

RE: P240906-01
Roof - HR Lot 202

MiTek, Inc.
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200

Site Information:

Customer: Clayton Properties Project Name: P240906-01
Lot/Block: 202 Model: Wildflower - Farmhouse 3Car
Address: 1613 SW Buckthorn Dr Subdivision: Hawthorne 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
Roof Load: 45.0 psf Floor Load: N/A psf

This package includes 21 individual, dated Truss Design Drawings and 0 Additional Drawings.

No.	Seal#	Truss Name	Date	No.	Seal#	Truss Name	Date
1	I66720478	A5	7/8/2024	21	I66720498	J2	7/8/2024
2	I66720479	A4	7/8/2024				
3	I66720480	A3	7/8/2024				
4	I66720481	A2	7/8/2024				
5	I66720482	A1	7/8/2024				
6	I66720483	B1	7/8/2024				
7	I66720484	C3	7/8/2024				
8	I66720485	C2	7/8/2024				
9	I66720486	C1	7/8/2024				
10	I66720487	C4	7/8/2024				
11	I66720488	V1	7/8/2024				
12	I66720489	V2	7/8/2024				
13	I66720490	HG1	7/8/2024				
14	I66720491	V3	7/8/2024				
15	I66720492	PB01	7/8/2024				
16	I66720493	V4	7/8/2024				
17	I66720494	CG1	7/8/2024				
18	I66720495	CG2	7/8/2024				
19	I66720496	J1	7/8/2024				
20	I66720497	V5	7/8/2024				

The truss drawing(s) referenced above have been prepared by
MiTek USA, Inc under my direct supervision
based on the parameters provided by .

Truss Design Engineer's Name: 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

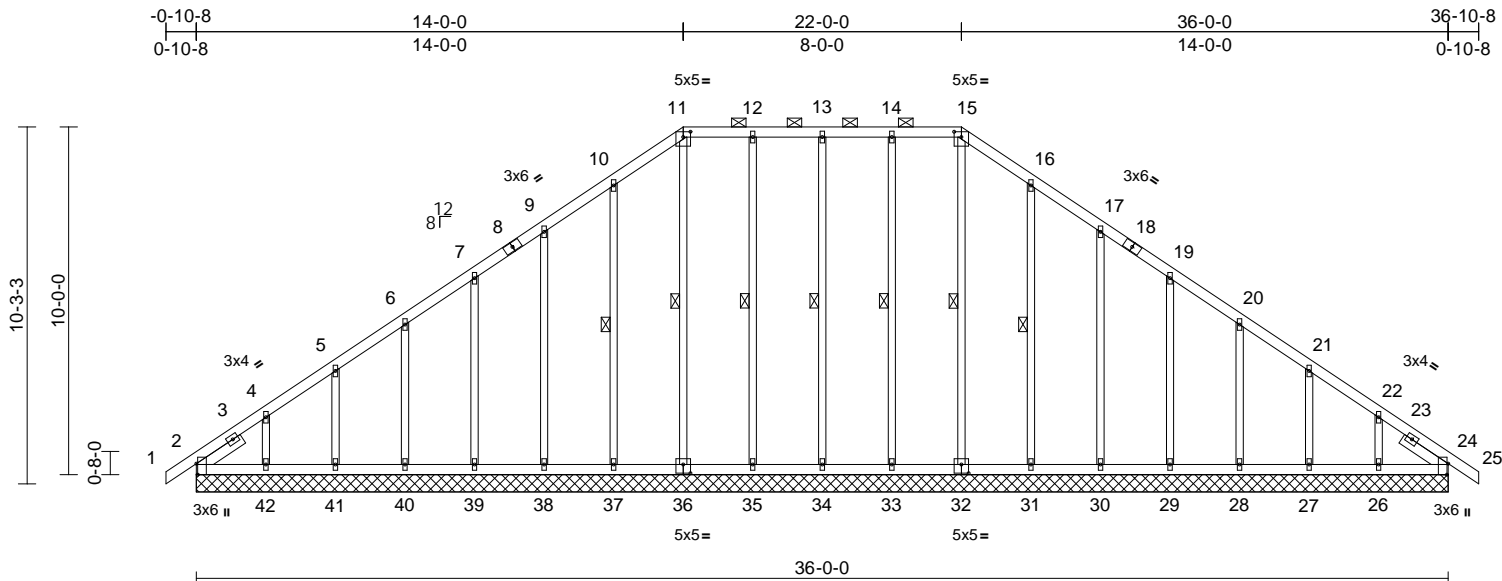
Job	Truss	Truss Type	Qty	Ply	Roof - HR Lot 202
P240906-01	A5	Piggyback Base Supported Gable	1	1	Job Reference (optional)

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

Run: 8.95 S 8.63 Jun 17 2024 Print: 8.630 S Jun 17 2024 MiTek Industries, Inc. Mon Jul 1 10:11:44.00 Page: 1

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09/24/2024



Scale = 1:66.3

Plate Offsets (X, Y): [2:0-3-13,Edge], [11:0-2-8,0-1-13], [15:0-2-8,0-1-13], [24:0-3-13,Edge], [32:0-2-8,0-3-0], [36:0-2-8,0-3-0]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.08	Vert(LL)	n/a	-	n/a	999	MT20
TCDL	10.0	Lumber DOL	1.15	BC	0.05	Vert(CT)	n/a	-	n/a	999	244/190
BCLL	0.0*	Rep Stress Incr	YES	WB	0.18	Horz(CT)	0.01	24	n/a	n/a	
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							
Weight: 209 lb FT = 20%											

LUMBER

TOP CHORD	2x4 SP No.2
BOT CHORD	2x4 SP No.2
OTHERS	2x3 SPF No.2
SLIDER	Left 2x4 SP No.2 -- 1-6-4, Right 2x4 SP No.2 -- 1-6-4

BRACING

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 11-15.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	1 Row at midpt 15-32, 14-33, 13-34, 12-35, 11-36, 10-37, 16-31

REACTIONS (size)

2=36-0-0, 24=36-0-0, 26=36-0-0, 27=36-0-0, 28=36-0-0, 29=36-0-0, 30=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, 37=36-0-0, 38=36-0-0, 39=36-0-0, 40=36-0-0, 41=36-0-0, 42=36-0-0	
Max Horiz	2=277 (LC 11)
Max Uplift	2=100 (LC 8), 24=20 (LC 9), 26=118 (LC 13), 27=73 (LC 13), 28=79 (LC 13), 29=77 (LC 13), 30=82 (LC 13), 31=76 (LC 13), 33=43 (LC 9), 34=43 (LC 8), 35=41 (LC 9), 36=14 (LC 9), 37=79 (LC 12), 38=80 (LC 12), 39=77 (LC 12), 40=80 (LC 12), 41=71 (LC 12), 42=132 (LC 12)

FORCES

(lb) - Maximum Compression/Maximum Tension	
TOP CHORD	1-2=0/16, 2-4=-286/237, 4-5=-198/190, 5-6=-172/168, 6-7=-155/162, 7-9=-141/190, 9-10=-138/232, 10-11=-177/273, 11-12=-153/250, 12-13=-153/250, 13-14=-153/250, 14-15=-153/250, 15-16=-177/273, 16-17=-138/209, 17-19=-99/141, 19-20=-69/75, 20-21=-84/54, 21-22=-113/77, 22-24=-202/113, 24-25=0/16
BOT CHORD	2-42=-95/196, 41-42=-95/196, 40-41=-95/196, 39-40=-95/196, 38-39=-95/196, 37-38=-95/196, 35-37=-95/196, 34-35=-95/196, 33-34=-95/196, 31-33=-95/196, 30-31=-95/196, 29-30=-95/196, 28-29=-95/196, 27-28=-95/196, 26-27=-95/196, 24-26=-95/196
WEBS	15-32=-128/7, 14-33=-148/67, 13-34=-139/67, 12-35=-148/65, 11-36=-147/45, 10-37=-158/103, 9-38=-148/104, 7-39=-149/101, 6-40=-149/103, 5-41=-147/96, 4-42=-173/151, 16-31=-156/100, 17-30=-149/106, 19-29=-149/101, 20-28=-149/103, 21-27=-149/98, 22-26=-158/138

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 4-0-0, Exterior(2N) 4-0-0 to 14-0-0, Corner(3R) 14-0-0 to 19-0-0, Exterior(2N) 19-0-0 to 22-0-0, Corner(3R) 22-0-0 to 27-0-0, Exterior(2N) 27-0-0 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.
- Provide adequate drainage to prevent water ponding.
- All plates are 1.5x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.



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.

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, 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.sbcsccomponents.com)

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Job	Truss	Truss Type	Qty	Ply	Roof - HR Lot 202
P240906-01	A5	Piggyback Base Supported Gable	1	1	Job Reference (optional)

RELEASE FOR CONSTRUCTION

AS NOTED FOR PLAN REVIEW
DEVELOPMENT SERVICES
166720478
LEE'S SUMMIT, MISSOURI

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

Run: 8.95 S 8.63 Jun 17 2024 Print: 8.630 S Jun 17 2024 MiTek Industries, Inc. Mon Jul 15 11:44:00 Page: 2
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- 9) * 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.
- 10) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint 2, 43 lb uplift at joint 33, 43 lb uplift at joint 34, 41 lb uplift at joint 35, 14 lb uplift at joint 36, 79 lb uplift at joint 37, 80 lb uplift at joint 38, 77 lb uplift at joint 39, 80 lb uplift at joint 40, 71 lb uplift at joint 41, 132 lb uplift at joint 42, 76 lb uplift at joint 31, 82 lb uplift at joint 30, 77 lb uplift at joint 29, 79 lb uplift at joint 28, 73 lb uplift at joint 27, 118 lb uplift at joint 26 and 20 lb uplift at joint 24.
- 12) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 13) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

09/24/2024

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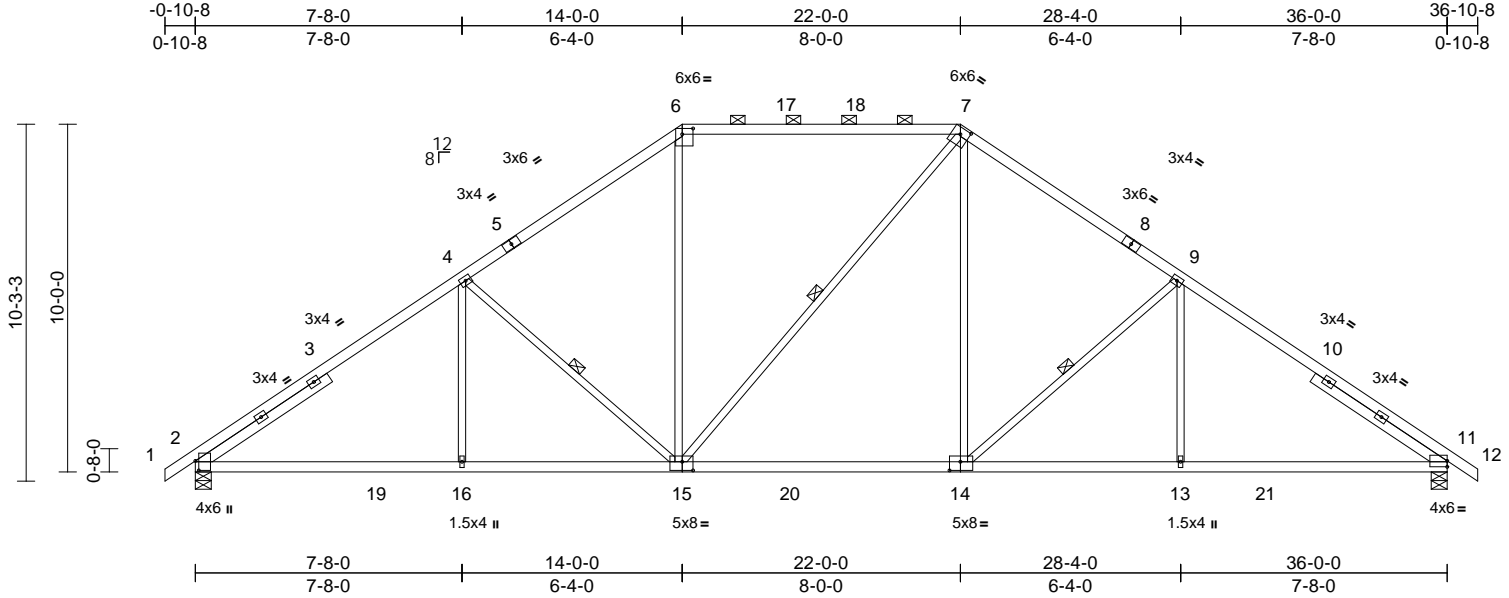
Job	Truss	Truss Type	Qty	Ply	Roof - HR Lot 202	RELEASE FOR CONSTRUCTION
P240906-01	A4	Piggyback Base	18	1	Job Reference (optional)	AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 166720479 LEE'S SUMMIT, MISSOURI

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

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09/24/2024



Scale = 1:66.3									
Plate Offsets (X, Y): [2:0-3-5,0-1-3], [6:0-3-12,0-2-0], [7:0-3-0,0-2-3], [11:Edge,0-2-1], [14:0-3-12,0-3-0], [15:0-3-12,0-3-0]									
Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.67	Vert(LL)	-0.23	14-15	>999
TCDL	10.0	Lumber DOL	1.15	BC	0.90	Vert(CT)	-0.39	14-15	>999
BCLL	0.0*	Rep Stress Incr	YES	WB	0.42	Horz(CT)	0.11	11	n/a
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S					n/a
						PLATES		GRIP	
						MT20		244/190	
						Weight: 179 lb FT = 20%			

LUMBER
TOP CHORD 2x4 SP No.2 *Except* 6-7:2x4 SP 2400F 2.0E
BOT CHORD 2x4 SP No.2
WEBS 2x3 SPF No.2
SLIDER Left 2x4 SP No.2 -- 4-6-11, Right 2x4 SP No.2 -- 4-6-11

BRACING
TOP CHORD Structural wood sheathing directly applied or 3-4-0 oc purlins, except 2-0-0 oc purlins (5-1-3 max.): 6-7.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 4-15, 7-15, 9-14

REACTIONS (size) 2=0-5-8, 11=0-5-8
Max Horiz 2=277 (LC 11)
Max Uplift 2=225 (LC 12), 11=225 (LC 13)
Max Grav 2=1786 (LC 2), 11=1792 (LC 2)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/16, 2-4=-2527/360, 4-6=-1998/398, 6-7=-1576/390, 7-9=-2010/399, 9-11=-2537/360, 11-12=0/16
BOT CHORD 2-16=-275/2101, 13-16=-275/2101, 11-13=-175/1996
WEBS 4-16=0/321, 4-15=-681/283, 6-15=-49/679, 7-15=-182/184, 7-14=-96/751, 9-14=-680/283, 9-13=0/319

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

- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-10-8 to 4-1-8, Interior (1) 4-1-8 to 14-0-0, Exterior(2R) 14-0-0 to 19-0-0, Interior (1) 19-0-0 to 22-0-0, Exterior(2R) 22-0-0 to 27-0-0, Interior (1) 27-0-0 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
- 3) Provide adequate drainage to prevent water ponding.
- 4) 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.
- 6) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 225 lb uplift at joint 2 and 225 lb uplift at joint 11.
- 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.
- 9) 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

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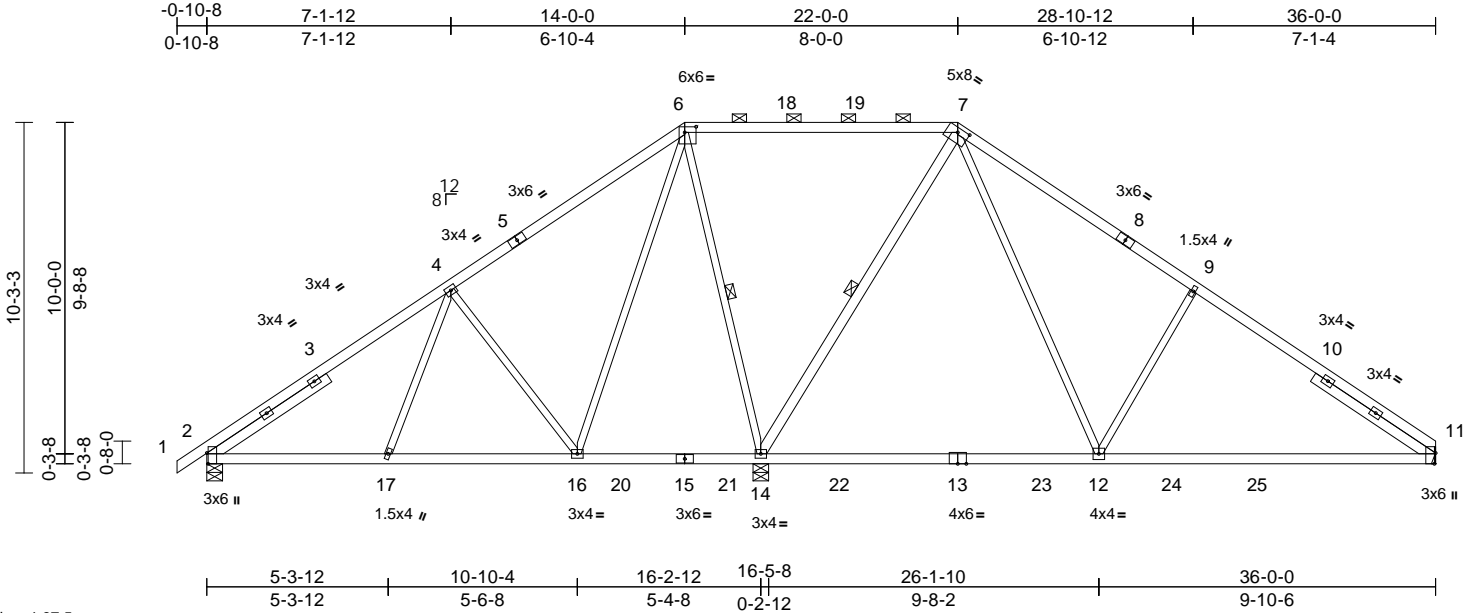
Job	Truss	Truss Type	Qty	Ply	Roof - HR Lot 202	RELEASE FOR CONSTRUCTION
P240906-01	A3	Piggyback Base	8	1	Job Reference (optional)	AS NOTED FOR PLAN REVIEW
						DEVELOPMENT SERVICES
						166720480
						LEE'S SUMMIT, MISSOURI

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

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09/24/2024



Scale = 1:67.5									
Plate Offsets (X, Y): [2:0-3-13,Edge], [6:0-4-0,0-2-0], [7:0-4-0,0-1-9], [11:0-3-13,Edge]									
Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.76	Vert(LL)	-0.29	12-14	>809
TCDL	10.0	Lumber DOL	1.15	BC	0.76	Vert(CT)	-0.43	12-14	>549
BCLL	0.0*	Rep Stress Incr	YES	WB	0.85	Horz(CT)	0.02	11	n/a
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S					n/a
						PLATES		GRIP	
						MT20		244/190	
						Weight: 184 lb FT = 20%			

LUMBER	
TOP CHORD	2x4 SP No.2 *Except* 6-7:2x4 SP 1650F 1.5E
BOT CHORD	2x4 SP 1650F 1.5E *Except* 15-13:2x4 SP No.2
WEBS	2x3 SPF No.2 *Except* 14-7:2x4 SP No.2
SLIDER	Left 2x4 SP No.2 -- 4-2-10, Right 2x4 SP No.2 -- 4-2-12
BRACING	
TOP CHORD	Structural wood sheathing directly applied or 5-0-2 oc purlins, except 2-0-0 oc purlins (10-0-0 max.): 6-7.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 14-16.
WEBS	1 Row at midpt 7-14, 6-14
REACTIONS	
(size)	2=0-5-8, 11= Mechanical, 14=0-5-8
Max Horiz	2=275 (LC 9)
Max Uplift	2=-171 (LC 12), 11=-191 (LC 13), 14=-98 (LC 12)
Max Grav	2=730 (LC 25), 11=905 (LC 20), 14=2054 (LC 2)
FORCES	
(lb) - Maximum Compression/Maximum Tension	
TOP CHORD	1-2=0/16, 2-4=-855/190, 4-6=-423/270, 6-7=-7/324, 7-9=-876/363, 9-11=-1048/291
BOT CHORD	2-17=-212/698, 16-17=-232/612, 14-16=-204/196, 12-14=-56/290, 11-12=-115/773
WEBS	7-14=-960/150, 7-12=-179/965, 9-12=-483/336, 6-14=-938/199, 6-16=-196/687, 4-16=-620/305, 4-17=0/264

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

- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-10-8 to 4-1-8, Interior (1) 4-1-8 to 14-0-0, Exterior(2R) 14-0-0 to 19-0-0, Interior (1) 19-0-0 to 22-0-0, Exterior(2R) 22-0-0 to 27-0-0, Interior (1) 27-0-0 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
- 3) Provide adequate drainage to prevent water ponding.
- 4) 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.
- 6) Bearings are assumed to be: Joint 2 SP 1650F 1.5E crushing capacity of 565 psi, Joint 14 SP No.2 crushing capacity of 565 psi.
- 7) Refer to girder(s) for truss to truss connections.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 171 lb uplift at joint 2, 98 lb uplift at joint 14 and 191 lb uplift at joint 11.
- 9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard



July 8,2024

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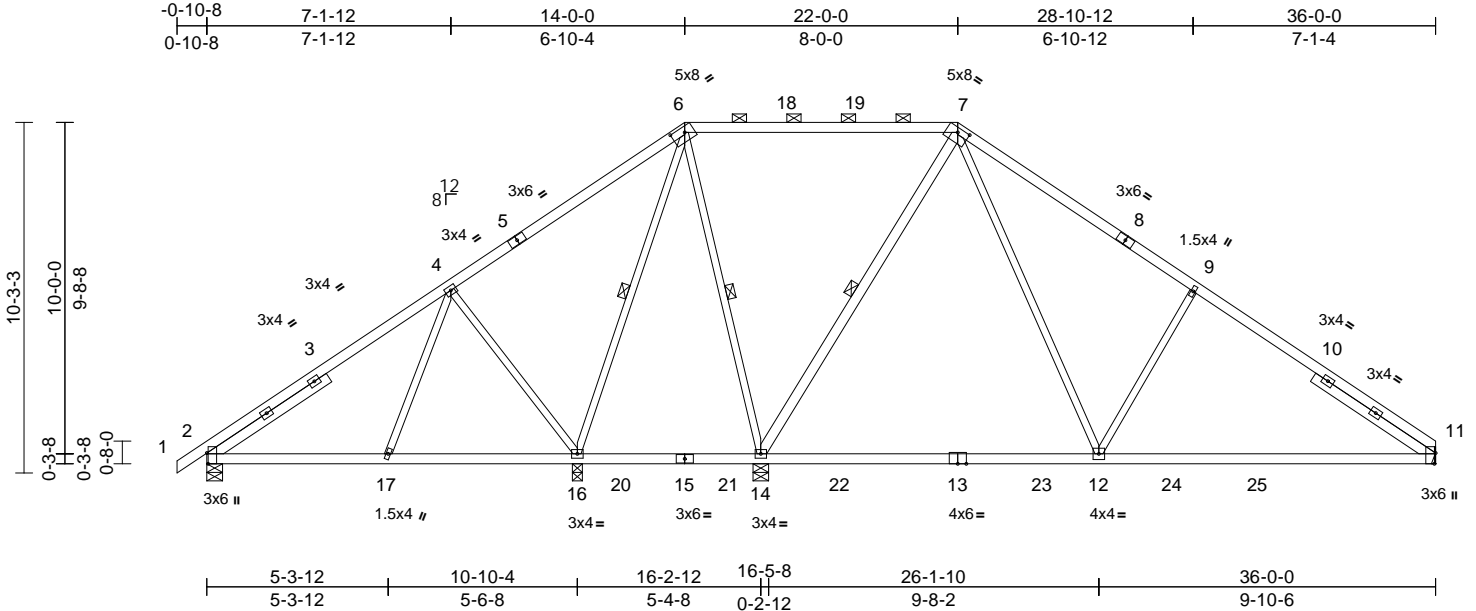
Job	Truss	Truss Type	Qty	Ply	Roof - HR Lot 202	RELEASE FOR CONSTRUCTION
P240906-01	A2	Piggyback Base	2	1	Job Reference (optional)	AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 166720481 LEE'S SUMMIT, MISSOURI

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

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09/24/2024



Scale = 1:67.5									
Plate Offsets (X, Y): [2:0-3-13,Edge], [6:0-4-12,0-2-0], [7:0-4-0,0-1-9], [11:0-3-13,Edge]									
Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in (loc)	l/defl	L/d
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.76	Vert(LL)	-0.30 12-14	>803	240
TCDL	10.0	Lumber DOL	1.15	BC	0.77	Vert(CT)	-0.44 12-14	>541	180
BCLL	0.0*	Rep Stress Incr	YES	WB	0.62	Horz(CT)	0.02 11	n/a	n/a
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S					
						PLATES		GRIP	
						MT20		244/190	
						Weight: 184 lb FT = 20%			

LUMBER	
TOP CHORD	2x4 SP No.2 *Except* 6-7:2x4 SP 1650F 1.5E
BOT CHORD	2x4 SP 1650F 1.5E *Except* 15-13:2x4 SP No.2
WEBS	2x3 SPF No.2 *Except* 14-7:2x4 SP No.2
SLIDER	Left 2x4 SP No.2 -- 4-2-10, Right 2x4 SP No.2 -- 4-2-12
BRACING	
TOP CHORD	Structural wood sheathing directly applied or 4-11-0 oc purlins, except 2-0-0 oc purlins (10-0-0 max.): 6-7.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 14-16.
WEBS	1 Row at midpt 7-14, 6-16, 6-14
REACTIONS (size)	
	2=0-5-8, 11= Mechanical, 14=0-5-8, 16=0-3-8
	Max Horiz 2=275 (LC 9)
	Max Uplift 2=-127 (LC 12), 11=-192 (LC 13), 14=-20 (LC 13), 16=-173 (LC 12)
	Max Grav 2=557 (LC 25), 11=941 (LC 20), 14=1498 (LC 2), 16=765 (LC 19)
FORCES (lb) - Maximum Compression/Maximum Tension	
TOP CHORD	1-2=0/16, 2-4=-562/149, 4-6=-129/328, 6-7=-58/245, 7-9=-938/363, 9-11=-1109/292
BOT CHORD	2-17=-184/430, 16-17=-207/343, 14-16=-211/196, 12-14=-62/346, 11-12=-115/823
WEBS	7-14=-919/145, 6-16=-182/37, 6-14=-405/105, 4-16=-634/308, 4-17=0/265, 7-12=-179/963, 9-12=-480/336

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

- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-10-8 to 4-1-8, Interior (1) 4-1-8 to 14-0-0, Exterior(2R) 14-0-0 to 19-0-0, Interior (1) 19-0-0 to 22-0-0, Exterior(2R) 22-0-0 to 27-0-0, Interior (1) 27-0-0 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
- 3) Provide adequate drainage to prevent water ponding.
- 4) 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.
- 6) Bearings are assumed to be: Joint 2 SP 1650F 1.5E crushing capacity of 565 psi, Joint 16 SP 1650F 1.5E crushing capacity of 565 psi, Joint 14 SP No.2 crushing capacity of 565 psi.
- 7) Refer to girder(s) for truss to truss connections.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 127 lb uplift at joint 2, 20 lb uplift at joint 14, 192 lb uplift at joint 11 and 173 lb uplift at joint 16.
- 9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard



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 the 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, 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.sbcsccomponents.com)

MiTek®

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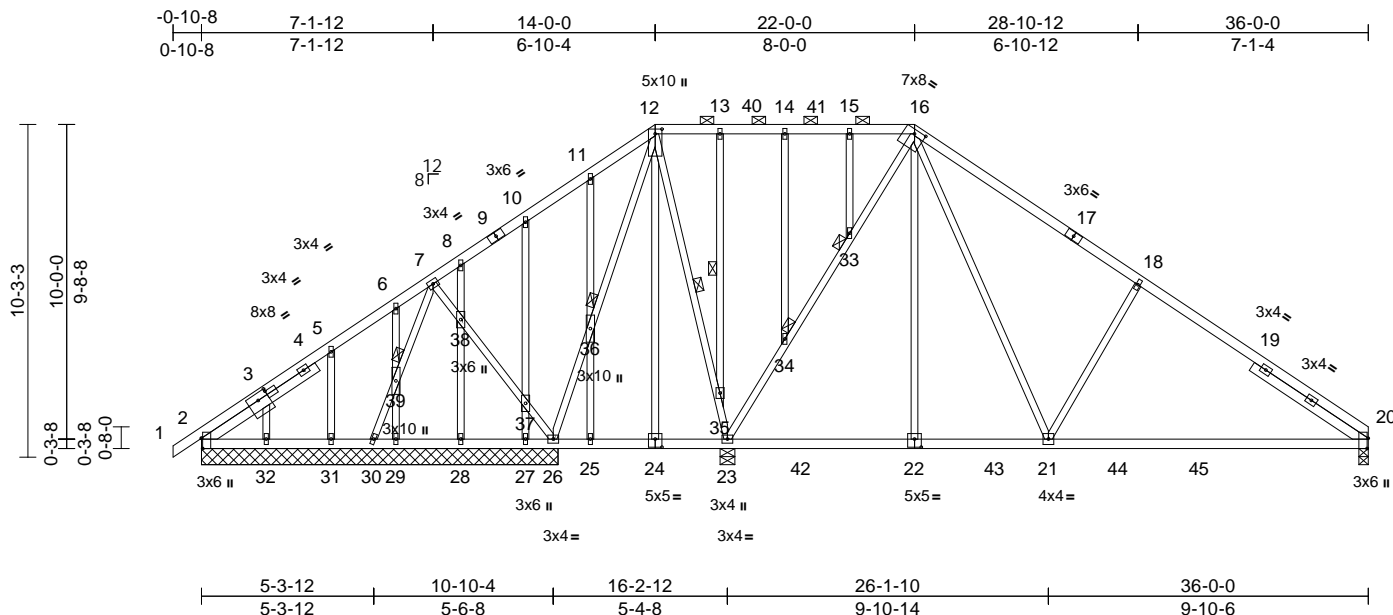
Job	Truss	Truss Type	Qty	Ply	Roof - HR Lot 202
P240906-01	A1	Piggyback Base Structural Gable	1	1	Job Reference (optional)

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

Run: 8.95 S 8.63 Jun 17 2024 Print: 8.630 S Jun 17 2024 MiTek Industries, Inc. Mon Jul 1 10:14:35 Page: 1

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09/24/2024



Scale = 1:71.1

Plate Offsets (X, Y): [2:0-3-13,Edge], [2:2-5-3,0-1-8], [3:0-4-0,0-2-8], [12:0-1-12,0-2-8], [16:0-4-0,0-1-9], [20:0-3-13,Edge], [22:0-2-8,0-3-0], [24:0-2-8,0-3-0]

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	0.72	Vert(LL)	-0.33	20-21	>710	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.99	Vert(CT)	-0.60	20-21	>397	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.57	Horz(CT)	0.02	20	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 229 lb	FT = 20%

LUMBER

TOP CHORD	2x4 SP No.2
BOT CHORD	2x4 SP No.2
WEBS	2x3 SPF No.2
OTHERS	2x3 SPF No.2
SLIDER	Left 2x4 SP No.2 -- 4-2-10, Right 2x4 SP No.2 -- 4-2-12

BRACING

TOP CHORD	Structural wood sheathing directly applied or 4-10-0 oc purlins, except 2-0-0 oc purlins (10-0-0 max.): 12-16. Rigid ceiling directly applied or 6-0-0 oc bracing. Except: 10-0-0 oc bracing: 22-23,21-22 2-2-0 oc bracing: 20-21.
BOT CHORD	
WEBS	1 Row at midpt 12-23, 13-35
JOINTS	1 Brace at Jt(s): 33, 34, 36, 39

REACTIONS

(size)	2=11-0-0, 20=0-3-8, 23=0-5-8, 26=11-0-0, 27=11-0-0, 28=11-0-0, 29=11-0-0, 30=11-0-0, 31=11-0-0, 32=11-0-0
Max Horiz	2=276 (LC 9)
Max Uplift	2=-75 (LC 8), 20=-173 (LC 13), 23=-94 (LC 8), 26=-112 (LC 12), 27=-58 (LC 12), 28=-44 (LC 12), 29=-50 (LC 12), 30=-31 (LC 28), 31=-96 (LC 12), 32=-91 (LC 12)
Max Grav	2=156 (LC 20), 20=956 (LC 20), 23=1493 (LC 2), 26=370 (LC 19), 27=122 (LC 19), 28=177 (LC 19), 29=159 (LC 19), 30=44 (LC 12), 31=228 (LC 19), 32=232 (LC 19)

FORCES

(lb) - Maximum Compression/Maximum Tension

TOP CHORD	1-2=0/16, 2-3=-222/232, 3-5=-158/211, 5-6=-109/182, 6-7=-86/158, 7-8=-77/223, 8-10=-52/241, 10-11=-38/229, 11-12=-56/272, 12-13=-28/243, 13-14=-28/243, 14-15=-28/243, 15-16=-28/243, 16-18=-943/336, 18-20=-1114/264
BOT CHORD	2-32=-145/180, 31-32=-145/183, 30-31=-145/183, 29-30=-157/194, 28-29=-157/194, 27-28=-157/194, 26-27=-157/194, 25-26=-193/237, 23-25=-193/237, 21-23=0/361, 20-21=-92/829
WEBS	23-34=-970/150, 33-34=-928/138, 16-33=-959/148, 26-36=-48/27, 12-36=-45/29, 12-35=-220/26, 23-35=-499/182, 16-21=-205/858, 18-21=-488/335, 7-38=-95/75, 37-38=-87/69, 26-37=-95/75, 30-39=-43/55, 7-39=-46/58, 16-22=0/192, 15-33=-12/37, 14-34=-59/20, 13-35=-317/160, 12-24=-20/48, 11-36=-104/90, 25-36=-95/87, 10-37=-195/120, 27-37=-186/113, 8-38=-84/59, 28-38=-91/66, 6-39=-112/74, 29-39=-108/70, 5-31=-168/118, 3-32=-155/116

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 14-0-0, Exterior(2R) 14-0-0 to 19-0-0, Interior (1) 19-0-0 to 22-0-0, Exterior(2R) 22-0-0 to 27-0-0, Interior (1) 27-0-0 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
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Provide adequate drainage to prevent water ponding.
- All plates are 1.5x4 MT20 unless otherwise indicated.
- Gable 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.



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.

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Job	Truss	Truss Type	Qty	Ply	Roof - HR Lot 202
P240906-01	A1	Piggyback Base Structural Gable	1	1	Job Reference (optional)

RELEASE FOR CONSTRUCTION

AS NOTED FOR PLAN REVIEW
DEVELOPMENT SERVICES
166720482
LEE'S SUMMIT, MISSOURI

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

Run: 8.95 S 8.63 Jun 17 2024 Print: 8.630 S Jun 17 2024 MiTek Industries, Inc. Mon Jul 15 11:43:59 Page: 2
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- 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, with BCDL = 10.0psf.
- 9) 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 75 lb uplift at joint 2, 94 lb uplift at joint 23, 173 lb uplift at joint 20, 112 lb uplift at joint 26, 31 lb uplift at joint 30, 58 lb uplift at joint 27, 44 lb uplift at joint 28, 50 lb uplift at joint 29, 96 lb uplift at joint 31 and 91 lb uplift at joint 32.
- 11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

09/24/2024

 **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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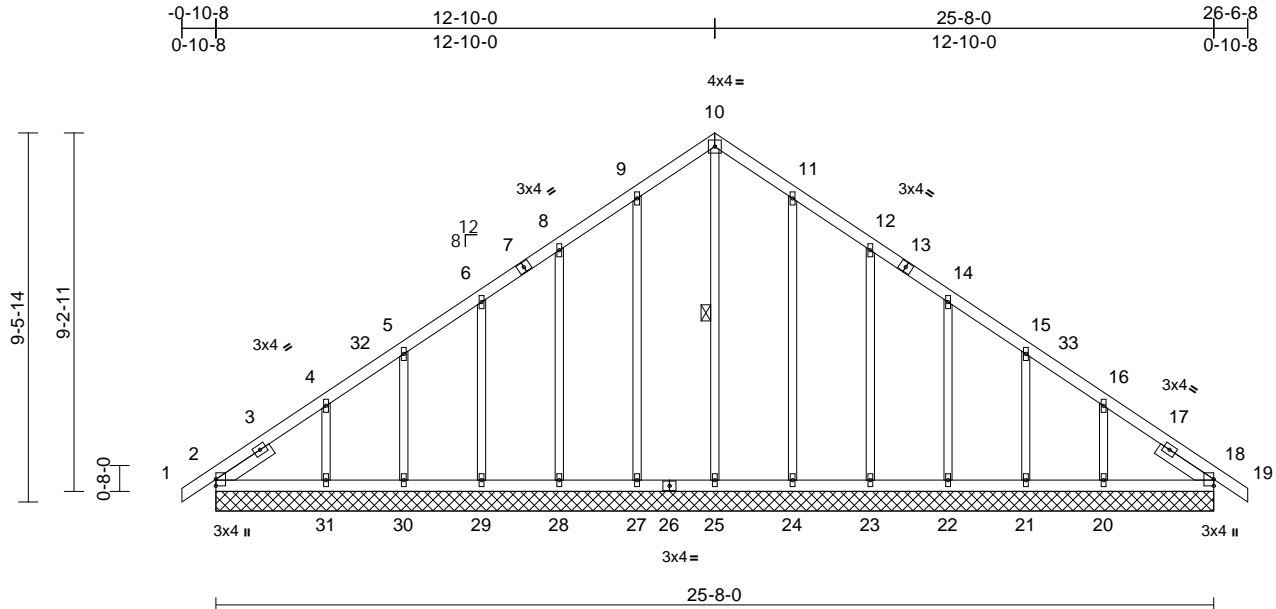
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Job	Truss	Truss Type	Qty	Ply	Roof - HR Lot 202
P240906-01	B1	Common Supported Gable	1	1	Job Reference (optional)

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

Run: 8.95 S 8.63 Jun 17 2024 Print: 8.630 S Jun 17 2024 MiTek Industries, Inc. Mon Jul 15 2024 14:01:44:01 Page: 1
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Scale = 1:59.3

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	0.11	Vent(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.06	Vent(CT)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.22	Horz(CT)	0.01	18	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 138 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
OTHERS 2x3 SPF No.2
SLIDER Left 2x4 SP No.2 -- 1-7-13, Right 2x4 SP
No.2 -- 1-7-13

BRACING

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

WEBS	1 Row at midpt	10-25
------	----------------	-------

REACTIONS (size)

(size)	2=25-8-0, 18=25-8-0, 20=25-8-0, 21=25-8-0, 22=25-8-0, 23=25-8-0, 24=25-8-0, 25=25-8-0, 27=25-8-0, 28=25-8-0, 29=25-8-0, 30=25-8-0, 31=25-8-0
Max Horiz	2=255 (LC 11)
Max Uplift	2=-60 (LC 8), 18=-4 (LC 9), 20=-137 (LC 13), 21=-62 (LC 13), 22=-81 (LC 13), 23=-83 (LC 13), 24=-69 (LC 13), 27=-72 (LC 12), 28=-82 (LC 12), 29=-81 (LC 12), 30=-59 (LC 12), 31=-146 (LC 12)
Max Grav	2=239 (LC 20), 18=211 (LC 1), 20=264 (LC 20), 21=167 (LC 20), 22=194 (LC 20), 23=189 (LC 20), 24=193 (LC 20), 25=215 (LC 13), 27=197 (LC 19), 28=187 (LC 19), 29=195 (LC 19), 30=164 (LC 19), 31=274 (LC 19)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/16, 2-4=-231/188, 4-5=-178/133,
5-6=-163/131, 6-8=-148/159, 8-9=-134/201,
9-10=-169/250, 10-11=-169/250,
11-12=-134/191, 12-14=-94/121,
14-15=-100/63, 15-16=-117/51,
16-18=-184/99, 18-19=0/16

BOT CHORD

2-31=85/187, 30-31=85/187,
29-30=85/187, 28-29=85/187,
27-28=85/187, 25-27=85/187,
24-25=85/187, 23-24=85/187,
22-23=85/187, 21-22=85/187,
20-21=85/187, 18-20=85/187
10-25=201/84, 9-27=157/96,
8-28=148/106, 6-29=153/105,
5-30=132/84, 4-31=210/168,
11-24=153/93, 12-23=149/107,
14-22=152/104, 15-21=135/87,
16-20=201/160

WEBS

NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust)
Vasd=91mph; TCDF=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 12-10-0, Corner(3R) 12-10-0 to 17-10-0, Exterior(2N) 17-10-0 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
- 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.
- 4) All plates are 1.5x4 MT20 unless otherwise indicated.
- 5) Gable requires continuous bottom chord bearing.
- 6) Gable studs spaced at 2-0-0 oc.
- 7) 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.
- 9) 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 60 lb uplift at joint 2, 4 lb uplift at joint 18, 72 lb uplift at joint 27, 82 lb uplift at joint 28, 81 lb uplift at joint 29, 59 lb uplift at joint 30, 146 lb uplift at joint 31, 69 lb uplift at joint 24, 83 lb uplift at joint 23, 81 lb uplift at joint 22, 62 lb uplift at joint 21 and 137 lb uplift at joint 20.
- 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



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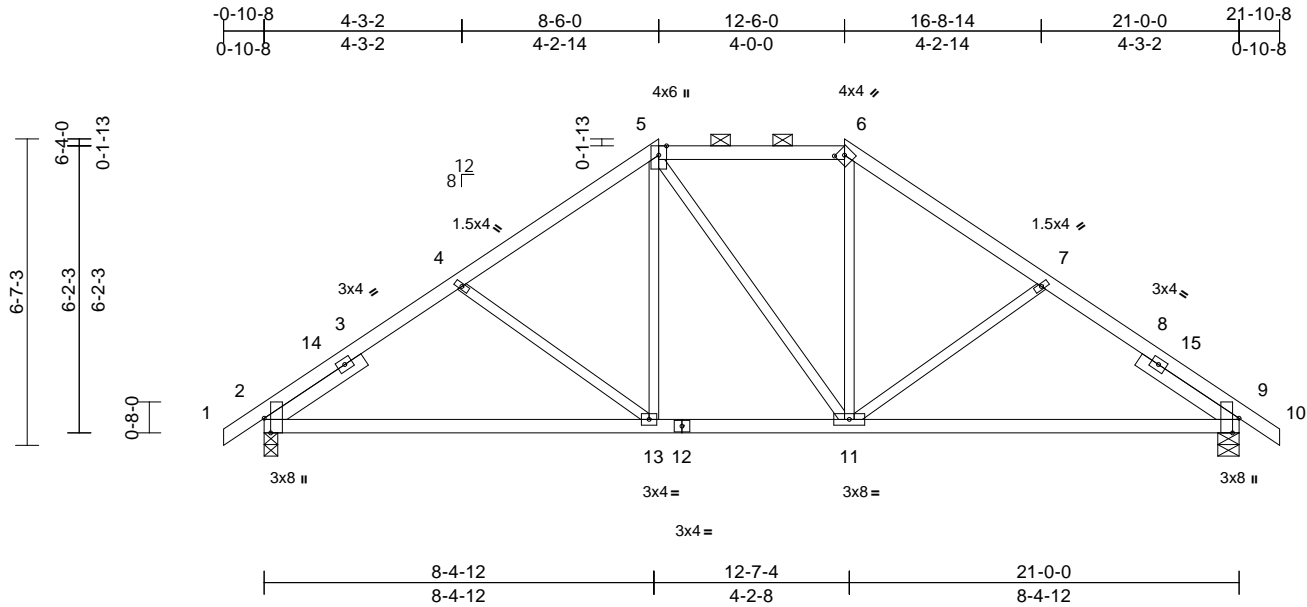
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Job	Truss	Truss Type	Qty	Ply	Roof - HR Lot 202
P240906-01	C3	Hip	1	1	Job Reference (optional)

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

Run: 8.95 S 8.63 Jun 17 2024 Print: 8.630 S Jun 17 2024 MiTek Industries, Inc. Mon Jul 01 2024 14:02 Page: 1
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Scale = 1:49.6

Plate Offsets (X, Y): [2:0-3-13,Edge], [6:0-2-0,0-1-11], [9:0-3-13,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	0.29	Vent(LL)	-0.14	2-13	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.65	Vent(CT)	-0.29	2-13	>875	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.17	Horz(CT)	0.03	9	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 102 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 -- 2-6-3, Right 2x4 SP No.2
-- 2-6-3

BRACING

TOP CHORD	Structural wood sheathing directly applied or 5-2-6 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 5-6.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS

(size) 2=0-3-8, 9=0-5-8
 Max Horiz 2=173 (LC 11)
 Max Uplift 2=-143 (LC 12), 9=-143 (LC 13)
 Max Grav 2=1006 (LC 1), 9=1006 (LC 1)

FORCES

Tension

TOP CHORD 1-2=0/16, 2-4=-1300/252, 4-5=-1073/220,
5-6=-824/207, 6-7=-1074/214,
7-9=-1300/229, 9-10=0/16

BOT CHORD 2-13=-188/996, 11-13=-44/824,
9-11=-115/996

WEBS 5-13=-41/289, 5-11=-110/112, 6-11=-24/289,
4-13=-252/200, 7-11=-252/201

NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust)
Vasd=91mph; TCdL=6.0psf; BCdL=6.0psf; h=35ft;
Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope)
interior zone and C-C Exterior(2E) -0-10-8 to 4-1-9,
Interior (1) 4-1-9 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

- 3) Provide adequate drainage to prevent water ponding.
- 4) 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.
- 6) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 143 lb uplift at joint 2 and 143 lb uplift at joint 9.
- 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.
- 9) 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 MITER KNOT REFERENCE ASSEMBLY DRAWINGS 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)

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16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-UIS.com

Job	Truss	Truss Type	Qty	Ply	Roof - HR Lot 202	Job Reference (optional)
P240906-01	C2	Hip	1	1		

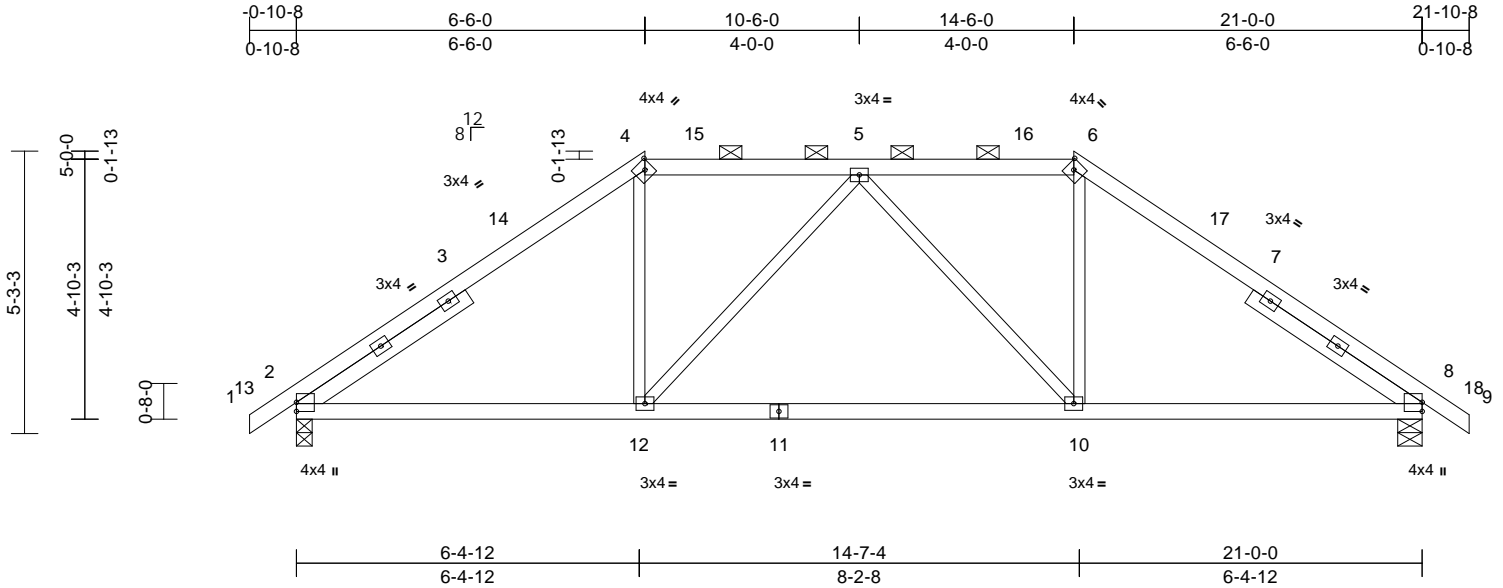
Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083,

Run: 8.95 S 8.63 Jun 17 2024 Print: 8.630 S Jun 17 2024 MiTek Industries, Inc. Mon Jul 1 10:11:44.00 Page: 1

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RELEASE FOR CONSTRUCTION
AS NOTED FOR PLAN REVIEW
DEVELOPMENT SERVICES
166720485
LEE'S SUMMIT, MISSOURI

09/24/2024



Scale = 1:43
Plate Offsets (X, Y): [4:0-1-11,0-2-0], [6:0-1-11,0-2-0]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.53	Vert(LL)	-0.09	10-12	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.57	Vert(CT)	-0.19	10-12	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.28	Horz(CT)	0.03	8	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
WEBS 2x3 SPF No.2
SLIDER Left 2x4 SP No.2 -- 3-9-9, Right 2x4 SP No.2 -- 3-9-9

BRACING
TOP CHORD Structural wood sheathing directly applied or 4-5-7 oc purlins, except 2-0-0 oc purlins (5-10-9 max.): 4-6.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (size) 2=0-3-8, 8=0-5-8
Max Horiz 2=136 (LC 11)
Max Uplift 2=125 (LC 12), 8=125 (LC 13)
Max Grav 2=1006 (LC 1), 8=1006 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/16, 2-4=-1307/204, 4-5=-950/239, 5-6=-950/239, 6-8=-1307/204, 8-9=0/16
BOT CHORD 2-12=-119/955, 10-12=-143/1088, 8-10=-48/955
WEBS 4-12=-24/378, 6-10=-24/378, 5-12=-304/171, 5-10=-304/171

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C 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

- 3) Provide adequate drainage to prevent water ponding.
- 4) All plates are 3x4 MT20 unless otherwise indicated.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * 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.
- 7) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 125 lb uplift at joint 2 and 125 lb uplift at joint 8.
- 9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard



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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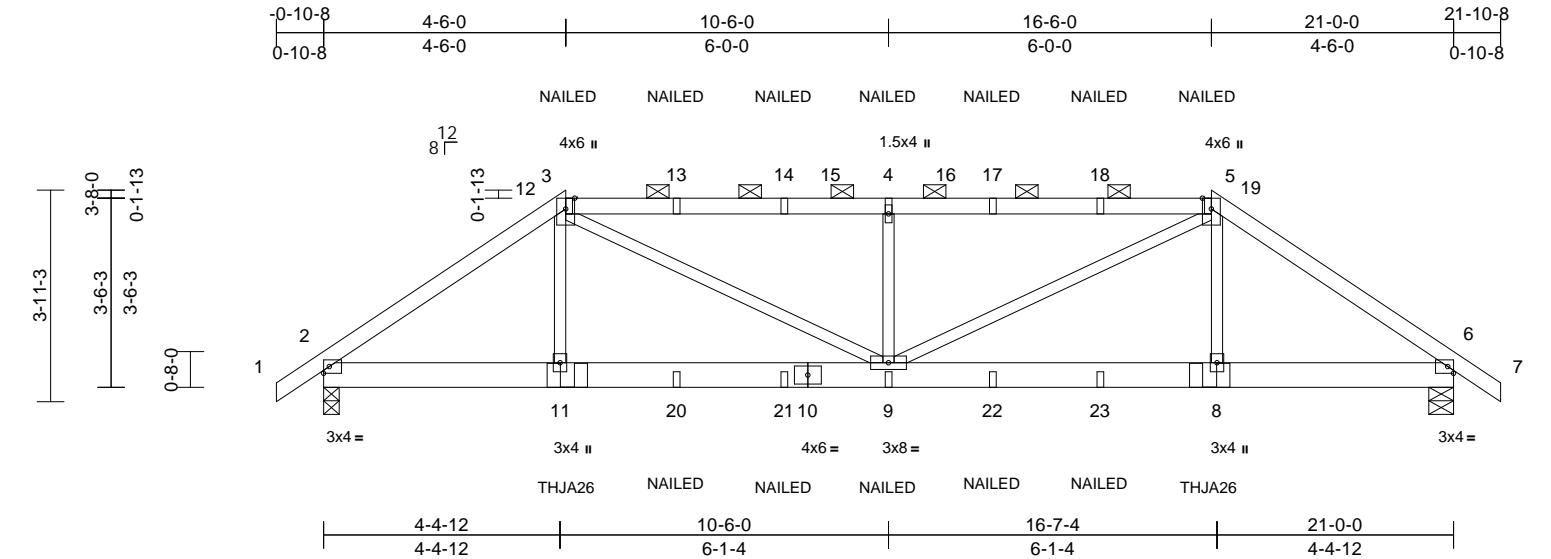
Job	Truss	Truss Type	Qty	Ply	Roof - HR Lot 202	RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 166720486 LEE'S SUMMIT, MISSOURI
P240906-01	C1	Hip Girder	1	2	Job Reference (optional)	

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

Run: 8.95 S 8.63 Jun 17 2024 Print: 8.630 S Jun 17 2024 MiTek Industries, Inc. Mon Jul 1 10:11:44.00 Page: 1

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09/24/2024



Scale = 1:42.8

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	0.49	Vert(LL)	0.06	9	>999	240	MT20
TCDL	10.0	Lumber DOL	1.15	BC	0.32	Vert(CT)	-0.09	9	>999	180	197/144
BCLL	0.0*	Rep Stress Incr	NO	WB	0.19	Horz(CT)	0.02	6	n/a	n/a	
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							
Weight: 186 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 (6-0-0 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=98 (LC 11)
Max Uplift	2=-536 (LC 12), 6=-539 (LC 13)
Max Grav	2=1597 (LC 1), 6=1603 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension	
TOP CHORD	1-2=0/21, 2-3=-2388/860, 3-4=-2748/1093, 4-5=-2748/1093, 5-6=-2363/859, 6-7=0/22
BOT CHORD	2-11=-712/1855, 9-11=-711/1841, 8-9=-633/1810, 6-8=-633/1823
WEBS	3-11=-41/456, 3-9=-478/1072, 4-9=-810/558, 5-9=-488/1104, 5-8=-39/449

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

- Wind: ASCE 7-16; Vult=115mph (3-second gust)
Vasd=91mph; TC DL=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; 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 536 lb uplift at
joint 2 and 539 lb uplift at joint 6.
- This truss is designed in accordance with the 2018
International Residential Code sections R502.11.1 and
R802.10.2 and referenced standard ANSI/TPI 1.
- Graphical purlin representation does not depict the size
or the orientation of the purlin along the top and/or
bottom chord.
- 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.
- Fill all nail holes where hanger is in contact with lumber.
- "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=-254 (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.

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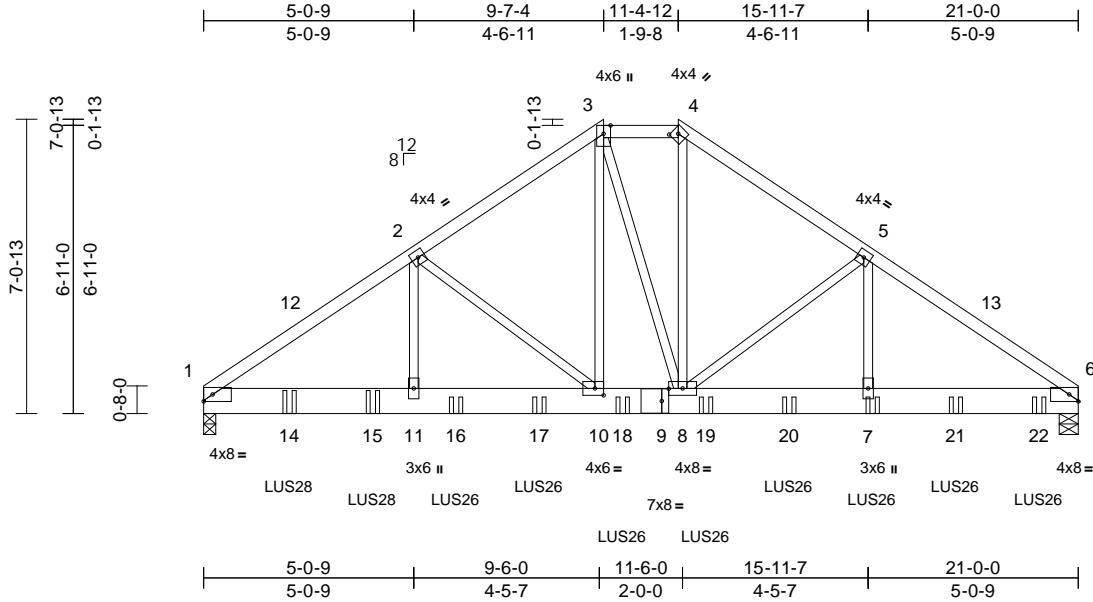
Job	Truss	Truss Type	Qty	Ply	Roof - HR Lot 202
P240906-01	C4	Hip Girder	1	3	Job Reference (optional)

RELEASE FOR CONSTRUCTION
AS NOTED FOR PLAN REVIEW
DEVELOPMENT SERVICES
166720487
LEE'S SUMMIT, MISSOURI

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

Run: 8.95 S 8.63 Jun 17 2024 Print: 8.630 S Jun 17 2024 MiTek Industries, Inc. Mon Jul 1 10:11:44:02 Page: 1
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09/24/2024



Scale = 1:55.3

Plate Offsets (X, Y): [4:0-2-0,0-1-11], [9:0-2-0,0-3-8], [10:0-2-8,0-2-0]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.32	Vert(LL)	-0.06	10-11	>999	240	MT20
TCDL	10.0	Lumber DOL	1.15	BC	0.52	Vert(CT)	-0.11	10-11	>999	180	197/144
BCLL	0.0*	Rep Stress Incr	NO	WB	0.29	Horz(CT)	0.03	6	n/a	n/a	
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							
Weight: 348 lb FT = 20%											

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 6'-0" oc purlins, except 2'-0" oc purlins (6'-0" max.): 3-4.
BOT CHORD Rigid ceiling directly applied or 10'-0" oc bracing.

REACTIONS

(size) 1=0-3-8, 6=0-5-8
Max Horiz 1=182 (LC 11)
Max Uplift 1=-1085 (LC 12), 6=-1199 (LC 13)
Max Grav 1=5086 (LC 19), 6=5566 (LC 20)

FORCES

(lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=-7337/1593, 2-3=-5238/1212, 3-4=-4384/1061, 4-5=-5353/1247, 5-6=-7253/1575

BOT CHORD 1-11=-1312/6014, 10-11=-1312/6014, 8-10=-859/4347, 7-8=-1202/5774, 6-7=-1202/5774

WEBS 3-10=-548/2399, 3-8=-154/413, 4-8=-622/2732, 2-10=-2082/568, 5-8=-1822/519, 2-11=-458/2385, 5-7=-427/2172

NOTES

- 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 oc.
Bottom chords connected as follows: 2x8 - 3 rows staggered at 0-6-0 oc.
Web connected as follows: 2x3 - 1 row at 0-9-0 oc.

- All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) 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 5-0-9, Interior (1) 5-0-9 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 1085 lb uplift at joint 1 and 1199 lb uplift at joint 6.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- Use Simpson Strong-Tie LUS28 (6-10d 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.

- Use Simpson Strong-Tie LUS26 (4-10d Girder, 4-10d Truss) 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.
 - Fill all nail holes where hanger is in contact with lumber.
- LOAD CASE(S) Standard**
- Dead + Roof Live (balanced): Lumber Increase=1.15, Wind 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=-798 (B), 14=-826 (B), 15=-826 (B), 16=-798 (B), 17=-798 (B), 18=-798 (B), 19=-798 (B), 20=-798 (B), 21=-798 (B), 22=-801 (B)



July 8, 2024

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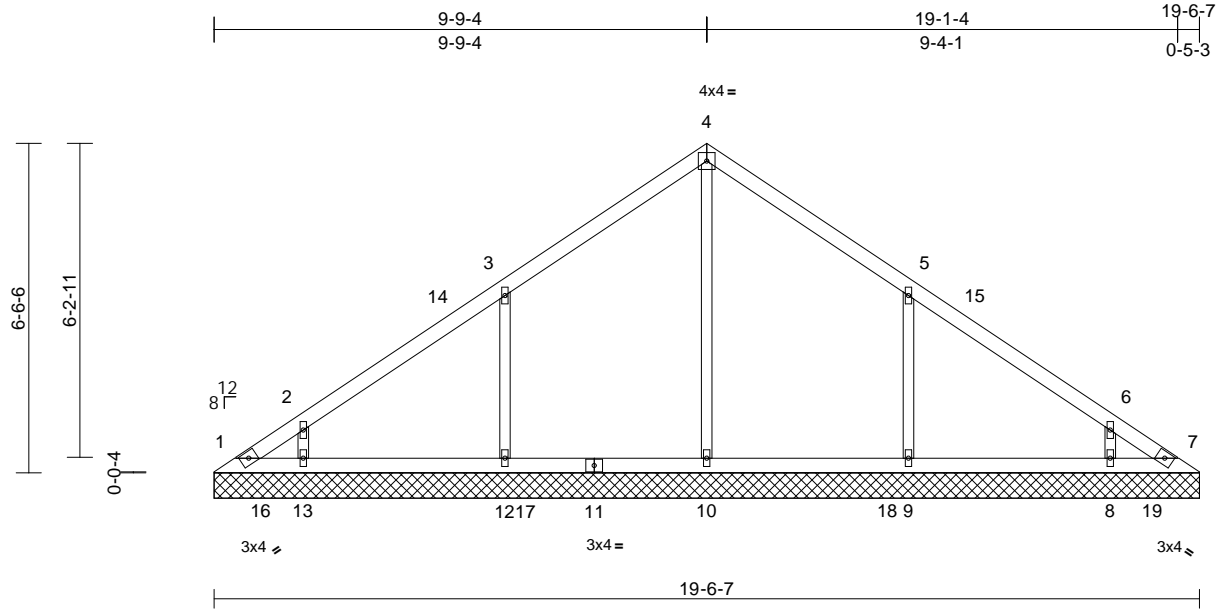
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	Roof - HR Lot 202	RELEASE FOR CONSTRUCTION
P240906-01	V1	Valley	1	1	Job Reference (optional)	AS NOTED FOR PLAN REVIEW
						DEVELOPMENT SERVICES
						166720488
						LEE'S SUMMIT, MISSOURI

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

Run: 8.95 S 8.63 Jun 17 2024 Print: 8.630 S Jun 17 2024 MiTek Industries, Inc. Mon Jul 15 11:44:02 Page: 1
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09/24/2024



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	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.17	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.18	Horiz(TL)	0.00	7	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 74 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
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=19-6-7, 7=19-6-7, 8=19-6-7,
9=19-6-7, 10=19-6-7, 12=19-6-7,
13=19-6-7
Max Horiz 1=-174 (LC 8)
Max Uplift 1=-72 (LC 10), 7=-40 (LC 11),
8=-125 (LC 13), 9=-176 (LC 13),
12=-176 (LC 12), 13=-124 (LC 12)
Max Grav 1=103 (LC 12), 7=81 (LC 13),
8=350 (LC 20), 9=498 (LC 20),
10=384 (LC 19), 12=498 (LC 19),
13=349 (LC 19)

FORCES

(lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-186/139, 2-3=-177/107, 3-4=-155/157,
4-5=-140/134, 5-6=-133/54, 6-7=-147/80
BOT CHORD 1-13=-53/119, 12-13=-53/119, 10-12=-53/119,
9-10=-53/119, 8-9=-53/119, 7-8=-53/119
WEBS 4-10=-190/0, 3-12=-330/226, 2-13=-242/168,
5-9=-330/225, 6-8=-243/169

NOTES

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

- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust)
Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft;
Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope)
exterior zone and C-C Exterior(2E) 0-5-12 to 5-5-12,
Interior (1) 5-5-12 to 9-9-10, Exterior(2R) 9-9-10 to
14-9-10, Interior (1) 14-9-10 to 19-1-7 zone; cantilever
left and right exposed; end vertical left and right
exposed; C-C for members and forces & MWFRS for
reactions shown; Lumber DOL=1.60 plate grip
DOL=1.60
- 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.
- 4) All plates are 1.5x4 MT20 unless otherwise indicated.
- 5) Gable requires continuous bottom chord bearing.
- 6) Gable studs spaced at 4-0-0 oc.
- 7) 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, with BCDL = 10.0psf.
- 9) 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 72 lb uplift at joint
1, 40 lb uplift at joint 7, 176 lb uplift at joint 12, 124 lb
uplift at joint 13, 176 lb uplift at joint 9 and 125 lb uplift at
joint 8.
- 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.

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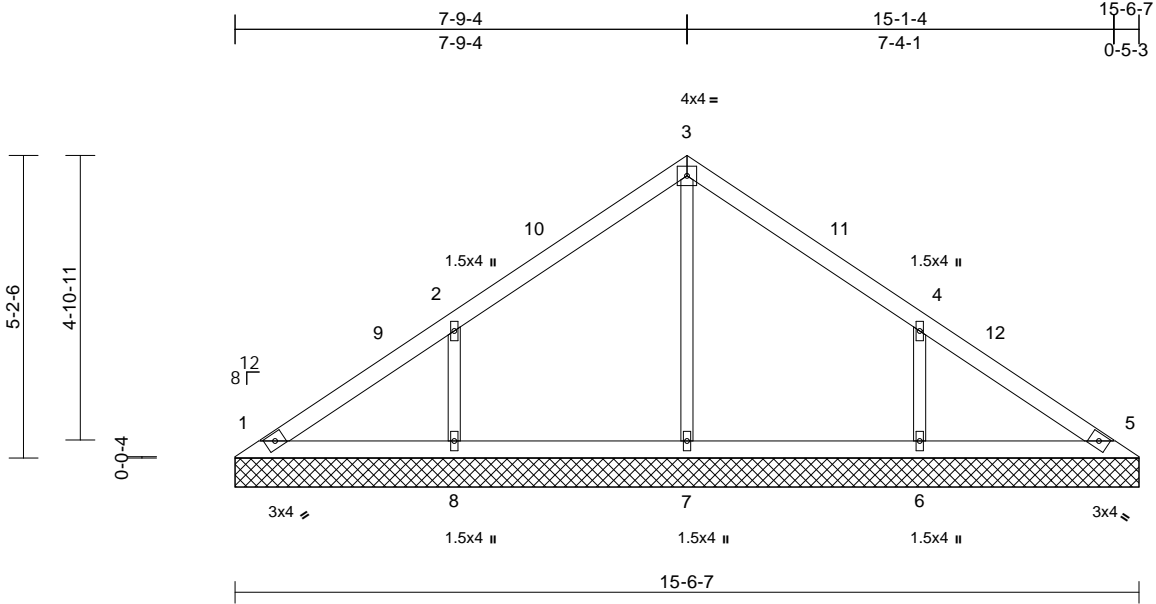
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	Roof - HR Lot 202	RELEASE FOR CONSTRUCTION
P240906-01	V2	Valley	1	1	Job Reference (optional)	AS NOTED FOR PLAN REVIEW
						DEVELOPMENT SERVICES
						166720489
						LEE'S SUMMIT, MISSOURI

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

Run: 8.95 S 8.63 Jun 17 2024 Print: 8.630 S Jun 17 2024 MiTek Industries, Inc. Mon Jul 1 10:11:44.00 Page: 1
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09/24/2024



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	0.23	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.11	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.11	Horiz(TL)	0.00	5	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 56 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=15-6-7, 5=15-6-7, 6=15-6-7, 7=15-6-7, 8=15-6-7
Max Horiz 1=-136 (LC 8)
Max Uplift 1=-17 (LC 13), 6=-175 (LC 13), 8=-175 (LC 12)
Max Grav 1=146 (LC 20), 5=139 (LC 1), 6=408 (LC 20), 7=270 (LC 1), 8=408 (LC 19)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-142/100, 2-3=-149/124, 3-4=-140/112, 4-5=-107/56
BOT CHORD 1-8=-38/88, 7-8=-38/88, 6-7=-38/88, 5-6=-38/88
WEBS 3-7=-193/5, 2-8=-321/218, 4-6=-321/218

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) 0-5-12 to 5-5-12, Interior (1) 5-5-12 to 7-9-10, Exterior(2R) 7-9-10 to 12-9-10, Interior (1) 12-9-10 to 15-1-7 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 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 17 lb uplift at joint 1, 175 lb uplift at joint 8 and 175 lb uplift at joint 6.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



July 8, 2024

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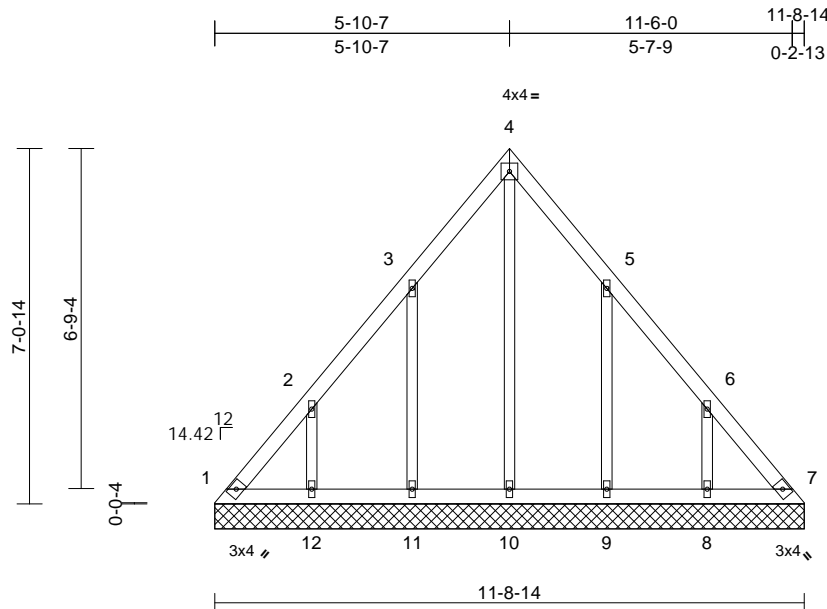
Job	Truss	Truss Type	Qty	Ply	Roof - HR Lot 202
P240906-01	HG1	Lay-In Gable	1	1	Job Reference (optional)

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

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09/24/2024



Scale = 1:45.9

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	0.08	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.04	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.12	Horiz(TL)	0.00	7	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S						Weight: 58 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=11-8-14, 7=11-8-14, 8=11-8-14, 9=11-8-14, 10=11-8-14, 11=11-8-14, 12=11-8-14
 Max Horiz 1=197 (LC 9)
 Max Uplift 1=82 (LC 10), 7=57 (LC 11), 8=168 (LC 13), 9=165 (LC 13), 11=167 (LC 12), 12=168 (LC 12)
 Max Grav 1=190 (LC 12), 7=174 (LC 13), 8=220 (LC 20), 9=225 (LC 20), 10=142 (LC 22), 11=226 (LC 19), 12=219 (LC 19)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=-264/171, 2-3=-150/105, 3-4=-135/124, 4-5=-135/119, 5-6=-125/71, 6-7=-243/171
 BOT CHORD 1-12=-129/187, 11-12=-130/188, 10-11=-130/188, 9-10=-130/188, 8-9=-130/188, 7-8=-129/187
 WEBS 2-12=-218/185, 3-11=-221/192, 4-10=-114/77, 5-9=-221/191, 6-8=-218/185

NOTES

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

- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-3-12 to 5-3-12, Interior (1) 5-3-12 to 5-10-10, Exterior(2R) 5-10-10 to 10-10-10, Interior (1) 10-10-10 to 11-5-9 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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.
- 4) All plates are 1.5x4 MT20 unless otherwise indicated.
- 5) Gable requires continuous bottom chord bearing.
- 6) Gable studs spaced at 0-0-0 oc.
- 7) 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.
- 9) 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 82 lb uplift at joint 1, 57 lb uplift at joint 7, 168 lb uplift at joint 12, 167 lb uplift at joint 11, 165 lb uplift at joint 9 and 168 lb uplift at joint 8.
- 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

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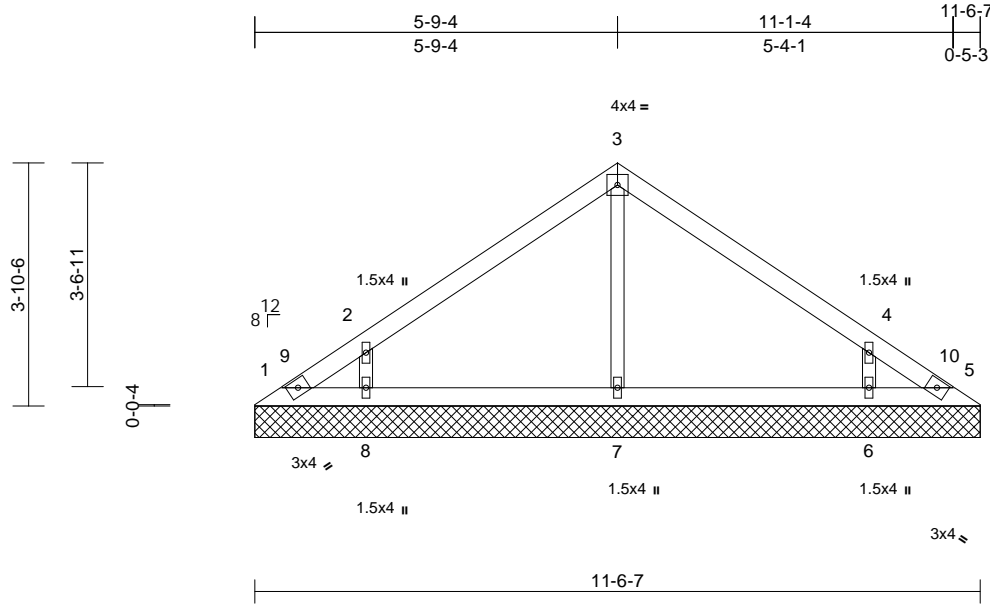
Job	Truss	Truss Type	Qty	Ply	Roof - HR Lot 202
P240906-01	V3	Valley	1	1	Job Reference (optional)

RELEASE FOR CONSTRUCTION
AS NOTED FOR PLAN REVIEW
DEVELOPMENT SERVICES
166720491
LEE'S SUMMIT, MISSOURI

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

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09/24/2024



Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.21	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.12	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.07	Horiz(TL)	0.00	5	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 40 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=11-6-7, 5=11-6-7, 6=11-6-7, 7=11-6-7, 8=11-6-7
Max Horiz	1=-99 (LC 8)
Max Uplift	1=-53 (LC 10), 5=-34 (LC 11), 6=-157 (LC 13), 8=-157 (LC 12)
Max Grav	1=66 (LC 12), 5=53 (LC 13), 6=351 (LC 20), 7=284 (LC 1), 8=351 (LC 19)

FORCES

(lb) - Maximum Compression/Maximum Tension	
TOP CHORD	1-2=-103/87, 2-3=-144/97, 3-4=-141/94, 4-5=-80/54
BOT CHORD	1-8=-23/69, 7-8=-23/69, 6-7=-23/69, 5-6=-23/69
WEBS	3-7=-198/44, 2-8=-293/223, 4-6=-292/223

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) 0-5-12 to 5-5-12, Interior (1) 5-5-12 to 5-9-10, Exterior(2R) 5-9-10 to 10-9-10, Interior (1) 10-9-10 to 11-1-7 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 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 53 lb uplift at joint 1, 34 lb uplift at joint 5, 157 lb uplift at joint 8 and 157 lb uplift at joint 6.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



July 8, 2024

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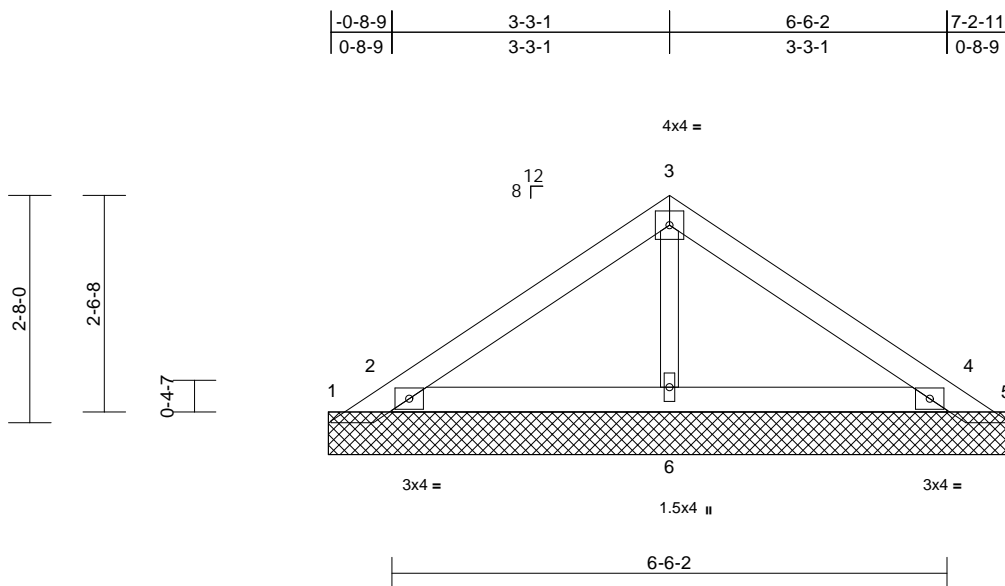
Job	Truss	Truss Type	Qty	Ply	Roof - HR Lot 202
P240906-01	PB01	Piggyback	30	1	Job Reference (optional)

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

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09/24/2024



Scale = 1:27

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
TCDL	10.0	Lumber DOL	1.15	BC	0.11	Vert(TL)	n/a	-	n/a	999	197/144
BCLL	0.0*	Rep Stress Incr	YES	WB	0.03	Horiz(TL)	0.00	4	n/a	n/a	
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 25 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=8-0-0, 2=8-0-0, 4=8-0-0, 5=8-0-0, 6=8-0-0
Max Horiz	1=-69 (LC 8)
Max Uplift	1=-195 (LC 19), 2=-213 (LC 12), 4=-196 (LC 13), 5=-166 (LC 20)
Max Grav	1=149 (LC 12), 2=404 (LC 19), 4=385 (LC 20), 5=123 (LC 13), 6=223 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension

TOP CHORD	1-2=-113/159, 2-3=-111/70, 3-4=-110/70, 4-5=-92/99
BOT CHORD	2-6=-19/51, 4-6=-19/51
WEBS	3-6=-142/60

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.
- 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.
- * 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 195 lb uplift at joint 1, 166 lb uplift at joint 5, 213 lb uplift at joint 2 and 196 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.
- See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

LOAD CASE(S) Standard

July 8, 2024

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Job	Truss	Truss Type	Qty	Ply	Roof - HR Lot 202
P240906-01	V4	Valley	1	1	Job Reference (optional)

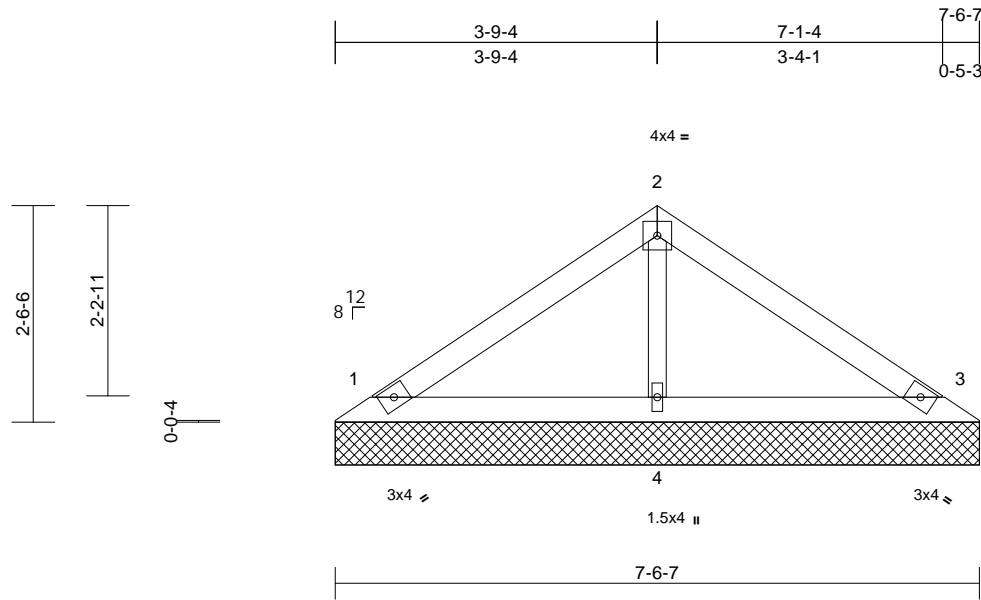
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09/24/2024



Scale = 1:27

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	0.11	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: 25 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=7-6-7, 3=7-6-7, 4=7-6-7
Max Horiz 1=-62 (LC 10)
Max Uplift 1=-42 (LC 12), 3=-50 (LC 13)
Max Grav 1=168 (LC 1), 3=168 (LC 1), 4=261 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=-105/64, 2-3=-100/64
BOT CHORD 1-4=-13/50, 3-4=-13/50
WEBS 2-4=-178/96

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.
- 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 42 lb uplift at joint 1 and 50 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

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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 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, 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.sbcsccomponents.com)

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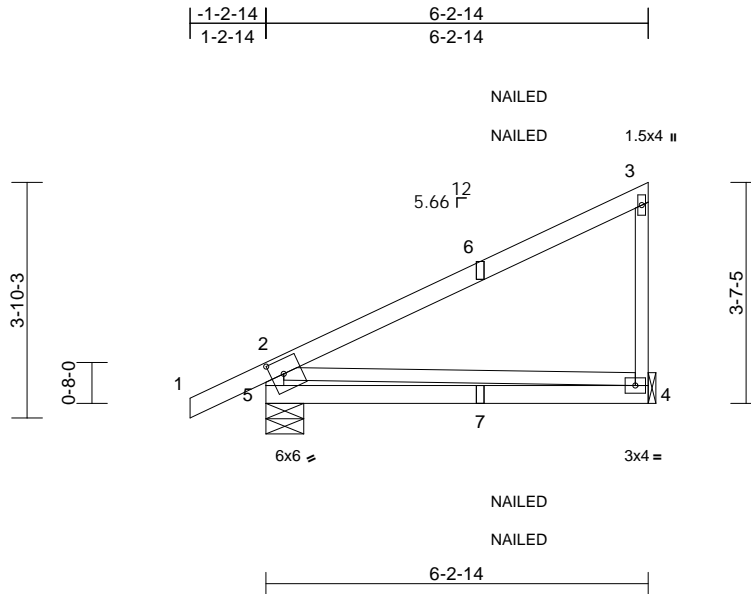
Job	Truss	Truss Type	Qty	Ply	Roof - HR Lot 202
P240906-01	CG1	Diagonal Hip Girder	1	1	Job Reference (optional)

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

Run: 8.95 S 8.63 Jun 17 2024 Print: 8.630 S Jun 17 2024 MiTek Industries, Inc. Mon Jul 1 10:11:44 AM Page: 1
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09/24/2024



Scale = 1:37.6

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.88	Vert(LL)	-0.08	4-5	>931	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.51	Vert(CT)	-0.15	4-5	>466	180		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.11	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 29 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x3 SPF No.2 *Except* 5-2:2x4 SP No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 9-5-12 oc bracing.

REACTIONS (size) 4= Mechanical, 5=0-7-6
Max Horiz 5=159 (LC 9)
Max Uplift 4=94 (LC 9), 5=94 (LC 12)
Max Grav 4=258 (LC 1), 5=378 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 2-5=-318/302, 1-2=0/41, 2-3=-228/126, 3-4=-198/246
BOT CHORD 4-5=-353/181
WEBS 2-4=-129/307

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 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
- 2) 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.
- 4) Bearings are assumed to be: Joint 5 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 94 lb uplift at joint
5 and 94 lb uplift at joint 4.
- 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.
- 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

- 1) Dead + Roof Live (balanced): Lumber Increase=1.15,
Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-2=-70, 2-3=-70, 4-5=-20



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Job	Truss	Truss Type	Qty	Ply	Roof - HR Lot 202
P240906-01	J1	Jack-Open	7	1	Job Reference (optional)

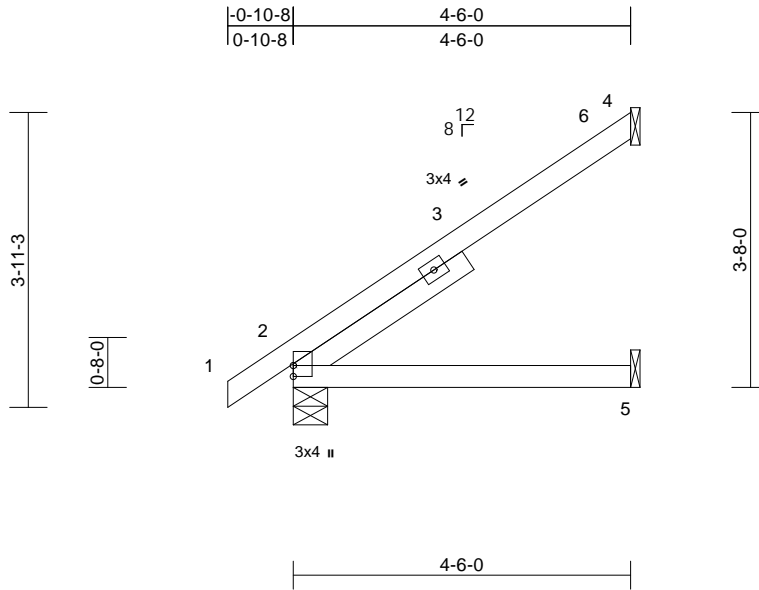
Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083,

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Scale = 1:30.7

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	0.42	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: 21 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
SLIDER Left 2x4 SP No.2 -- 2-8-10

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=153 (LC 12)
Max Uplift 2=-15 (LC 12), 4=-121 (LC 12)
Max Grav 2=267 (LC 1), 4=163 (LC 19), 5=89 (LC 3)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/16, 2-4=-131/80
BOT CHORD 2-5=0/0

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) -0-10-8 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
- 2) 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.
- 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.

- 6) Provide mechanical connection (by others) of truss to
bearing plate capable of withstanding 121 lb uplift at
joint 4 and 15 lb uplift at joint 2.
- 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



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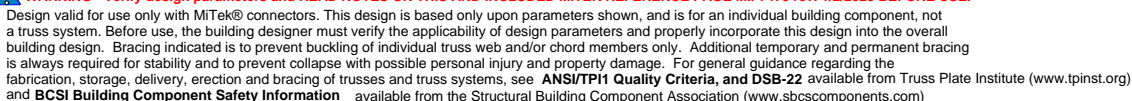
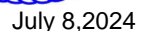
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LOAD CASE(S) Standard



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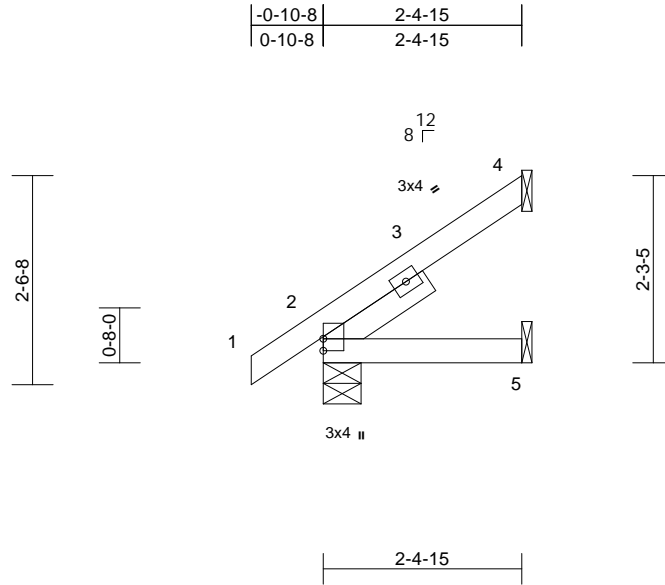
Job	Truss	Truss Type	Qty	Ply	Roof - HR Lot 202
P240906-01	J2	Jack-Open	4	1	Job Reference (optional)

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09/24/2024



Scale = 1:28

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.12	Vert(LL)	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: 12 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=92 (LC 12)
Max Uplift 2=-16 (LC 12), 4=-67 (LC 12)
Max Grav 2=178 (LC 1), 4=80 (LC 19), 5=47 (LC 3)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/16, 2-4=-78/47
BOT CHORD 2-5=0/0

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) 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
- 2) 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.
- 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.

- 6) Provide mechanical connection (by others) of truss to
bearing plate capable of withstanding 67 lb uplift at joint
4 and 16 lb uplift at joint 2.
- 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



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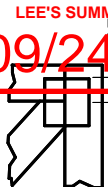
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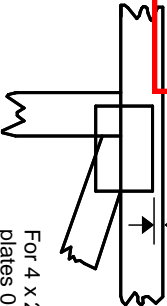
Symbols

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.



0-1/16"



For 4 x 2 orientation, locate plates 0- 1/16" 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

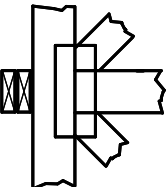
4 X 4
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING LOCATION



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

BEARING



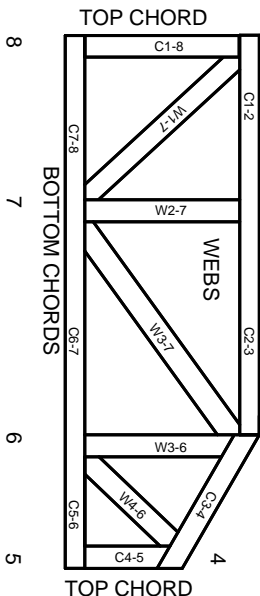
Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number/letter where bearings occur. Min size shown is for crushing only.

Industry Standards:
ANSI/TP11: National Design Specification for Metal Plate Connected Wood Truss Construction.
DSB-22: Design Standard for Bracing.
BCSI: Building Component Safety Information, Guide to Good Practice for Handling, Installing, Restraining & Bracing of Metal Plate Connected Wood Trusses.

Numbering System

6-4-8 dimensions shown in ft-in-sixteenths (Drawings not to scale)

1 2 3 Joint ID typ.



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/TP1 1 section 6.3. These truss designs rely on lumber values established by others.

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MITek Engineering Reference Sheet: MIL-7473 rev. 1/2/2023

General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

1. Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI.
2. 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.
3. Never exceed the design loading shown and never stack materials on inadequately braced trusses.
4. Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
5. Cut members to bear tightly against each other.
6. Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TP1 1.
7. Design assumes trusses will be suitably protected from the environment in accord with ANSI/TP1 1.
8. Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
9. Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
10. Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
11. Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
12. Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
13. Top chords must be sheathed or purlins provided at spacing indicated on design.
14. 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.
16. Do not cut or alter truss member or plate without prior approval of an engineer.
17. Install and load vertically unless indicated otherwise.
18. Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use.
19. Review all portions of this design (front, back, words and pictures) before use. Reviewing pictures alone is not sufficient.
20. Design assumes manufacture in accordance with ANSI/TP1 1 Quality Criteria.
21. The design does not take into account any dynamic or other loads other than those expressly stated.