CHORD 2x4 SP No.2 \*Except\* 3-4:2x4 SP 1650F

1.5E

**BOT CHORD** 2x4 SP No.2 \*Except\* 6-18:2x3 SPF No.2 2x3 SPF No.2 \*Except\* 22-2:2x4 SP No.2 WFBS **SLIDER** 

Right 2x4 SP No.2 -- 4-5-11

**BRACING** 

TOP CHORD Structural wood sheathing directly applied or

2-2-0 oc purlins, except end verticals, and 2-0-0 oc purlins (2-8-10 max.): 3-4, 5-7.

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

bracing. WEBS

1 Row at midpt 10-16 REACTIONS (size) 12=0-5-8, 22=0-5-8

Max Horiz 22=-122 (LC 13)

Max Uplift 12=-277 (LC 9), 22=-308 (LC 8)

Max Grav 12=1494 (LC 1), 22=1505 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

1-2=0/23. 2-3=-2172/594. 3-4=-3482/969.

TOP CHORD 4-5=-3605/1013, 5-6=-3154/896,

6-7=-3145/896, 7-8=-2295/693,

8-10=-2325/666, 10-12=-3154/779,

12-13=-5/0, 2-22=-1459/498

**BOT CHORD** 21-22=-32/164, 20-21=-424/2032 19-20=-693/3141, 18-19=0/35, 6-19=0/44,

17-18=-26/143, 16-17=-553/2511, 14-16=-648/2878, 12-14=-648/2878

**WEBS** 3-21=-445/212, 3-20=-408/1614,

4-20=-1295/440, 17-19=-640/2877,

7-19=-361/1588, 7-17=-1540/355, 2-21=-485/1991, 8-16=-267/1137,

7-16=-785/251, 10-14=0/332,

10-16=-886/269, 5-20=-212/765,

5-19=-64/151

### NOTES

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

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-10-8 to 4-1-8, Interior (1) 4-1-8 to 5-0-11, Exterior(2R) 5-0-11 to 10-0-11, Interior (1) 10-0-11 to 12-7-4, Exterior(2E) 12-7-4 to 14-7-4, Interior (1) 14-7-4 to 17-0-0, Exterior (2R) 17-0-0 to 22-0-0, Interior (1) 22-0-0 to 32-10-8 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.
- 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 308 lb uplift at joint 22 and 277 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.
- 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



May 22,2024



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

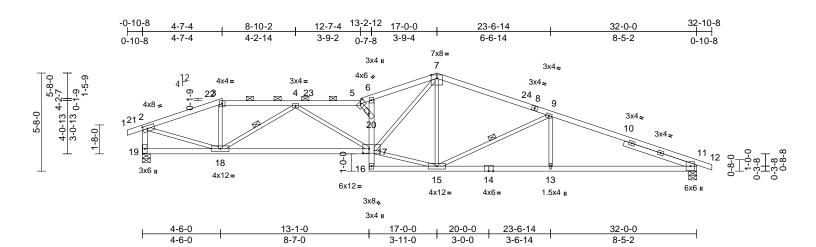
Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not



Job	Truss	Truss Type	Qty	Ply	Roof - HM Lot 208	
P240760-01	A11	Roof Special	1	1	Job Reference (optional	

LEE'S SUMMIT. MISSOURI Run: 8.63 S Apr 26 2024 Print: 8.630 S Apr 26 2024 MiTek Industries, Inc. V ed May 2 /rCDoi7 JJ J ID:8JxkrkfW8IhdHXiODDcX39zbfGu-RfC?PsB70Hq3NSgPqnL8w3uITXbGK\

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 165760527



#### Scale = 1:66.5

Plate Offsets (X, Y): [2:0-3-0,0-2-0], [5:0-3-0,0-1-8], [11:0-3-13,0-1-5], [17:0-4-4,0-3-0]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.95	Vert(LL)	-0.30	20	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.96	Vert(CT)	-0.60	17-18	>640	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.69	Horz(CT)	0.15	11	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 148 lb	FT = 20%

### LUMBER

TOP CHORD 2x4 SP No.2

2x4 SP 1650F 1.5E \*Except\* 16-14,14-11:2x4 BOT CHORD

SP No.2

WFBS 2x3 SPF No.2 \*Except\* 19-2:2x4 SP No.2 **SLIDER** 

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

**BRACING** 

TOP CHORD Structural wood sheathing directly applied,

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

(2-4-7 max.): 3-5.

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

bracing

WEBS 1 Row at midpt 4-18, 9-15

REACTIONS (size) 11=0-5-8, 19=0-5-8

Max Horiz 19=-122 (LC 13)

Max Uplift 11=-278 (LC 9), 19=-308 (LC 8)

Max Grav 11=1494 (LC 1), 19=1505 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

1-2=0/23, 2-3=-2106/527, 3-4=-1944/527,

TOP CHORD 4-5=-3876/974, 5-6=-3197/800,

6-7=-3693/971, 7-9=-2338/629,

9-11=-3163/746, 11-12=-5/0, 2-19=-1478/468

**BOT CHORD** 18-19=-36/148, 17-18=-733/3257, 16-17=0/61, 17-20=-1342/425,

6-20=-238/157, 15-16=-136/420

13-15=-618/2887, 11-13=-618/2887

**WEBS** 3-18=-16/388, 7-17=-483/2019, 2-18=-423/1962, 7-15=-100/148

15-17=-273/1784, 4-18=-1561/449,

4-17=-113/729, 9-13=0/325, 9-15=-884/271, 5-20=-1428/364

### 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 4-7-4, Exterior(2R) 4-7-4 to 9-7-4, Interior (1) 9-7-4 to 17-0-0, Exterior(2R) 17-0-0 to 22-0-0, Interior (1) 22-0-0 to 32-10-8 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.
- 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 19 SP 1650F 1.5E crushing capacity of 565 psi, Joint 11 SP No.2 crushing capacity of 565 psi.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 308 lb uplift at joint 19 and 278 lb uplift at joint 11.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 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



May 22,2024



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

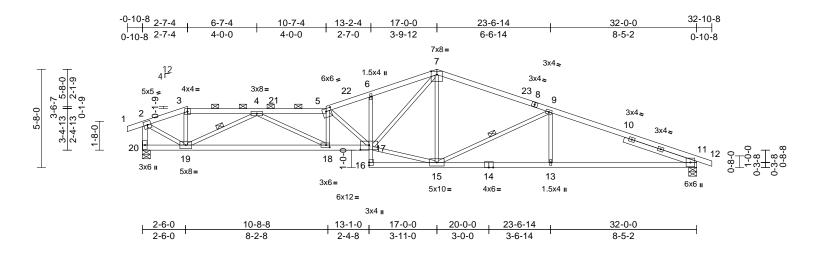
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not



Job	Truss	Truss Type	Qty	Ply	Roof - HM Lot 208	Ī
P240760-01	A12	Roof Special	1	1	Job Reference (optional	

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RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 165760528 LEE'S SUMMIT. MISSOURI



#### Scale = 1:66.5

Plate Offsets (X, Y): [5:0-3-8,0-2-0], [11:0-3-13,0-1-5], [17:0-6-0,0-3-4], [18:0-2-8,0-1-8]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.93	Vert(LL)	-0.34	17-18	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.96	Vert(CT)	-0.62	17-18	>616	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.72	Horz(CT)	0.17	11	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 146 lb	FT = 20%

### LUMBER

TOP CHORD 2x4 SP No.2

**BOT CHORD** 2x4 SP No.2 \*Except\* 20-17:2x4 SP 1650F

1.5E. 6-16:2x3 SPF No.2

WFBS 2x3 SPF No.2 \*Except\* 20-2:2x4 SP No.2

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

**BRACING** 

TOP CHORD

TOP CHORD Structural wood sheathing directly applied,

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

(2-2-0 max.): 3-5.

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

bracing.

WEBS 1 Row at midpt 4-19, 9-15

REACTIONS (size) 11=0-5-8, 20=0-5-8

Max Horiz 20=-122 (LC 13)

Max Uplift 11=-280 (LC 9), 20=-308 (LC 8)

Max Grav 11=1494 (LC 1), 20=1505 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

1-2=0/23, 2-3=-1599/374, 3-4=-1491/372,

4-5=-4666/1088, 5-6=-3781/926,

6-7=-3737/973, 7-9=-2340/614, 9-11=-3162/730, 11-12=-5/0, 2-20=-1517/431

**BOT CHORD** 19-20=-48/127, 18-19=-768/3475,

17-18=-935/4641, 16-17=0/60,

6-17=-161/126, 15-16=-19/152,

13-15=-603/2886, 11-13=-603/2886 3-19=-14/285, 5-18=-465/197,

**WEBS** 5-17=-1437/301, 7-17=-517/2091,

2-19=-368/1728, 7-15=-148/113,

15-17=-377/2062, 4-18=-230/1337,

4-19=-2233/609, 9-13=0/325, 9-15=-881/270

### 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 2-7-4, Exterior(2R) 2-7-4 to 7-7-4, Interior (1) 7-7-4 to 17-0-0, Exterior(2R) 17-0-0 to 22-0-0, Interior (1) 22-0-0 to 32-10-8 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.
- 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 20 SP 1650F 1.5E crushing capacity of 565 psi, Joint 11 SP No.2 crushing
- capacity of 565 psi. Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 308 lb uplift at
- joint 20 and 280 lb uplift at joint 11. This truss is designed in accordance with the 2018
- International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 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

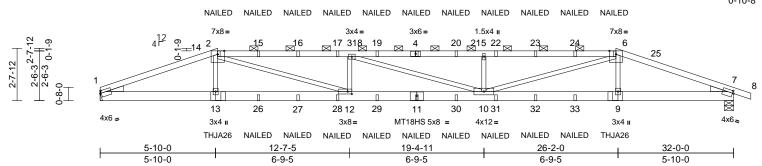


Job	Truss	Truss Type	Qty	Ply	Roof - HM Lot 208
P240760-01	A13	Hip Girder	1	2	Job Reference (optional

DEVELOPMENT SERVICES 165760529 LEE'S SUMMIT. MISSOURI Run: 8.63 S Apr 26 2024 Print: 8.630 S Apr 26 2024 MiTek Industries, Inc. V ed May 2 ID:5WIMACiUD2Mhm3xCiduR6AzEAIj-RfC?PsB70Hq3NSgPqnL8w3uITXbGkWrCDolly449

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

12-7-5 26-0-12 32-0-0 5-11-4 19-4-11 5-11-4 6-8-1 6-9-5 6-8-1 5-11-4 0-10-8 NAILED 7x8= 3x4= 3x6= 1.5x4 II 7x8=



Scale = 1:58.2

Plate Offsets (X, Y): [1:0-0-11,0-1-8], [7:0-0-11,0-1-8], [12:0-2-8,0-1-8]

Loading	(psf)	Spacing	2-0-0	csı		DEFL	in	(loc)	I/defl	I /d	PLATES	GRIP
-	· · · ·	-						( /			_	
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.97	Vert(LL)	-0.43	10-12	>895	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.50	Vert(CT)	-0.77	10-12	>496	180	MT18HS	244/190
BCLL	0.0	Rep Stress Incr	NO	WB	0.71	Horz(CT)	0.09	7	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 300 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2 \*Except\* 2-4,4-6:2x4 SP 2400F

2.0E

**BOT CHORD** 2x6 SP 2400F 2 0F 2x3 SPF No 2 WFBS WEDGE Left: 2x4 SP No.3

**BRACING** 

TOP CHORD Structural wood sheathing directly applied or

3-11-4 oc purlins, except

2-0-0 oc purlins (4-2-2 max.): 2-6 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc

bracing.

REACTIONS (size) 1= Mechanical, 7=0-5-8

Right: 2x4 SP No.3

Max Horiz 1=-42 (LC 17)

Max Uplift 1=-745 (LC 8), 7=-801 (LC 9) Max Grav 1=2734 (LC 1), 7=2828 (LC 1)

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

Tension

TOP CHORD 1-2=-7218/2111. 2-3=-10500/3088. 3-5=-10383/3013, 5-6=-10388/3016,

6-7=-7107/2041, 7-8=0/1

**BOT CHORD** 1-13=-1902/6697. 12-13=-1900/6666

10-12=-2965/10495, 9-10=-1829/6534,

7-9=-1831/6566

2-13=-24/685, 2-12=-1154/4135,

3-12=-1048/532, 3-10=-176/76,

5-10=-1049/544, 6-10=-1156/4146,

6-9=-41/699

### NOTES

WFBS

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: 2x6 - 2 rows staggered at 0-9-0 oc.

Web connected as follows: 2x3 - 1 row at 0-9-0 oc.

- All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- 3) Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-0-12 to 5-0-12, Interior (1) 5-0-12 to 5-11-4, Exterior(2R) 5-11-4 to 13-0-2, Interior (1) 13-0-2 to 26-0-12, Exterior(2E) 26-0-12 to 32-10-8 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 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 7 SP 2400F 2.0E crushing capacity of 805 psi.
- Refer to girder(s) for truss to truss connections.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 745 lb uplift at joint 1 and 801 lb uplift at joint 7.
- 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.
- 13) Use Simpson Strong-Tie THJA26 (THJA26 on 2 ply, Left Hand Hip) or equivalent at 5-11-10 from the left end to connect truss(es) to front face of bottom chord.
- 14) Use Simpson Strong-Tie THJA26 (THJA26 on 2 ply, Right Hand Hip) or equivalent at 26-0-6 from the left end to connect truss(es) to front face of bottom chord.

15) Fill all nail holes where hanger is in contact with lumber

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW

16) "NAILED" indicates Girder: 3-10d (0.148" x 3") toe-nails per NDS guidelines.

# LOAD CASE(S) Standard

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

Uniform Loads (lb/ft)

Vert: 1-2=-70, 2-6=-70, 6-8=-70, 1-7=-20

### Concentrated Loads (lb)

Vert: 2=-131 (F), 4=-131 (F), 11=-39 (F), 13=-420 (F), 6=-131 (F), 9=-420 (F), 15=-131 (F), 16=-131 (F), 17=-131 (F), 19=-131 (F), 20=-131 (F), 22=-131 (F), 23=-131 (F), 24=-131 (F), 26=-39 (F), 27=-39 (F), 28=-39 (F), 29=-39 (F), 30=-39 (F), 31=-39 (F), 32=-39 (F), 33=-39 (F)





🔼 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

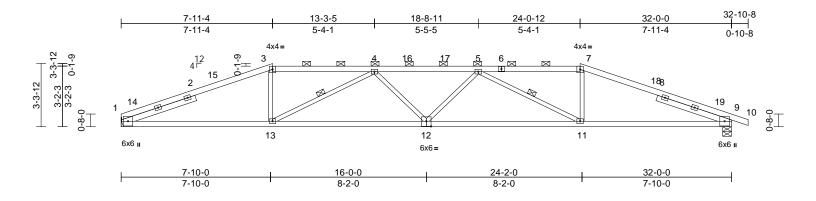


Job	Truss	Truss Type	Qty	Ply	Roof - HM Lot 208
P240760-01	A14	Hip	1	1	Job Reference (optional)

Run: 8.63 S Apr 26 2024 Print: 8.630 S Apr 26 2024 MiTek Industries, Inc. V ed May 2

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 165760530 LEE'S SUMMIT. MISSOURI

rCDoi7J42JC ID:oANjipc5suUgR\_vsnfGoJhzEAIq-RfC?PsB70Hq3NSgPqnL8w3uITXbGKV



#### Scale = 1:60.4

Plate Offsets (X, Y): [1:0-3-0,0-1-5], [9:0-3-13,0-1-5], [12:0-3-0,0-3-4]

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	0.81	Vert(LL)	-0.32	12	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.74	Vert(CT)	-0.61	11-12	>629	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.48	Horz(CT)	0.17	9	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 130 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP 2400F 2.0E \*Except\* 3-6,6-7:2x4 SP

No.2

**BOT CHORD** 2x4 SP 1650F 1.5E 2x3 SPF No 2 WFBS

**SLIDER** Left 2x4 SP No.2 -- 4-1-2, Right 2x4 SP No.2

-- 4-1-2

**BRACING** 

Structural wood sheathing directly applied or TOP CHORD

3-4-5 oc purlins, except

2-0-0 oc purlins (2-5-10 max.): 3-7. BOT CHORD Rigid ceiling directly applied or 7-4-5 oc

bracing.

1 Row at midpt 4-13. 5-11

WFBS REACTIONS (size) 1= Mechanical, 9=0-5-8

Max Horiz 1=57 (LC 16)

Max Uplift 1=-299 (LC 8), 9=-340 (LC 9)

Max Grav 1=1439 (LC 1), 9=1502 (LC 1)

**FORCES** 

TOP CHORD

(lb) - Maximum Compression/Maximum

Tension

1-3=-3244/833, 3-4=-2945/826,

4-5=-3980/1026, 5-7=-2938/801,

7-9=-3240/810. 9-10=-5/0

**BOT CHORD** 1-13=-682/2967, 11-13=-951/3908,

9-11=-664/2962

**WEBS** 3-13=-51/733, 7-11=-53/735, 4-12=0/225,

4-13=-1225/322, 5-12=0/219,

5-11=-1235/325

### NOTES

Unbalanced roof live loads have been considered for

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-0-0 to 5-0-0, Interior (1) 5-0-0 to 7-11-4, Exterior(2R) 7-11-4 to 15-0-2, Interior (1) 15-0-2 to 24-0-12, Exterior(2R) 24-0-12 to 31-1-10, Interior (1) 31-1-10 to 32-10-8 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.
- 4) 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 9 SP 1650F 1.5E 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 299 lb uplift at joint 1 and 340 lb uplift at joint 9.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 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



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

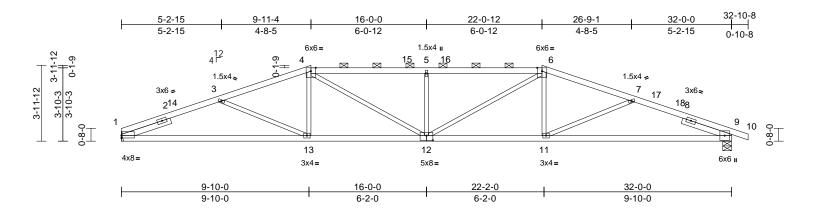
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not



Job	Truss	Truss Type	Qty	Ply	Roof - HM Lot 208
P240760-01	A15	Hip	1	1	Job Reference (optional)

LEE'S SUMMIT. MISSOURI ID:oANjipc5suUgR\_vsnfGoJhzEAIq-RfC?PsB70Hq3NSgPqnL8w3uITXbGKV

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 165760531



Scale = 1:60.4

Plate Offsets (X, Y): [1:Edge,0-1-8], [9:0-3-13,0-1-5], [12:0-4-0,0-3-0]

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	0.97	Vert(LL)	-0.27	12	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.72	Vert(CT)	-0.57	1-13	>674	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.28	Horz(CT)	0.14	9	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 134 lb	FT = 20%

LUMBER

**BRACING** 

2x4 SP No.2 \*Except\* 1-4:2x4 SP 1650F TOP CHORD

1.5E

**BOT CHORD** 2x4 SP 1650F 1.5E 2x3 SPF No 2 WFBS

**SLIDER** Left 2x4 SP No.2 -- 2-8-8, Right 2x4 SP No.2

-- 2-8-8

TOP CHORD Structural wood sheathing directly applied,

except

2-0-0 oc purlins (2-2-0 max.): 4-6. BOT CHORD Rigid ceiling directly applied or 7-10-7 oc

bracing.

REACTIONS (size) 1= Mechanical, 9=0-5-8

Max Horiz 1=70 (LC 16)

Max Uplift 1=-290 (LC 8), 9=-331 (LC 9)

Max Grav 1=1439 (LC 1), 9=1502 (LC 1)

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

Tension

1-3=-3205/923, 3-4=-2970/801, TOP CHORD

4-5=-3306/966, 5-6=-3306/966,

6-7=-2966/791, 7-9=-3198/925, 9-10=-5/0

**BOT CHORD** 1-13=-802/2910, 11-13=-618/2790,

9-11=-800/2902

**WEBS** 4-13=0/344, 4-12=-224/752, 5-12=-533/261,

6-12=-225/755, 6-11=0/343, 3-13=-154/232,

7-11=-149/229

## NOTES

Unbalanced roof live loads have been considered for this design.

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-0-0 to 5-0-9, Interior (1) 5-0-9 to 9-11-4, Exterior(2R) 9-11-4 to 17-0-2, Interior (1) 17-0-2 to 22-0-12, Exterior(2R) 22-0-12 to 29-1-10, Interior (1) 29-1-10 to 32-10-8 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.
- 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 1650F 1.5E 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 290 lb uplift at joint 1 and 331 lb uplift at joint 9.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 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



May 22,2024



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

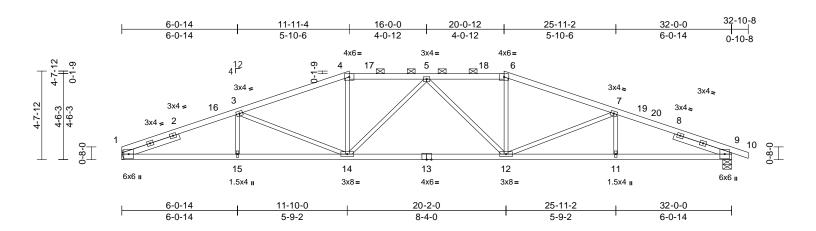


Job	Truss	Truss Type	Qty	Ply	Roof - HM Lot 208	
P240760-01	A16	Hip	1	1	Job Reference (optional	

Run: 8.63 S Apr 26 2024 Print: 8.630 S Apr 26 2024 MiTek Industries, Inc. Ved May 2 ID:GMw5v9djdCcX28U2LMn1svzEAlp-RfC?PsB70Hq3NSgPqnL8w3ulTXbG (WrCDoil 4294)

S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 165760532 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION



Scale = 1:60.5

Plate Offsets (X, Y):	[1:0-3-0,0-1-5], [9:0-3-13,0-1-5]
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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	0.68	Vert(LL)	-0.23	12-14	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.87	Vert(CT)	-0.51	12-14	>757	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.47	Horz(CT)	0.15	9	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 137 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP 1650F 1.5E \*Except\* 4-6:2x4 SP

No.2

**BOT CHORD** 2x4 SP No.2 2x3 SPF No 2 WFBS

**SLIDER** Left 2x4 SP No.2 -- 3-2-0, Right 2x4 SP No.2

-- 3-2-0

**BRACING** 

TOP CHORD

TOP CHORD Structural wood sheathing directly applied or

2-10-9 oc purlins, except

2-0-0 oc purlins (3-6-3 max.): 4-6. BOT CHORD Rigid ceiling directly applied or 6-8-1 oc

bracing.

REACTIONS (size) 1= Mechanical, 9=0-5-8

Max Horiz 1=82 (LC 12)

Max Uplift 1=-279 (LC 8), 9=-320 (LC 9)

Max Grav 1=1439 (LC 1), 9=1502 (LC 1)

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

Tension

1-3=-3281/886. 3-4=-2759/782.

4-5=-2559/778, 5-6=-2557/786,

6-7=-2745/790, 7-9=-3271/893, 9-10=-5/0

**BOT CHORD** 1-15=-768/2983. 14-15=-768/2983.

12-14=-665/2722, 11-12=-771/2974

9-11=-771/2974

3-15=0/210, 3-14=-490/221, 4-14=-88/498,

6-12=-82/497, 7-12=-482/219, 7-11=0/208,

5-12=-407/153, 5-14=-405/152

### NOTES

WFBS

1) Unbalanced roof live loads have been considered for

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-0-0 to 5-0-0, Interior (1) 5-0-0 to 11-11-4, Exterior(2R) 11-11-4 to 19-0-2, Interior (1) 19-0-2 to 20-0-12, Exterior(2R) 20-0-12 to 27-1-10, Interior (1) 27-1-10 to 32-10-8 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.
- 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.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 279 lb uplift at joint 1 and 320 lb uplift at joint 9.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 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



May 22,2024



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

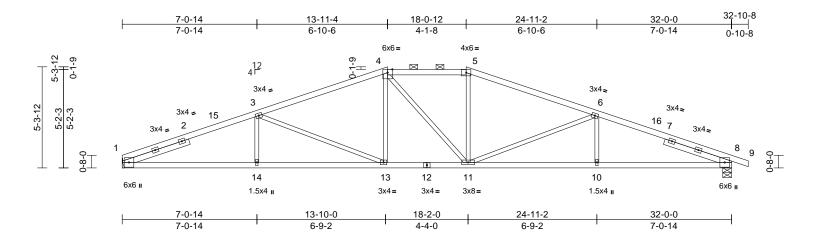


Job	Truss	Truss Type	Qty	Ply	Roof - HM Lot 208	
P240760-01	A17	Hip	1	1	Job Reference (optional	

ID:GMw5v9djdCcX28U2LMn1svzEAlp-RfC?PsB70Hq3NSgPqnL8w3ulTXbG WrCDolw429 ft

DEVELOPMENT SERVICES 165760533 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW



Scale = 1:60.5

Plate Offsets (X, Y)	): [1:0-3-0	),0-1-5], [8:0-	3-13,0-1-5]
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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	0.79	Vert(LL)	-0.22	13-14	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.86	Vert(CT)	-0.44	13-14	>881	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.99	Horz(CT)	0.15	8	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 138 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP 1650F 1.5E \*Except\* 4-5:2x4 SP

No.2

**BOT CHORD** 2x4 SP No.2 2x3 SPF No 2 WFBS

**SLIDER** Left 2x4 SP No.2 -- 3-8-5, Right 2x4 SP No.2

-- 3-8-5

**BRACING** 

Structural wood sheathing directly applied or TOP CHORD

2-2-0 oc purlins, except

2-0-0 oc purlins (3-7-7 max.): 4-5. BOT CHORD Rigid ceiling directly applied or 6-9-12 oc

bracing.

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

Max Horiz 1=95 (LC 12)

Max Uplift 1=-267 (LC 8), 8=-308 (LC 9)

Max Grav 1=1439 (LC 1), 8=1502 (LC 1)

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

Tension

TOP CHORD 1-3=-3263/851, 3-4=-2525/729,

4-5=-2323/745, 5-6=-2525/739,

6-8=-3256/862, 8-9=-5/0 **BOT CHORD** 

1-14=-718/2986, 13-14=-718/2986

11-13=-498/2322, 10-11=-737/2978,

8-10=-737/2978 3-14=0/292, 3-13=-754/257, 4-13=-34/392,

4-11=-222/224, 5-11=-46/386, 6-11=-746/255,

6-10=0/289

# NOTES

WFBS

1) Unbalanced roof live loads have been considered for

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-0-0 to 5-0-0, Interior (1) 5-0-0 to 13-11-4, Exterior(2E) 13-11-4 to 18-0-12, Exterior(2R) 18-0-12 to 24-11-2, Interior (1) 24-11-2 to 32-10-8 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.
- 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 8 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 267 lb uplift at joint 1 and 308 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.
- 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



May 22,2024



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

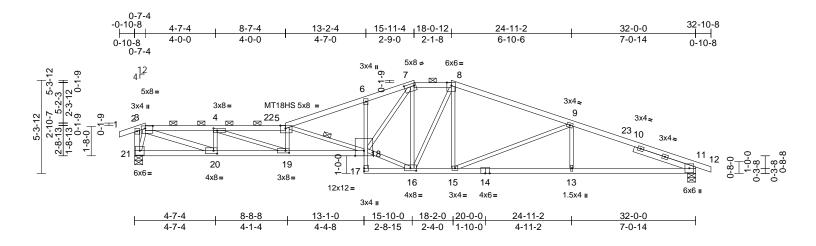


Job	Truss	Truss Type	Qty	Ply	Roof - HM Lot 208
P240760-01	A18	Roof Special	1	1	Job Reference (optional

Run: 8.63 S Apr 26 2024 Print: 8.630 S Apr 26 2024 MiTek Industries, Inc. V ed May DID:kZUT7VeLOWkOgl3Fv4IGP6zEAlo-RfC?PsB70Hq3NSgPqnL8w3ulTXbG (WrCDolw42se+f

eference (optional LEE'S SUMMIT, MISSOURI iTek Industries, Inc. V ed May 207:106/29:24

AS NOTED FOR PLAN REVIEW
DEVELOPMENT SERVICES
165760534



Scale = 1:65.7

Plate Offsets (X, Y): [3:0-5-4,0-1-12], [4:0-2-8,0-1-8], [5:0-3-8,0-2-0], [7:0-6-12,0-1-12], [11:0-3-13,0-1-5], [16:0-4-0,0-1-12], [19:0-2-8,0-1-8], [20:0-2-8,0-2-0]

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	0.76	Vert(LL)	-0.45	18-19	>853	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.85	Vert(CT)	-0.82	18-19	>468	180	MT18HS	197/144
BCLL	0.0	Rep Stress Incr	YES	WB	1.00	Horz(CT)	0.17	11	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 152 lb	FT = 20%

### LUMBER

**BOT CHORD** 

TOP CHORD 2x4 SP No.2 \*Except\* 3-5,8-12:2x4 SP

1650F 1.5E

2x4 SP No.2 \*Except\* 21-18:2x4 SP 2400F

2.0E, 6-17:2x3 SPF No.2

WEBS 2x3 SPF No.2 \*Except\* 21-2:2x4 SP 1650F

1.5E, 20-3:2x4 SP No.2

SLIDER Right 2x4 SP No.2 -- 3-8-5

BRACING

WEBS

TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals, and

2-0-0 oc purlins (2-5-8 max.): 3-5, 7-8.

BOT CHORD Rigid co

Rigid ceiling directly applied or 6-11-2 oc bracing.

bracing

1 Row at midpt 5-18

**REACTIONS** (size) 11=0-5-8, 21=0-5-8 Max Horiz 21=-114 (LC 13)

Max Uplift 11=-291 (LC 9), 21=-316 (LC 8)

Max Grav 11=1494 (LC 1), 21=1505 (LC 1)

FORCES (Ib) - Maximum Compression/Maximum Tension

Tension 1-2=0/23, 2-3=-90/58, 3-4=-3829/1044,

TOP CHORD 1-2=0/23

4-5=-5859/1522, 5-6=-3835/1015,

6-7=-3763/1061, 7-8=-2302/708,

8-9=-2506/712, 9-11=-3234/837, 11-12=-5/0, 2-21=-159/112

BOT CHORD 20-21=-70/466, 19-20=-921/3827,

18-19=-1382/5809, 17-18=0/58, 6-18=-192/164, 16-17=-31/104,

15-16=-495/2305, 13-15=-714/2957, 11-13=-714/2957

WEBS 5-19=-683/257, 5-18=-2334/616,

16-18=-482/2332, 7-18=-585/2228, 7-16=-816/216, 8-16=-218/207,

8-15=-30/395, 9-15=-760/252, 9-13=0/288, 4-19=-562/2151, 4-20=-1165/396,

3-20=-973/3591, 3-21=-1347/405

Unbalanced roof live loads have been considered for

- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-10-8 to 7-8-2, Interior (1) 7-8-2 to 15-11-4, Exterior(2E) 15-11-4 to 18-0-12, Exterior(2R) 18-0-12 to 24-11-2, Interior (1) 24-11-2 to 32-10-8 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.
- 4) 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 21 SP 2400F 2.0E crushing capacity of 805 psi, Joint 11 SP No.2 crushing capacity of 565 psi.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 291 lb uplift at joint 11 and 316 lb uplift at joint 21.
- 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



NOTES





Job	Truss	Truss Type	Qty	Ply	Roof - HM Lot 208	
P240760-01	B1	Hip Girder	1	2	Job Reference (optional	

AS NOTED FOR PLAN REVIEW

DEVELOPMENT SERVICES
165760535

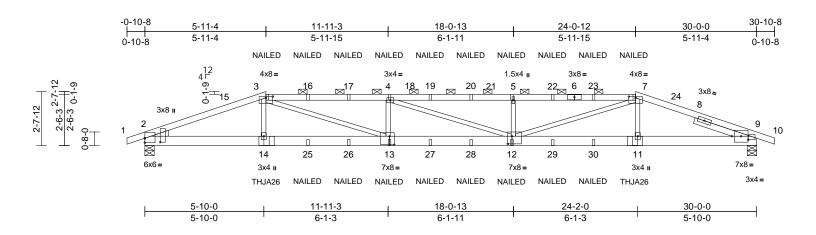
LEE'S SUMMIT, MISSOURI

RELEASE FOR CONSTRUCTION

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

Run: 8.63 S Apr 26 2024 Print: 8.630 S Apr 26 2024 MiTek Industries, Inc. V ed May 2127 106/2924

ID:kZUT7VeLOWkOgl3Fv4IGP6zEAlo-RfC?PsB70Hq3NSgPqnL8w3ulTXbG wrCDoil 422 ft



#### Scale = 1:56.5

Plate Offsets (X, Y): [2:Edge,0-2-10], [2:0-2-5,0-9-1], [3:0-4-0,0-0-12], [7:0-4-0,0-0-12], [9:0-1-9,0-3-8], [9:0-9-10,0-2-2], [12:0-2-8,0-4-8], [13:0-2-12,0-5-0]

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	0.93	Vert(LL)	-0.34	12-13	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.97	Vert(CT)	-0.61	12-13	>584	180		
BCLL	0.0	Rep Stress Incr	NO	WB	0.63	Horz(CT)	0.09	9	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 264 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP 2400F 2.0E

BOT CHORD 2x6 SPF No.2 \*Except\* 13-12:2x6 SP 2400F

2.0E

WEBS 2x3 SPF No.2 WEDGE Left: 2x4 SP No.2

SLIDER Right 2x4 SP No.2 -- 2-10-6

BRACING

TOP CHORD Structural wood sheathing directly applied or

5-0-13 oc purlins, except

2-0-0 oc purlins (4-1-1 max.): 3-7.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc

bracing.

**REACTIONS** (size) 2=0-5-8, 9=0-5-8

Max Horiz 2=-42 (LC 17)

Max Uplift 2=-749 (LC 8), 9=-749 (LC 9) Max Grav 2=2637 (LC 1), 9=2637 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/1, 2-3=-6553/1896, 3-4=-9192/2708,

4-5=-9201/2689, 5-7=-9236/2707,

7-9=-6378/1849, 9-10=0/1 BOT CHORD 2-14=-1686/6049, 11-14=-2571/9158,

9-11=-1654/5916

WEBS 3-14=-34/652, 7-11=0/558, 3-13=-969/3464,

7-12=-1015/3644, 4-13=-962/484,

4-12=-41/103, 5-12=-1021/516

# 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

Bottom chords connected as follows: 2x6 - 2 rows

staggered at 0-9-0 oc.

Web connected as follows: 2x3 - 1 row at 0-9-0 oc.

- 2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- Unbalanced roof live loads have been considered for this design.
- 4) Wind: AŠCE 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 5-11-4, Exterior(2R) 5-11-4 to 13-0-2, Interior (1) 13-0-2 to 24-0-12, Exterior(2E) 24-0-12 to 30-10-8 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
- 5) 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.
- 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 749 lb uplift at joint 2 and 749 lb uplift at joint 9.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 11) Use Simpson Strong-Tie THJA26 (THJA26 on 2 ply, Right Hand Hip) or equivalent at 5-11-10 from the left end to connect truss(es) to back face of bottom chord.
- 12) Use Simpson Strong Tie THJA26 (THJA26 on 2 ply, Left Hand Hip) or equivalent at 24-0-6 from the left end to connect truss(es) to back face of bottom chord.
- Fill all nail holes where hanger is in contact with lumber.

14) "NAILED" indicates Girder: 3-10d (0.148" x 3") toe-nails per NDS guidelines.

# LOAD CASE(S) Standard

Dead + Roof Live (balanced): Lumber Increase=1.15,
 Plate Increase=1.15
 Itelians Leads (It (t))

Uniform Loads (lb/ft) Vert: 1-3=-70, 3-7=-70, 7-10=-70, 2-9=-20

Concentrated Loads (lb)

Vert: 3=-131 (B), 14=-420 (B), 11=-420 (B), 7=-131 (B), 13=-39 (B), 12=-39 (B), 4=-131 (B), 5=-131 (B), 16=-131 (B), 17=-131 (B), 19=-131 (B), 20=-131 (B),

22=-131 (B), 23=-131 (B), 25=-39 (B), 26=-39 (B), 27=-39 (B), 28=-39 (B), 29=-39 (B), 30=-39 (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

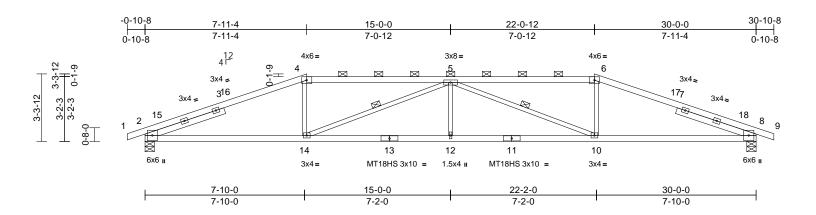


Job	Truss	Truss Type	Qty	Ply	Roof - HM Lot 208
P240760-01	B2	Hip	1	1	Job Reference (optional)

Run: 8.63 S Apr 26 2024 Print: 8.630 S Apr 26 2024 MiTek Industries, Inc. Ved May 2 ID:Dl2rKrez9psFlSeRTnqVxKzEAIn-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKV

S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 165760536 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION



Scale = 1:56.6

Plate Offsets (X, Y):	[2:0-3-13,0-1-5]	, [8:0-3-13,0-1-5]
-----------------------	------------------	--------------------

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	0.99	Vert(LL)	-0.27	12	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.94	Vert(CT)	-0.51	12-14	>708	180	MT18HS	244/190
BCLL	0.0	Rep Stress Incr	YES	WB	0.66	Horz(CT)	0.15	8	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 124 lb	FT = 20%

LUMBER

**BRACING** 

TOP CHORD 2x4 SP 1650F 1.5E

2x4 SP 1650F 1.5E \*Except\* 13-11:2x4 SP **BOT CHORD** 

No.2

WFBS 2x3 SPF No 2

**SLIDER** Left 2x4 SP No.2 -- 4-1-2, Right 2x4 SP No.2

-- 4-1-2

TOP CHORD Structural wood sheathing directly applied,

except

2-0-0 oc purlins (3-5-2 max.): 4-6. BOT CHORD Rigid ceiling directly applied or 2-2-0 oc

bracing.

WFBS 1 Row at midpt 5-14. 5-10

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

Max Horiz 2=-54 (LC 17)

Max Uplift 2=-319 (LC 8), 8=-319 (LC 9)

Max Grav 2=1411 (LC 1), 8=1411 (LC 1)

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

Tension

1-2=-5/0, 2-4=-2989/766, 4-5=-2711/762,

5-6=-2711/762, 6-8=-2989/766, 8-9=-5/0 **BOT CHORD** 2-14=-617/2727, 12-14=-858/3631,

10-12=-858/3631, 8-10=-624/2727

WEBS 4-14=-12/586, 5-14=-1170/284, 5-12=0/269,

5-10=-1170/283, 6-10=-12/586

### NOTES

TOP 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 7-11-4, Exterior(2R) 7-11-4 to 15-0-0, Interior (1) 15-0-0 to 22-0-12, Exterior(2R) 22-0-12 to 29-1-10, Interior (1) 29-1-10 to 30-10-8 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 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 1650F 1.5E crushing capacity of 565 psi.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 319 lb uplift at joint 2 and 319 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



May 22,2024



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 - HM Lot 208
P240760-01	B3	Hip	1	1	Job Reference (optional

Run: 8.63 S Apr 26 2024 Print: 8.630 S Apr 26 2024 MiTek Industries, Inc. Ved May 2 ID:Dl2rKrez9psFlSeRTnqVxKzEAIn-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKV rCDoi7J4z

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 165760537 LEE'S SUMMIT. MISSOURI

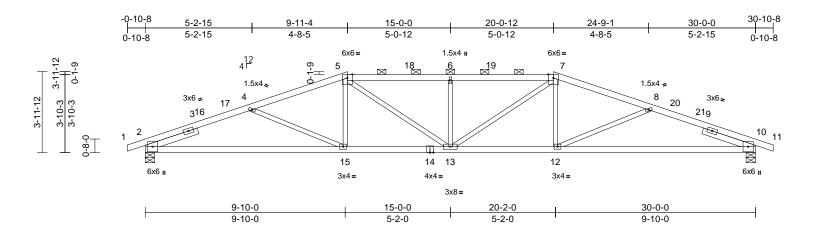


Plate Offsets (X, Y): [2:0-3-13,0-1-5], [10:0-3-13,0-1-5], [10:Edge,0-0-0]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.85	Vert(LL)	-0.25	2-15	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.69	Vert(CT)	-0.54	2-15	>661	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.20	Horz(CT)	0.12	10	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 128 lb	FT = 20%

### LUMBER

TOP CHORD 2x4 SP No.2 **BOT CHORD** 2x4 SP 1650F 1.5E 2x3 SPF No.2 WEBS

**SLIDER** Left 2x4 SP No.2 -- 2-8-8, Right 2x4 SP No.2 -- 2-8-8

**BRACING** 

TOP CHORD Structural wood sheathing directly applied or

2-2-0 oc purlins, except

2-0-0 oc purlins (3-1-0 max.): 5-7. **BOT CHORD** Rigid ceiling directly applied or 8-0-15 oc

bracing.

REACTIONS (size) 2=0-5-8, 10=0-5-8

Max Horiz 2=-67 (LC 17)

Max Uplift 2=-310 (LC 8), 10=-310 (LC 9) Max Grav 2=1411 (LC 1), 10=1411 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-5/0, 2-4=-2965/876, 4-5=-2701/736,

5-6=-2880/867, 6-7=-2880/867,

7-8=-2701/736, 8-10=-2965/876, 10-11=-5/0 **BOT CHORD** 2-15=-759/2687, 13-15=-568/2532

12-13=-564/2532, 10-12=-756/2687

**WEBS** 5-15=0/351, 5-13=-187/570, 6-13=-448/227,

7-13=-188/570, 7-12=0/351, 4-15=-194/230,

8-12=-194/231

### 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 9-11-4, Exterior(2R) 9-11-4 to 17-0-2, Interior (1) 17-0-2 to 20-0-12, Exterior(2R) 20-0-12 to 27-1-10, Interior (1) 27-1-10 to 30-10-8 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.
- 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 1650F 1.5E crushing capacity of 565 psi.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 310 lb uplift at joint 2 and 310 lb uplift at joint 10.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard



May 22,2024



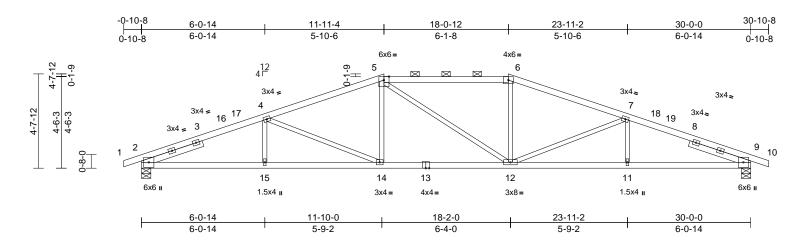


Job	Truss	Truss Type	Qty	Ply	Roof - HM Lot 208
P240760-01	B4	Hip	1	1	Job Reference (optional)

Run: 8.63 S Apr 26 2024 Print: 8.630 S Apr 26 2024 MiTek Industries, Inc. Ved May 2 ID:hxcEYAfbw7\_6vcDd0VLkUXzEAIm-RfC?PsB70Hq3NSgPqnL8w3ulTXbG WrCDoi 12429/f

S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 165760538 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION



Scale = 1:56.7

Plate Offsets (X, Y): [2:0-3-13,0-1-5], [9:0-3-13,0-1-5]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.95	Vert(LL)	-0.20	14-15	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.78	Vert(CT)	-0.38	12-14	>945	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.50	Horz(CT)	0.13	9	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 129 lb	FT = 20%

### LUMBER

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

**SLIDER** Left 2x4 SP No.2 -- 3-2-0, Right 2x4 SP No.2

-- 3-2-0

**BRACING** 

TOP CHORD Structural wood sheathing directly applied,

except

2-0-0 oc purlins (2-2-0 max.): 5-6. **BOT CHORD** Rigid ceiling directly applied or 6-10-7 oc

bracing.

REACTIONS (size) 2=0-5-8, 9=0-5-8

Max Horiz 2=79 (LC 12)

Max Uplift 2=-298 (LC 8), 9=-298 (LC 9) Max Grav 2=1411 (LC 1), 9=1411 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-5/0, 2-4=-3028/823, 4-5=-2489/736,

5-6=-2306/761, 6-7=-2490/758,

7-9=-3027/850, 9-10=-5/0 **BOT CHORD** 2-15=-709/2752, 14-15=-709/2752,

12-14=-535/2305. 11-12=-731/2752.

9-11=-731/2752

WEBS 4-15=0/228, 4-14=-517/211, 5-14=-9/365,

5-12=-221/222, 6-12=-11/365,

7-12=-517/212, 7-11=0/227

### 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 11-11-4, Exterior(2E) 11-11-4 to 18-0-12, Exterior(2R) 18-0-12 to 25-1-10, Interior (1) 25-1-10 to 30-10-8 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.
- 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 298 lb uplift at joint 2 and 298 lb uplift at joint 9.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 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



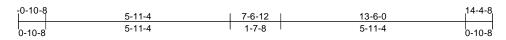
May 22,2024



Job Truss Truss Type Qty Ply Roof - HM Lot 208 P240760-01 C1 Hip Girder Job Reference (optional RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 165760539 LEE'S SUMMIT. MISSOURI

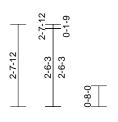
Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083,

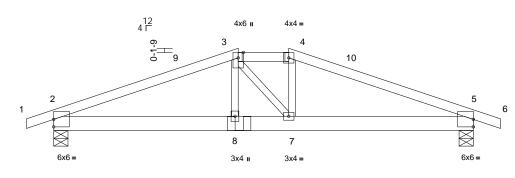
Run: 8.63 S Apr 26 2024 Print: 8.630 S Apr 26 2024 MiTek Industries, Inc. V ed May 2 ID:hxcEYAfbw7\_6vcDd0VLkUXzEAIm-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi



### NAILED

#### NAILED





1	5-10-0	7-8-0	13-6-0
ſ	5-10-0	1-10-0	5-10-0

Special

THJA26

Plate Offsets (X, Y): [2:Edge,0-2-14], [5:Edge,0-2-14]

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	0.98	Vert(LL)	-0.07	7-8	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.81	Vert(CT)	-0.12	7-8	>999	180		
BCLL	0.0	Rep Stress Incr	NO	WB	0.20	Horz(CT)	0.03	5	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 53 lb	FT = 20%

### LUMBER

TOP CHORD 2x4 SP No.2 2x6 SPF No.2 **BOT CHORD** 2x3 SPF No.2 WEBS

**BRACING** 

Structural wood sheathing directly applied or TOP CHORD

2-7-4 oc purlins, except

2-0-0 oc purlins (3-9-1 max.): 3-4.

**BOT CHORD** Rigid ceiling directly applied or 8-3-2 oc

bracing.

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

Max Horiz 2=-42 (LC 34)

Max Uplift 2=-352 (LC 8), 5=-352 (LC 9)

Max Grav 2=1216 (LC 1), 5=1216 (LC 1) (lb) - Maximum Compression/Maximum

**FORCES** Tension

1-2=0/1, 2-3=-2527/918, 3-4=-2267/920,

TOP CHORD 4-5=-2534/923, 5-6=0/1

BOT CHORD 2-8=-752/2285, 7-8=-748/2261,

5-7=-764/2292

3-8=-87/521, 3-7=-122/143, 4-7=-102/579

### **WEBS** NOTES

- Unbalanced roof live loads have been considered for this design
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-10-8 to 4-1-8, Interior (1) 4-1-8 to 5-11-4, Exterior(2E) 5-11-4 to 14-4-8 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.
- 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 352 lb uplift at joint 2 and 352 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.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- Use Simpson Strong-Tie THJA26 (THJA26 on 1 ply, Left Hand Hip) or equivalent at 5-11-10 from the left end to connect truss(es) to front face of bottom chord.
- 10) Fill all nail holes where hanger is in contact with lumber.
- 11) "NAILED" indicates Girder: 3-10d (0.148" x 3") toe-nails per NDS guidelines.
- 12) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 420 lb down and 109 lb up at 7-6-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 13) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

### LOAD CASE(S) Standard

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

Uniform Loads (lb/ft)

Vert: 1-3=-70, 3-4=-70, 4-6=-70, 2-5=-20

Concentrated Loads (lb)

Vert: 3=-131 (F), 4=-131 (F), 8=-420 (F), 7=-420 (F)



May 22,2024

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 - HM Lot 208 P240760-01 C2 Common Job Reference (optional

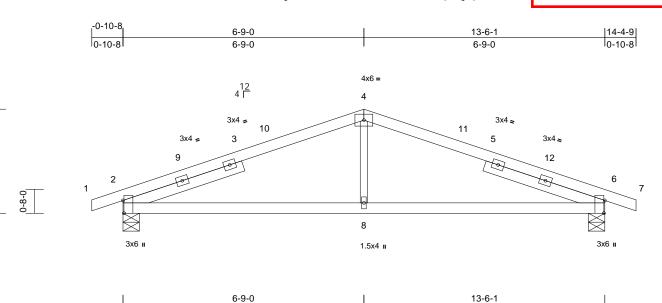
S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 165760540 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION

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

Run: 8.63 S Apr 26 2024 Print: 8.630 S Apr 26 2024 MiTek Industries, Inc. V ed May 2 VrCDoi7 4/J ID:CgIZsEQccSIKVdlkckm4o8zbfHB-RfC?PsB70Hq3NSgPqnL8w3uITXbGKV

6-9-0



Scale = 1:32.3

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.69	Vert(LL)	-0.05	6-8	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.50	Vert(CT)	-0.10	6-8	>999	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.10	Horz(CT)	0.02	6	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 57 lb	FT = 20%

LUMBER

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

2-11-0

SLIDER Left 2x4 SP No.2 -- 3-6-5, Right 2x4 SP No.2

-- 3-6-5

**BRACING** 

TOP CHORD Structural wood sheathing directly applied or

4-8-11 oc purlins.

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

bracing

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

Max Horiz 2=-48 (LC 17)

Max Uplift 2=-147 (LC 8), 6=-147 (LC 9)

Max Grav 2=669 (LC 1), 6=669 (LC 1)

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

TOP CHORD

1-2=-5/0, 2-4=-998/439, 4-6=-998/439, 6-7=-5/0

BOT CHORD

2-8=-304/864, 6-8=-304/864

**WEBS** 4-8=0/307

### NOTES

- 1) Unbalanced roof live loads have been considered for
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-10-8 to 4-1-8, Interior (1) 4-1-8 to 6-9-0, Exterior(2R) 6-9-0 to 11-9-0, Interior (1) 11-9-0 to 14-4-9 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
- 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 147 lb uplift at joint 2 and 147 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

6-9-0



May 22,2024



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 - HM Lot 208 P240760-01 C3 Common Girder 2 Job Reference (optional

3-9-3

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

LEE'S SUMMIT. MISSOURI Run: 8.63 S Apr 26 2024 Print: 8.630 S Apr 26 2024 MiTek Industries, Inc. Ved May 2 ID:ROLzIJXFVDQ24?xTe7QBf2zbfH2-RfC?PsB70Hq3NSgPqnL8w3uITXbGl WrCDoi 24:

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW

DEVELOPMENT SERVICES 165760541

3-9-3 6-9-0 9-8-14 13-6-1 3-9-3 2-11-13 2-11-13 3-9-3 4x6 II 12 4 F 3 4x6 **≈** 4x6 10 11 2 4 2-11-0 12 0-8-0 ПГ П 13 8 15 7 16 6 17 14 4x8 = 4x8 = 3x10 II 10x10 =3x10 II HUS26 HUS26 HUS26 HUS26 HHUS28-2 NAILED Special 3-9-3 6-9-0 9-8-14 13-6-1

Scale = 1:34.8

Plate Offsets (X, Y): [1:0-4-0,0-2-6], [5:0-4-0,0-2-6], [7:0-5-0,0-5-12]

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	тс	0.69	Vert(LL)	-0.11	6-7	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.58	Vert(CT)	-0.19	6-7	>813	180		
BCLL	0.0	Rep Stress Incr	NO	WB	0.84	Horz(CT)	0.03	5	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 142 lb	FT = 20%

2-11-13

2-11-13

### LUMBER

TOP CHORD 2x4 SP No.2 **BOT CHORD** 2x8 SP 2400F 2.0E 2x3 SPF No.2 WEBS

**BRACING** 

TOP CHORD Structural wood sheathing directly applied or

3-2-4 oc purlins.

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

bracing.

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

Max Horiz 1=46 (LC 16)

Max Uplift 1=-1142 (LC 8), 5=-1294 (LC 9)

Max Grav 1=5604 (LC 1), 5=5540 (LC 1)

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

Tension

1-2=-9784/2388, 2-3=-8189/2091,

3-4=-8188/2090, 4-5=-10475/2729 1-8=-2149/8997, 7-8=-2149/8997, BOT CHORD

6-7=-2466/9634 5-6=-2466/9634

WFBS 2-8=-258/1629, 2-7=-1431/345,

3-7=-1167/4870, 4-7=-2141/696,

4-6=-544/2214

### NOTES

TOP CHORD

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

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

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

- Web connected as follows: 2x3 1 row at 0-9-0 oc. All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- 3) Unbalanced roof live loads have been considered for this design.

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-2-12 to 5-2-12, Interior (1) 5-2-12 to 6-9-0, Exterior(2R) 6-9-0 to 11-9-0, Interior (1) 11-9-0 to 13-3-5 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
- 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 1142 lb uplift at joint 1 and 1294 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.
- Use Simpson Strong-Tie HUS26 (14-10d Girder, 6-10d Truss, Single Ply Girder) or equivalent spaced at 2-0-0 oc max. starting at 3-0-0 from the left end to 9-0-0 to connect truss(es) to back face of bottom chord.
- 10) Use Simpson Strong-Tie HHUS28-2 (22-16d Girder, 4-16d Truss) or equivalent at 10-11-3 from the left end to connect truss(es) to back face of bottom chord.
- 11) WARNING: The following hangers are manually applied but fail due to geometric considerations: HUS26 on back face at 3-0-0 from the left end, HUS26 on back face at 5-0-0 from the left end, HUS26 on back face at 7-0-0 from the left end. HUS26 on back face at 9-0-0 from the left end. HHUS28-2 on back face at 10-11-3 from the left end
- 12) "NAILED" indicates Girder: 3-10d (0.148" x 3") toe-nails per NDS guidelines.

13) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1421 lb down and 262 lb up at 1-0-0, and 158 lb down and 30 lb up at 13-3-5 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

### LOAD CASE(S) Standard

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

Uniform Loads (lb/ft)

Vert: 1-3=-70, 3-5=-70, 1-5=-20

Concentrated Loads (lb)

3-9-3

Vert: 5=-158 (B), 7=-1419 (B), 13=-1421 (B),

14=-1419 (B), 15=-1419 (B), 16=-1419 (B),

17=-2714 (B)



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Ply Job Truss Truss Type Qty Roof - HM Lot 208 P240760-01 CG1 Diagonal Hip Girder 6 Job Reference (optional

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

LEE'S SUMMIT. MISSOURI D:GMw5v9djdCcX28U2LMn1svzEAlp-RfC?PsB70Hq3NSgPqnL8w3ulTXbG WrCDoi v42se f

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW

DEVELOPMENT SERVICES 165760542

8-3-4 -1-2-14 1-2-14 8-3-4 2.83 T NAILED NAILED NAILED 1.5x4 II **NAILED** 3x4 =

3x6 II 1.5x4 II NAILED NAILED

10

NAILED

NAILED 8-3-4

Plate Offsets (X, Y): [2:0-4-6,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	0.94	Vert(LL)	-0.22	2-5	>454	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.53	Vert(CT)	-0.43	2-5	>227	180		
BCLL	0.0	Rep Stress Incr	NO	WB	0.00	Horz(CT)	0.00	5	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 35 lb	FT = 20%

9

### LUMBER

TOP CHORD 2x4 SP 2400F 2.0E BOT CHORD 2x4 SP 2400F 2.0E 2x3 SPF No.2 WEBS

SLIDER Left 2x4 SP No.2 -- 4-1-15

# 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) 2=0-7-6, 5= Mechanical

Max Horiz 2=103 (LC 28)

Max Uplift 2=-149 (LC 8), 5=-115 (LC 12) Max Grav 2=484 (LC 1), 5=410 (LC 1)

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

Tension

TOP CHORD 1-2=-6/0, 2-4=-140/82, 4-5=-315/306

BOT CHORD 2-5=-47/51

### 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) -1-2-14 to 5-10-0, Exterior(2R) 5-10-0 to 8-2-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Bearings are assumed to be: Joint 2 SP 2400F 2.0E crushing capacity of 805 psi.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 115 lb uplift at joint 5 and 149 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.

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

### LOAD CASE(S) Standard

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

Plate Increase=1.15 Uniform Loads (lb/ft) Vert: 1-4=-70, 2-5=-20 Concentrated Loads (lb)

Vert: 7=-53 (F=-26, B=-26), 10=-19 (F=-10, B=-10)



May 22,2024



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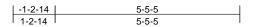
Ply Job Truss Truss Type Qty Roof - HM Lot 208 P240760-01 CG2 Diagonal Hip Girder 2 Job Reference (optional

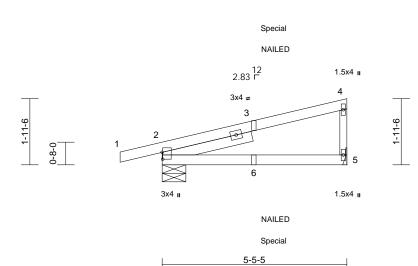
S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 165760543 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION

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

ID:BkAIXI8NKwbqkP3q\_IYbFQzE?MM-RfC?PsB70Hq3NSgPqnL8w3uITXbG WrCDon 4230 Ff





Scale = 1:33.9

Plate Offsets (X, Y): [2:0-2-6,0-0-3]

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	0.68	Vert(LL)	-0.05	2-5	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.39	Vert(CT)	-0.10	2-5	>657	180		
BCLL	0.0	Rep Stress Incr	NO	WB	0.00	Horz(CT)	0.00	5	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 24 lb	FT = 20%

### LUMBER

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

SLIDER Left 2x4 SP No.2 -- 2-8-8

# BRACING

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

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

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

Max Horiz 2=73 (LC 9)

Max Uplift 2=-111 (LC 8), 5=-54 (LC 12) Max Grav 2=337 (LC 1), 5=230 (LC 1) (lb) - Maximum Compression/Maximum

**FORCES** Tension

1-2=-6/0, 2-4=-95/60, 4-5=-177/225

TOP CHORD BOT CHORD 2-5=-34/36

### 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
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Bearings are assumed to be: Joint 2 SP 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 54 lb uplift at joint 5 and 111 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.

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

### LOAD CASE(S) Standard

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

Plate Increase=1.15 Uniform Loads (lb/ft) Vert: 1-4=-70, 2-5=-20



May 22,2024



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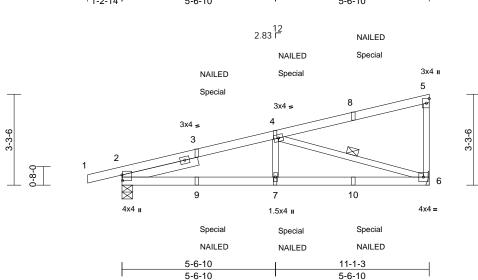


Job	Truss	Truss Type	Qty	Ply	Roof - HM Lot 208
P240760-01	CG3	Diagonal Hip Girder	2	1	Job Reference (optional)

DEVELOPMENT SERVICES 165760544 LEE'S SUMMIT. MISSOURI ID:BkAIXI8NKwbqkP3q\_IYbFQzE?MM-RfC?PsB70Hq3NSgPqnL8w3uITXbG

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW

5-6-10 11-1-3 -1-2-14 1-2-14 5-6-10 5-6-10



Scale = 1:41.6

Plate Offsets (X, Y): [2:0-2-6,0-0-3]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.77	Vert(LL)	-0.06	6-7	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.77	Vert(CT)	-0.14	6-7	>953	180		
BCLL	0.0	Rep Stress Incr	NO	WB	0.43	Horz(CT)	0.02	6	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 47 lb	FT = 20%

### LUMBER

TOP CHORD 2x4 SP 1650F 1.5E **BOT CHORD** 2x4 SP No.2 2x3 SPF No.2 WEBS

SLIDER Left 2x4 SP No.2 -- 2-9-12

BRACING

TOP CHORD Structural wood sheathing directly applied or

5-11-14 oc purlins, except end verticals. BOT CHORD Rigid ceiling directly applied or 7-5-13 oc

bracing

WFBS 1 Row at midpt 4-6

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

Max Horiz 2=134 (LC 11)

Max Uplift 2=-205 (LC 8), 6=-209 (LC 12)

Max Grav 2=684 (LC 1), 6=722 (LC 1)

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

TOP CHORD 1-2=-6/0, 2-4=-1363/504, 4-5=-131/73,

5-6=-260/176

2-7=-594/1268, 6-7=-594/1268 BOT CHORD WEBS 4-7=0/353, 4-6=-1279/569

### 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) -1-2-14 to 5-6-10, Exterior(2R) 5-6-10 to 10-11-15 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Bearings are assumed to be: Joint 2 SP 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 209 lb uplift at joint 6 and 205 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.
- "NAILED" indicates Girder: 3-10d (0.148" x 3") toe-nails per NDS guidelines
- In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

### LOAD CASE(S) Standard

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

Plate Increase=1.15 Uniform Loads (lb/ft) Vert: 1-5=-70, 2-6=-20

Concentrated Loads (lb) Vert: 4=-53 (F=-26, B=-26), 7=-19 (F=-10, B=-10), 8=-198 (F=-99, B=-99), 10=-59 (F=-30, B=-30)



May 22,2024



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

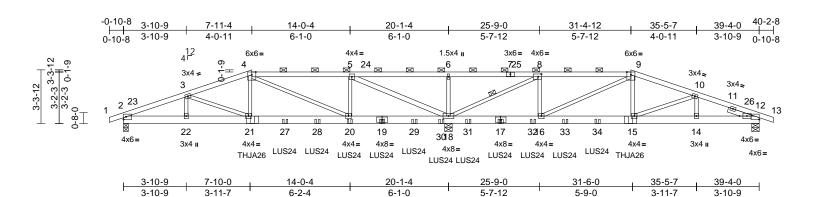
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not



Job	Truss	Truss Type	Qty	Ply	Roof - HM Lot 208	
P240760-01	D1	Hip Girder	1	2	Job Reference (optional)	

Run: 8.63 S Apr 26 2024 Print: 8.630 S Apr 26 2024 MiTek Industries, Inc. V ed May 2 ID:BkAIXI8NKwbqkP3q\_IYbFQzE?MM-RfC?PsB70Hq3NSgPqnL8w3uITXbGkWrCDolly449

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 165760545 LEE'S SUMMIT. MISSOURI



#### Scale = 1:71.3

Plate Offsets (X, Y): [8:0-2-8,0-2-0], [12:0-2-9,0-2-0], [12:Edge,0-2-10]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.65	Vert(LL)	-0.10	20-21	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.69	Vert(CT)	-0.17	20-21	>999	180		
BCLL	0.0	Rep Stress Incr	NO	WB	0.91	Horz(CT)	0.06	12	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 358 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2 **BOT CHORD** 2x6 SPF No.2

2x3 SPF No.2 \*Except\* 5-18:2x4 SP No.2 WEBS

SLIDER Right 2x4 SP No.2 -- 1-8-2

**BRACING** 

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins, except

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

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

bracing.

WFBS 1 Row at midpt 8-18 REACTIONS

2=0-3-8, 12=0-5-8, 18=0-5-8 (size) Max Horiz 2=54 (LC 12)

Max Uplift 2=-481 (LC 8), 12=-449 (LC 9),

18=-1669 (LC 8) Max Grav

2=1698 (LC 25), 12=1569 (LC 26),

18=6079 (LC 1)

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

TOP CHORD

1-2=0/1, 2-3=-3648/1049, 3-4=-3794/1141,

4-5=-2199/693. 5-6=-707/2580. 6-8=-707/2580, 8-9=-1695/552 9-10=-3355/1016. 10-12=-3108/899.

12-13=0/1

BOT CHORD 2-22=-925/3314, 21-22=-925/3314,

20-21=-951/3525, 18-20=-564/2197 16-18=-412/1693, 15-16=-837/3126

14-15=-781/2829, 12-14=-781/2829

WEBS 4-21=-385/1445, 9-15=-372/1393, 6-18=-445/192, 9-16=-1640/517,

8-16=-421/1688, 8-18=-4696/1398 5-18=-5194/1539, 4-20=-1498/479, 5-20=-422/1720, 3-21=-253/502,

10-15=-233/558, 10-14=-199/119, 3-22=-107/95

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.

Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-7-0 oc.

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

- All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=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 7-11-4, Exterior(2R) 7-11-4 to 15-0-2, Interior (1) 15-0-2 to 31-4-12, Exterior(2R) 31-4-12 to 38-5-10, Interior (1) 38-5-10 to 40-2-8 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
- 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 481 lb uplift at joint 2, 449 lb uplift at joint 12 and 1669 lb uplift at joint 18.
- 9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 11) Use Simpson Strong-Tie THJA26 (THJA26 on 2 ply, Left Hand Hip) or equivalent at 7-11-10 from the left end to connect truss(es) to front face of bottom chord.
- 12) Use Simpson Strong-Tie LUS24 (4-10d Girder, 2-10d Truss, Single Ply Girder) or equivalent spaced at 2-0-0 oc max. starting at 10-0-0 from the left end to 29-4-0 to connect truss(es) to front face of bottom chord.
- 13) Use Simpson Strong-Tie THJA26 (THJA26 on 2 ply Right Hand Hip) or equivalent at 31-4-6 from the left end to connect truss(es) to front face of bottom chord.



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



Ply Job Truss Truss Type Qty Roof - HM Lot 208 2 P240760-01 D1 Hip Girder Job Reference (optional

DEVELOPMENT SERVICES 165760545 LEE'S SUMMIT, MISSOURI

RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW

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

Run: 8.63 S Apr 26 2024 Print: 8.630 S Apr 26 2024 MiTek Industries, Inc. V ed May 267 1058kAIXI8NKwbqkP3q\_IYbFQzE?MM-RfC?PsB70Hq3NSgPqnL8w3ulTXbc WrCDorwd 2017 105 WrCDorwd

### LOAD CASE(S) Standard

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

Vert: 1-4=-70, 4-9=-70, 9-13=-70, 2-12=-20

Concentrated Loads (lb)

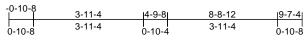
Vert: 19=-329 (F), 21=-1023 (F), 15=-1023 (F), 17=-329 (F), 20=-329 (F), 27=-329 (F), 28=-329 (F), 29=-329 (F), 30=-329 (F), 31=-329 (F), 32=-329 (F), 33=-329 (F), 34=-329 (F)



Job	Truss	Truss Type	Qty	Ply	Roof - HM Lot 208
P240760-01	E1	Hip Girder	1	1	Job Reference (optional)

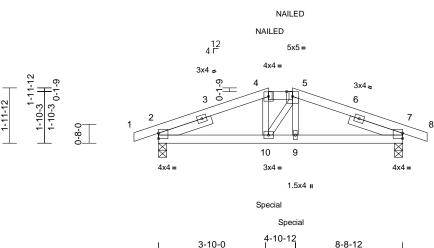
LEE'S SUMMIT. MISSOURI ID:cJsRAmBFdrzObsoPfu6lt3zE?MJ-RfC?PsB70Hq3NSgPqnL8w3ulTXbGK VrCDoi7 10:cJsRAmBFdrzObsoPfu6lt3zE?MJ-RfC?PsB70Hq3NSgPqnL8w3ulTXbGK VrCDoi7 12.15

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 165760546



1-0-12

3-10-0



Scale = 1:41.2

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

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	0.69	Vert(LL)	-0.03	9-10	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.41	Vert(CT)	-0.06	9	>999	180		
BCLL	0.0	Rep Stress Incr	NO	WB	0.10	Horz(CT)	0.02	7	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 39 lb	FT = 20%

3-10-0

### LUMBER

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

Left 2x4 SP No.2 -- 1-11-13, Right 2x4 SP **SLIDER** 

No.2 -- 1-11-13

**BRACING** 

TOP CHORD Structural wood sheathing directly applied or

4-1-3 oc purlins, except

2-0-0 oc purlins (5-5-14 max.): 4-5. **BOT CHORD** Rigid ceiling directly applied or 9-3-0 oc

bracing.

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

Max Horiz 2=29 (LC 12)

Max Uplift 2=-220 (LC 8), 7=-220 (LC 9)

Max Grav 2=733 (LC 1), 7=733 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-5/0, 2-4=-1334/530, 4-5=-1171/535,

5-7=-1329/530. 7-8=-5/0

2-10=-407/1188, 9-10=-406/1168, BOT CHORD

7-9=-408/1185

WFBS 4-10=-40/302. 5-10=-42/53. 5-9=-28/270

### NOTES

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

- 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 220 lb uplift at joint 2 and 220 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
- "NAILED" indicates Girder: 3-10d (0.148" x 3") toe-nails per NDS guidelines.
- 10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 221 lb down and 60 lb up at 3-11-4, and 221 lb down and 60 lb up at 4-8-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 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: 1-4=-70, 4-5=-70, 5-8=-70, 2-7=-20

Concentrated Loads (lb)

Vert: 4=-59 (F), 5=-59 (F), 10=-221 (F), 9=-221 (F)



May 22,2024



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 - HM Lot 208

 P240760-01
 E2
 Common
 1
 1
 1
 Job Reference (optional)

Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083, Run: 8.63 S Apr 26 2024 Print: 8.630 S Apr 26 2024

RELEASE FOR CONSTRUCTION

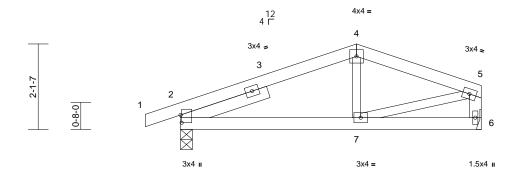
AS NOTED FOR PLAN REVIEW

DEVELOPMENT SERVICES
(65760547

LEE'S SUMMIT, MISSOURI

Run: 8.63 S. Apr 26 2024 Print: 8.630 S. Apr 26 2024 MiTek Industries, Inc. Ved May (2) 87.006/2024
ID:Dgu00kllKKflbcSRl41v?AzXS?3-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKW CDoi7J4&C 97.006/2024





4-4-6 7-5-8 4-4-6 3-1-2

Scale = 1:28.6

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

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	0.39	Vert(LL)	-0.01	2-7	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.21	Vert(CT)	-0.03	2-7	>999	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.12	Horz(CT)	0.00	6	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 32 lb	FT = 20%

LUMBER

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

WEBS 2x3 SPF No.2 \*Except\* 6-5:2x4 SP No.2

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

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) 2=0-3-8, 6= Mechanical

Max Horiz 2=34 (LC 12)

Max Uplift 2=-103 (LC 8), 6=-53 (LC 9) Max Grav 2=394 (LC 1), 6=325 (LC 1)

FORCES (Ib) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-5/0, 2-4=-429/254, 4-5=-374/275,

5-6=-307/263

BOT CHORD 2-7=-238/330, 6-7=-17/19 WEBS 4-7=-2/118, 5-7=-235/343

### NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Bearings are assumed to be: Joint 2 SP No.2 crushing capacity of 565 psi.
- Refer to girder(s) for truss to truss connections.

- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 103 lb uplift at joint 2 and 53 lb uplift at joint 6.
- 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



May 22,2024





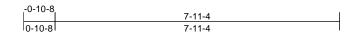
Truss Type Ply Job Truss Qty Roof - HM Lot 208 P240760-01 J1 Jack-Closed 13 Job Reference (optional

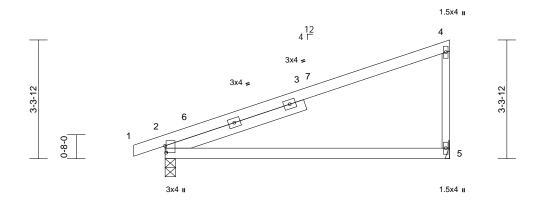
DEVELOPMENT SERVICES 165760548 LEE'S SUMMIT. MISSOURI

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

F. 20 2024 MiTek Industries, Inc. Ved May 2007 ID:n9UAvj6V2?CFtxKFJd?udozE?MP-RfC?PsB70Hq3NSgPqnL8w3ulTXbGrWrCDoi 2012

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW





7-11-4

Scale = 1:32.1

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

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	0.99	Vert(LL)	-0.23	2-5	>416	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.82	Vert(CT)	-0.45	2-5	>208	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	5	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 34 lb	FT = 20%

LOAD CASE(S) Standard

LUMBER TOP CHORD 2x4 SP 1650F 1.5E **BOT CHORD** 2x4 SP No.2 2x3 SPF No.2 WEBS

SLIDER Left 2x4 SP No.2 -- 4-1-2

BRACING

Structural wood sheathing directly applied, TOP CHORD

except end verticals.

Rigid ceiling directly applied or 9-10-2 oc **BOT CHORD** 

bracing.

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

Max Horiz 2=140 (LC 9)

Max Uplift 2=-108 (LC 8), 5=-88 (LC 12) Max Grav 2=417 (LC 1), 5=349 (LC 1)

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

Tension

TOP CHORD 1-2=-5/0, 2-4=-173/108, 4-5=-271/327

BOT CHORD 2-5=-61/67

### 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 7-10-0 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
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Bearings are assumed to be: Joint 2 SP 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 88 lb uplift at joint 5 and 108 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.



May 22,2024



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



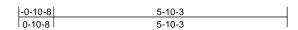
Ply Job Truss Truss Type Qty Roof - HM Lot 208 P240760-01 J2 Jack-Open Job Reference (optional

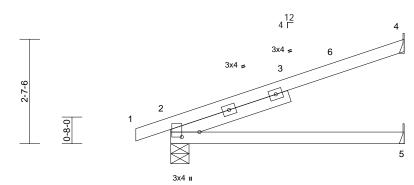
Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083,

LEE'S SUMMIT. MISSOURI P. 2020-11 IIIII. 0.030 S API 26 2024 MiTek Industries, Inc. V ed May 27 10:n9UAvj6V2?CFtxKFJd?udozE?MP-RfC?PsB70Hq3NSgPqnL8w3ulTXbGr WrCDoi 242304

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW

DEVELOPMENT SERVICES 165760549





5-10-3

Scale = 1:28.9

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.76	Vert(LL)	-0.07	2-5	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.43	Vert(CT)	-0.13	2-5	>516	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.02	4	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 24 lb	FT = 20%

LUMBER

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

Left 2x4 SP No.2 -- 3-1-4 SLIDER

**BRACING** 

TOP CHORD Structural wood sheathing directly applied or

5-10-3 oc purlins.

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

bracing.

REACTIONS (size) 2=0-5-8, 4= Mechanical, 5= Mechanical

Max Horiz 2=97 (LC 12)

Max Uplift 2=-80 (LC 8), 4=-110 (LC 12) Max Grav 2=326 (LC 1), 4=198 (LC 1), 5=116

(LC 3)

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

Tension

TOP CHORD 1-2=-5/0, 2-4=-104/49

BOT CHORD 2-5=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 5-9-7 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Bearings are assumed to be: , Joint 2 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 110 lb uplift at joint 4 and 80 lb uplift at joint 2.

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

LOAD CASE(S) Standard



May 22,2024







Truss Type Ply Job Truss Qty Roof - HM Lot 208 P240760-01 J3 Jack-Open 15

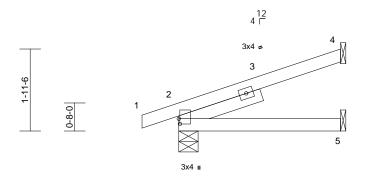
DEVELOPMENT SERVICES 165760550 LEE'S SUMMIT. MISSOURI Job Reference (optional

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW

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

ID:XgLdgMJb9VhkPZo1PqP1dSzbfea-RfC?PsB70Hq3NSgPqnL8w3ulTXbGi WrCDoi N4zsof

-0-10-8	3-10-3
0-10-8	3-10-3



3-10-3

Scale = 1:27.4

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

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	0.32	Vert(LL)	-0.01	2-5	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.17	Vert(CT)	-0.02	2-5	>999	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.01	4	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 16 lb	FT = 20%

LUMBER

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

Left 2x4 SP No.2 -- 2-0-10 SLIDER

**BRACING** 

TOP CHORD Structural wood sheathing directly applied or

3-10-3 oc purlins.

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

bracing.

REACTIONS (size) 2=0-5-8, 4= Mechanical, 5=

Mechanical Max Horiz 2=68 (LC 12)

Max Uplift 2=-67 (LC 8), 4=-73 (LC 12) Max Grav 2=239 (LC 1), 4=125 (LC 1), 5=76

(LC 3)

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

Tension

TOP CHORD 1-2=-5/0, 2-4=-76/31

BOT CHORD 2-5=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) 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 2 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 73 lb uplift at joint 4 and 67 lb uplift at joint 2.

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

LOAD CASE(S) Standard



May 22,2024



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 - HM Lot 208 P240760-01 J4 Jack-Open 2

Job Reference (optional

S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 165760551 LEE'S SUMMIT. MISSOURI

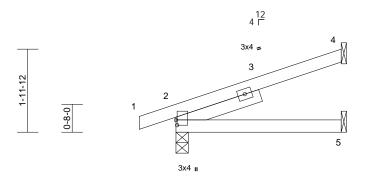
RELEASE FOR CONSTRUCTION

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

ID:gwkhl49?5DjhMYe0YT3qnezE?ML-RfC?PsB70Hq3NSgPqnL8w3ulTXbGi WrCDoi w4z304

1-11-12

-0-10-8	3-11-4
0-10-8	3-11-4



3-11-4

Scale = 1:27.5

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.34	Vert(LL)	-0.01	2-5	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.18	Vert(CT)	-0.03	2-5	>999	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.01	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 BOT CHORD 2x4 SP No.2

Left 2x4 SP No.2 -- 2-1-3 SLIDER

**BRACING** 

TOP CHORD Structural wood sheathing directly applied or

3-11-4 oc purlins.

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

bracing.

REACTIONS (size) 2=0-3-8, 4= Mechanical, 5=

Mechanical Max Horiz 2=70 (LC 12)

Max Uplift 2=-68 (LC 8), 4=-74 (LC 12) Max Grav 2=243 (LC 1), 4=129 (LC 1), 5=78

(LC 3)

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

Tension

TOP CHORD 1-2=-5/0, 2-4=-76/32

BOT CHORD 2-5=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) 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 2 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 74 lb uplift at joint 4 and 68 lb uplift at joint 2.

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

LOAD CASE(S) Standard



May 22,2024



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



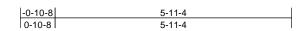
Ply Job Truss Truss Type Qty Roof - HM Lot 208 P240760-01 J6 Jack-Open 23 Job Reference (optional

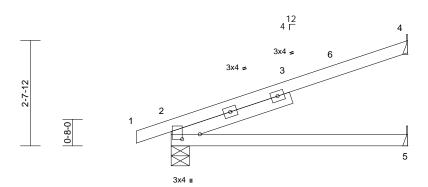
S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 165760552 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION

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

ID:snFyH7bqKHEyBhlTgEEKEGzEAls-RfC?PsB70Hq3NSgPqnL8w3ulTXbG WrCDolw4239 ft





5-11-4

Scale = 1:28.9

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.78	Vert(LL)	-0.07	2-5	>987	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.44	Vert(CT)	-0.14	2-5	>493	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.02	4	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 24 lb	FT = 20%

LUMBER

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

Left 2x4 SP No.2 -- 3-1-13 SLIDER

**BRACING** 

TOP CHORD Structural wood sheathing directly applied or

5-11-4 oc purlins.

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

bracing.

REACTIONS (size) 2=0-5-8, 4= Mechanical, 5=

Mechanical Max Horiz 2=99 (LC 12)

Max Uplift 2=-81 (LC 8), 4=-111 (LC 12) Max Grav 2=330 (LC 1), 4=201 (LC 1), 5=118

(LC 3)

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

Tension

TOP CHORD 1-2=-5/0, 2-4=-105/50

BOT CHORD 2-5=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 2 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 111 lb uplift at joint 4 and 81 lb uplift at joint 2.

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

LOAD CASE(S) Standard



May 22,2024



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 - HM Lot 208 P240760-01 J7 Jack-Open 20

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

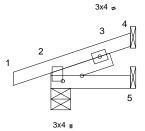
LEE'S SUMMIT. MISSOURI Job Reference (optional ID:snFyH7bqKHEyBhITgEEKEGzEAIs-RfC?PsB70Hq3NSgPqnL8w3ulTXbG WrCDolw42se fi

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW

DEVELOPMENT SERVICES 165760553

-0-10-8 1-10-3 0-10-8 1-10-3

12 4 F





1-10-3

Scale = 1:26.8

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.06	Vert(LL)	0.00	2-5	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.04	Vert(CT)	0.00	2-5	>999	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 9 lb	FT = 20%

LUMBER

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

Left 2x4 SP No.2 -- 1-5-8 SLIDER

**BRACING** 

TOP CHORD Structural wood sheathing directly applied or

1-10-3 oc purlins.

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

bracing.

REACTIONS (size) 2=0-5-8, 4= Mechanical, 5=

Mechanical Max Horiz 2=40 (LC 12)

Max Uplift 2=-57 (LC 8), 4=-35 (LC 12) Max Grav 2=158 (LC 1), 4=50 (LC 1), 5=37

(LC 3)

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

Tension

TOP CHORD 1-2=-5/0, 2-4=-43/16

BOT CHORD 2-5=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) 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 2 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 57 lb uplift at joint 2 and 35 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



May 22,2024



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



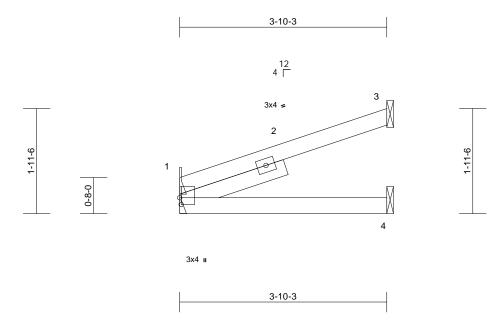
Truss Type Ply Job Truss Qty Roof - HM Lot 208 P240760-01 J8 Jack-Open Job Reference (optional

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

S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 165760554 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION

Run: 8.63 S Apr 26 2024 Print: 8.630 S Apr 26 2024 MiTek Industries, Inc. V ed May 2 ID:snFyH7bqKHEyBhITgEEKEGzEAIs-RfC?PsB70Hq3NSgPqnL8w3uITXbGkWrCDoin4429



Scale = 1:21.4

Plate Offsets	(X,	Y):	[1:0-1-8	3,0-0-5]
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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	0.36	Vert(LL)	-0.01	1-4	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.17	Vert(CT)	-0.02	1-4	>999	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.01	3	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 15 lb	FT = 20%

LUMBER

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

Left 2x4 SP No.2 -- 2-0-10 SLIDER

**BRACING** 

TOP CHORD Structural wood sheathing directly applied or

3-10-3 oc purlins.

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

bracing.

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

Max Horiz 1=71 (LC 8)

Max Uplift 1=-22 (LC 8), 3=-75 (LC 8) 1=170 (LC 1), 3=133 (LC 1), 4=76 Max Grav

(LC 3)

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

Tension TOP CHORD 1-3=-78/33 **BOT CHORD** 1-4=0/0

### NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Refer to girder(s) for truss to truss connections.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 22 lb uplift at joint 1 and 75 lb uplift at joint 3.
- 6) N/A

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.

Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.

LOAD CASE(S) Standard



May 22,2024



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 - HM Lot 208

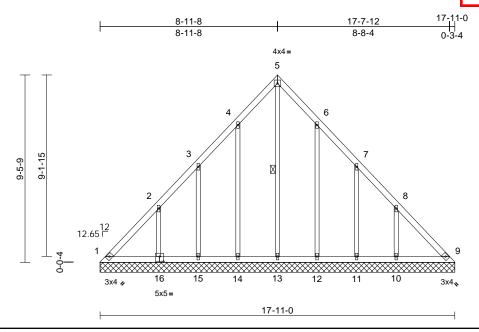
 P240760-01
 LG1
 Lay-In Gable
 1
 1
 Job Reference (optional)

AS NOTED FOR PLAN REVIEW
DEVELOPMENT SERVICES
165760555
LEE'S SUMMIT, MISSOURI

RELEASE FOR CONSTRUCTION

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

Run: 8.63 S. Apr 26 2024 Print: 8.630 S. Apr 26 2024 MiTek Industries, Inc. Ved May 28/06/29:24
ID:Obha4naCZz56aXAH6Xj5i3zEAlt-RfC?PsB70Hq3NSgPqnL8w3uITXbGKVrCDoi7.29



Scale = 1:58.2

Plate Offsets	(X,	Y):	[16:0-2-8,0-3-0]
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Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.12	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	0.22	Horiz(TL)	0.01	9	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 94 lb	FT = 20%

### LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins.

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

bracing.

WEBS 1 Row at midpt 5-13

**REACTIONS** (size) 1=17-11-0, 9=17-11-0, 10=17-11-0,

11=17-11-0, 12=17-11-0, 13=17-11-0, 14=17-11-0, 15=17-11-0, 16=17-11-0

Max Horiz 1=-258 (LC 8)

Max Uplift 1=-75 (LC 10), 9=-39 (LC 11),

10=-186 (LC 13), 11=-126 (LC 13), 12=-135 (LC 13), 14=-137 (LC 12), 15=-125 (LC 12), 16=-183 (LC 12)

Max Grav 1=218 (LC 21), 9=198 (LC 22), 10=284 (LC 20), 11=182 (LC 2

10=284 (LC 20), 11=182 (LC 20), 12=219 (LC 20), 13=204 (LC 13), 14=222 (LC 19), 15=179 (LC 19),

16=282 (LC 19)

FORCES (lb) - Maximum Compression/Maximum

Tension
TOP CHORD 1-2=-326

1-2=-326/207, 2-3=-178/135, 3-4=-145/110,

4-5=-177/178, 5-6=-177/167, 6-7=-104/74,

7-8=-145/83, 8-9=-295/203

BOT CHORD 1-15=-168/251, 14-15=-168/251, 13-14=-168/251, 12-13=-168/251,

11-12=-168/251, 10-11=-168/251,

9-10=-168/251

WEBS 5-13=-180/126, 4-14=-185/161,

3-15=-174/150, 2-16=-241/204, 6-12=-185/158, 7-11=-174/151,

8-10=-244/206

Unbalanced roof live loads have been considered for
 this desire.

- 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) 0-4-1 to 5-4-1, Interior (1) 5-4-1 to 8-11-12, Exterior(2R) 8-11-12 to 13-11-12, Interior (1) 13-11-12 to 17-7-7 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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.
- 5) 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 75 lb uplift at joint 1, 39 lb uplift at joint 9, 137 lb uplift at joint 14, 125 lb uplift at joint 15, 183 lb uplift at joint 16, 135 lb uplift at joint 12, 126 lb uplift at joint 11 and 186 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



NOTES

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

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



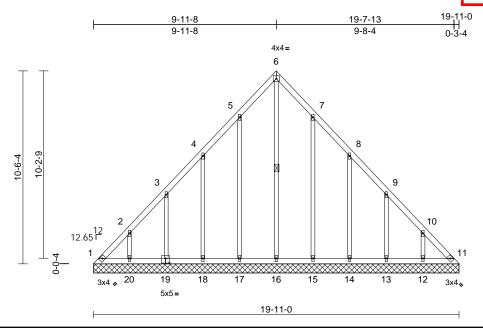
						_
Job	Truss	Truss Type	Qty	Ply	Roof - HM Lot 208	
P240760-01	LG2	Lay-In Gable	1	1	Job Reference (optional	

S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 165760556 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION

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

Run: 8.63 S Apr 26 2024 Print: 8.630 S Apr 26 2024 MiTek Industries, Inc. V ed May 2007; ID:snFyH7bqKHEyBhITgEEKEGzEAIs-RfC?PsB70Hq3NSgPqnL8w3uITXbG WrCDow42017



Scale = 1:62.8

Plate Offsets (X,	Y):	[19:0-2-8,0-3-0]	ı
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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	0.08	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	0.28	Horiz(TL)	0.01	11	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 110 lb	FT = 20%

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

**BRACING** 

LUMBER

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins.

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

bracing.

WEBS 1 Row at midnt 6-16

REACTIONS (size) 1=19-11-0, 11=19-11-0,

12=19-11-0, 13=19-11-0, 14=19-11-0, 15=19-11-0, 16=19-11-0, 17=19-11-0,

18=19-11-0, 19=19-11-0, 20=19-11-0

Max Horiz 1=288 (LC 9)

1=-132 (LC 10), 11=-88 (LC 11), Max Uplift 12=-138 (LC 13), 13=-135 (LC 13),

14=-143 (LC 13), 15=-128 (LC 13), 17=-131 (LC 12), 18=-141 (LC 12),

19=-136 (LC 12), 20=-139 (LC 12) Max Grav 1=285 (LC 12), 11=255 (LC 13),

12=209 (LC 20), 13=206 (LC 20), 14=207 (LC 20), 15=212 (LC 20), 16=231 (LC 13), 17=215 (LC 19),

18=206 (LC 19), 19=208 (LC 19), 20=208 (LC 19)

FORCES (lb) - Maximum Compression/Maximum

Tension TOP CHORD

1-2=-411/253, 2-3=-284/195, 3-4=-177/143, 4-5=-150/134, 5-6=-194/198, 6-7=-194/185,

7-8=-105/94, 8-9=-134/84, 9-10=-242/148, 10-11=-369/250

BOT CHORD

1-20=-189/282, 18-20=-189/283, 17-18=-187/282, 16-17=-187/282, 15-16=-187/282, 14-15=-187/282, 13-14=-187/282, 12-13=-187/282, 11-12=-187/281

**WEBS** 6-16=-207/148, 5-17=-176/155, 4-18=-191/165, 3-19=-186/162,

2-20=-181/155, 7-15=-176/152, 8-14=-191/166, 9-13=-185/160, 10-12=-181/155

### NOTES

- 1) Unbalanced roof live loads have been considered for this design
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-4-1 to 5-4-1. Interior (1) 5-4-1 to 9-11-12, Exterior(2R) 9-11-12 to 14-11-12, Interior (1) 14-11-12 to 19-7-7 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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.
- 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.

- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 132 lb uplift at joint 1, 88 lb uplift at joint 11, 131 lb uplift at joint 17, 141 Ib uplift at joint 18, 136 lb uplift at joint 19, 139 lb uplift at joint 20, 128 lb uplift at joint 15, 143 lb uplift at joint 14, 135 lb uplift at joint 13 and 138 lb uplift at joint 12.
- 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





Job Truss Truss Type Qty Ply Roof - HM Lot 208 P240760-01 LG3 Lay-In Gable

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

LEE'S SUMMIT. MISSOURI Job Reference (optiona Run: 8.63 S Apr 26 2024 Print: 8.630 S Apr 26 2024 MiTek Industries, Inc. V ed May 2

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW

DEVELOPMENT SERVICES 165760557

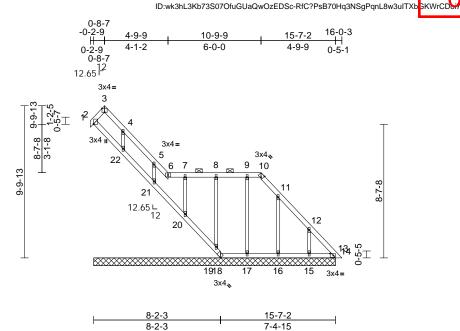


Plate Offsets (X, Y): [3:Edge,0-3-0], [10:0-1-7,Edge], [13:0-2-7,0-1-8]

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	0.14	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.15	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.10	Horz(CT)	0.01	13	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 77 lb	FT = 20%

LUMBER

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

**BRACING** 

**BOT CHORD** 

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins, except

2-0-0 oc purlins (6-0-0 max.): 6-10. Rigid ceiling directly applied or 10-0-0 oc

bracing.

REACTIONS (size) 2=15-7-2, 13=15-7-2, 15=15-7-2, 16=15-7-2, 17=15-7-2, 18=15-7-2,

19=15-7-2, 20=15-7-2, 21=15-7-2, 22=15-7-2

Max Horiz 2=-394 (LC 13)

Max Uplift 2=-73 (LC 11), 13=-57 (LC 11), 15=-148 (LC 13), 16=-155 (LC 13), 17=-98 (LC 13), 18=-339 (LC 13),

19=-50 (LC 9), 20=-39 (LC 9),

21=-130 (LC 13)

Max Grav 2=279 (LC 13), 13=250 (LC 13), 15=216 (LC 20), 16=201 (LC 20), 17=175 (LC 26), 18=129 (LC 11),

19=174 (LC 1), 20=190 (LC 1), 21=205 (LC 20), 22=163 (LC 1)

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

Tension

TOP CHORD 1-2=0/0. 2-3=-57/46. 3-4=-113/115. 4-5=-83/76, 5-6=-55/50, 6-7=-49/31

7-8=-49/31, 8-9=-49/31, 9-10=-49/31, 10-11=-90/48, 11-12=-229/180, 12-13=-363/292, 13-14=0/2

**BOT CHORD** 2-22=-311/389, 21-22=-336/425 20-21=-330/415, 19-20=-331/420,

18-19=-335/452, 17-18=-218/282, 16-17=-218/282, 15-16=-218/282,

13-15=-218/282

**WEBS** 

8-19=-136/67, 7-20=-148/63, 5-21=-183/144, 4-22=-122/38, 9-17=-150/118, 11-16=-202/182, 12-15=-192/162

NOTES

- Unbalanced roof live loads have been considered for 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 Corner(3E) 0-0-0 to 5-0-2, Exterior(2N) 5-0-2 to 11-0-2, Corner(3E) 11-0-2 to 16-0-5 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.
- Provide adequate drainage to prevent water ponding.
- 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.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 73 lb uplift at joint 2, 339 lb uplift at joint 18, 57 lb uplift at joint 13, 50 lb uplift at joint 19, 39 lb uplift at joint 20, 130 lb uplift at joint 21, 98 lb uplift at joint 17, 155 lb uplift at joint 16 and 148 lb uplift at joint 15.
- 11) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 2, 19, 20, 21, 22.
- 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.

13) 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



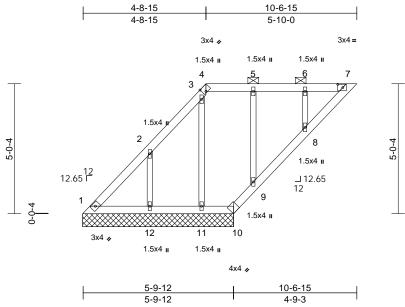
Job Truss Truss Type Qty Ply Roof - HM Lot 208 P240760-01 LG4 Lay-In Gable

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

DEVELOPMENT SERVICES 165760558 LEE'S SUMMIT. MISSOURI Job Reference (optional

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW

Run: 8.63 S Apr 26 2024 Print: 8.630 S Apr 26 2024 MiTek Industries, Inc. V ed May 2 ID:dvGYZiveSrIFFlk2FuacAUzbfN0-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4



Scale = 1:44.5

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

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	0.27	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	0.15	Horiz(TL)	0.00	10	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 46 lb	FT = 20%

### LUMBER

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

**BRACING** 

**BOT CHORD** 

TOP CHORD Structural wood sheathing directly applied or

8-7-12 oc purlins, except

2-0-0 oc purlins (10-0-0 max.): 4-7.

Rigid ceiling directly applied or 6-0-0 oc

bracing.

REACTIONS (size) 1=5-10-0, 10=5-10-0, 11=5-10-0,

12=5-10-0

Max Horiz 1=215 (LC 9) Max Uplift

1=-132 (LC 26), 10=-274 (LC 9), 11=-81 (LC 9), 12=-175 (LC 12)

1=217 (LC 9), 10=560 (LC 26),

Max Grav

11=206 (LC 1), 12=257 (LC 19) (lb) - Maximum Compression/Maximum

**FORCES** Tension

1-2=-461/295, 2-3=-331/295, 3-4=-84/58,

TOP CHORD

4-5=-162/160, 5-6=-163/161, 6-7=-162/161

**BOT CHORD** 1-12=-167/35, 11-12=-167/35, 10-11=-167/35, 9-10=-431/192, 8-9=-242/98,

7-8=-223/179

**WEBS** 6-8=-94/58, 5-9=-232/144, 3-11=-309/287, 2-12=-237/195

### NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00: Cat. II: Exp C: Enclosed: MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-4-1 to 4-9-3, Exterior(2R) 4-9-3 to 9-9-3, Interior (1) 9-9-3 to 10-3-2 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 studs spaced at 2-0-0 oc. 6)
- This truss has been designed for a 10.0 psf bottom 7) 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 132 lb uplift at joint 1, 274 lb uplift at joint 10, 81 lb uplift at joint 11 and 175 lb uplift at joint 12.
- 10) N/A
- 11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard



May 22,2024





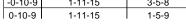


Job Truss Truss Type Qty Ply Roof - HM Lot 208 P240760-01 M1 Half Hip Job Reference (optional

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

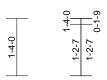
LEE'S SUMMIT. MISSOURI ed May 2187: /rCDoi7 Run: 8.63 S Apr 26 2024 Print: 8.630 S Apr 26 2024 MiTek Industries, Inc. V ed May 2 ID:2WuDn3TsUZ8mtlEISN0jjZzbevu-RfC?PsB70Hq3NSgPqnL8w3uITXbGK\

-0-10-9	1-11-15	3-5-8
0-10-9	1-11-15	1-5-9

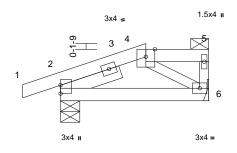


5x5 =

12 4 Г







3-5-8



RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW

DEVELOPMENT SERVICES 165760559

Scale = 1:26.9

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.06	Vert(LL)	-0.01	2-6	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.14	Vert(CT)	-0.02	2-6	>999	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.04	Horz(CT)	0.00	6	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 16 lb	FT = 20%

LUMBER

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

SLIDER Left 2x4 SP No.2 -- 1-5-7

BRACING

TOP CHORD Structural wood sheathing directly applied or

3-5-9 oc purlins, except end verticals, and

2-0-0 oc purlins: 4-5.

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

bracing.

REACTIONS (size) 2=0-5-7, 6= Mechanical

Max Horiz 2=41 (LC 9)

Max Uplift 2=-76 (LC 8), 6=-30 (LC 8)

Max Grav 2=221 (LC 1), 6=143 (LC 1)

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

TOP CHORD 1-2=-5/0, 2-4=-139/127, 4-5=-20/24,

5-6=-48/59 BOT CHORD 2-6=-135/98

**WEBS** 4-6=-106/150

### NOTES

- 1) Unbalanced roof live loads have been considered for
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 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 2 SP No.2 crushing capacity of 565 psi.
- Refer to girder(s) for truss to truss connections.

- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 30 lb uplift at joint 6 and 76 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.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

OF MISSO NATHANIEL FOX PE-2022042259 SSIONAL





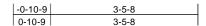
Truss Type Ply Job Truss Qty Roof - HM Lot 208 P240760-01 M2 Monopitch Job Reference (optional

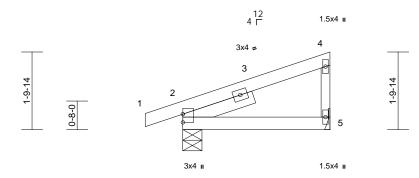
Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083,

S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 165760560 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION

ID:WiSb?PUUFtGdVvpU04XyGnzbevt-RfC?PsB70Hq3NSgPqnL8w3ulTXbG WrCDoll 4239 ft





3-5-8

Scale = 1:27.1

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.26	Vert(LL)	-0.01	2-5	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.13	Vert(CT)	-0.02	2-5	>999	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	5	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 16 lb	FT = 20%

LOAD CASE(S) Standard

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

SLIDER Left 2x4 SP No.2 -- 1-8-12

BRACING

LUMBER

TOP CHORD Structural wood sheathing directly applied or 3-5-9 oc purlins, except end verticals. **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc

bracing.

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

Max Horiz 2=69 (LC 9)

Max Uplift 2=-72 (LC 8), 5=-37 (LC 12) Max Grav 2=221 (LC 1), 5=143 (LC 1) (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-5/0, 2-4=-90/54, 4-5=-109/175

BOT CHORD 2-5=-31/33

### NOTES

**FORCES** 

- 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
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Bearings are assumed to be: Joint 2 SP 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 37 lb uplift at joint 5 and 72 lb uplift at joint 2.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



May 22,2024



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 - HM Lot 208 P240760-01 M3 Half Hip

Job Reference (optional

S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 165760561 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION

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

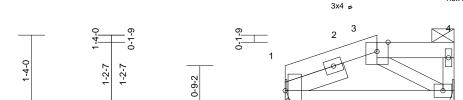
ID:WiSb?PUUFtGdVvpU04XyGnzbevt-RfC?PsB70Hq3NSgPqnL8w3ulTXbG WrCDoi 142394

1.5x4 II

3x4 =









3-2-0

Scale = 1:21.6

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.05	Vert(LL)	-0.01	1-5	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.11	Vert(CT)	-0.01	1-5	>999	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.04	Horz(CT)	0.00	5	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 13 lb	FT = 20%

3x6 II

LUMBER

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

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

BRACING

TOP CHORD Structural wood sheathing directly applied or

3-5-5 oc purlins, except end verticals, and

2-0-0 oc purlins: 3-4.

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

bracing.

REACTIONS (size) 1= Mechanical, 5= Mechanical

Max Horiz 1=42 (LC 11)

Max Uplift 1=-27 (LC 8), 5=-33 (LC 8)

Max Grav 1=138 (LC 1), 5=138 (LC 1)

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

TOP CHORD 1-3=-125/126, 3-4=-20/24, 4-5=-47/58

**BOT CHORD** 1-5=-132/87 WEBS 3-5=-103/147

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 27 lb uplift at joint 1 and 33 lb uplift at joint 5.

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

LOAD CASE(S) Standard





Ply Job Truss Truss Type Qty Roof - HM Lot 208 P240760-01 M4 Roof Special

Job Reference (optional

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 165760562 LEE'S SUMMIT. MISSOURI

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

Run: 8.63 S Apr 26 2024 Print: 8.630 S Apr 26 2024 MiTek Industries, Inc. V ed May 2 ID:WiSb?PUUFtGdVvpU04XyGnzbevt-RfC?PsB70Hq3NSgPqnL8w3uITXbGkWrCDoil 4294

1-8-10	3-2-0
1-8-10	1-5-5

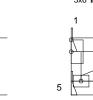
12 4 Г

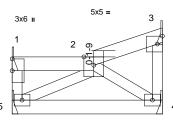
4x4 II

3x4 =

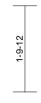












3-2-0

Scale = 1:	24.3
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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	0.05	Vert(LL)	0.00	4-5	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.10	Vert(CT)	-0.01	4-5	>999	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 14 lb	FT = 20%

3x4 =

### LUMBER

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

### **BRACING**

TOP CHORD Structural wood sheathing directly applied or

3-2-0 oc purlins, except end verticals, and

2-0-0 oc purlins: 1-2.

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

bracing.

**REACTIONS** (size) 1= Mechanical, 3= Mechanical, 4= Mechanical, 5= Mechanical

Max Horiz 1=35 (LC 9), 5=35 (LC 11) Max Uplift 1=-25 (LC 8), 3=-20 (LC 9), 4=-10

(LC 8), 5=-4 (LC 8)

Max Grav 1=56 (LC 1), 3=47 (LC 1), 4=82

(LC 1), 5=81 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-5=0/0, 1-2=-63/40, 2-3=-51/38, 3-4=0/0

BOT CHORD 4-5=-97/73

WEBS 2-5=-100/104, 2-4=-89/109

### 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 1-8-10, Interior (1) 1-8-10 to 3-0-12 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
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 4 lb uplift at joint 5, 25 lb uplift at joint 1, 20 lb uplift at joint 3 and 10 lb uplift at joint 4.

- N/A
- 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.
- Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.

LOAD CASE(S) Standard



May 22,2024





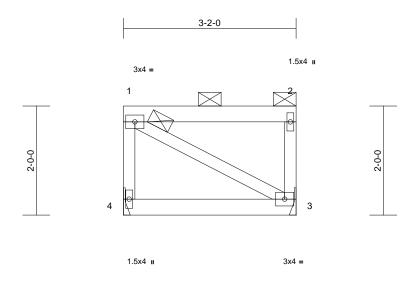
Ply Truss Type Job Truss Qty Roof - HM Lot 208 P240760-01 M<sub>5</sub> Monopitch

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

DEVELOPMENT SERVICES 165760563 LEE'S SUMMIT. MISSOURI Job Reference (optional

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW

ID:WiSb?PUUFtGdVvpU04XyGnzbevt-RfC?PsB70Hq3NSgPqnL8w3ulTXbG WrCDolw4229 Ff



Scale = 1:21.1

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.21	Vert(LL)	0.00	3-4	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.10	Vert(CT)	-0.01	3-4	>999	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.02	Horz(CT)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 14 lb	FT = 20%

LOAD CASE(S) Standard

3-2-0

LUMBER TOP CHORD **BOT CHORD** 

2x4 SP No.2 2x4 SP No.2 2x3 SPF No.2

WEBS **BRACING** 

TOP CHORD

2-0-0 oc purlins: 1-2, except end verticals. **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (size) 3= Mechanical, 4= Mechanical

Max Horiz 4=-70 (LC 8)

Max Uplift 3=-49 (LC 9), 4=-49 (LC 8) Max Grav 3=133 (LC 1), 4=133 (LC 1) (lb) - Maximum Compression/Maximum

**FORCES** Tension

1-4=-103/193, 1-2=-35/38, 2-3=-103/157

**BOT CHORD** 3-4=-98/101 **WEBS** 1-3=-72/72

### NOTES

TOP 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 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.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 49 lb uplift at joint 4 and 49 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.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



May 22,2024



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 - HM Lot 208 P240760-01 M6 Monopitch Job Reference (optional

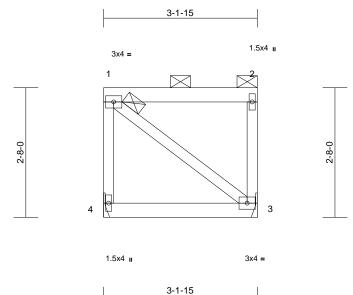
Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083,

LEE'S SUMMIT. MISSOURI

ID:WiSb?PUUFtGdVvpU04XyGnzbevt-RfC?PsB70Hq3NSgPqnL8w3ulTXbG WrCDolw4229 ff 3-1-15

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW

DEVELOPMENT SERVICES 165760564



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	0.21	Vert(LL)	0.00	3-4	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.10	Vert(CT)	-0.01	3-4	>999	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.04	Horz(CT)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 16 lb	FT = 20%

LOAD CASE(S) Standard

LUMBER TOP CHORD

2x4 SP No.2

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

**BRACING** 

TOP CHORD 2-0-0 oc purlins: 1-2, except end verticals. **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc

bracing.

REACTIONS (size) 3= Mechanical, 4= Mechanical

Max Horiz 4=97 (LC 9)

Max Uplift 3=-68 (LC 9), 4=-68 (LC 8) Max Grav 3=133 (LC 1), 4=133 (LC 1)

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

Tension

TOP CHORD 1-4=-124/227, 1-2=-49/53, 2-3=-103/157

**BOT CHORD** 3-4=-136/140 **WEBS** 1-3=-112/112

### 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.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 68 lb uplift at joint 4 and 68 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.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



May 22,2024



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



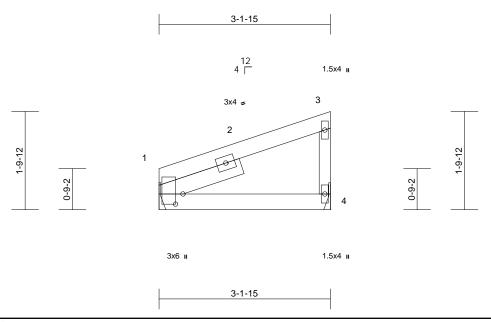
Job Truss Truss Type Qty Ply Roof - HM Lot 208 P240760-01 M7 Monopitch Job Reference (optional

S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 165760565 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION

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

ID:WiSb?PUUFtGdVvpU04XyGnzbevt-RfC?PsB70Hq3NSgPqnL8w3ulTXbG WrCDoll 4239 ft



Scale = 1:21.3

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.24	Vert(LL)	-0.01	1-4	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.11	Vert(CT)	-0.01	1-4	>999	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 13 lb	FT = 20%

### LUMBER

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

**SLIDER** Left 2x4 SP No.2 -- 1-7-5

### BRACING

TOP CHORD Structural wood sheathing directly applied or 3-1-15 oc purlins, except end verticals. **BOT CHORD** 

Rigid ceiling directly applied or 10-0-0 oc

bracing.

REACTIONS (size) 1= Mechanical, 4= Mechanical

Max Horiz 1=70 (LC 9)

Max Uplift 1=-23 (LC 8), 4=-38 (LC 12) Max Grav 1=138 (LC 1), 4=138 (LC 1)

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

Tension

TOP CHORD 1-3=-85/52, 3-4=-107/162

BOT CHORD 1-4=-30/33

### NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 23 lb uplift at joint 1 and 38 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



May 22,2024



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



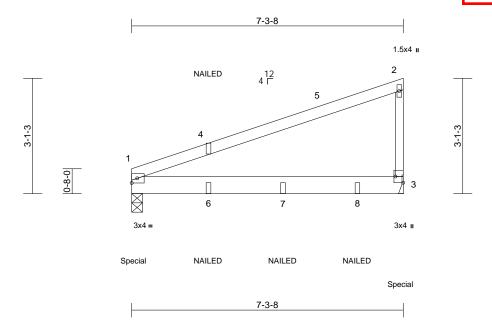
						4
Job	Truss	Truss Type	Qty	Ply	Roof - HM Lot 208	Г
P240760-01	M8	Monopitch Girder	1	1	Job Reference (optional)	

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

DEVELOPMENT SERVICES 165760566 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW

Run: 8.63 S Apr 26 2024 Print: 8.630 S Apr 26 2024 MiTek Industries, Inc. V ed May 21197 ID:tfFU26Yd3PvwbghSod77zqzbevo-RfC?PsB70Hq3NSgPqnL8w3ulTXbGK VrCDoi7



Scale = 1:30.9

Plate Offsets (X, Y): [3: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	0.63	Vert(LL)	0.07	1-3	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.67	Vert(CT)	-0.13	1-3	>661	180		
BCLL	0.0	Rep Stress Incr	NO	WB	0.00	Horz(CT)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 27 lb	FT = 20%

### LUMBER

TOP CHORD 2x4 SP 2400F 2.0E 2x6 SPF No.2 **BOT CHORD** 2x3 SPF No.2 WEBS

**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 1=0-3-8, 3= Mechanical (size)

Max Horiz 1=128 (LC 28)

Max Uplift 1=-143 (LC 8), 3=-215 (LC 12)

Max Grav 1=558 (LC 1), 3=619 (LC 1) (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-183/102, 2-3=-246/327

BOT CHORD 1-3=-55/60

### NOTES

**FORCES** 

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-1-12 to 5-1-12, Interior (1) 5-1-12 to 7-2-4 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 1 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 143 lb uplift at joint 1 and 215 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.

- 7) "NAILED" indicates Girder: 3-10d (0.148" x 3") toe-nails per NDS guidelines.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 129 lb down and 33 lb up at 0-1-12, and 128 lb down and 28 lb up at 7-2-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

### LOAD CASE(S) Standard

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

Uniform Loads (lb/ft) Vert: 1-2=-70. 1-3=-20

Concentrated Loads (lb)

Vert: 1=-129 (B), 3=-128 (B), 6=-61 (B), 7=-113 (B),

8=-113 (B)





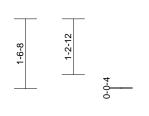


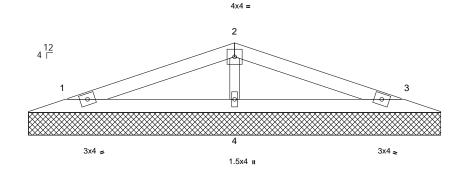
Truss Type Job Truss Qty Ply Roof - HM Lot 208 P240760-01 V1 Valley Job Reference (optional RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 165760567 LEE'S SUMMIT. MISSOURI

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

Run: 8.63 S Apr 26 2024 Print: 8.630 S Apr 26 2024 MiTek Industries, Inc. V ed May 2 ID:82QJHwSs83Y2lwv7j9oYtZzbfH9-RfC?PsB70Hq3NSgPqnL8w3ulTXbGK\ /rCDoi7

4-6-12	8-3-1	9-1-8
4-6-12	3-8-5	0-10-7





9-1-8

Scale = 1:25.5

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	0.21	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	0.06	Horiz(TL)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 26 lb	FT = 20%

### LUMBER

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

### **BRACING**

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins.

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

bracing.

REACTIONS (size) 1=9-1-8, 3=9-1-8, 4=9-1-8

Max Horiz 1=-23 (LC 17)

Max Uplift 1=-36 (LC 8), 3=-39 (LC 13), 4=-44 (LC 8)

1=149 (LC 25), 3=149 (LC 26), Max Grav

4=375 (LC 1)

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

Tension

TOP CHORD 1-2=-60/50, 2-3=-60/52 **BOT CHORD** 1-4=-1/23, 3-4=-1/23 WEBS 2-4=-264/261

### 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 36 lb uplift at joint 1, 39 lb uplift at joint 3 and 44 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



May 22,2024



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 - HM Lot 208

 P240760-01
 V2
 Valley
 1
 1
 Job Reference (optional)

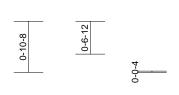
AS NOTED FOR PLAN REVIEW
DEVELOPMENT SERVICES
165760568
LEE'S SUMMIT, MISSOURI

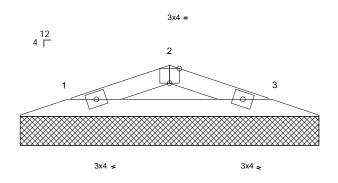
RELEASE FOR CONSTRUCTION

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

Run: 8.63 S Apr 26 2024 Print: 8.630 S Apr 26 2024 MiTek Industries, Inc. V ed May 2167 06/29:20
ID:82QJHwSs83Y2lwv7j9oYtZzbfH9-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKVrCDoi742JS7

i			
2-6-12	4-3-1	5-1-8	
2-6-12	1-8-5	0-10-7	





1	5-1-8	

Scale = 1:19.8

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	0.10	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	0.00	Horiz(TL)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 13 lb	FT = 20%

### LUMBER

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

### BRACING

TOP CHORD Structural wood sheathing directly applied or 5-3-0 oc purlins.

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

bracing.

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

Max Horiz 1=11 (LC 16)

Max Uplift 1=-27 (LC 8), 3=-27 (LC 9) Max Grav 1=152 (LC 1), 3=152 (LC 1) (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-198/239, 2-3=-198/243

BOT CHORD 1-3=-200/173

### NOTES

**FORCES** 

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

- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 27 lb uplift at joint 1 and 27 lb uplift at joint 3.
- 9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



Way 22,202





# RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES LEE'S SUMMILL' MISSOURI Offsets are indicated. Dimensions are in ft-in-sixteenths. Apply plates to both sides of truss and fully embed teeth.

For 4 x 2 orientation, locate plates 0- <sup>1</sup>/18<sup>8</sup> from outside edge of truss.

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

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

### PLATE SIZE

4 × 4

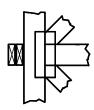
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

## LATERAL BRACING LOCATION



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

### **BEARING**



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

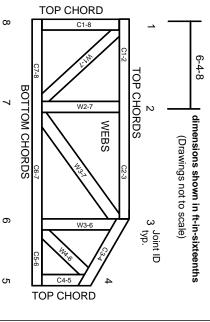
### Industry Standards:

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

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

ANSI/TPI1: DSB-22:

## **Numbering System**



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

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

# Product Code Approvals

ICC-ES Reports:

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

# Design General Notes

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

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

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## 

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

## **General Safety Notes**

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

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

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

'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.

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

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