

RE: P220523-P220523-02

Roof

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

Site Information:

Customer: Clover & Hive Project Name: P220523-P220523-02 Lot/Block: 51 Model:

Address: TBD Subdivision: Osage

City: Lee's Summit State: MO

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

Design Code: IRC2018/TPI2014 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 25 individual, dated Truss Design Drawings and 0 Additional Drawings.

No.	Seal#	Truss Name	Date	No.	Seal#	Truss Name	Date
1	155389392	A1	11/22/2022	21	155389412	V4	11/22/2022
2	155389393	A2	11/22/2022	22	155389413	V5	11/22/2022
3	155389394	A3	11/22/2022	23	155389414	V6	11/22/2022
4	155389395	A4	11/22/2022	24	155389415	V7	11/22/2022
5	155389396	A5	11/22/2022	25	155389416	V8	11/22/2022
6	155389397	A6	11/22/2022				
7	155389398	B1	11/22/2022				
8	155389399	B2	11/22/2022				
9	155389400	B3	11/22/2022				
10	155389401	C1	11/22/2022				
11	155389402	C2	11/22/2022				
12	155389403	C3	11/22/2022				
13	155389404	C4	11/22/2022				
14	155389405	D1	11/22/2022				
15	155389406	D2	11/22/2022				
16	155389407	PB1	11/22/2022				
17	155389408	PB2	11/22/2022				
18	155389409	V1	11/22/2022				
19	155389410	V2	11/22/2022				
20	155389411	V3	11/22/2022				

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

MiTek USA, Inc under my direct supervision

based on the parameters provided by .

Truss Design Engineer's Name: Sevier, Scott

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

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.



**NOTED ON PLANS REVIEW** EXELORMENT3 SERVICES (Springhill, KS), Sp 1:43:01

Truss Type

Piggyback Base Structural Gable

Qty Ply

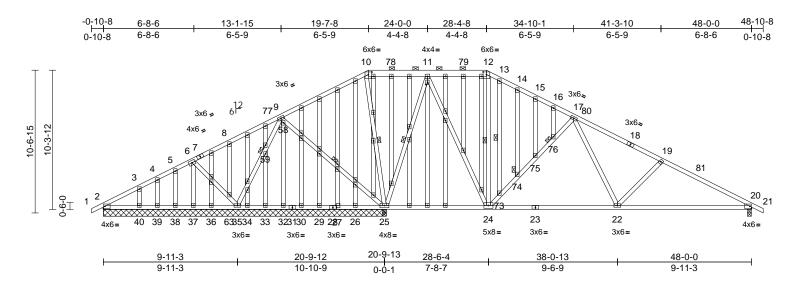
Roof

Job Reference (optional)

Page: 1

155389392

2 lills. KS - 66083. Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Mon Nov 21 15:26:41 ID:EmCXOiXYCML5IKd?OVTvI7yGxE5-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Scale = 1:85.3

Plate Offsets (X, Y): [10:0-3-0,0-2-7], [11:0-1-7,0-1-8], [12:0-3-0,0-2-7], [27:0-2-0,0-1-0]

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	0.65	Vert(LL)	-0.23	20-22	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	вс	0.98	Vert(CT)	-0.49	20-22	>668	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.83	Horz(CT)	0.02	20	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 419 lb	FT = 20%

LUMBER 2x4 SP No.2 \*Except\* 10-12:2x6 SPF No.2 TOP CHORD **BOT CHORD** 2x4 SP No.2 2x4 SPF No.3 WEBS 2x4 SPF No.3 OTHERS

**BRACING** 

TOP CHORD Structural wood sheathing directly applied or

3-4-2 oc purlins, except

2-0-0 oc purlins (6-0-0 max.): 10-12.

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

bracing, Except: 10-0-0 oc bracing: 22-24

2-2-0 oc bracing: 20-22.

WFBS 1 Row at midpt 9-25, 10-25, 11-25, 12-24, 13-73

**JOINTS** 1 Brace at Jt(s): 59,

REACTIONS (size) 2=20-11-8 20=0-3-8 25=20-11-8 26=20-11-8, 27=20-11-8,

29=20-11-8. 30=20-11-8. 32=20-11-8, 33=20-11-8, 34=20-11-8, 35=20-11-8,

36=20-11-8, 37=20-11-8, 38=20-11-8, 39=20-11-8, 40=20-11-8

Max Horiz 2=193 (LC 16)

Max Uplift 2=-26 (LC 13), 20=-229 (LC 13), 25=-250 (LC 13), 26=-51 (LC 3),

32=-81 (LC 12), 35=-210 (LC 12), 38=-2 (LC 12), 39=-35 (LC 12),

40=-84 (LC 12)

2=187 (LC 25), 20=1063 (LC 26), Max Grav 25=2315 (LC 1), 26=-9 (LC 13),

27=99 (LC 3), 29=41 (LC 3), 30=57 (LC 3), 32=203 (LC 1), 33=50 (LC 3), 34=29 (LC 3), 35=369 (LC 25), 36=71 (LC 3), 37=46 (LC 3), 38=69 (LC 25), 39=97 (LC 1), 40=224 (LC

**FORCES** 

(lb) - Maximum Compression/Maximum Tension

TOP CHORD

1-2=0/17, 2-3=-127/174, 3-4=-60/159, 4-5=-52/155, 5-6=-23/175, 6-8=-57/271, 8-9=0/334, 9-10=0/704, 10-11=0/627, 11-12=-264/243, 12-13=-232/221, 13-14=-273/216, 14-15=-305/204, 15-16=-317/181, 16-17=-413/196, 17-19=-1286/329, 19-20=-1595/367,

20-21=0/17

**BOT CHORD** 2-40=-139/182 39-40=-139/182

38-39=-139/182, 37-38=-139/182, 36-37=-139/182, 35-36=-139/182,

34-35=-340/254, 33-34=-340/254, 32-33=-340/254, 30-32=-340/254, 29-30=-340/254, 27-29=-340/254, 26-27=-340/254, 25-26=-340/254, 24-25=-220/281, 22-24=-26/808,

20-22=-226/1343

**WEBS** 6-63=-212/125, 35-63=-324/193,

35-59=-63/329, 9-59=-68/341, 9-58=-486/204, 25-58=-352/140, 10-25=-647/119, 11-25=-1377/253,

11-24=-193/1107, 12-24=-236/60, 24-73=-817/320, 73-74=-816/325, 74-75=-806/315, 75-76=-758/286, 17-76=-831/325, 17-22=-75/577, 19-22=-415/262, 32-58=-178/96,

33-59=-5/13, 8-63=-150/90, 5-38=-38/19, 4-39=-85/48, 3-40=-165/108, 13-73=-8/6, 14-74=-14/13, 15-75=-67/40, 16-76=-53/100

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 4-0-0, Interior (1) 4-0-0 to 19-7-8, Exterior (2R) 19-7-8 to 26-8-6, Interior (1) 26-8-6 to 28-4-8, Exterior(2R) 28-4-8 to 35-5-6, Interior (1) 35-5-6 to 48-10-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Provide adequate drainage to prevent water ponding.
- All plates are 3x4 MT20 unless otherwise indicated.
- Gable studs spaced at 1-4-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.



November 22,2022

Continued on page 2

Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not

Design Valid to its 90 mly with win New Commercials. This design is based only upon parameters shown, and is 10 at an individual outlining 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/TPI Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



16023 Swingley Ridge Rd Chesterfield, MO 63017

NOTED ON PLANS REVIEW EXELOPMENT SERVICES MMIT, MISSOURI g supply (Springhill, KS), Spi 022 1:43:01

Truss Type

Piggyback Base Structural Gable

Qty Ply

2

Roof Job Reference (optional)

155389392

lills, KS - 66083,

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Mon Nov 21 15:26:41 ID: EmCXOiXYCML5IKd?OVTvI7yGxE5-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?ff

Page: 2

- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 26 lb uplift at joint 2, 210 lb uplift at joint 35, 250 lb uplift at joint 25, 51 lb uplift at joint 26, 81 lb uplift at joint 32, 2 lb uplift at joint 38, 35 lb uplift at joint 39, 84 lb uplift at joint 40 and 229 lb uplift at joint 20.
- 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

**NOTED ON PLANS!** REVIEW EXELOPMENT3 SERVICES (Springhill, KS), Sp. 1:43:02 lills. KS - 66083.

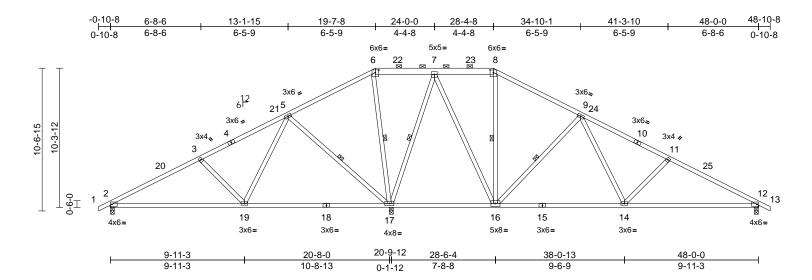
Truss Type Qtv Ply Roof 6 Piggyback Base

ID:Eh5q6SjuDTnlbtQwPDFzXnyGxF9-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

155389393

Job Reference (optional) Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Mon Nov 21 15:26:45

Page: 1



Scale = 1:85.3

Plate Offsets	(X, Y):	[6:0-3-0,0-2-7	], [8:0-3-0,0-2-7	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	0.75	Vert(LL)	-0.22	12-14	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.97	Vert(CT)	-0.47	12-14	>692	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.89	Horz(CT)	0.03	12	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 250 lb	FT = 20%

LUMBER

2x4 SP No.2 \*Except\* 6-8:2x6 SPF No.2 TOP CHORD **BOT CHORD** 2x4 SP No.2

2x4 SPF No.3 WEBS

**BRACING** 

TOP CHORD Structural wood sheathing directly applied or

3-4-7 oc purlins, except

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

bracing

WFBS 1 Row at midpt 5-17, 6-17, 7-17, 8-16,

9-16

REACTIONS (size) 2=0-3-8, 12=0-3-8, 17=0-3-8

Max Horiz 2=193 (LC 12)

Max Uplift 2=-137 (LC 12), 12=-235 (LC 13),

17=-316 (LC 12)

Max Grav 2=674 (LC 25), 12=1050 (LC 26),

17=2915 (LC 1)

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

Tension TOP CHORD

1-2=0/17, 2-3=-782/171, 3-5=-466/218,

5-6=-43/993, 6-7=0/891, 7-8=-231/254, 8-9=-364/230, 9-11=-1258/342,

11-12=-1566/379, 12-13=0/17

**BOT CHORD** 2-19=-247/628, 17-19=-330/267 16-17=-428/267 14-16=-27/783

12-14=-237/1318

WFBS 3-19=-449/267, 5-19=-69/622

5-17=-870/326, 6-17=-767/144

7-17=-1459/279, 7-16=-187/1185, 8-16=-322/71, 9-16=-820/318, 9-14=-71/584,

11-14=-419/259

### 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 19-7-8, Exterior(2R) 19-7-8 to 26-8-6, Interior (1) 26-8-6 to 28-4-8, Exterior(2R) 28-4-8 to 35-5-6, Interior (1) 35-5-6 to 48-10-8 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 3x6 MT20 unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 137 lb uplift at joint 2, 316 lb uplift at joint 17 and 235 lb uplift at joint
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 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

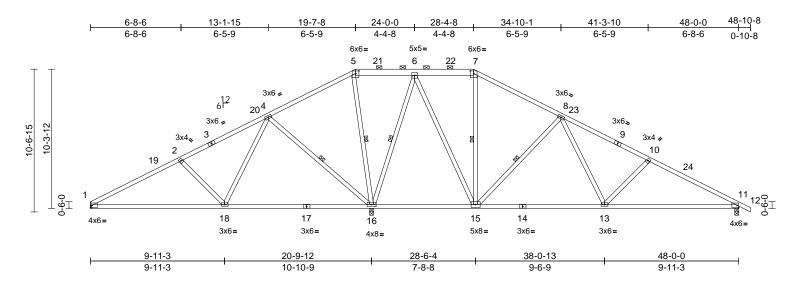




Truss Type Qtv Ply Roof 155389394 2 Piggyback Base Job Reference (optional)

lills. KS - 66083.

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Mon Nov 21 15:26:45 ID:\_BaRCVCQw9?42CIXuEbokKyGxNZ-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1



Scale = 1:85.3

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

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	0.74	Vert(LL)	-0.22	11-13	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.98	Vert(CT)	-0.47	11-13	>692	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.89	Horz(CT)	0.03	11	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 248 lb	FT = 20%

LUMBER

2x4 SP No.2 \*Except\* 5-7:2x6 SPF No.2 TOP CHORD

**BOT CHORD** 2x4 SP No.2 2x4 SPF No.3 WEBS

**BRACING** 

TOP CHORD Structural wood sheathing directly applied or

3-4-13 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 5-7.

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

bracing

WFBS 1 Row at midpt 4-16, 5-16, 6-16, 7-15,

8-15

REACTIONS (size) 1= Mechanical, 11=0-3-8, 16=0-3-8

Max Horiz 1=-197 (LC 17)

1=-112 (LC 12), 11=-235 (LC 13), Max Uplift

16=-319 (LC 12)

Max Grav 1=609 (LC 25), 11=1041 (LC 26),

16=2925 (LC 1)

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

TOP CHORD

Tension

1-2=-809/177, 2-4=-487/203, 4-5=-45/992, 5-6=0/901, 6-7=-215/253, 7-8=-345/228,

8-10=-1240/340, 10-11=-1549/378,

11-12=0/17

**BOT CHORD** 1-18=-254/656, 16-18=-318/267,

15-16=-455/269, 13-15=-25/767,

11-13=-235/1302

WFBS 2-18=-461/276, 4-18=-72/634

4-16=-880/327, 5-16=-768/146 6-16=-1462/282. 6-15=-190/1195.

7-15=-334/74, 8-15=-821/317, 8-13=-71/585,

10-13=-420/259

### 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) 0-0-12 to 5-0-12, Interior (1) 5-0-12 to 19-7-8, Exterior(2R) 19-7-8 to 26-8-6, Interior (1) 26-8-6 to 28-4-8, Exterior(2R) 28-4-8 to 35-5-6, Interior (1) 35-5-6 to 48-10-8 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 3x6 MT20 unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 112 lb uplift at joint 1, 319 lb uplift at joint 16 and 235 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







Truss Type Qty Ply Roof 155389395 2 Piggyback Base Job Reference (optional)

lills. KS - 66083.

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Mon Nov 21 15:26:46 ID:SN8pPrD2hT7xgLsjSx71GYyGxNY-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1

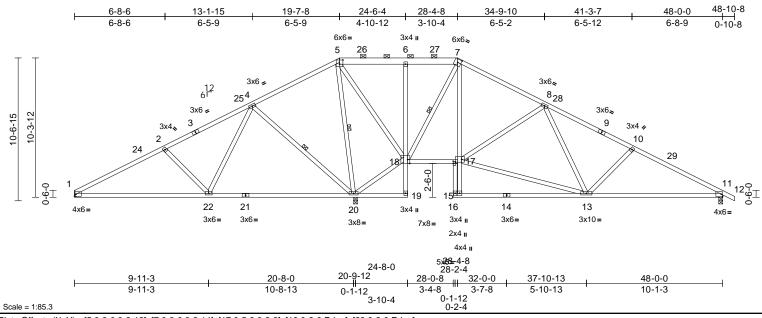


Plate Offsets (X, Y): [5:0-3-0,0-3-12], [7:0-3-0,0-2-14], [17:0-5-8,0-2-8], [18:0-2-0,Edge], [23:0-2-0,Edge]

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	0.77	Vert(LL)	-0.23	11-13	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.99	Vert(CT)	-0.48	11-13	>676	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.95	Horz(CT)	0.04	11	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 271 lb	FT = 20%

### LUMBER

TOP CHORD 2x4 SP No.2 \*Except\* 5-7:2x6 SPF No.2 2x4 SP No.2 \*Except\* 19-6,7-15:2x4 SPF BOT CHORD

No.3

2x4 SPF No.3 WFBS

### BRACING

**BOT CHORD** 

Structural wood sheathing directly applied or TOP CHORD

3-6-8 oc purlins, except

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

bracing. Except:

10-0-0 oc bracing: 15-17

WEBS 1 Row at midpt 4-20, 5-20, 7-18

REACTIONS (size)

1= Mechanical, 11=0-3-8, 20=0-3-8, (reg. 0-3-9)

Max Horiz 1=-197 (LC 13)

Max Uplift 1=-120 (LC 12), 11=-237 (LC 13),

20=-299 (LC 12)

1=575 (LC 25), 11=1003 (LC 26), Max Grav

20=3025 (LC 1)

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

Tension

TOP CHORD 1-2=-736/253, 2-4=-413/354, 4-5=-25/1116,

5-6=-3/615, 6-7=-4/612, 7-8=-295/207,

8-10=-1151/342, 10-11=-1467/382,

11-12=0/17 **BOT CHORD** 

1-22=-270/591, 20-22=-454/260,

19-20=-25/0, 18-19=-9/0, 6-18=-326/157, 17-18=-146/248, 15-17=0/184,

7-17=-120/739, 15-16=0/0, 13-15=0/74,

11-13=-239/1230

WEBS 2-22=-465/275, 4-22=-73/634

4-20=-878/326, 5-20=-1564/171 18-20=-1277/395, 5-18=-69/947, 7-18=-1207/200, 8-17=-786/335,

8-13=-51/495, 10-13=-427/261,

13-17=-58/766

- 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) 0-0-12 to 5-0-12, Interior (1) 5-0-12 to 19-7-8, Exterior(2R) 19-7-8 to 26-8-6, Interior (1) 26-8-6 to 28-4-8, Exterior(2R) 28-4-8 to 35-5-6, Interior (1) 35-5-6 to 48-10-8 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.
- WARNING: Required bearing size at joint(s) 20 greater than input bearing size.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 120 lb uplift at joint 1, 299 lb uplift at joint 20 and 237 lb uplift at joint
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 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



November 22,2022

NOTES

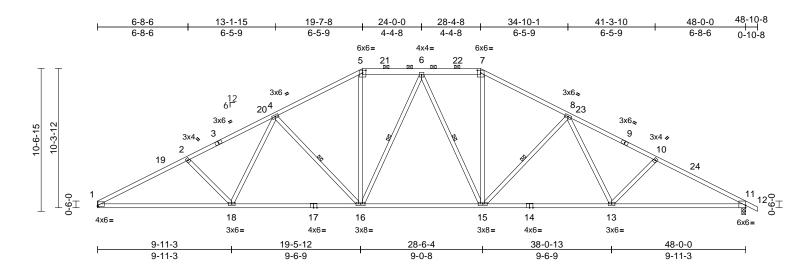


Truss Type Qty Ply Roof
Piggyback Base 10 1 Job Reference (optional)

lills, KS - 66083

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Mon Nov 21 15:26:47 ID:waiCdBDqSnFoHVRv0eeGplyGxNX-RfC?PsB70Hq3NSqPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:85.3

Plate Offsets (X, Y): [1:Edge,0-0-13], [5:0-3-0,0-2-7], [7:0-3-0,0-2-7], [11:Edge,0-2-1]

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	0.87	Vert(LL)	-0.28	15-16	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.85	Vert(CT)	-0.60	1-18	>959	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.39	Horz(CT)	0.23	11	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 248 lb	FT = 20%

### LUMBER

TOP CHORD 2x4 SP No.2 \*Except\* 5-7:2x6 SPF No.2,

1-3:2x4 SP 2400F 2.0E, 9-12:2x4 SP 1650F

1.5E

BOT CHORD 2x4 SP 1650F 1.5E

WEBS 2x4 SPF No.3

BRACING

TOP CHORD Structural wood sheathing directly applied,

except 2-0-0 oc purlins (4-6-13 max.): 5-7.

BOT CHORD Rigid ceiling directly applied or 9-2-1 oc

bracing

WEBS 1 Row at midpt 4-16, 6-16, 6-15, 8-15

REACTIONS (size)

(size) 1= Mechanical, 11=0-3-8

Max Horiz 1=-197 (LC 17)

Max Uplift 1=-292 (LC 12), 11=-318 (LC 13)

Max Grav 1=2150 (LC 1), 11=2223 (LC 1)

FORCES (lb) - Maximum

(lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-4065/639, 2-4=-3769/617,

4-5=-2928/574, 5-6=-2515/559, 6-7=-2511/561, 7-8=-2924/576,

8-10=-3738/608, 10-11=-4023/620, 11-12=0/17

BOT CHORD 1-18=-595/3528, 16-18=-380/3050,

15-16=-208/2579, 13-15=-347/3036,

11-13=-464/3477

WEBS 2-18=-374/265, 4-18=-75/540,

4-16=-775/316, 5-16=-114/884,

6-16=-401/165, 6-15=-408/165, 7-15=-113/883, 8-15=-762/315,

8-13=-69/519, 10-13=-341/253

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) 0-0-12 to 5-0-12, Interior (1) 5-0-12 to 19-7-8, Exterior(2R) 19-7-8 to 26-8-6, Interior (1) 26-8-6 to 28-4-8, Exterior(2R) 28-4-8 to 35-5-6, Interior (1) 35-5-6 to 48-10-8 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
- 3) 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.
- 5) Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 292 lb uplift at joint 1 and 318 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





**NOTED ON PLANS REVIEW** EXELOPMENT3 SERVICES lills. KS - 66083.

Truss Type

Piggyback Base Supported Gable

Qty Ply

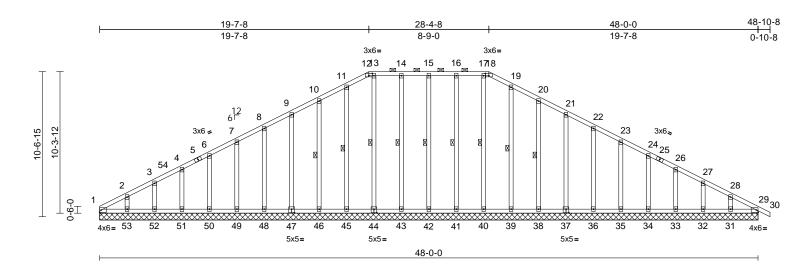
2

Roof

155389397 Job Reference (optional)

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Mon Nov 21 15:26:47 ID:JbPUB4NmDf0vUSJtFFIELayGxJT-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:84

Plate Offsets (X, Y):	[12:0-3-0,0-2-0], [18:0-3-0,0-	2-0], [37:0-2-8,0-3-0], [44:0-2	-8,0-3-0], [47:0-2-8,0-3-0]
-----------------------	--------------------------------	---------------------------------	-----------------------------

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	0.10	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.04	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.15	Horz(CT)	0.01	29	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 309 lb	FT = 20%

LUMBER TOP CHORD 2x4 SP No.2 **BOT CHORD** 2x4 SP No.2 2x4 SPF No.3 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.): 12-18. Rigid ceiling directly applied or 10-0-0 oc

bracing.

WFBS 15-42, 14-43, 13-44, 1 Row at midpt

11-45, 10-46, 16-41,

17-40, 19-39, 20-38

REACTIONS (size) 1=48-0-0, 29=48-0-0, 31=48-0-0, 32=48-0-0, 33=48-0-0, 34=48-0-0, 35=48-0-0, 36=48-0-0, 37=48-0-0, 38=48-0-0, 39=48-0-0, 40=48-0-0, 41=48-0-0, 42=48-0-0, 43=48-0-0, 44=48-0-0, 45=48-0-0, 46=48-0-0, 47=48-0-0, 48=48-0-0, 49=48-0-0, 50=48-0-0, 51=48-0-0, 52=48-0-0,

53=48-0-0 Max Horiz 1=-198 (LC 17)

Max Uplift 1=-15 (LC 13), 31=-78 (LC 13), 32=-61 (LC 13), 33=-61 (LC 13),

34=-61 (LC 13), 35=-61 (LC 13), 36=-61 (LC 13), 37=-60 (LC 13), 38=-69 (LC 13), 39=-36 (LC 13), 41=-46 (LC 9), 42=-39 (LC 8), 43=-47 (LC 8), 45=-43 (LC 12), 46=-67 (LC 12), 47=-60 (LC 12),

48=-61 (LC 12), 49=-61 (LC 12), 50=-61 (LC 12), 51=-62 (LC 12), 52=-58 (LC 12), 53=-94 (LC 12)

Max Grav 1=136 (LC 21), 29=158 (LC 1), 31=181 (LC 26), 32=179 (LC 26), 33=180 (LC 1), 34=180 (LC 26), 35=180 (LC 26), 36=180 (LC 1), 37=180 (LC 26), 38=181 (LC 1), 39=179 (LC 26), 40=179 (LC 22), 41=186 (LC 25), 42=180 (LC 1), 43=186 (LC 26), 44=191 (LC 22), 45=179 (LC 25), 46=181 (LC 1), 47=180 (LC 25), 48=180 (LC 1), 49=180 (LC 25), 50=180 (LC 25), 51=182 (LC 1), 52=174 (LC 25), 53=203 (LC 25)

(lb) - Maximum Compression/Maximum Tension

1-2=-274/94, 2-3=-206/93, 3-4=-158/107, 4-6=-117/121, 6-7=-91/149, 7-8=-72/176, 8-9=-74/204, 9-10=-93/257, 10-11=-113/314, 11-12=-127/353, 12-13=-114/338,

13-14=-114/338, 14-15=-114/338, 15-16=-114/338, 16-17=-114/338, 17-18=-114/338, 18-19=-127/353, 19-20=-113/314. 20-21=-93/257. 21-22=-74/204, 22-23=-56/150,

23-24=-48/96, 24-26=-52/42, 26-27=-78/28 27-28=-121/39, 28-29=-182/66, 29-30=0/17

1-53=-57/211, 52-53=-57/211, 51-52=-57/211, 50-51=-57/211, 49-50=-57/211, 48-49=-57/211, 46-48=-57/211, 45-46=-57/211, 43-45=-57/211,

42-43=-57/211, 41-42=-57/211, 40-41=-57/211, 39-40=-57/211, 38-39=-57/211, 36-38=-57/211, 35-36=-57/211, 34-35=-57/211,

33-34=-57/211, 32-33=-57/211, 31-32=-57/211, 29-31=-57/211

15-42=-140/73, 14-43=-146/82, 13-44=-151/9, 11-45=-139/67,

10-46=-141/107, 9-47=-140/95, 8-48=-140/97, 7-49=-140/97, 6-50=-140/96, 4-51=-141/102, 3-52=-136/140,

2-53=-153/184, 16-41=-146/82, 17-40=-139/0, 19-39=-139/65, 20-38=-141/107, 21-37=-140/95, 22-36=-140/97, 23-35=-140/96,

24-34=-140/97, 26-33=-140/97, 27-32=-140/122, 28-31=-139/167

### NOTES

**WEBS** 

Unbalanced roof live loads have been considered for this design.



November 22,2022

**FORCES** 

TOP CHORD

**BOT CHORD** 



NOTED ON PLANS REVIEW EXELOPMENT SERVICES WMIT, MISSOURI g Supply (Springhill, KS), Spr 022 1:43:02

Qty Truss Type Piggyback Base Supported Gable 2

Ply

Roof

155389397

Job Reference (optional)

lills, KS - 66083, Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Mon Nov 21 15:26:47 ID:JbPUB4NmDf0vUSJtFFIELayGxJT-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 2

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Corner(3E) 0-0-0 to 5-0-0, Exterior(2N) 5-0-0 to 19-7-8, Corner(3R) 19-7-8 to 24-7-8, Exterior(2N) 24-7-8 to 28-4-8, Corner(3R) 28-4-8 to 33-4-8, Exterior(2N) 33-4-8 to 48-10-8 zone; cantilever left and right exposed; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Provide adequate drainage to prevent water ponding.
- All plates are 3x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing. 6)
- 7) Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 15 lb uplift at joint 1, 39 lb uplift at joint 42, 47 lb uplift at joint 43, 43 lb uplift at joint 45, 67 lb uplift at joint 46, 60 lb uplift at joint 47, 61 lb uplift at joint 48, 61 lb uplift at joint 49, 61 lb uplift at joint 50, 62 lb uplift at joint 51, 58 lb uplift at joint 52, 94 lb uplift at joint 53, 46 lb uplift at joint 41, 36 lb uplift at joint 39, 69 lb uplift at joint 38, 60 lb uplift at joint 37, 61 lb uplift at joint 36, 61 lb uplift at joint 35, 61 lb uplift at joint 34, 61 lb uplift at joint 33, 61 lb uplift at joint 32 and 78 lb uplift at joint 31.
- 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

	<u>EASE FOR CONSTRUCTIO</u> NOTED ON PLANS REVIEV	1
	FYELOPMENT SERVICES	
1	Premier Building Supply (Springhill, KS) Sprin	ng I

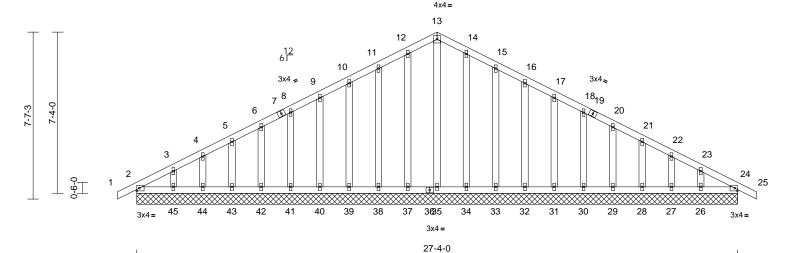
Truss Type Qty Ply Roof 155389398 2 Common Supported Gable Job Reference (optional)

lills KS - 66083

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Mon Nov 21 15:26:48 ID:UdTxDbh?e9q\_8iTwPnntXZyGxKM-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1





Scale = 1:52.4

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	0.07	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.03	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.16	Horz(CT)	0.01	24	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 168 lb	FT = 20%

LUMBER

2x4 SP No.2 TOP CHORD 2x4 SP No.2 **BOT CHORD** 2x4 SPF No.3 **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) 2=27-4-0, 24=27-4-0, 26=27-4-0, 27=27-4-0, 28=27-4-0, 29=27-4-0,

30=27-4-0, 31=27-4-0, 32=27-4-0, 33=27-4-0, 34=27-4-0, 35=27-4-0, 37=27-4-0, 38=27-4-0, 39=27-4-0, 40=27-4-0, 41=27-4-0, 42=27-4-0,

43=27-4-0, 44=27-4-0, 45=27-4-0

Max Horiz 2=-137 (LC 13)

Max Uplift 2=-27 (LC 8), 24=-5 (LC 9), 26=-57 (LC 13), 27=-40 (LC 13), 28=-41

(LC 13), 29=-41 (LC 13), 30=-41 (LC 13), 31=-41 (LC 13), 32=-40 (LC 13), 33=-48 (LC 13), 34=-23 (LC 13), 37=-29 (LC 12), 38=-46 (LC 12), 39=-40 (LC 12), 40=-41

(LC 12), 41=-41 (LC 12), 42=-41 (LC 12), 43=-41 (LC 12), 44=-40 (LC 12), 45=-63 (LC 12)

Max Grav 2=149 (LC 1), 24=149 (LC 1), 26=130 (LC 26), 27=117 (LC 26), 28=121 (LC 1), 29=120 (LC 26), 30=120 (LC 26), 31=120 (LC 1),

32=120 (LC 1), 33=121 (LC 26), 34=124 (LC 26), 35=148 (LC 22), 37=124 (LC 25), 38=121 (LC 25), 39=120 (LC 1), 40=120 (LC 1), 41=120 (LC 25), 42=120 (LC 25),

43=121 (LC 1), 44=117 (LC 25), 45=130 (LC 25)

**FORCES** 

(lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/17, 2-3=-179/66, 3-4=-129/69

4-5=-97/79, 5-6=-74/91, 6-8=-57/109 8-9=-48/128, 9-10=-54/158, 10-11=-66/193, 11-12=-80/233, 12-13=-89/259,

13-14=-89/259, 14-15=-80/233 15-16=-66/193, 16-17=-54/158,

17-18=-41/122, 18-20=-32/86, 20-21=-32/51, 21-22=-48/22, 22-23=-72/21, 23-24=-120/44,

24-25=0/17

**BOT CHORD** 2-45=-39/157, 44-45=-39/157,

43-44=-39/157, 42-43=-39/157, 41-42=-39/157, 40-41=-39/157, 39-40=-39/157, 38-39=-39/157, 37-38=-39/157, 35-37=-39/157, 34-35=-39/157, 33-34=-39/157, 32-33=-39/157, 31-32=-39/157, 30-31=-39/157, 29-30=-39/157,

28-29=-39/157, 27-28=-39/157 26-27=-39/157, 24-26=-39/157

13-35=-155/28. 12-37=-97/45. 11-38=-94/73. 10-39=-93/64, 9-40=-93/64, 8-41=-93/64, 6-42=-93/64, 5-43=-94/82, 4-44=-92/99 3-45=-100/122, 14-34=-97/43, 15-33=-94/73, 16-32=-93/64, 17-31=-93/64, 18-30=-93/64,

20-29=-93/64, 21-28=-94/82, 22-27=-92/99, 23-26=-100/119

NOTES

WFBS

Unbalanced roof live loads have been considered for this design.

Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Corner(3E) -0-10-8 to 4-4-0, Exterior(2N) 4-4-0 to 13-8-0, Corner(3R) 13-8-0 to 18-8-0, Exterior(2N) 18-8-0 to 28-2-8 zone; cantilever left and right exposed; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1. All plates are 1.5x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 1-4-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 27 lb uplift at joint 2, 29 lb uplift at joint 37, 46 lb uplift at joint 38, 40 lb uplift at joint 39, 41 lb uplift at joint 40, 41 lb uplift at joint 41, 41 lb uplift at joint 42, 41 lb uplift at joint 43, 40 lb uplift at joint 44, 63 lb uplift at joint 45, 23 lb uplift at joint 34, 48 lb uplift at joint 33, 40 lb uplift at joint 32, 41 lb uplift at joint 31, 41 lb uplift at joint 30, 41 lb uplift at joint 29, 41 lb uplift at joint 28, 40 lb uplift at joint 27, 57 lb uplift at joint 26 and 5 lb uplift at joint 24.
- 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



November 22,2022



16023 Swingley Ridge Rd Chesterfield, MO 63017

Ply Qty Truss Type Roof 155389399 Common 2 Job Reference (optional)

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Mon Nov 21 15:26:49 lills. KS - 66083. ID:77cC2GCYqAwXzi\_Rd5akSLyGxKz-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



4x6=

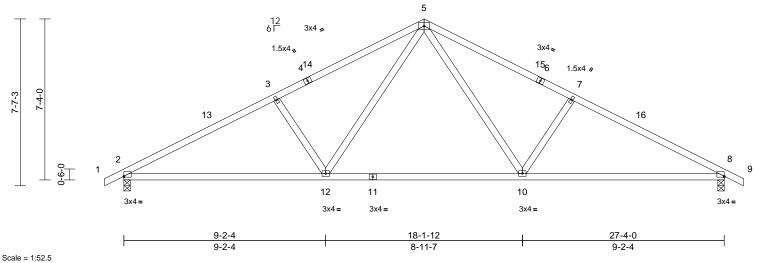


Plate Offsets (X, Y): [2:Edge,0-0-9], [8:Edge,0-0-9]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.76	Vert(LL)	-0.18	8-10	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.90	Vert(CT)	-0.41	8-10	>796	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.30	Horz(CT)	0.07	8	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 117 lb	FT = 20%

### LUMBER

TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No.2 2x4 SPF No.3 WEBS

**BRACING** 

TOP CHORD Structural wood sheathing directly applied or

2-7-2 oc purlins.

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

bracing.

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

Max Horiz 2=-137 (LC 17)

Max Uplift 2=-211 (LC 12), 8=-211 (LC 13) Max Grav 2=1288 (LC 1), 8=1288 (LC 1)

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

Tension

TOP CHORD 1-2=0/17, 2-3=-2075/390, 3-5=-1836/407, 5-7=-1836/407, 7-8=-2075/390, 8-9=0/17

**BOT CHORD** 2-12=-326/1765, 10-12=-87/1179,

8-10=-261/1765

WFBS 5-10=-158/686, 7-10=-449/287, 5-12=-158/686, 3-12=-449/287

### 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 4-1-8, Interior (1) 4-1-8 to 13-8-0, Exterior(2R) 13-8-0 to 18-8-0, Interior (1) 18-8-0 to 28-2-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 211 lb uplift at joint 2 and 211 lb uplift at joint 8.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard





Ply Qty Truss Type Roof 155389400 Common 2 Job Reference (optional)

lills. KS - 66083.

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Mon Nov 21 15:26:49 ID:IzFwnC8nEK9NFnWHGqTKD4yGxL3-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



4x6=

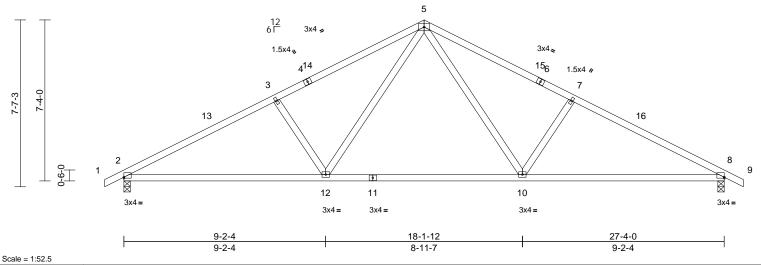


Plate Offsets (X, Y): [2:Edge,0-0-9], [8:Edge,0-0-9]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.76	Vert(LL)	-0.18	8-10	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.90	Vert(CT)	-0.41	8-10	>796	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.30	Horz(CT)	0.07	8	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 117 lb	FT = 20%

### LUMBER

TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No.2 2x4 SPF No.3 WEBS

**BRACING** 

TOP CHORD Structural wood sheathing directly applied or

2-7-2 oc purlins.

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

bracing.

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

Max Horiz 2=-137 (LC 17)

Max Uplift 2=-211 (LC 12), 8=-211 (LC 13) Max Grav 2=1288 (LC 1), 8=1288 (LC 1)

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

Tension

TOP CHORD 1-2=0/17, 2-3=-2075/390, 3-5=-1836/407, 5-7=-1836/407, 7-8=-2075/390, 8-9=0/17

**BOT CHORD** 2-12=-326/1765, 10-12=-87/1179,

8-10=-261/1765

WEBS 5-10=-158/686, 7-10=-449/287, 5-12=-158/686, 3-12=-449/287

### 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 4-1-8, Interior (1) 4-1-8 to 13-8-0, Exterior(2R) 13-8-0 to 18-8-0, Interior (1) 18-8-0 to 28-2-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 211 lb uplift at joint 2 and 211 lb uplift at joint 8.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard





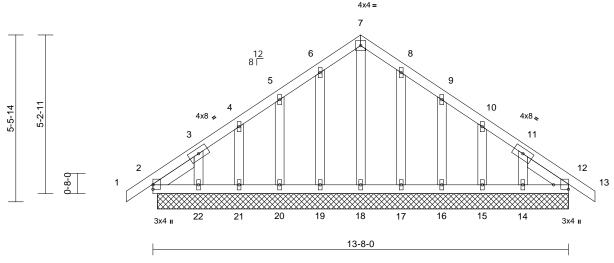
**NOTED ON PLANS REVIEW** EXELORMENT3 SERVICES (Springhill KS) Spr 1:43:03

Truss Type Qtv Ply Roof 155389401 Common Supported Gable Job Reference (optional)

lills. KS - 66083.

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Mon Nov 21 15:26:50 ID:pEeiREjqUZILYPLYj\_L6IhyGxLc-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f





Scale = 1:37.9 Plate Offsets (X, Y): [12:Edge,0-5-14]

	-				-	-						
Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defI	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.06	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	вс	0.03	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.06	Horz(CT)	0.00	12	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		` ′					Weight: 81 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2 **BOT CHORD** 2x4 SP No.2 2x4 SPF No.3 OTHERS

Left 2x4 SP No.2 -- 1-7-11, Right 2x4 SP SLIDER

No.2 -- 1-7-11

**BRACING** 

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins

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

bracing.

REACTIONS (size)

2=13-6-4, 12=13-6-4, 14=13-6-4, 15=13-6-4, 16=13-6-4, 17=13-6-4, 18=13-6-4, 19=13-6-4, 20=13-6-4,

21=13-6-4, 22=13-6-4

Max Horiz 2=144 (LC 11)

Max Uplift 2=-40 (LC 8), 12=-2 (LC 9), 14=-73

(LC 13), 15=-52 (LC 13), 16=-57 (LC 13), 17=-43 (LC 13), 19=-47

(LC 12), 20=-55 (LC 12), 21=-52 (LC 12), 22=-80 (LC 12)

2=158 (LC 20), 12=151 (LC 1), Max Grav

14=133 (LC 20), 15=125 (LC 20), 16=127 (LC 20), 17=128 (LC 20),

18=124 (LC 22), 19=131 (LC 19), 20=126 (LC 19), 21=126 (LC 19),

22=140 (LC 19)

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

Tension

1-2=0/16, 2-3=-138/114, 3-4=-95/81, TOP CHORD 4-5=-85/74, 5-6=-75/130, 6-7=-92/180,

7-8=-92/180, 8-9=-66/130, 9-10=-46/62

10-11=-55/29, 11-12=-108/57, 12-13=0/16

**BOT CHORD** 2-22=-52/147, 21-22=-52/147,

20-21=-52/147, 19-20=-52/147,

18-19=-52/147, 17-18=-52/147,

16-17=-52/147, 15-16=-52/147,

14-15=-52/147, 12-14=-52/147

**WEBS** 

7-18=-126/28, 6-19=-105/76, 5-20=-99/105,

4-21=-100/111, 3-22=-109/131, 8-17=-101/76, 9-16=-100/106,

10-15=-100/111, 11-14=-102/128

### 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 Corner(3E) -0-10-8 to 4-2-0, Exterior(2N) 4-2-0 to 6-10-0, Corner(3R) 6-10-0 to 11-10-0, Exterior(2N) 11-10-0 to 14-6-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOI =1 60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- All plates are 1.5x4 MT20 unless otherwise indicated.
- Gable studs spaced at 1-4-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 40 lb uplift at joint 2, 2 lb uplift at joint 12, 47 lb uplift at joint 19, 55 lb uplift at joint 20, 52 lb uplift at joint 21, 80 lb uplift at joint 22, 43 lb uplift at joint 17, 57 lb uplift at joint 16, 52 lb uplift at joint 15 and 73 lb uplift at joint 14.
- N/A 8)
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



Page: 1



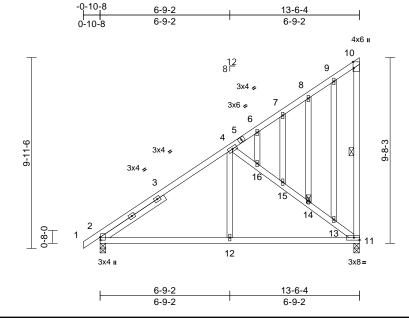
NOTED ON PLANS REVIEW EXELORMENT SERVICES (Springhill KS) Spr 1:43:03

Truss Type	Qty	Ply	Roof	
Monopitch	1	1	Job Reference (optional)	155389402

lills, KS - 66083.

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Mon Nov 21 15:26:50 ID:Ho1WEiUTGX1gwu78IG1QiOyGxNB-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:60.1

Plate Offsets (X, Y): [2:0-1-13,0-0-4], [10:0-3-14,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	0.95	Vert(LL)	-0.05	11-12	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.46	Vert(CT)	-0.10	11-12	>999	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.56	Horz(CT)	0.01	11	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 98 lb	FT = 20%

### LUMBER

TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No.2 2x4 SPF No.3 WEBS OTHERS 2x4 SPF No 3

**SLIDER** Left 2x4 SP No.2 -- 3-11-14

**BRACING** 

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins, except end verticals. Rigid ceiling directly applied or 9-7-15 oc

**BOT CHORD** bracing.

WFBS 1 Row at midpt 10-11 **JOINTS** 1 Brace at Jt(s): 14

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

Max Horiz 2=399 (LC 9)

Max Uplift 2=-83 (LC 12), 11=-202 (LC 12) Max Grav 2=665 (LC 1), 11=658 (LC 19)

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

Tension

TOP CHORD 1-2=0/16, 2-4=-711/150, 4-6=-267/163, 6-7=-269/230, 7-8=-227/205, 8-9=-209/208,

9-10=-158/172, 10-11=-141/107

**BOT CHORD** 2-12=-330/575, 11-12=-330/575

**WEBS** 4-12=0/314, 4-16=-645/283, 15-16=-586/242,

14-15=-635/275, 13-14=-657/295, 11-13=-690/321, 9-13=-88/76, 8-14=-43/38,

7-15=-83/60, 6-16=-88/100

### 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 13-4-8 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

- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- All plates are 1.5x4 MT20 unless otherwise indicated.
- Gable studs spaced at 1-4-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 202 lb uplift at joint 11 and 83 lb uplift at joint 2.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



November 22,2022



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

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

ANSI/TP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Truss Type Monopitch Girder

Qty Ply 2

2

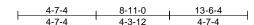
Roof

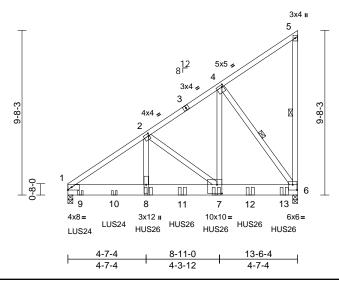
Job Reference (optional)

Page: 1

155389403

Run: 8.62 E Oct 26 2022 Print: 8.620 E Oct 26 2022 MiTek Industries, Inc. Mon Nov 21 22:11:38 ID:HXV5guHpHJt4OGKtoCERWpyGxNS-anYocJOV305aFI7?fPEUnkj7jnozDMIs?St5LoyGqG5





Scale = 1:67.8

Plate Offsets (X, Y): [2:0-0-8,0-1-12], [4:0-1-0,0-1-8], [6:0-3-0,0-3-12], [7:0-3-8,0-6-4]

-		1										
Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defI	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.56	Vert(LL)	-0.08	7-8	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.37	Vert(CT)	-0.14	7-8	>999	180		
BCLL	0.0	Rep Stress Incr	NO	WB	0.96	Horz(CT)	0.02	6	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		·					Weight: 203 lb	FT = 20%

### LUMBER

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

2x4 SPF No.3 \*Except\* 4-7:2x4 SP No.2

WEBS BRACING

TOP CHORD Structural wood sheathing directly applied or 4-0-10 oc purlins, except end verticals.

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

bracing.

WEBS 1 Row at midnt 5-6 4-6

1=5483/0-3-8, 6=7683/0-3-8 REACTIONS (lb/size)

Max Horiz 1=388 (LC 9)

Max Uplift 1=-906 (LC 12), 6=-1240 (LC 12) (lb) - Max. Comp./Max. Ten. - All forces 250

**FORCES** (lb) or less except when shown.

TOP CHORD 1-2=-7602/1244, 2-3=-4536/752,

3-4=-4445/778

**BOT CHORD** 1-9=-1257/6081, 9-10=-1257/6081,

8-10=-1257/6081, 8-11=-1257/6081,

7-11=-1257/6081, 7-12=-745/3712,

12-13=-745/3712, 6-13=-745/3712 2-8=-560/3462, 2-7=-2969/641,

4-7=-1119/7214, 4-6=-6291/1098

### WEBS 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: 2x8 4 rows staggered at 0-9-0 oc
- Web connected as follows: 2x4 1 row at 0-9-0 oc. All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-1-12 to 5-1-12, Interior (1) 5-1-12 to 13-4-8 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
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1240 lb uplift at joint 6 and 906 lb uplift at joint 1.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 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 0-8-12 from the left end to 2-8-12 to connect truss(es) to back face of bottom chord.
- Use Simpson Strong-Tie HUS26 (14-10d Girder, 6-10d Truss) or equivalent spaced at 2-0-0 oc max. starting at 4-8-12 from the left end to 12-8-12 to connect truss(es) to back face of bottom chord.
- Fill all nail holes where hanger is in contact with lumber.

### LOAD CASE(S) Standard

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

Vert: 1-5=-70, 1-6=-20

Concentrated Loads (lb) Vert: 8=-2130 (B), 7=-2130 (B), 9=-620 (B), 10=-702

(B), 11=-2130 (B), 12=-2130 (B), 13=-2133 (B)



November 22,2022





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

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

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



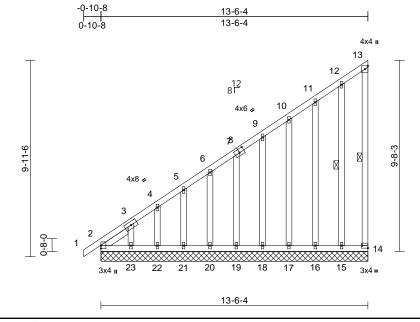
**NOTED ON PLANS REVIEW** EXELOPMENT SERVICES (Springhill KS) Spr 1:43:03

Truss Type Qty Ply Roof 155389404 Monopitch Supported Gable Job Reference (optional)

lills. KS - 66083.

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Mon Nov 21 15:26:51 ID:GjwpzSgpHeSKmRw4J\_pUy2yGxOF-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:58.3

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.71	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.34	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.12	Horz(CT)	0.00	14	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 110 lb	FT = 20%

LUMBER TOP CHORD 2x4 SP No.2 2x4 SP No.2 **BOT CHORD** 2x4 SP No.2 WEBS OTHERS 2x4 SPF No 3 Left 2x4 SP No.2 -- 1-8-0

**SLIDER BRACING** 

TOP CHORD

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

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

WFBS 1 Row at midpt

13-14, 12-15 **REACTIONS** (size) 2=13-6-4, 14=13-6-4, 15=13-6-4,

16=13-6-4, 17=13-6-4, 18=13-6-4, 19=13-6-4, 20=13-6-4, 21=13-6-4, 22=13-6-4, 23=13-6-4

Max Horiz 2=399 (LC 9)

Max Uplift 2=-101 (LC 8), 14=-106 (LC 11), 15=-81 (LC 12), 16=-38 (LC 9),

17=-62 (LC 12), 18=-50 (LC 12), 19=-53 (LC 12), 20=-52 (LC 12), 21=-51 (LC 12), 22=-53 (LC 12),

23=-119 (LC 12)

Max Grav 2=258 (LC 20), 14=103 (LC 8), 15=121 (LC 20), 16=138 (LC 19),

17=122 (LC 19), 18=127 (LC 19), 19=126 (LC 19), 20=126 (LC 19), 21=126 (LC 19), 22=126 (LC 19),

23=161 (LC 19)

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

Tension TOP CHORD

1-2=0/16, 2-3=-829/517, 3-4=-675/430, 4-5=-613/400, 5-6=-556/372, 6-7=-497/343,

7-9=-438/315, 9-10=-374/286, 10-11=-305/260, 11-12=-235/232, 12-13=-119/134, 13-14=-61/73

BOT CHORD 2-23=-169/211, 22-23=-169/211,

21-22=-169/211, 20-21=-169/211, 19-20=-169/211, 18-19=-169/211, 17-18=-169/211, 16-17=-169/211, 15-16=-169/211, 14-15=-169/211 12-15=-212/205, 11-16=-101/110,

**WEBS** 10-17=-98/108, 9-18=-99/101, 7-19=-99/90, 6-20=-99/90, 5-21=-99/99, 4-22=-101/114,

3-23=-165/231

### **NOTES**

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Corner(3E) -0-10-8 to 4-2-4, Exterior(2N) 4-2-4 to 13-4-8 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
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- All plates are 1.5x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 1-4-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 106 lb uplift at joint 14, 101 lb uplift at joint 2, 81 lb uplift at joint 15, 38 Ib uplift at joint 16, 62 lb uplift at joint 17, 50 lb uplift at joint 18, 53 lb uplift at joint 19, 52 lb uplift at joint 20, 51 Ib uplift at joint 21, 53 lb uplift at joint 22 and 119 lb uplift at joint 23.
- Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 2.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard





NOTED ON PLANS REVIEW EXELORMENT SERVICES , MISSOURI (Springhill, KS), Spr 2 1:43:03

Truss Type Qty Monopitch Supported Gable 4

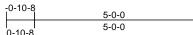
Ply

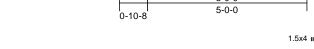
Roof Job Reference (optional)

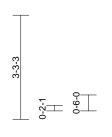
155389405 Page: 1

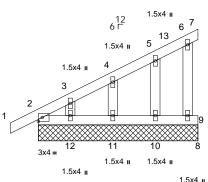
lills. KS - 66083.

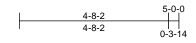
Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Mon Nov 21 15:26:51 ID:rocYVMcd0cNpDvC99VErNVyGxPd-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f











Scale = 1:36.1

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	0.14	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.01	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.06	Horz(CT)	0.00	9	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 2x4 SPF No.3 WEBS 2x4 SPF No.3 OTHERS
- BRACING

TOP CHORD Structural wood sheathing directly applied or 5-0-0 oc purlins, except end verticals.

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

bracing.

**REACTIONS** (size) 2=5-0-0, 8=5-0-0, 9=5-0-0, 10=5-0-0, 11=5-0-0, 12=5-0-0

Max Horiz 2=124 (LC 9)

Max Uplift 2=-17 (LC 8), 9=-25 (LC 9), 10=-36

(LC 12), 11=-45 (LC 12), 12=-40

(LC 12)

2=127 (LC 1), 9=69 (LC 1), 10=108 Max Grav

(LC 1), 11=130 (LC 1), 12=78 (LC

**FORCES** 

(lb) - Maximum Compression/Maximum Tension

1-2=0/17, 2-3=-345/150, 3-4=-250/124, 4-5=-163/98, 5-6=-89/76, 6-7=-10/0,

6-9=-68/110

**BOT CHORD** 2-12=-52/70, 11-12=-52/70, 10-11=-52/70,

9-10=-52/70, 8-9=0/0

**WEBS** 5-10=-83/149, 4-11=-103/185, 3-12=-82/176

### 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(3E) -0-10-8 to 4-1-8, Exterior(2N) 4-1-8 to 5-0-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.

- All plates are 1.5x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 1-4-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 25 lb uplift at joint 9, 17 lb uplift at joint 2, 36 lb uplift at joint 10, 45 lb uplift at joint 11 and 40 lb uplift at joint 12.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard







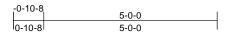
Truss Type	Qty	Ply	Roof	
Monopitch	10	1	Job Reference (optional)	155389406

lills, KS - 66083,

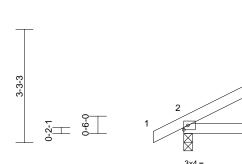
Run: 8.62 E Oct 26 2022 Print: 8.620 E Oct 26 2022 MiTek Industries, Inc. Mon Nov 21 22:13:55 ID:UZHDtrLpBrbwaXWxturhUsyGxPz-?WSLnr4hKjcsQfFjl5D4w2zvipFYlSiJya1yiFyGqDw

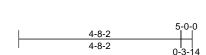
> 4x4 II 3

> > 5 1.5x4 II



12 6 F





Scale = 1:33.2

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.42	Vert(LL)	-0.03	2-6	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.30	Vert(CT)	-0.07	2-6	>841	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: 20 lb	FT = 20%

### LUMBER

TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No.2 2x4 SPF No.3 WEBS

### **BRACING**

TOP CHORD Structural wood sheathing directly applied or 5-0-0 oc purlins, except end verticals.

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

bracing.

REACTIONS (lb/size) 2=294/0-3-0, 5=214/ Mechanical

Max Horiz 2=124 (LC 9)

Max Uplift 2=-57 (LC 12), 5=-63 (LC 12)

(lb) - Max. Comp./Max. Ten. - All forces 250

(lb) or less except when shown.

### 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) -0-10-8 to 4-1-8, Interior (1) 4-1-8 to 5-0-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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 57 lb uplift at joint 2 and 63 lb uplift at joint 5.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



Page: 1

November 22,2022



16023 Swingley Ridge Rd Chesterfield, MO 63017

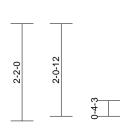
Truss Type	Qty	Ply	Roof	
Piggyback	4	1	Job Reference (optional)	155389407

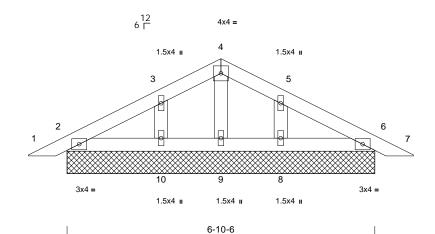
lills. KS - 66083.

Run: 8 63 S. Nov 19 2022 Print: 8 630 S. Nov 19 2022 MiTek Industries. Inc. Mon Nov 21 15:26:52 ID:biw?mDTf8jX8xT05fmYoZgyGxR5-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1

-0-10-5	3-5-3	6-10-6	7-8-11
0-10-5	3-5-3	3-5-3	0-10-5





Scale = 1:25.7

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	0.07	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.03	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.06	Horz(CT)	0.00	6	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 28 lb	FT = 20%

### LUMBER

2x4 SP No.2 TOP CHORD **BOT CHORD** 2x4 SP No.2 2x4 SPF No.3 **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)

2=6-10-6, 6=6-10-6, 8=6-10-6, 9=6-10-6, 10=6-10-6

Max Horiz 2=-38 (LC 17)

Max Uplift 2=-23 (LC 12), 6=-30 (LC 13),

8=-64 (LC 13), 10=-64 (LC 12)

2=125 (LC 1), 6=125 (LC 1), 8=191 (LC 1), 9=65 (LC 22), 10=191 (LC

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/15, 2-3=-45/42, 3-4=-45/90, 4-5=-44/93, 5-6=-37/33, 6-7=0/15 **BOT CHORD** 2-10=-17/50, 9-10=-17/50, 8-9=-17/50,

**WEBS** 4-9=-51/0, 3-10=-146/201, 5-8=-146/161

### NOTES

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

- Gable studs spaced at 1-4-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 23 lb uplift at joint 2, 30 lb uplift at joint 6, 64 lb uplift at joint 10 and 64 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.
- See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

LOAD CASE(S) Standard



November 22,2022



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

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

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

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



NOTED ON PLANS REVIEW EXELOPMENT3 SERVICES , MISSOURI (Springhill, KS), Spr 2 1:43:03

Ply Truss Type Qty Piggyback 20

Job Reference (optional) Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Mon Nov 21 15:26:52

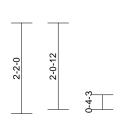
Roof

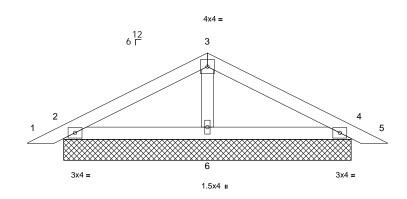
Page: 1

155389408

lills. KS - 66083. ID:unKDgoLNVfGZkwFA3fNS9ZyGxRF-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

-0-10-5	3-5-3	6-10-6	7-8-11
0-10-5	3-5-3	3-5-3	0-10-5





6-10-6 Scale = 1:27.5

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	0.25	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.12	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.05	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 26 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2 **BOT CHORD** 2x4 SP No.2 2x4 SPF No.3 **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) 2=6-10-6, 4=6-10-6, 6=6-10-6

Max Horiz 2=-38 (LC 13)

2=-58 (LC 12), 4=-65 (LC 13), 6=-8 Max Uplift

(LC 12)

2=201 (LC 1), 4=201 (LC 1), 6=294 Max Grav

(LC 1)

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

Tension

TOP CHORD 1-2=0/15, 2-3=-74/65, 3-4=-74/75, 4-5=0/15

**BOT CHORD** 2-6=-1/36, 4-6=-1/36 3-6=-208/168 WEBS

NOTES

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

- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 58 lb uplift at joint 2, 65 lb uplift at joint 4 and 8 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.
- See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

LOAD CASE(S) Standard



November 22,2022



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

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

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

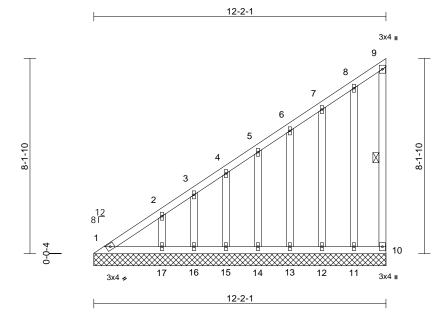


Truss Type	Qty	Ply	Roof	
Valley	2	1	Joh Reference (optional)	155389409

lills, KS - 66083.

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Mon Nov 21 15:26:52 ID:3dyyPIGdvpWQ0?o0jPG2wlyGxRL-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:48

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	0.62	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.22	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.16	Horiz(TL)	0.00	10	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 80 lb	FT = 20%

### LUMBER

2x4 SP No.2 TOP CHORD **BOT CHORD** 2x4 SP No.2 2x4 SPF No.3 WEBS 2x4 SPF No.3 OTHERS

BRACING TOP CHORD

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

9-10

**BOT CHORD** bracing.

1 Row at midpt

WEBS REACTIONS (size)

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

15=12-2-1, 16=12-2-1, 17=12-2-1

Max Horiz 1=329 (LC 9)

Max Uplift 1=-47 (LC 8), 10=-82 (LC 11), 11=-69 (LC 12), 12=-39 (LC 12),

13=-58 (LC 12), 14=-50 (LC 12), 15=-55 (LC 12), 16=-37 (LC 12),

17=-93 (LC 12)

Max Grav

1=168 (LC 20), 10=84 (LC 8), 11=120 (LC 1), 12=134 (LC 19), 13=124 (LC 19), 14=125 (LC 19),

15=134 (LC 19), 16=88 (LC 19), 17=228 (LC 19)

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

Tension

1-2=-496/379, 2-3=-415/317, 3-4=-376/299, TOP CHORD

4-5=-327/267, 5-6=-279/237, 6-7=-232/208, 7-8=-186/180, 8-9=-110/110, 9-10=-39/36

**BOT CHORD** 1-17=-143/156, 16-17=-143/156,

> 15-16=-143/156, 14-15=-143/156, 13-14=-143/156, 12-13=-143/156, 11-12=-143/156, 10-11=-143/156

WFBS 8-11=-163/142, 7-12=-100/80, 6-13=-99/73,

5-14=-99/70, 4-15=-104/73, 3-16=-74/54,

2-17=-170/118

NOTES

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-5-12 to 5-6-7, Interior (1) 5-6-7 to 12-0-11 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- All plates are 1.5x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 1-4-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 47 lb uplift at joint 1, 82 lb uplift at joint 10, 69 lb uplift at joint 11, 39 lb uplift at joint 12, 58 lb uplift at joint 13, 50 lb uplift at joint 14, 55 lb uplift at joint 15, 37 lb uplift at joint 16 and 93 lb uplift at joint 17.
- 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



November 22,2022



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

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

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

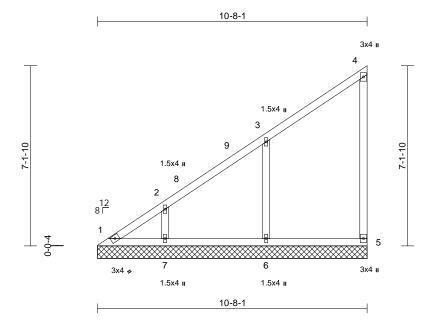


16023 Swingley Ridge Rd Chesterfield, MO 63017

Truss Type	Qty	Ply	Roof	
Valley	2	1	Job Reference (optional)	I55389410

lills. KS - 66083.

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Mon Nov 21 15:26:53 ID:XHTUUTtwhgM5ZxmgHzAJ4LyGxRs-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f Page: 1



Scale = 1:45.6

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.52	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	0.12	Horiz(TL)	0.00	5	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 47 lb	FT = 20%

### LUMBER

TOP CHORD 2x4 SP No.2 **BOT CHORD** 2x4 SP No.2 2x4 SPF No.3 WEBS 2x4 SPF No.3 OTHERS

### BRACING

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

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

bracing.

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

7=10-8-1 Max Horiz 1=286 (LC 9)

Max Uplift 1=-50 (LC 10), 5=-59 (LC 9),

6=-173 (LC 12), 7=-133 (LC 12) Max Grav 1=143 (LC 9), 5=165 (LC 19),

6=417 (LC 19), 7=322 (LC 19)

(lb) - Maximum Compression/Maximum

**FORCES** Tension

TOP CHORD 1-2=-460/292, 2-3=-353/243, 3-4=-171/143,

4-5=-128/134

1-7=-124/137, 6-7=-124/137, 5-6=-124/137 **BOT CHORD** 

WEBS 3-6=-336/285, 2-7=-250/195

### **NOTES**

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-5-12 to 5-5-12, Interior (1) 5-5-12 to 10-6-11 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.

- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 50 lb uplift at joint 1, 59 lb uplift at joint 5, 173 lb uplift at joint 6 and 133 lb uplift at joint 7.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard





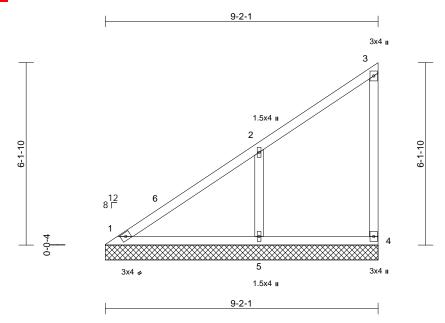


Truss Type	Qty	Ply	Roof	
Valley	2	1	Job Reference (optional)	I55389411

lills. KS - 66083.

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Mon Nov 21 15:26:53 ID:7inLsRr1OlzWhT15crccTiyGxRv-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:38.7

Loading	(psf)	Spacing	2-0-0	csı		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.38	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.18	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.11	Horiz(TL)	0.00	4	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 39 lb	FT = 20%

### LUMBER

TOP CHORD 2x4 SP No.2 **BOT CHORD** 2x4 SP No.2 2x4 SPF No.3 WEBS 2x4 SPF No.3 OTHERS

### BRACING

TOP CHORD Structural wood sheathing directly applied or

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

bracing.

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

Max Horiz 1=244 (LC 9) Max Uplift

1=-1 (LC 8), 4=-51 (LC 9), 5=-208 (LC 12)

1=200 (LC 20), 4=143 (LC 19), Max Grav 5=503 (LC 19)

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

TOP CHORD 1-2=-374/253, 2-3=-164/129, 3-4=-119/130 **BOT CHORD** 1-5=-108/119, 4-5=-108/119

2-5=-390/334 **WEBS** 

### NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) 1) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-5-12 to 5-2-7, Interior (1) 5-2-7 to 9-0-11 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1 lb uplift at joint 1, 51 lb uplift at joint 4 and 208 lb uplift at joint 5.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



November 22,2022



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

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

ANS/TP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



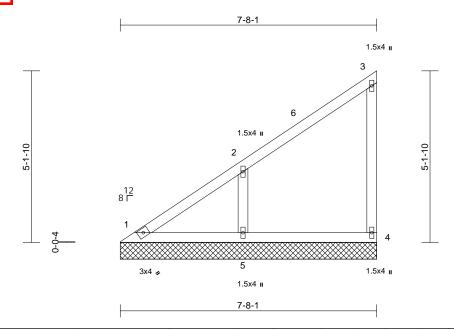
16023 Swingley Ridge Rd Chesterfield, MO 63017

Ply Qty Truss Type Roof 155389412 Valley 2 Job Reference (optional)

lills. KS - 66083.

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Mon Nov 21 15:26:53 ID:i76DDQo95qbyq0JWxj3vr4yGxRy-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scal	le =	1:34	.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	0.37	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	0.10	Horiz(TL)	0.00	4	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 2x4 SPF No.3 WEBS 2x4 SPF No.3 OTHERS

### BRACING

TOP CHORD Structural wood sheathing directly applied or

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

bracing.

(size) REACTIONS 1=7-8-1, 4=7-8-1, 5=7-8-1

Max Horiz 1=201 (LC 11)

Max Uplift 1=-14 (LC 8), 4=-46 (LC 9), 5=-173

(LC 12)

1=136 (LC 20), 4=155 (LC 19), Max Grav

5=420 (LC 19)

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

Tension

TOP CHORD 1-2=-348/231, 2-3=-159/129, 3-4=-134/146

**BOT CHORD** 1-5=-93/101, 4-5=-93/101 **WEBS** 2-5=-331/305

### NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) 1) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-5-12 to 5-5-12, Interior (1) 5-5-12 to 7-6-11 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 14 lb uplift at joint 1, 46 lb uplift at joint 4 and 173 lb uplift at joint 5.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard





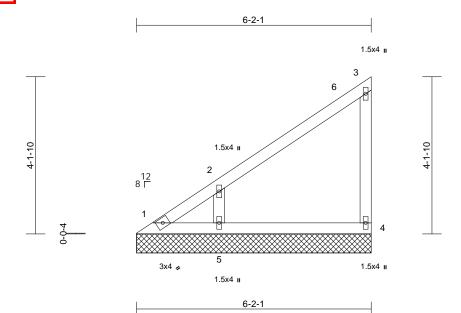


Truss Type	Qty	Ply	Roof	
Valley	2	1	Joh Reference (optional)	I55389413

lills. KS - 66083.

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Mon Nov 21 15:26:54 ID:mk\_SpknvZDLEbi98pI1RmfyGxS\_-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:30.3

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	0.24	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.12	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.09	Horiz(TL)	0.00	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 2x4 SPF No.3 WEBS 2x4 SPF No.3 OTHERS

### BRACING

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

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

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

Max Horiz 1=158 (LC 9) Max Uplift

1=-49 (LC 10), 4=-41 (LC 9), 5=-154 (LC 12)

1=83 (LC 9), 4=158 (LC 19), 5=374

(LC 19) (lb) - Maximum Compression/Maximum

Tension

Max Grav

TOP CHORD 1-2=-325/212, 2-3=-153/118, 3-4=-133/151

**BOT CHORD** 1-5=-75/82, 4-5=-75/82

**WEBS** 2-5=-295/293

### NOTES

**FORCES** 

- Wind: ASCE 7-16; Vult=115mph (3-second gust) 1) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-5-12 to 5-5-12, Interior (1) 5-5-12 to 6-0-11 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 49 lb uplift at joint 1, 41 lb uplift at joint 4 and 154 lb uplift at joint 5.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



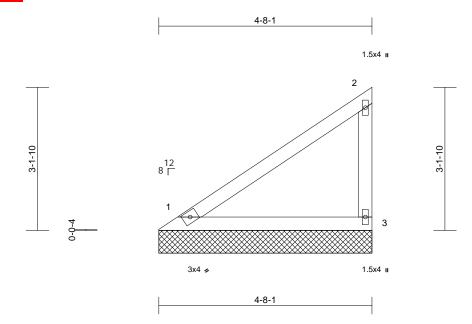


Truss Type	Qty	Ply	Roof	
Valley	2	1	Job Reference (optional)	155389414

lills. KS - 66083.

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Mon Nov 21 15:26:54 ID:MAIKAik0HIzfkFQZ89Tk80yGxS1-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:25.3

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	0.38	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.20	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.00	Horiz(TL)	0.00	3	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 2x4 SPF No.3 WEBS

**BRACING** TOP CHORD Structural wood sheathing directly applied or

4-8-7 oc purlins, except end verticals. BOT CHORD Rigid ceiling directly applied or 10-0-0 oc

bracing.

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

Max Horiz 1=116 (LC 9)

Max Uplift 1=-20 (LC 12), 3=-60 (LC 12) Max Grav 1=183 (LC 1), 3=200 (LC 19)

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

Tension

TOP CHORD 1-2=-159/119, 2-3=-159/185

BOT CHORD 1-3=-56/61

### 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
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 20 lb uplift at joint 1 and 60 lb uplift at joint 3.

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





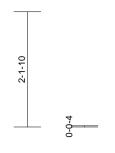
Truss Type	Qty	Ply	Roof	
Valley	2	1	Job Reference (optional)	155389415

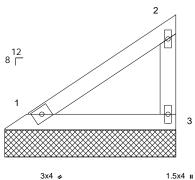
lills. KS - 66083.

Run: 8 63 S. Nov 19 2022 Print: 8 630 S. Nov 19 2022 MiTek Industries. Inc. Mon Nov 21 15:26:54 ID:xbdBYgi8\_Nb4tni\_T1w1WOyGxS4-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1







3-2-1

Scale = 1:21.4

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	0.14	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	0.00	Horiz(TL)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 11 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2 **BOT CHORD** 2x4 SP No.2 2x4 SPF No.3 WEBS

**BRACING** 

TOP CHORD Structural wood sheathing directly applied or 3-2-7 oc purlins, except end verticals.

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

bracing.

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

Max Horiz 1=73 (LC 9)

Max Uplift 1=-13 (LC 12), 3=-38 (LC 12) Max Grav 1=116 (LC 1), 3=126 (LC 19) (lb) - Maximum Compression/Maximum

**FORCES** Tension

TOP CHORD 1-2=-104/77, 2-3=-103/123 1-3=-35/38

### BOT CHORD

### NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 13 lb uplift at joint 1 and 38 lb uplift at joint 3.

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

OF MISS SCOTT M. SEVIER NUMBER PE-2001018807 SSIONAL





Ply Qty Truss Type Valley 2

Job Reference (optional)

155389416

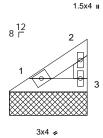
lills. KS - 66083.

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Mon Nov 21 15:26:54 ID:3pNgiJfdw84fOAODEBr5MYyGxS8-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Roof

Page: 1





1.5x4 II

	1-8-1

Scale = 1:24.8

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.02	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.01	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: 5 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2 **BOT CHORD** 2x4 SP No.2 2x4 SPF No.3 WEBS

**BRACING** 

TOP CHORD Structural wood sheathing directly applied or 1-8-7 oc purlins, except end verticals.

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

bracing.

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

Max Horiz 1=31 (LC 9)

Max Uplift 1=-5 (LC 12), 3=-16 (LC 12) Max Grav 1=48 (LC 1), 3=53 (LC 19)

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

TOP CHORD 1-2=-44/34, 2-3=-46/53

BOT CHORD 1-3=-15/16

### 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
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 5 lb uplift at joint 1 and 16 lb uplift at joint 3.

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

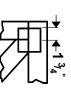




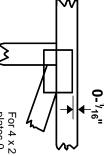


### Symbols

# PLATE LOCATION AND ORIENTATION



Center plate on joint unless x, y offsets are indicated.
Dimensions are in ft-in-sixteenths.
Apply plates to both sides of truss and fully embed teeth.



For 4 x 2 orientation, locate plates 0- <sup>1</sup>/16" from outside edge of truss.

This symbol indicates the required direction of slots in connector plates.

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

### PLATE SIZE

1 > 1

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

## LATERAL BRACING LOCATION



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

### **BEARING**



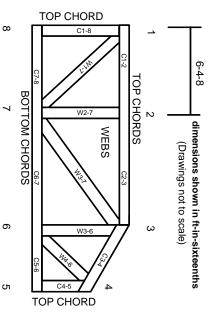
Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only

## EVELOPIES 2/2 Guide to Installing Connecte

RELEASE FOR CONSTRUCTION

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

# Numbering System



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

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

## PRODUCT CODE APPROVALS

ICC-ES Reports:

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

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

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

© 2012 MiTek® All Rights Reserved



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

# **General Safety Notes**

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

- Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI
- Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves may require bracing, or alternative Tor1 bracing should be considered.

Ņ

Never exceed the design loading shown and never stack materials on inadequately braced trusses.

ω

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

Ģ

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

œ

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

9

- 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.
- 21. The design does not take into account any dynamic or other loads other than those expressly stated.