

RE: P240855-01

Roof - HR Lot 81

MiTek, Inc.

16023 Swingley Ridge Rd. Chesterfield, MO 63017

314.434.1200

### Site Information:

Customer: Clayton Properties Project Name: P240855-01 Lot/Block: 81 Model:

Address: 1535 SW Arbor Valley Subdivision: Hawthorn Ridge

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 19 individual, dated Truss Design Drawings and 0 Additional Drawings.

No.	Seal#	Truss Name	Date
1	166694256	A5	7/8/2024
2	166694257	A4	7/8/2024
3	166694258	A3	7/8/2024
4	166694259	A2	7/8/2024
5	166694260	A1	7/8/2024
6	166694261	B1	7/8/2024
7	166694262	C3	7/8/2024
8	166694263	C2	7/8/2024
9	166694264	C1	7/8/2024
10	166694265	C4	7/8/2024
11	166694266	V1	7/8/2024
12	166694267	V2	7/8/2024
13	166694268	LG01	7/8/2024
14	166694269	V3	7/8/2024
15	166694270	V4	7/8/2024
16	166694271	CG1	7/8/2024
17	166694272	J1	7/8/2024
18	166694273	V5	7/8/2024
19	166694274	J2	7/8/2024

RELEASE FOR CONSTRUCTION **AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI** 09/10/2024 3:40:02

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, 2025.

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.

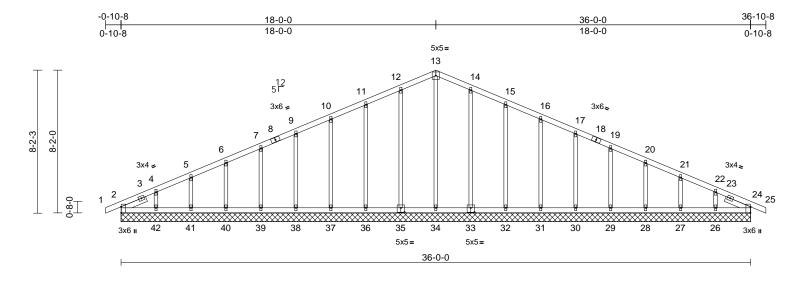


July 08, 2024

Job	Truss	Truss Type	Qty	Ply	Roof - HR Lot 81	
P240855-01	A5	Common Supported Gable	1	1	Job Reference (optional)	166694256

Run: 8.63 S Jun 17 2024 Print: 8.630 S Jun 17 2024 MiTek Industries, Inc. Fri Jul 05 12:09:31 ID:ewrAceOsPybP0GqmZjh3U?zkXV?-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:65.9

LUMBER

32=-58 (LC 13), 33=-50 (LC 13),

35=-52 (LC 12), 36=-57 (LC 12),

37=-54 (LC 12), 38=-55 (LC 12),

39=-54 (LC 12), 40=-55 (LC 12),

41=-51 (LC 12), 42=-93 (LC 12)

26=178 (LC 26), 27=182 (LC 1),

28=180 (LC 26), 29=180 (LC 1),

30=180 (LC 26), 31=180 (LC 1),

32=179 (LC 26), 33=189 (LC 26),

34=185 (LC 22), 35=189 (LC 25),

36=179 (LC 25), 37=180 (LC 1),

38=180 (LC 25), 39=180 (LC 1), 40=180 (LC 25), 41=182 (LC 1),

Max Grav 2=160 (LC 1), 24=160 (LC 1),

42=178 (LC 25)

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	0.22	Horz(CT)	0.01	24	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 176 lb	FT = 20%

(lb) - Maximum Compression/Maximum

TOP CHORD BOT CHORD OTHERS SLIDER	2x4 SP No 2x4 SP No 2x3 SPF No Left 2x4 S 1-6-7	0.2	TOP CHORD	Tension 1-2=0/0, 2-4=-196/72, 4-5=-135/78, 5-6=-102/90, 6-7=-81/111, 7-9=-60/133, 9-10=-58/156, 10-11=-73/194, 11-12=-88/239, 12-13=-103/279,
BRACING TOP CHORD	Structural	wood sheathing directly applied or outlins.		13-14=-103/279, 14-15=-88/239, 15-16=-73/194, 16-17=-58/151, 17-19=-43/107, 19-20=-43/63, 20-21=-53/25,
BOT CHORD	Rigid ceili bracing.	ng directly applied or 10-0-0 oc	BOT CHORD	21-22=-73/18, 22-24=-126/38, 24-25=0/0 2-42=-38/146, 41-42=-38/146,
REACTIONS	Max Horiz	2=36-0-0, 24=36-0-0, 26=36-0-0, 27=36-0-0, 28=36-0-0, 28=36-0-0, 28=36-0-0, 31=36-0-0, 31=36-0-0, 32=36-0-0, 33=36-0-0, 34=36-0-0, 35=36-0-0, 36=36-0-0, 36=36-0-0, 41=36-0-0, 41=36-0-0, 41=36-0-0, 42=36-0-0, 4	WEBS	40-41=-38/146, 39-40=-38/146, 38-39=-38/146, 37-38=-38/146, 37-38=-38/146, 36-37=-38/146, 31-32=-38/146, 32-34=-38/146, 31-32=-38/146, 30-31=-38/146, 29-30=-38/146, 28-29=-38/146, 24-26=-38/146, 24-26=-38/146, 24-26=-38/146, 24-26=-38/146, 24-26=-38/146, 24-26=-38/146, 24-26=-38/146, 24-26=-38/146, 24-26=-38/146, 24-26=-38/146, 24-26=-38/146, 24-26=-38/146, 24-26=-38/146, 24-38=-140/89, 7-39=-140/90, 6-40=-139/89, 5-41=-142/112, 4-42=-135/166, 4-33=-149/82, 15-32=-139/94, 16-31=-140/88, 17-30=-140/89,

**FORCES** 

- NOTES
- Unbalanced roof live loads have been considered for this design.

19-29=-140/90, 20-28=-139/89,

21-27=-142/113, 22-26=-135/163

Intil design.

Wind: ASCE 7-16; Vult=115mph (3-second gust)
Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft;
Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope)
exterior zone and C-C Corner(3E) -0-10-8 to 4-0-0,
Exterior(2N) 4-0-0 to 18-0-0, Corner(3R) 18-0-0 to
23-0-0, Exterior(2N) 23-0-0 to 36-10-8 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.
- 4) All plates are 1.5x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SP No.2 crushing capacity of 565 psi.



July 8,2024

Continued on page 2

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



Job	Truss	Truss Type	Qty	Ply	Roof - HR Lot 81	
P240855-01	A5	Common Supported Gable	1	1	Job Reference (optional)	66694256

Run: 8.63 S Jun 17 2024 Print: 8.630 S Jun 17 2024 MiTek Industries. Inc. Fri Jul 05 12:09:31 ID:ewrAceOsPybP0GqmZjh3U?zkXV?-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 2

10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 27 lb uplift at joint 2, 52 lb uplift at joint 35, 57 lb uplift at joint 36, 54 lb uplift at joint 37, 55 lb uplift at joint 38, 54 lb uplift at joint 39, 55 lb uplift at joint 40, 51 lb uplift at joint 41, 93 lb uplift at joint 42, 50 lb uplift at joint 33, 58 lb uplift at joint 32, 54 lb uplift at joint 31, 55 lb uplift at joint 30, 54 lb uplift at joint 29, 55 lb uplift at joint 28, 52 lb uplift at joint 27, 80 lb uplift at joint 26 and 3 lb uplift at joint 24.

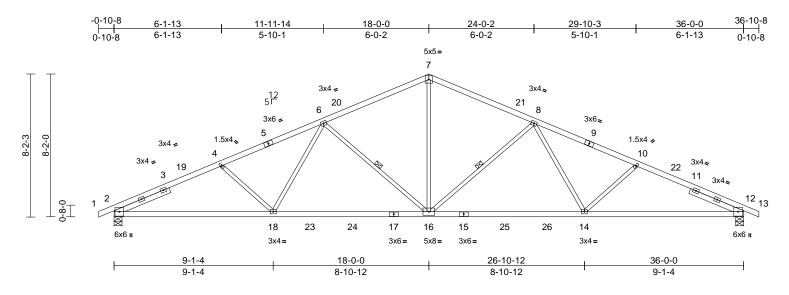
11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Roof - HR Lot 81	
P240855-01	A4	Common	18	1	Job Reference (optional)	166694257

Run: 8.63 S Jun 17 2024 Print: 8.630 S Jun 17 2024 MiTek Industries, Inc. Fri Jul 05 12:09:31 ID:Do4JrdsVQdc4LgXOR7cmHVzkXB1-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

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Scale = 1:65.9

Plate Offsets (X, Y): [2:0-3-11,0-0-11], [12:0-3-11,0-0-11]

			<u>-</u>									-
Loading	(psf)	Spacing	2-0-0	csı		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.63	Vert(LL)	-0.31	14-16	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.83	Vert(CT)	-0.53	14-16	>808	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.48	Horz(CT)	0.15	12	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 159 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2 \*Except\* 1-5,9-13:2x4 SP

1650F 1.5E 2x4 SP 1650F 1.5E

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

SLIDER Left 2x4 SP No.2 -- 3-5-1, Right 2x4 SP No.2

-- 3-3-9

BRACING TOP CHORD

TOP CHORD

OP CHORD Structural wood sheathing directly applied or

2-7-11 oc purlins.

BOT CHORD Rigid ceiling directly applied or 9-9-0 oc

bracing

WEBS 1 Row at midpt 6-16, 8-16 **REACTIONS** (size) 2=0-5-8, 12=0-5-8

Max Horiz 2=148 (LC 12)

Max Uplift 2=-275 (LC 12), 12=-275 (LC 13) Max Grav 2=1752 (LC 2), 12=1752 (LC 2)

FORCES (lb) - Maximum Compression/Maximum

Tension

1-2=0/0. 2-4=-3328/512. 4-6=-3103/471.

6-7=-2247/433, 7-8=-2247/433,

8-10=-3102/471, 10-12=-3326/512,

12-13=0/0

BOT CHORD 2-18=-530/2942, 16-18=-360/2581,

14-16=-289/2581, 12-14=-383/2941 WEBS 7-16=-156/1367, 4-18=-273/212,

6-18=-33/542, 6-16=-790/287, 8-16=-791/287, 8-14=-33/541,

10-14=-272/212

### NOTES

 Unbalanced roof live loads have been considered for this design.

- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-10-8 to 4-1-8, Interior (1) 4-1-8 to 18-0-0, Exterior(2R) 18-0-0 to 23-0-0, Interior (1) 23-0-0 to 36-10-8 zone; cantilever left and right exposed; end vertical left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- All plates are 3x4 MT20 unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- All bearings are assumed to be SP 1650F 1.5E crushing capacity of 565 psi.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 275 lb uplift at joint 2 and 275 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



July 8,2024

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

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



Job	Truss	Truss Type	Qty	Ply	Roof - HR Lot 81	
P240855-01	A3	Common	8	1	Job Reference (optional)	166694258

Run: 8 63 S. Jun 17 2024 Print: 8 630 S. Jun 17 2024 MiTek Industries. Inc. Fri. Jul 05 12:09:30 ID:wv5pEcMn41RuwMuWX0N86szkXBg-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f Page: 1

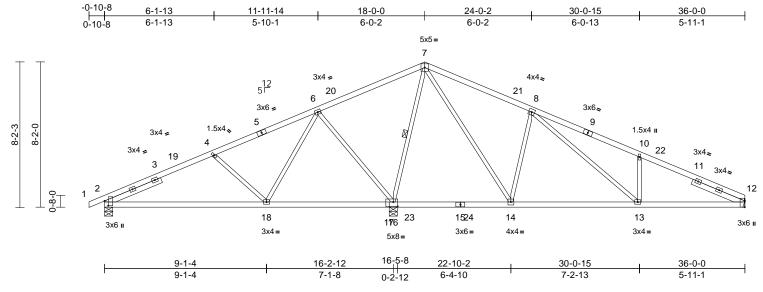


Plate Offsets (X, Y): [2:0-3-3,0-2-7], [12:0-4-3,Edge], [17:0-3-0,0-3-0]

												_
Loading	(psf)	Spacing	2-0-0	csı		DEFL	in	(loc)	I/defI	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.61	Vert(LL)	-0.17	2-18	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.71	Vert(CT)	-0.35	2-18	>560	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.92	Horz(CT)	0.02	12	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 163 lb	FT = 20%

LUMBER

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

**SLIDER** Left 2x4 SP No.2 -- 3-5-1, Right 2x4 SP No.2

-- 3-2-2

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

4-10-5 oc purlins

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

bracing.

WEBS 1 Row at midpt 7-16

REACTIONS (size) 2=0-5-8, 12= Mechanical, 16=0-5-8

Max Horiz 2=148 (LC 12)

Max Uplift 2=-137 (LC 12), 12=-173 (LC 13),

16=-251 (LC 12)

Max Grav 2=620 (LC 25), 12=741 (LC 28),

16=2181 (LC 2)

(lb) - Maximum Compression/Maximum

Tension

1-2=0/0. 2-4=-762/200. 4-6=-434/132. 6-7=0/693, 7-8=-460/294, 8-10=-1221/421,

10-12=-1237/305

BOT CHORD 2-18=-250/631, 16-18=-215/172, 14-16=-286/172, 13-14=-31/487,

12-13=-199/1060

WFBS 7-16=-1358/208, 4-18=-426/233

6-18=-61/631, 6-16=-783/284, 8-14=-692/315, 7-14=-261/1035,

8-13=-224/811, 10-13=-374/230

### NOTES

**FORCES** 

TOP CHORD

Unbalanced roof live loads have been considered for this design.

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-10-8 to 4-1-8, Interior (1) 4-1-8 to 18-0-0, Exterior(2R) 18-0-0 to 23-0-0, Interior (1) 23-0-0 to 36-0-0 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.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Bearings are assumed to be: Joint 2 SP No.2 crushing capacity of 565 psi, Joint 16 SP No.2 crushing capacity of 565 psi.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 137 lb uplift at joint 2, 251 lb uplift at joint 16 and 173 lb uplift at joint
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



July 8,2024

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

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



Job	Truss	Truss Type	Qty	Ply	Roof - HR Lot 81	
P240855-01	A2	Roof Special	2	1	Job Reference (optional)	166694259

Run: 8.63 E Apr 26 2024 Print: 8.630 E Apr 26 2024 MiTek Industries. Inc. Mon Jul 08 10:16:38 ID:CHDmS3BtTjmRKi7v\_C9xqvzkXEU-siNMOoi5hf4ruBcaXSDc9Rxkllo\_kGXDb4QM\_Lz\_9Se

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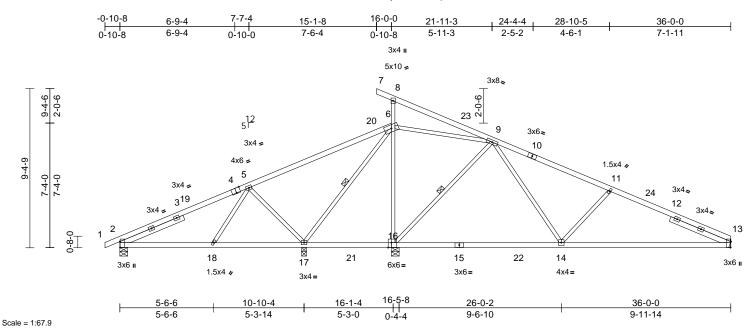


Plate Offsets (X, Y): [2:0-4-3,Edge], [4:0-3-0,Edge], [13:0-4-3,Edge], [16:0-2-4,Edge]

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	0.95	Vert(LL)	-0.25	14-16	>944	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.73	Vert(CT)	-0.42	13-14	>569	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.68	Horz(CT)	0.02	13	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 168 lb	FT = 20%

LUMBER

2x4 SP 1650F 1.5E \*Except\* 1-4,10-13:2x4 TOP CHORD

SP No.2

**BOT CHORD** 2x4 SP 1650F 1.5E \*Except\* 16-15:2x4 SP

No.2

WEBS 2x3 SPF No.2

SLIDER Left 2x4 SP No.2 -- 4-0-10, Right 2x4 SP

No.2 -- 3-10-0

TOP CHORD

**BRACING** 

Structural wood sheathing directly applied or

4-9-2 oc purlins, except end verticals.

Except:

6-0-0 oc bracing: 6-8

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

bracing.

WEBS 1 Row at midpt 6-17, 9-16 REACTIONS All bearings 0-5-8. except 17=0-3-8, 13=

Mechanical

Max Horiz 2=-149 (LC 17)

Max Uplift All uplift 100 (lb) or less at joint(s)

except 2=-118 (LC 12), 13=-184 (LC 13), 16=-208 (LC 13), 17=-180

(LC 12)

Max Grav All reactions 250 (lb) or less at joint (s) except 2=484 (LC 25), 13=793 (LC 28), 16=1649 (LC 2), 17=671

(LC 27)

**FORCES** 

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

TOP CHORD 2-3=-485/163, 3-19=-395/168,

4-19=-309/183, 4-5=-288/187, 5-20=0/419, 6-20=0/489, 6-16=-633/169, 6-8=-268/217,

9-10=-791/291, 10-11=-929/275 11-24=-1071/348, 12-24=-1135/331,

12-13=-1227/326

**BOT CHORD** 2-18=-133/373, 17-18=-171/290,

17-21=-355/186, 16-21=-355/186,

15-16=-1/372, 15-22=-1/372, 14-22=-1/372,

13-14=-227/1048

**WEBS** 5-18=0/291, 5-17=-725/310, 6-9=0/368,

9-16=-996/274, 9-14=-84/834,

11-14=-466/269

### 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 16-1-4, Exterior(2E) 15-1-8 to 20-1-8, Interior (1) 20-1-8 to 36-0-0 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.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 117 lb uplift at joint 2, 179 lb uplift at joint 17, 183 lb uplift at joint 13 and 208 Ib uplift at joint 16.
- 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



July 8,2024

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Truss Type Job Truss Qty Ply Roof - HR Lot 81 166694260 P240855-01 A1 Roof Special Structural Gable Job Reference (optional)

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

Run: 8.63 E Apr 26 2024 Print: 8.630 E Apr 26 2024 MiTek Industries. Inc. Mon Jul 08 10:17:06 ID:ZPE42GuJG2XQkNP0lKB?1ezkXCH-WHeJUj2HsZkktfJ8j2EPrZeluRfM0P\_UG5xOW9z\_9SB

-0-10-8 16-0-0 6-9-4 15-1-8 21-11-3 24-4-4 28-10-5 2-5-2 6-9-4 7-6-4 5-11-3 4-6-1 7-1-11 0-10-8 0-10-8

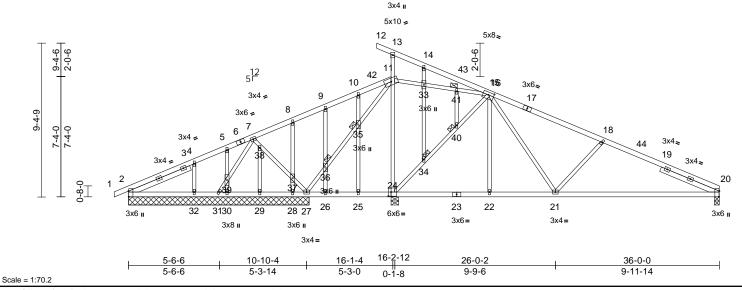


Plate Offsets (X, Y): [2:0-4-3,Edge], [15:0-4-0,0-2-0], [20:0-4-3,Edge], [24:0-2-0,0-3-0]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.67	Vert(LL)	-0.26	20-21	>908	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.95	Vert(CT)	-0.54	20-21	>445	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.59	Horz(CT)	0.02	20	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 197 lb	FT = 20%

LUMBER

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

2x3 SPF No 2 **SLIDER** Left 2x4 SP No.2 -- 4-0-10, Right 2x4 SP

No.2 -- 3-10-0

BRACING TOP CHORD

Structural wood sheathing directly applied or

4-11-9 oc purlins, except end verticals.

Except:

6-0-0 oc bracing: 11-13

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

bracing, Except:

10-0-0 oc bracing: 22-24,21-22 2-2-0 oc bracing: 20-21.

1 Brace at Jt(s): 34,

**JOINTS** 35, 36, 40, 41

**REACTIONS** All bearings 11-0-0. except 20=0-3-8, 24=0-5-8

(lb) - Max Horiz 2=-147 (LC 17)

Max Uplift All uplift 100 (lb) or less at joint(s) 2, 28, 29, 30, 32 except 20=-155 (LC 13), 24=-247 (LC 13), 27=-225

(LC 12), 31=-225 (LC 28)

Max Grav All reactions 250 (lb) or less at joint (s) 2, 28, 29, 30, 31 except 20=777

(LC 28), 24=1558 (LC 2), 27=550 (LC 1), 32=360 (LC 2)

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

TOP CHORD 7-8=-56/428, 8-9=-6/407, 9-10=0/420,

10-42=0/414, 11-42=0/441, 11-24=-534/127, 16-17=-762/229, 17-18=-865/215,

18-44=-1018/292, 19-44=-1081/276,

19-20=-1162/270

**BOT CHORD** 26-27=-395/264, 25-26=-395/264,

24-25=-395/264, 23-24=0/343, 22-23=0/343,

21-22=0/340, 20-21=-177/998

**WEBS** 

11-33=0/419, 33-41=0/398, 15-41=0/407, 24-34=-1062/275, 34-40=-1024/256, 16-40=-986/228, 15-16=-3/344, 16-21=-127/743, 18-21=-499/285

### NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-10-8 to 4-0-0, Interior (1) 4-0-0 to 16-1-4, Exterior(2E) 15-1-8 to 20-1-8, Interior (1) 20-1-8 to 36-0-0 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 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 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 28, 29, 30, 32 except (jt=lb) 20=155, 27=225, 31=224, 24=247.
- 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



July 8,2024

Page: 1

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

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



Job	Truss	Truss Type	Qty	Ply	Roof - HR Lot 81	
P240855-01	B1	Roof Special Supported Gable	1	1	Job Reference (optional)	I66694261

Run: 8 63 S. Jun 17 2024 Print: 8 630 S. Jun 17 2024 MiTek Industries. Inc. Fri Jul 05 12:09:31 ID:bzCw6On6o49uPtGdBr3k7RzkXGI-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1

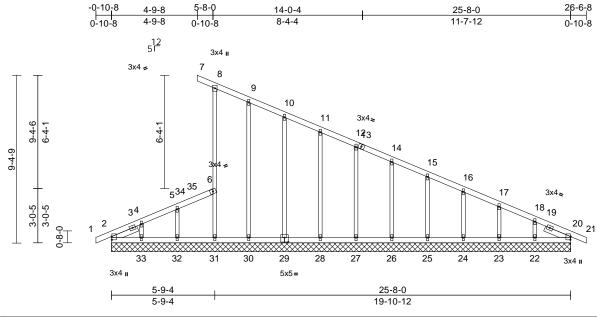


Plate Offsets (X, Y): [2:0-2-3,0-0-3], [20:0-2-3,0-0-3], [29:0-2-8,0-3-0]

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	0.41	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.09	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.20	Horz(CT)	0.01	20	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 129 lb	FT = 20%

LUMBER TOP CHORD	2x4 SP No.2		TOP CHORD	1-2=0/0, 2-4=- 5-6=-208/139,			7 2/241,	,			en designed for a	
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 129 lb	FT = 20%
BCLL	0.0*	Rep Stress Incr	YES	WB	0.20	Horz(CT)	0.01	20	n/a	n/a		
TCDL	10.0	Lumber DOL	1.15	BC	0.09	Vert(CT)	n/a	-	n/a	999		
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.41	Vert(LL)	n/a	-	n/a	999	MT20	197/144

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

**SLIDER** Left 2x4 SP No.2 -- 1-6-8, Right 2x4 SP No.2

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins, except end verticals.

Except:

6-0-0 oc bracing: 6-8

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

bracing, Except:

10-0-0 oc bracing: 2-33,32-33,31-32. 2=25-8-0, 20=25-8-0, 22=25-8-0,

REACTIONS (size)

BRACING

23=25-8-0, 24=25-8-0, 25=25-8-0, 26=25-8-0 27=25-8-0 28=25-8-0 29=25-8-0, 30=25-8-0, 31=25-8-0,

32=25-8-0, 33=25-8-0

Max Horiz 2=-307 (LC 9)

Max Uplift 2=-40 (LC 11), 22=-111 (LC 13),

23=-49 (LC 13), 24=-56 (LC 13), 25=-54 (LC 13), 26=-54 (LC 13), 27=-55 (LC 13), 28=-53 (LC 13),

29=-64 (LC 13), 30=-45 (LC 9), 31=-173 (LC 13), 32=-51 (LC 9),

33=-102 (LC 12)

Max Grav 2=165 (LC 22), 20=206 (LC 20), 22=180 (LC 1), 23=181 (LC 26),

24=180 (LC 1), 25=180 (LC 26), 26=180 (LC 1), 27=180 (LC 26), 28=180 (LC 1), 29=182 (LC 26),

30=167 (LC 1), 31=206 (LC 1), 32=190 (LC 1), 33=158 (LC 25)

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

5-6=-208/139, 6-31=-166/347, 6-8=-142/241, 7-8=-26/0, 8-9=-104/79, 9-10=-130/60,

10-11=-157/71, 11-12=-200/86,

12-14=-243/101, 14-15=-287/116, 15-16=-330/131, 16-17=-374/147,

17-18=-414/161, 18-20=-504/191, 20-21=0/0 2-33=-161/464, 32-33=-161/464,

**BOT CHORD** 31-32=-161/464, 30-31=-169/459, 28-30=-169/459, 27-28=-169/459,

26-27=-169/459, 25-26=-169/459, 24-25=-169/459, 23-24=-169/459,

22-23=-169/459, 20-22=-169/459 WFBS 18-22=-137/227, 17-23=-142/105, 16-24=-140/91, 15-25=-140/89,

14-26=-140/89, 12-27=-140/89, 11-28=-140/88, 10-29=-142/117,

9-30=-128/122, 5-32=-148/130,

4-33=-121/161

### NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Corner(3E) -0-10-8 to 4-1-8, Exterior(2N) 4-1-8 to 5-9-4, Corner(3E) 4-9-8 to 9-8-0, Exterior(2N) 9-8-0 to 26-6-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable or consult qualified building designer as per ANSI/TPI 1.
- All plates are 1.5x4 MT20 unless otherwise indicated. Gable requires continuous bottom chord bearing.
- Gable studs spaced at 2-0-0 oc.

- chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 173 lb uplift at joint 31, 40 lb uplift at joint 2, 111 lb uplift at joint 22, 49 lb uplift at joint 23, 56 lb uplift at joint 24, 54 lb uplift at joint 25, 54 lb uplift at joint 26, 55 lb uplift at joint 27, 53 lb uplift at joint 28, 64 lb uplift at joint 29, 45 lb uplift at joint 30, 51 lb uplift at joint 32 and 102 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.

LOAD CASE(S) Standard



July 8,2024

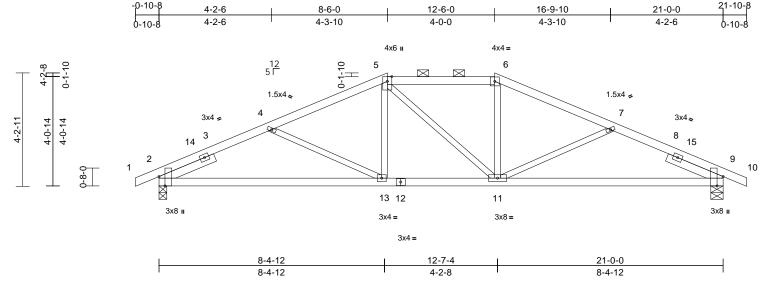
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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



Job	Truss	Truss Type	Qty	Ply	Roof - HR Lot 81	
P240855-01	C3	Hip	1	1	Job Reference (optional)	94262

Run: 8 63 S. Jun 17 2024 Print: 8 630 S. Jun 17 2024 MiTek Industries. Inc. Fri Jul 05 12:09:32 ID:E?WXI0?wSyUYgCTMlzQ\_3sz0OZ4-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1



Scale = 1:42.9

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)	-0.15	2-13	>999		MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.71	Vert(CT)	-0.31	2-13	>825	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.13	Horz(CT)	0.05	9	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 92 lb	FT = 20%

### LUMBER

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

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

No.2 -- 2-2-11 **BRACING** 

TOP CHORD

Structural wood sheathing directly applied or

4-1-5 oc purlins, except 2-0-0 oc purlins (5-0-0 max.): 5-6.

**BOT CHORD** Rigid ceiling directly applied or 9-11-10 oc

bracing.

REACTIONS (size) 2=0-3-8, 9=0-5-8

Max Horiz 2=-72 (LC 17)

Max Uplift 2=-152 (LC 12), 9=-152 (LC 13) Max Grav 2=1006 (LC 1), 9=1006 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension TOP CHORD

1-2=0/0, 2-4=-1699/414, 4-5=-1437/318, 5-6=-1276/326, 6-7=-1437/318,

7-9=-1699/414, 9-10=0/0 **BOT CHORD** 

2-13=-327/1465, 11-13=-173/1275, 9-11=-317/1465

WEBS 5-13=-3/266, 5-11=-134/135, 6-11=0/266,

4-13=-229/191, 7-11=-229/192

### NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-10-8 to 4-0-2, Interior (1) 4-0-2 to 8-6-0, Exterior(2E) 8-6-0 to 12-6-0, Exterior(2R) 12-6-0 to 19-6-14, Interior (1) 19-6-14 to 21-10-8 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.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 152 lb uplift at joint 2 and 152 lb uplift at joint 9.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard



July 8,2024

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

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



Job	Truss	Truss Type	Qty	Ply	Roof - HR Lot 81	
P240855-01	C2	Hip	1	1	Job Reference (optional)	166694263

Run: 8 63 S. Jun 17 2024 Print: 8 630 S. Jun 17 2024 MiTek Industries. Inc. Fri. Jul 05 12:09:32 ID:tmBD8Uk7dBjg1qo7SL0qAEz0OZQ-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1

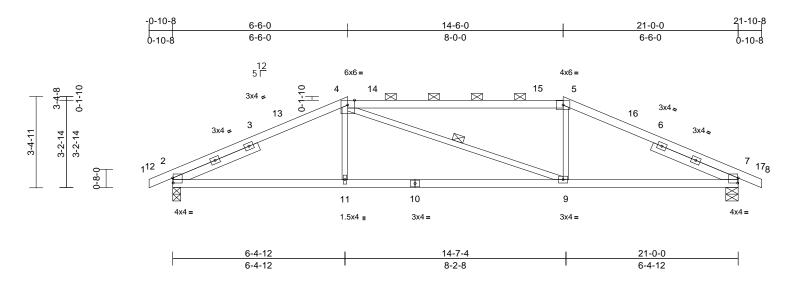


Plate Offsets (X, Y)	[2:0-0-3,0-2-3	3], [7:0-0-3,0-2-3]
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Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.75	Vert(LL)	-0.11	9-11	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.63	Vert(CT)	-0.25	9-11	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.12	Horz(CT)	0.05	7	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 89 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2 \*Except\* 4-5:2x4 SP 2400F

2.0E

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

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

-- 3-5-3

**BRACING** TOP CHORD

Structural wood sheathing directly applied or

3-7-13 oc purlins, except

2-0-0 oc purlins (4-8-7 max.): 4-5. BOT CHORD Rigid ceiling directly applied or 10-0-0 oc

bracing.

WFBS 1 Row at midpt 4-9 REACTIONS (size) 2=0-3-8, 7=0-5-8

Max Horiz 2=57 (LC 16)

Max Uplift 2=-154 (LC 8), 7=-154 (LC 9)

Max Grav 2=1006 (LC 1), 7=1006 (LC 1)

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

Tension

TOP CHORD 1-2=0/0, 2-4=-1707/352, 4-5=-1479/372,

5-7=-1709/352, 7-8=0/0

**BOT CHORD** 2-11=-244/1483, 9-11=-247/1478,

7-9=-234/1485

WEBS 4-11=0/311, 4-9=-169/171, 5-9=0/311

### 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 6-6-0, Exterior(2R) 6-6-0 to 13-6-14, Interior (1) 13-6-14 to 14-6-0, Exterior(2R) 14-6-0 to 21-6-14, Interior (1) 21-6-14 to 21-10-8 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.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 154 lb uplift at joint 2 and 154 lb uplift at joint 7.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 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



July 8,2024

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

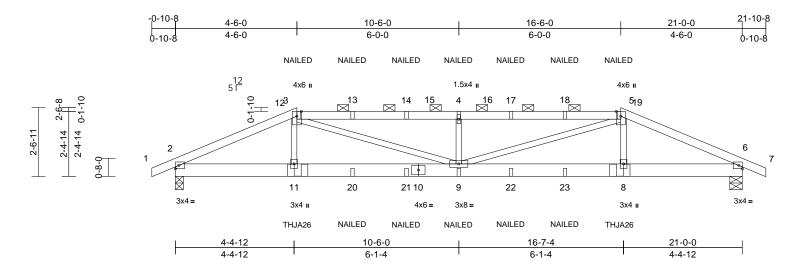
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not



Job	Truss	Truss Type	Qty	Ply	Roof - HR Lot 81	
P240855-01	C1	Hip Girder	1	2	Job Reference (optional)	166694264

Run: 8.63 S Jun 17 2024 Print: 8.630 S Jun 17 2024 MiTek Industries, Inc. Fri Jul 05 12:09:31 ID:IjrSGQAeiloLuci5CzhomJz0Oa9-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:42.7

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	0.61	Vert(LL)	-0.11	9	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.52	Vert(CT)	-0.20	9	>999	180		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.26	Horz(CT)	0.03	6	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 175 lb	FT = 20%

### LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or

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

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

bracing

**REACTIONS** (size) 2=0-3-8, 6=0-5-8

Max Horiz 2=41 (LC 33)

Max Uplift 2=-432 (LC 8), 6=-438 (LC 9)

Max Grav 2=1599 (LC 1), 6=1610 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/6, 2-3=-3215/930, 3-4=-4170/1268,

4-5=-4170/1268, 5-6=-3185/919, 6-7=0/6

BOT CHORD 2-11=-776/2841, 9-11=-776/2819, 8-9=-763/2783, 6-8=-764/2805

WEBS 3-11=-13/471, 3-9=-447/1492, 4-9=-827/450,

5-9=-457/1527, 5-8=-13/470

### NOTES

- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
  - Top chords connected as follows: 2x4 1 row at 0-9-0 oc.
  - Bottom chords connected as follows: 2x6 2 rows staggered at 0-9-0 oc.
- Web connected as follows: 2x3 1 row at 0-9-0 oc.

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

- 4) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-10-8 to 4-1-8, Interior (1) 4-1-8 to 4-6-0, Exterior(2R) 4-6-0 to 11-6-14, Interior (1) 11-6-14 to 16-6-0, Exterior(2E) 16-6-0 to 21-10-8 zone; cantilever left and right exposed; end vertical left and right exposed; conducted and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 5) Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SPF No.2 crushing capacity of 425 psi.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 432 lb uplift at joint 2 and 438 lb uplift at joint 6.
- 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 12) Use Simpson Strong-Tie THJA26 (THJA26 on 2 ply, Left Hand Hip) or equivalent at 4-6-6 from the left end to connect truss(es) to front face of bottom chord.
- Use Simpson Strong-Tie THJA26 (THJA26 on 2 ply, Right Hand Hip) or equivalent at 16-5-10 from the left end to connect truss(es) to front face of bottom chord.
- 14) Fill all nail holes where hanger is in contact with lumber.
- 15) "NAILED" indicates Girder: 3-10d (0.148" x 3") toe-nails per NDS guidelines.

### LOAD CASE(S) Standard

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

Uniform Loads (lb/ft)
Vert: 1-3=-70, 3-5=-70, 5-7=-70, 2-6=-20
Concentrated Loads (lb)
Vert: 3=-79 (F), 5=-79 (F), 11=-263 (F), 9=-24 (F), 4=-79 (F), 8=-263 (F), 13=-79 (F), 14=-79 (F), 17=-79 (F), 18=-79 (F), 20=-24 (F), 21=-24 (F), 22=-24 (F), 23=-24 (F)



July 8,2024

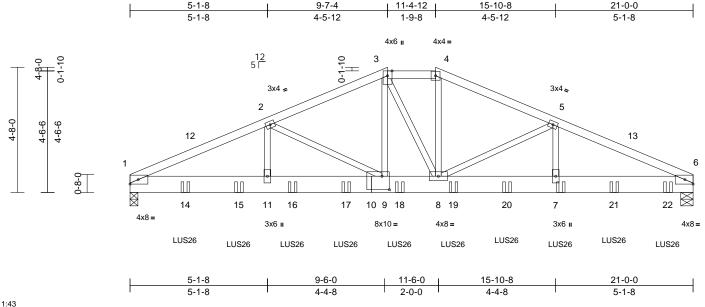
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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



Job	Truss	Truss Type	Qty	Ply	Roof - HR Lot 81	
P240855-01	C4	Hip Girder	1	3	Job Reference (optional)	166694265

Run: 8.63 S Jun 17 2024 Print: 8.630 S Jun 17 2024 MiTek Industries, Inc. Fri Jul 05 12:09:32 ID:EXaOueQFRPnjlR4uk61yR1z0OYY-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f Page: 1



Scale = 1:43

Plate Offsets (X, Y): [10:0-3-4,0-6-0]

Loading	(psf)	Spacing	2-0-0	csı		DEFL	in	(loc)	l/defl	I /d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC.	0.38	Vert(LL)	-0.09	9-11	>999		MT20	197/144
TCDL	10.0	Lumber DOL		BC	0.64	- ( /	-0.03	9-11	>999	180	WIIZU	131/144
		1	1.15	l .		/		9-11				
BCLL	0.0*	Rep Stress Incr	NO	WB	0.25	Horz(CT)	0.04	6	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 311 lb	FT = 20%

### LUMBER

TOP CHORD 2x4 SP No.2 **BOT CHORD** 2x8 SPF No.2 2x3 SPF No.2 WEBS

**BRACING** 

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins, except

2-0-0 oc purlins (6-0-0 max.): 3-4. Rigid ceiling directly applied or 10-0-0 oc

**BOT CHORD** bracing

REACTIONS (size) 1=0-3-8, 6=0-5-8

Max Horiz 1=78 (LC 33)

Max Uplift 1=-1028 (LC 12), 6=-1117 (LC 13) Max Grav 1=4373 (LC 1), 6=4721 (LC 1)

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

Tension

1-2=-8438/2085, 2-3=-6374/1617, TOP CHORD

3-4=-5880/1533, 4-5=-6458/1637,

5-6=-8307/2055

**BOT CHORD** 1-11=-1843/7587. 9-11=-1843/7587.

8-9=-1348/5804, 7-8=-1803/7446,

6-7=-1803/7446

**WEBS** 3-9=-492/2003, 3-8=-99/306, 4-8=-542/2165,

2-9=-1996/565, 5-8=-1751/509, 2-11=-380/1822, 5-7=-347/1664

### NOTES

1) 3-ply truss to be connected together with 10d (0.131"x3") nails as follows:

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

Bottom chords connected as follows: 2x8 - 2 rows staggered at 0-5-0 oc.

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

- Unbalanced roof live loads have been considered for
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-1-12 to 5-1-8, Interior (1) 5-1-8 to 9-7-4, Exterior(2E) 9-7-4 to 11-4-12, Exterior(2R) 11-4-12 to 18-5-10, Interior (1) 18-5-10 to 20-9-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SPF No.2 crushing capacity of 425 psi.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1028 lb uplift at joint 1 and 1117 lb uplift at joint 6.
- 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.
- 12) Use Simpson Strong-Tie LUS26 (4-10d Girder, 4-10d Truss) or equivalent spaced at 2-0-0 oc max. starting at 2-0-12 from the left end to 4-0-12 to connect truss(es) to back face of bottom chord.
- 13) Use Simpson Strong-Tie LUS26 (4-10d Girder, 4-10d Truss, Single Ply Girder) or equivalent spaced at 2-0-0 oc max. starting at 6-0-12 from the left end to 20-0-12 to connect truss(es) to back face of bottom chord
- 14) Fill all nail holes where hanger is in contact with lumber.

### LOAD CASE(S) Standard

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

Uniform Loads (lb/ft)

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

Concentrated Loads (lb)

Vert: 7=-715 (B), 14=-758 (B), 15=-758 (B), 16=-715 (B), 17=-715 (B), 18=-715 (B), 19=-715 (B), 20=-715 (B), 21=-715 (B), 22=-718 (B)



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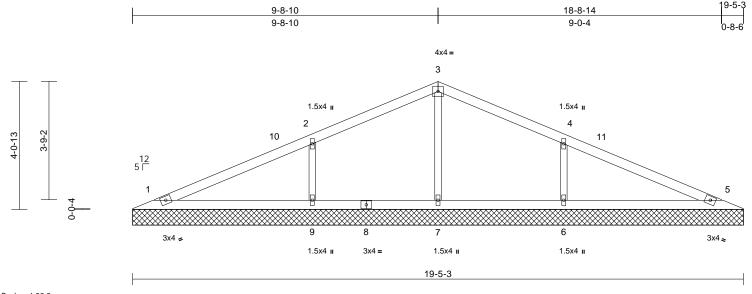
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Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not



Job	Truss	Truss Type	Qty	Ply	Roof - HR Lot 81	
P240855-01	V1	Valley	1	1	Job Reference (optional)	166694266

Run: 8 63 S. Jun 17 2024 Print: 8 630 S. Jun 17 2024 MiTek Industries. Inc. Fri. Jul 05 12:09:32 ID:3zT4jVig0TgS0zKJbRxMtuz0OYB-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1



Scale = 1:36.6

Loading	(psf)	Spacing	2-0-0	csı		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.37	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	0.08	Horiz(TL)	0.00	5	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 64 lb	FT = 20%

### LUMBER

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

**BRACING** 

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins.

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

REACTIONS (size) 1=19-5-3, 5=19-5-3, 6=19-5-3, 7=19-5-3, 9=19-5-3

Max Horiz 1=71 (LC 16)

Max Uplift 1=-19 (LC 12), 5=-31 (LC 13),

6=-154 (LC 13), 9=-154 (LC 12) 1=189 (LC 1), 5=189 (LC 1), 6=500

(LC 26), 7=250 (LC 1), 9=500 (LC

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

Tension

TOP CHORD 1-2=-88/79, 2-3=-90/118, 3-4=-90/114,

4-5=-66/64

**BOT CHORD** 1-9=-11/56, 7-9=-11/56, 6-7=-11/56,

5-6=-11/56

**WEBS** 3-7=-195/30, 2-9=-381/231, 4-6=-381/231

### 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) 0-9-1 to 5-9-3, Interior (1) 5-9-3 to 9-9-3, Exterior(2R) 9-9-3 to 14-9-3, Interior (1) 14-9-3 to 18-9-6 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable or consult qualified building designer as per ANSI/TPI 1.

- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 19 lb uplift at joint 1, 31 lb uplift at joint 5, 154 lb uplift at joint 9 and 154 lb uplift at joint 6.
- 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



July 8,2024

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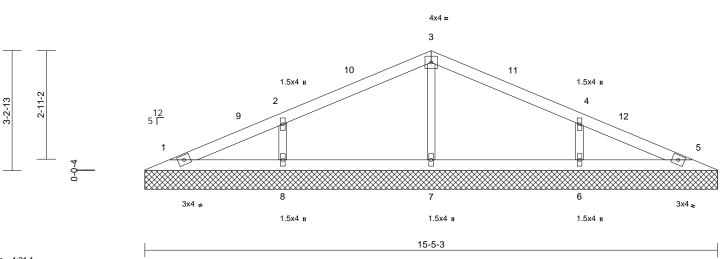
Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not



Job	Truss	Truss Type	Qty	Ply	Roof - HR Lot 81	
P240855-01	V2	Valley	1	1	Job Reference (optional)	166694267

Run: 8 63 S. Jun 17 2024 Print: 8 630 S. Jun 17 2024 MiTek Industries. Inc. Fri. Jul 05 12:09:32 

15-5-3 7-8-10 14-8-14 7-8-10 7-0-4 0-8-6



Scale = 1:31.1

Loading	(psf)	Spacing	2-0-0	csı		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.22	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.11	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.06	Horiz(TL)	0.00	5	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 49 lb	FT = 20%

### LUMBER

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

**BRACING** 

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins.

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

bracing.

REACTIONS (size) 1=15-5-3, 5=15-5-3, 6=15-5-3,

7=15-5-3, 8=15-5-3 Max Horiz 1=-55 (LC 17)

Max Uplift

1=-12 (LC 13), 5=-10 (LC 13), 6=-119 (LC 13), 8=-120 (LC 12)

1=106 (LC 1), 5=106 (LC 1), 6=375

(LC 26), 7=315 (LC 1), 8=375 (LC

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

Tension

TOP CHORD 1-2=-71/46, 2-3=-87/104, 3-4=-87/98,

4-5=-53/35

**BOT CHORD** 1-8=-4/43, 7-8=-4/43, 6-7=-4/43, 5-6=-4/43 WEBS 3-7=-235/88, 2-8=-295/222, 4-6=-295/222

### NOTES

- Unbalanced roof live loads have been considered for 1) this design
- Wind: ASCE 7-16: Vult=115mph (3-second aust) 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) 0-9-1 to 5-9-1, Interior (1) 5-9-1 to 7-9-3, Exterior(2R) 7-9-3 to 12-9-3, Interior (1) 12-9-3 to 14-9-6 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable or consult qualified building designer as per ANSI/TPI 1.

- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 12 lb uplift at joint 1, 10 lb uplift at joint 5, 120 lb uplift at joint 8 and 119 lb uplift at joint 6.
- 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



July 8,2024

Page: 1

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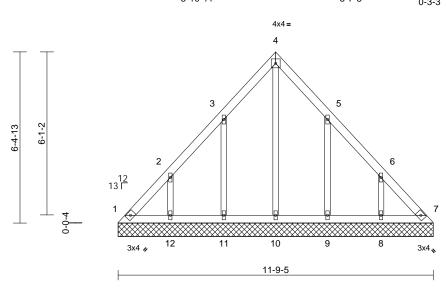
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Job	Truss	Truss Type	Qty	Ply	Roof - HR Lot 81	
P240855-01	LG01	Lay-In Gable	1	1	Job Reference (optional)	166694268

Run: 8 63 S. Jun 17 2024 Print: 8 630 S. Jun 17 2024 MiTek Industries. Inc. Fri. Jul 05 12:09:32 ID:ljrSGQAeiloLuci5CzhomJz0Oa9-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f





Scale = 1:43.1

Loading	(psf)	Spacing	2-0-0	csı		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.07	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.04	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.09	Horiz(TL)	0.00	7	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 55 lb	FT = 20%

### LUMBER

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

### **BRACING**

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins. **BOT CHORD** 

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

REACTIONS (size) 1=11-9-5, 7=11-9-5, 8=11-9-5,

9=11-9-5, 10=11-9-5, 11=11-9-5,

12=11-9-5 Max Horiz 1=-173 (LC 8)

Max Uplift 1=-58 (LC 10), 7=-33 (LC 11),

8=-145 (LC 13), 9=-142 (LC 13), 11=-143 (LC 12), 12=-144 (LC 12)

Max Grav 1=148 (LC 21), 7=136 (LC 22),

8=210 (LC 20), 9=214 (LC 20) 10=141 (LC 22), 11=216 (LC 19),

12=210 (LC 19)

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

TOP CHORD 1-2=-218/139, 2-3=-137/89, 3-4=-130/119,

4-5=-130/114, 5-6=-111/55, 6-7=-196/135 **BOT CHORD** 1-12=-108/161, 11-12=-109/161,

10-11=-109/161, 9-10=-109/161,

8-9=-109/161, 7-8=-108/161

2-12=-199/162, 3-11=-201/168,

4-10=-102/62, 5-9=-201/167, 6-8=-199/163

**WEBS** NOTES

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

- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-4-0 to 5-4-0, Interior (1) 5-4-0 to 5-10-14, Exterior(2R) 5-10-14 to 10-10-14, Interior (1) 10-10-14 to 11-5-13 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- All plates are 1.5x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 0-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 58 lb uplift at joint 1, 33 lb uplift at joint 7, 144 lb uplift at joint 12, 143 lb uplift at joint 11, 142 lb uplift at joint 9 and 145 lb uplift at
- 11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



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Page: 1

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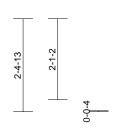


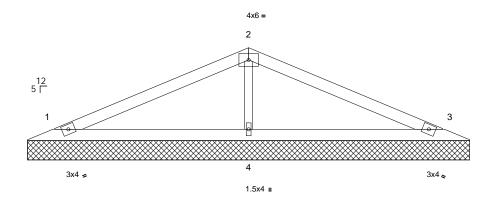
Job	Truss	Truss Type	Qty	Ply	Roof - HR Lot 81	
P240855-01	V3	Valley	1	1	Job Reference (optional)	166694269

Run: 8.63 S Jun 17 2024 Print: 8.630 S Jun 17 2024 MiTek Industries, Inc. Fri Jul 05 12:09:33 ID:3zT4jVig0TgS0zKJbRxMtuz0OYB-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1







11-5-3

Scale = 1:29.8

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.42	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.25	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.07	Horiz(TL)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 35 lb	FT = 20%

### LUMBER

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

### **BRACING**

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins.

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

bracing.

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

Max Horiz 1=40 (LC 12)

Max Uplift 1=-49 (LC 12), 3=-56 (LC 13),

4=-43 (LC 12)

Max Grav 1=207 (LC 25), 3=207 (LC 26),

4=496 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-106/64, 2-3=-106/70 BOT CHORD 1-4=-3/43, 3-4=-3/43

WEBS 2-4=-3/43, 3-4=-3/43

VVEDS 2-4=-343/2

### NOTES

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

- 7) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 8) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 49 lb uplift at joint 1, 56 lb uplift at joint 3 and 43 lb uplift at joint 4.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



July 8,2024

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

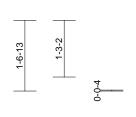
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not

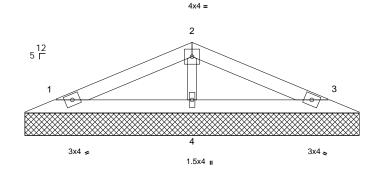


Job	Truss	Truss Type	Qty	Ply	Roof - HR Lot 81	
P240855-01	V4	Valley	1	1	Job Reference (optional)	166694270

Run: 8.63 S Jun 17 2024 Print: 8.630 S Jun 17 2024 MiTek Industries. Inc. Fri Jul 05 12:09:33 ID:3zT4jVig0TgS0zKJbRxMtuz0OYB-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1







7-5-3

Scale = 1:25.6

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	0.19	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.09	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.04	Horiz(TL)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 22 lb	FT = 20%

### LUMBER

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

### **BRACING**

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins.

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

bracing.

REACTIONS (size) 1=7-5-3, 3=7-5-3, 4=7-5-3

Max Horiz 1=24 (LC 12)

Max Uplift 1=-36 (LC 12), 3=-40 (LC 13), 4=-13 (LC 12)

1=137 (LC 1), 3=137 (LC 1), 4=269 Max Grav

(LC 1)

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

TOP CHORD 1-2=-55/43, 2-3=-55/48 **BOT CHORD** 1-4=-1/24, 3-4=-1/24

2-4=-193/164 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
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- 7) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 36 lb uplift at joint 1, 40 lb uplift at joint 3 and 13 lb uplift at joint 4.
- 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



July 8,2024

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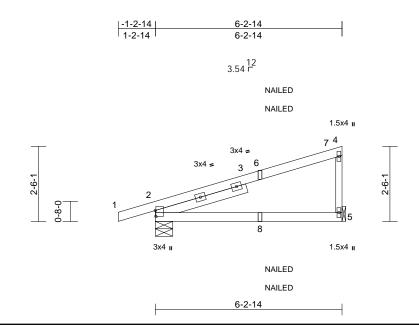
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not



Job	Truss	Truss Type	Qty	Ply	Roof - HR Lot 81	
P240855-01	CG1	Diagonal Hip Girder	2	1	Job Reference (optional)	166694271

Run: 8.63 S Jun 17 2024 Print: 8.630 S Jun 17 2024 MiTek Industries, Inc. Fri Jul 05 12:09:32 ID:OUW8fuvrt?1SFD0twMHetgz0OaV-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:38.5

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.94	Vert(LL)	-0.08	2-5	>867	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.53	Vert(CT)	-0.17	2-5	>433	180		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.00	Horz(CT)	0.00	5	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 27 lb	FT = 20%

### LUMBER

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

SLIDER Left 2x4 SP No.2 -- 3-1-15

### BRACING

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

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

bracing.

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

Max Horiz 2=102 (LC 9)

Max Uplift 2=-116 (LC 8), 5=-67 (LC 12) Max Grav 2=371 (LC 1), 5=267 (LC 1)

FORCES (Ib) - Maximum Compression/Maximum

Tension TOP CHORD 1-2=0/0, 2-4=-133/79, 4-5=-206/266

BOT CHORD 2-5=-45/49

### NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Corner (3) -1-2-14 to 5-10-0, Exterior(2R) 5-10-0 to 6-1-10 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Bearings are assumed to be: Joint 2 SP No.2 crushing capacity of 565 psi.
- Refer to girder(s) for truss to truss connections.

- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 67 lb uplift at joint 5 and 116 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.
- 8) "NAILED" indicates Girder: 3-10d (0.148" x 3") toe-nails per NDS guidelines.
- 9) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

### LOAD CASE(S) Standard

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

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

SCOTT M.
SEVIER

NUMBER
PE-2001018807

July 8,2024

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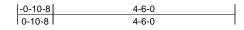
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not

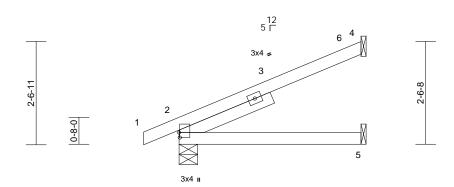


[	Job	Truss	Truss Type Qty Ply Roof - HR Lot 81		Roof - HR Lot 81		
F	P240855-01	J1	Jack-Open	7	1	Job Reference (optional)	166694272

Run: 8.63 S Jun 17 2024 Print: 8.630 S Jun 17 2024 MiTek Industries, Inc. Fri Jul 05 12:09:32 ID:a3dRq1dPlw7j?hlS31NFRqz0Oas-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1





4-6-0

Scale = 1:28.5

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.41	Vert(LL)	-0.02	2-5	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.24	Vert(CT)	-0.05	2-5	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.01	4	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 19 lb	FT = 20%

### LUMBER

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

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

BRACING

TOP CHORD Structural wood sheathing directly applied or

4-6-0 oc purlins.

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

bracing.

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

Mechanical Max Horiz 2=97 (LC 12)

Max Uplift 2=-44 (LC 12), 4=-92 (LC 12) Max Grav 2=267 (LC 1), 4=149 (LC 1), 5=89

(LC 3)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/0, 2-4=-90/49

BOT CHORD 2-5=0/0

### NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-10-8 to 4-1-8, Interior (1) 4-1-8 to 4-5-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 4) Bearings are assumed to be: , Joint 2 SP No.2 crushing capacity of 565 psi.
- 5) Refer to girder(s) for truss to truss connections.

- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 92 lb uplift at joint 4 and 44 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



July 8,2024

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

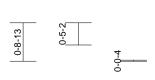
Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not

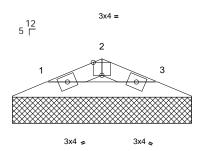


Job	Truss	Truss Type	Type Qty Ply Roof - HR Lot 81		Roof - HR Lot 81	
P240855-01	V5	Valley	1	1	Job Reference (optional)	166694273

Run: 8.63 S Jun 17 2024 Print: 8.630 S Jun 17 2024 MiTek Industries, Inc. Fri Jul 05 12:09:33 ID:3zT4jVig0TgS0zKJbRxMtuz0OYB-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

1-8-10 2-8-14 3-5-3 1-8-10 1-0-4 0-8-6





3-5-3

Scale = 1:22 1

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.03	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.05	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horiz(TL)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 8 lb	FT = 20%

### LUMBER

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

### BRACING

TOP CHORD Structural wood sheathing directly applied or 3-6-6 oc purlins.

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

bracing.

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

Max Horiz 1=8 (LC 12)

Max Uplift 1=-14 (LC 12), 3=-14 (LC 13) Max Grav 1=91 (LC 1), 3=91 (LC 1)

FORCES (Ib) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=-101/94, 2-3=-101/98

BOT CHORD 1-3=-72/83

### NOTES

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

- 7) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 8) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 14 lb uplift at joint 1 and 14 lb uplift at joint 3.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



July 8,2024

Page: 1

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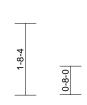


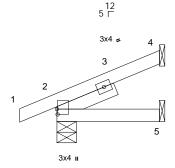
Job	Truss	ss Truss Type Qty Ply Roof - HR Lot 81		Roof - HR Lot 81		
P240855-01	J2	Jack-Open	4	1	Job Reference (optional)	166694274

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Page: 1

-0-10-8	2-4-15
0-10-8	2-4-15





2-4-15



Scale = 1:27.1

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

		_				-	-				_	
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	0.10	Vert(LL)	0.00	2-5	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.06	Vert(CT)	0.00	2-5	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 11 lb	FT = 20%

LUMBER

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

SLIDER Left 2x4 SP No.2 -- 1-5-9

BRACING

TOP CHORD Structural wood sheathing directly applied or

2-4-15 oc purlins.

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

bracing.

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

Max Horiz 2=59 (LC 12)

Max Uplift 2=-33 (LC 12), 4=-50 (LC 12) Max Grav 2=178 (LC 1), 4=71 (LC 1), 5=47

(LC 3)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/0, 2-4=-57/26

BOT CHORD 2-5=0/0

### NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Bearings are assumed to be: , Joint 2 SP No.2 crushing capacity of 565 psi.
- 5) Refer to girder(s) for truss to truss connections.

- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 50 lb uplift at joint 4 and 33 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

SCOTT M.
SEVIER

NUMBER
PE-2001018807

July 8,2024

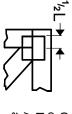
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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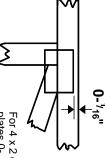


### Symbols

## 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-  $v_{16}$  from outside edge of truss.

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

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

### PLATE SIZE



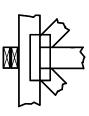
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

## LATERAL BRACING LOCATION



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

### **BEARING**



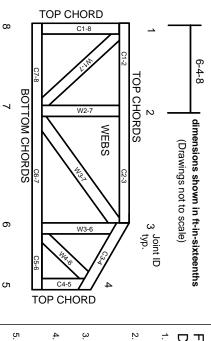
Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number/letter where bearings occur Min size shown is for crushing only.

### Industry Standards:

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

ANSI/TPI1: DSB-22:

## **Numbering System**



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

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

# Product Code Approvals

ICC-ES Reports:

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

# Design General Notes

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

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

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## 

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

# General Safety Notes of the services of the se

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

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

DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
09/10/2024 3:40:03