



MiTek, Inc.

16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200

Re: 240113-84-JH-R
Jim Hubbard Insurance

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

Pages or sheets covered by this seal: I67919649 thru I67919662

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

Missouri COA: Engineering 001193



September 3, 2024

Sevier, Scott ,Engineer

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

Job	Truss	Truss Type	Qty	Ply	Jim Hubbard Insurance
240113-84-JH-R	A	Common	11	1	
					Job Reference (optional)

167919649

Pinnacle Component System, Ottawa, KS - 66067,

8.730 s Aug 15 2024 MiTek Industries, Inc. Fri Aug 30 09:01:13 2024 Page 1
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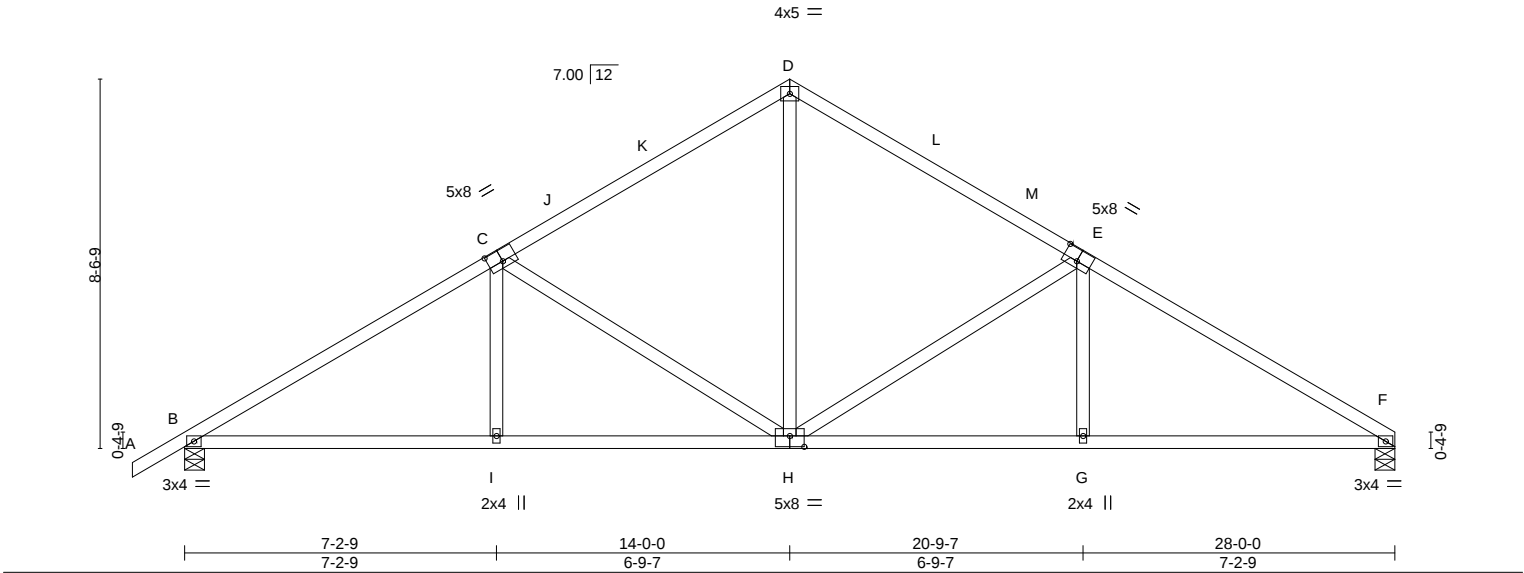


Plate Offsets (X,Y)-- [C:0-4-0,0-3-4], [E:0-4-0,0-3-4], [H:0-4-0,0-3-0]							
LOADING (psf)		SPACING-		CSI.		DEFL.	
TCLL	25.0	2-0-0		TC	0.97	in (loc)	l/defl
(Roof Snow=25.0)		Plate Grip DOL	1.15	BC	0.67	F-G	>999
TCDL	10.0	Lumber DOL	1.15	WB	0.84	F-G	>999
BCLL	0.0 *	Rep Stress Incr	YES	Matrix-S		F	n/a
BCDL	10.0	Code IRC2018/TPI2014					n/a
						PLATES	
						MT20	
						GRIP	
						244/190	
						Weight: 139 lb	
						FT = 20%	

LUMBER-		BRACING-	
TOP CHORD	2x4 SP 2400F 2.0E *Except* A-C,E-F: 2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied.
BOT CHORD	2x4 SP No.2	BOT CHORD	Structural wood sheathing directly applied or 10-0-0 oc bracing.
WEBS	2x4 SP No.2		

REACTIONS. (size) B=0-5-8, F=0-5-8
Max Horz B=194(LC 13)
Max Uplift B=-165(LC 14), F=-110(LC 14)
Max Grav B=1348(LC 19), F=1244(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-C=-2010/213, C-D=-1356/235, D-E=-1358/238, E-F=-1996/221
BOT CHORD B-I=-111/1625, H-I=-112/1622, G-H=-109/1637, F-G=-108/1640
WEBS D-H=-86/827, E-H=-753/160, E-G=0/307, C-H=-738/156, C-I=0/304

- NOTES-**
- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=28ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-2-8 to 1-9-8, Interior(1) 1-9-8 to 14-0-0, Exterior(2R) 14-0-0 to 17-0-0, Interior(1) 17-0-0 to 27-9-4 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
 - 2) TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
 - 3) Unbalanced snow loads have been considered for this design.
 - 4) This truss has been designed for greater of min roof live load of 16.0 psf or 1.00 times flat roof load of 25.0 psf on overhangs non-concurrent with other live loads.
 - 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) B=165, F=110.
 - 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.



September 3, 2024

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

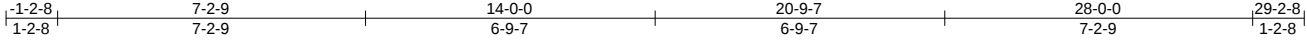
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall 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/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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Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	Jim Hubbard Insurance
240113-84-JH-R	A1	Common	14	1	167919650
Job Reference (optional)					

Pinnacle Component System, Ottawa, KS - 66067, 8.730 s Aug 15 2024 MiTek Industries, Inc. Fri Aug 30 09:01:14 2024 Page 1
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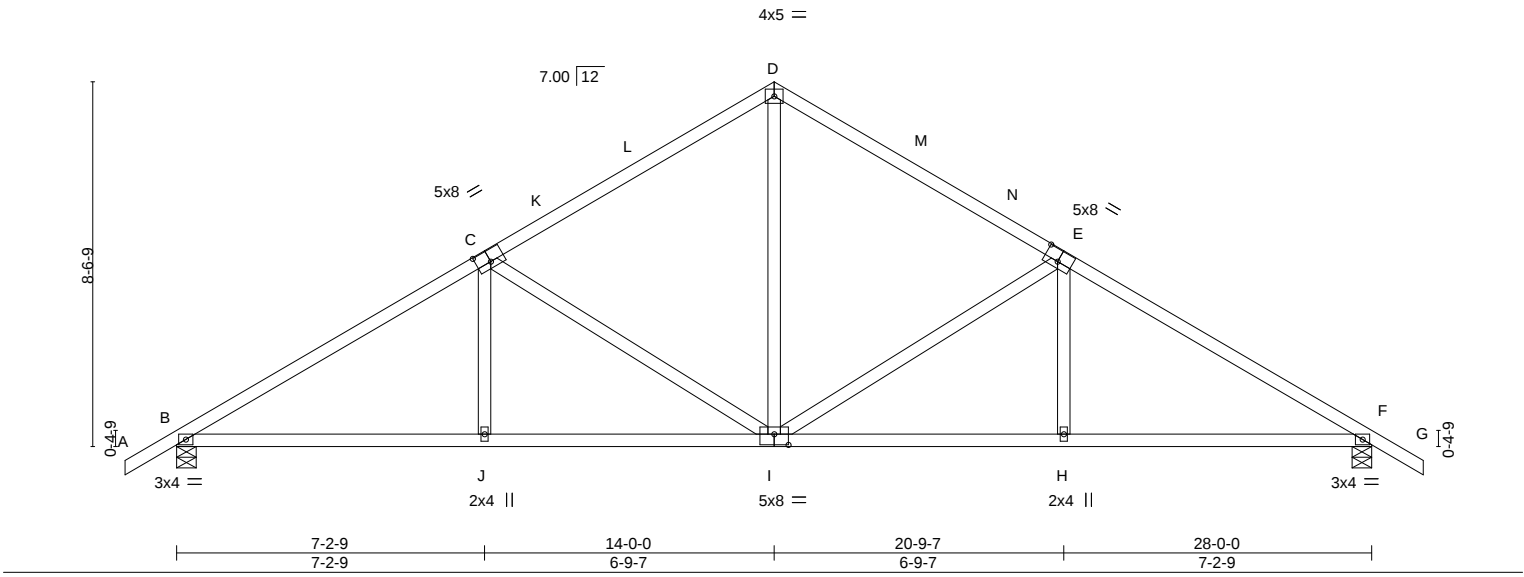


Plate Offsets (X,Y)--		[C:0-4-0,0-3-4], [E:0-4-0,0-3-4], [I:0-4-0,0-3-0]	
LOADING (psf)	SPACING-	CSI.	DEFL.
TCLL 25.0	2-0-0	TC 0.99	in (loc) l/defl L/d
(Roof Snow=25.0)	Plate Grip DOL 1.15	BC 0.66	Vert(LL) -0.08 I >999 240
TCDL 10.0	Lumber DOL 1.15	WB 0.83	Vert(CT) -0.18 F-H >999 180
BCLL 0.0 *	Rep Stress Incr YES	Matrix-S	Horz(CT) 0.07 F n/a n/a
BCDL 10.0	Code IRC2018/TPI2014		
			PLATES GRIP
			MT20 244/190
			Weight: 141 lb FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied.
BOT CHORD 2x4 SP No.2	BOT CHORD Structural wood sheathing directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.2	

REACTIONS. (size) B=0-5-8, F=0-5-8
Max Horz B=-197(LC 12)
Max Uplift B=-164(LC 14), F=-164(LC 14)
Max Grav B=1347(LC 19), F=1347(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-C=-2010/211, C-D=-1351/233, D-E=-1351/233, E-F=-2010/211
BOT CHORD B-J=-74/1626, I-J=-76/1623, H-I=-81/1623, F-H=-80/1626
WEBS D-I=-80/818, E-I=-742/156, E-H=0/304, C-I=-742/156, C-J=0/304

- NOTES-
- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=28ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-2-8 to 1-9-8, Interior(1) 1-9-8 to 14-0-0, Exterior(2R) 14-0-0 to 17-0-0, Interior(1) 17-0-0 to 29-2-8 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
 - 3) Unbalanced snow loads have been considered for this design.
 - 4) This truss has been designed for greater of min roof live load of 16.0 psf or 1.00 times flat roof load of 25.0 psf on overhangs non-concurrent with other live loads.
 - 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) B=164, F=164.
 - 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.



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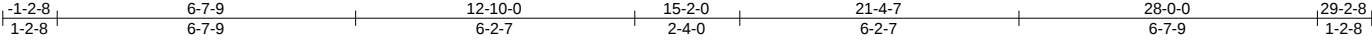
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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	Jim Hubbard Insurance	167919651
240113-84-JH-R	A2	Hip	1	1	Job Reference (optional)	

Pinnacle Component System, Ottawa, KS - 66067, 8.730 s Aug 15 2024 MiTek Industries, Inc. Fri Aug 30 09:01:14 2024 Page 1
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Scale = 1:51.2

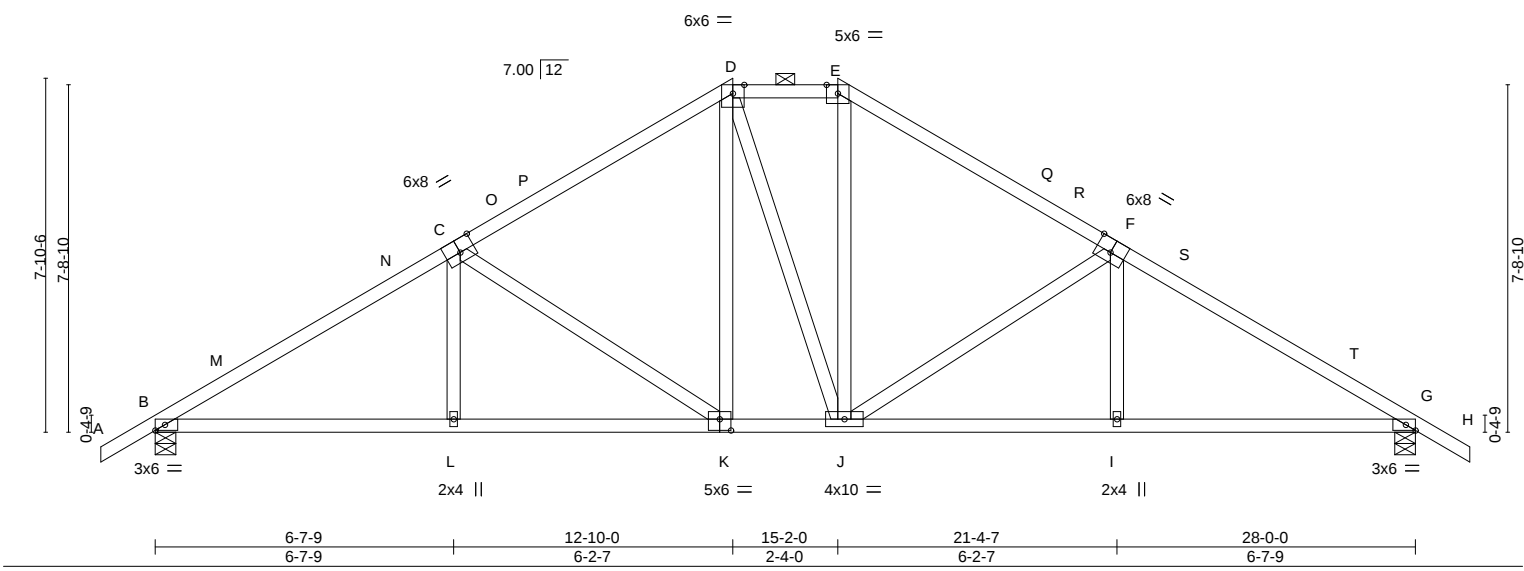


Plate Offsets (X,Y)-- [C:0-4-0,Edge], [F:0-4-0,Edge], [G:0-2-9,Edge], [K:0-3-0,0-3-0]							
LOADING (psf)		SPACING-		CSI.		DEFL.	
TCLL	25.0	2-0-0		TC	0.53	in (loc)	l/defl
(Roof Snow=25.0)		Plate Grip DOL	1.15	BC	0.83	K	>999
TCDL	10.0	Lumber DOL	1.15	WB	0.82	K-L	>999
BCLL	0.0 *	Rep Stress Incr	YES	Matrix-S		G	n/a
BCDL	10.0	Code IRC2018/TP12014					n/a
				PLATES		GRIP	
				MT20		244/190	
				Weight: 158 lb		FT = 20%	

LUMBER-		BRACING-	
TOP CHORD	2x4 SP 2400F 2.0E *Except* D-E: 2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 4-2-12 oc purlins, except 2-0-0 oc purlins (4-3-2 max.): D-E.
BOT CHORD	2x4 SP No.2	BOT CHORD	Structural wood sheathing directly applied or 10-0-0 oc bracing.
WEBS	2x4 SP No.2		

REACTIONS. (size) B=0-5-8, G=0-5-8
Max Horz B=181(LC 13)
Max Uplift B=-164(LC 14), G=-164(LC 14)
Max Grav B=1930(LC 33), G=1930(LC 33)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-C=-2959/188, C-D=-2074/211, D-E=-1604/217, E-F=-2076/212, F-G=-2958/188
BOT CHORD B-L=-52/2373, K-L=-53/2370, J-K=0/1602, I-J=-53/2369, G-I=-52/2372
WEBS C-L=0/283, C-K=-909/129, D-K=-23/576, E-J=-23/577, F-J=-905/129, F-I=0/281

- NOTES-**
- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=28ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-2-8 to 1-9-8, Interior(1) 1-9-8 to 12-10-0, Exterior(2E) 12-10-0 to 15-2-0, Exterior(2R) 15-2-0 to 19-4-15, Interior(1) 19-4-15 to 29-2-8 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
 - 3) Unbalanced snow loads have been considered for this design.
 - 4) This truss has been designed for greater of min roof live load of 16.0 psf or 1.00 times flat roof load of 25.0 psf on overhangs non-concurrent with other live loads.
 - 5) Provide adequate drainage to prevent water ponding.
 - 6) 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=B) B=164, G=164.
 - 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/TP1 1.
 - 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



September 3,2024

Job	Truss	Truss Type	Qty	Ply	Jim Hubbard Insurance	167919652
240113-84-JH-R	A3	Hip	1	1	Job Reference (optional)	

Pinnacle Component System, Ottawa, KS - 66067, 8.730 s Aug 15 2024 MiTek Industries, Inc. Fri Aug 30 09:01:15 2024 Page 1
ID:fMho?iOfnsAg8v?c9dNe6lynzBr-uRFn7PnfYgo9_?yV1bkVt3Fj?FrKV?HoBi7DG3yiibI

1-2-8	5-7-9	10-10-0	17-2-0	22-4-7	28-0-0	29-2-8
1-2-8	5-7-9	5-2-7	6-4-0	5-2-7	5-7-9	1-2-8

Scale = 1:50.4

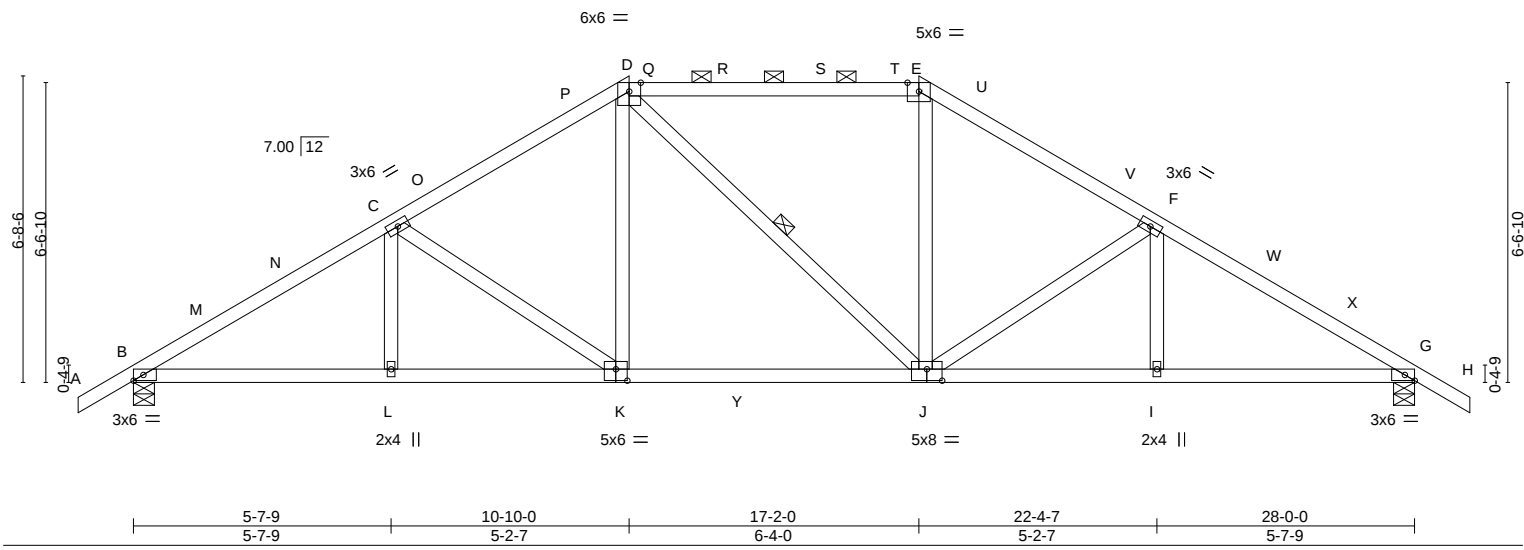


Plate Offsets (X,Y)-- [G:0-2-9,Edge], [J:0-4-0,0-3-0], [K:0-3-0,0-3-0]							
LOADING (psf)		SPACING-		CSI.		DEFL.	
TCLL	25.0	2-0-0		TC	0.74	in (loc)	l/defl
(Roof Snow=25.0)		Plate Grip DOL	1.15	BC	0.74	J-K	>999
TCDL	10.0	Lumber DOL	1.15	WB	0.44	J-K	>999
BCLL	0.0 *	Rep Stress Incr	YES	Matrix-S		G	n/a
BCDL	10.0	Code IRC2018/TPI2014				n/a	n/a
						PLATES	GRIP
						MT20	244/190
						Weight: 150 lb	FT = 20%

LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.2 *Except* D-E: 2x4 SP 2400F 2.0E	TOP CHORD	Structural wood sheathing directly applied or 2-9-12 oc purlins, except 2-0-0 oc purlins (5-4-1 max.): D-E.
BOT CHORD	2x4 SP No.2	BOT CHORD	Structural wood sheathing directly applied or 10-0-0 oc bracing.
WEBS	2x4 SP No.2	WEBS	1 Row at midpt D-J
REACTIONS.			
(size) B=0-5-8, G=0-5-8			
Max Horz B=-155(LC 12)			
Max Uplift B=-164(LC 14), G=-164(LC 14)			
Max Grav B=1832(LC 33), G=1832(LC 33)			
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.			
TOP CHORD	B-C=-2671/188, C-D=-1976/206, D-E=-1582/210, E-F=-1970/206, F-G=-2670/188		
BOT CHORD	B-L=-62/2247, K-L=-62/2247, J-K=0/1650, I-J=-62/2138, G-I=-62/2138		
WEBS	C-K=-701/103, D-K=0/633, E-J=0/595, F-J=-699/103		

- NOTES-**
- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=28ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-2-8 to 1-9-8, Interior(1) 1-9-8 to 10-10-0, Exterior(2R) 10-10-0 to 15-0-15, Interior(1) 15-0-15 to 17-2-0, Exterior(2R) 17-2-0 to 21-4-15, Interior(1) 21-4-15 to 29-2-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
 - 3) Unbalanced snow loads have been considered for this design.
 - 4) This truss has been designed for greater of min roof live load of 16.0 psf or 1.00 times flat roof load of 25.0 psf on overhangs non-concurrent with other live loads.
 - 5) Provide adequate drainage to prevent water ponding.
 - 6) 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) B=164, G=164.
 - 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.



September 3, 2024

Job	Truss	Truss Type	Qty	Ply	Jim Hubbard Insurance	167919653
240113-84-JH-R	A4	Hip	1	1	Job Reference (optional)	

Pinnacle Component System, Ottawa, KS - 66067, 8.730 s Aug 15 2024 MiTek Industries, Inc. Fri Aug 30 09:01:16 2024 Page 1
ID:fMho?iOfnsAg8v?c9dNe6lynzBr-Ndp9KloHJzw0b9XhbJGkQG0tEfBjEQrxPMsmoVyiibH

1-2-8 4-7-9 8-10-0 14-0-0 19-2-0 23-4-7 28-0-0 29-2-8
1-2-8 4-7-9 4-2-7 5-2-0 5-2-0 4-2-7 4-7-9 1-2-8

Scale = 1:50.4

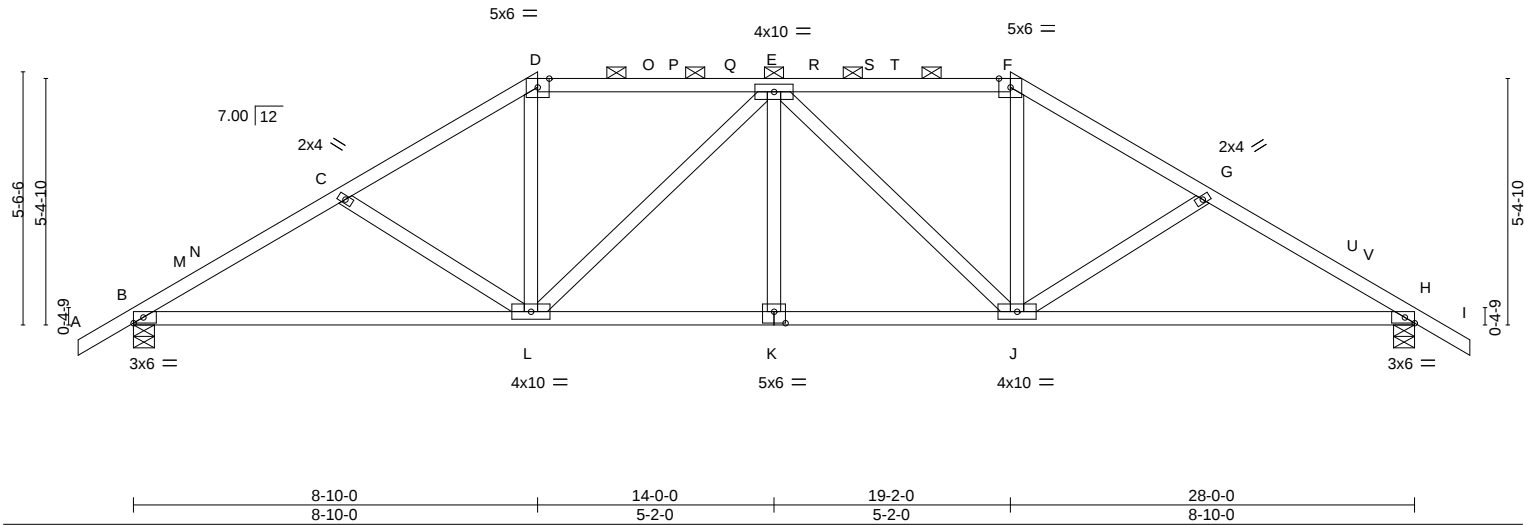


Plate Offsets (X,Y)--		[H:0-2-9,Edge], [K:0-3-0,0-3-0]	
LOADING (psf)	SPACING-	2-0-0	CSI.
TCLL 25.0	Plate Grip DOL	1.15	TC 0.78
(Roof Snow=25.0)	Lumber DOL	1.15	BC 0.73
TCDL 10.0	Rep Stress Incr	YES	WB 0.55
BCLL 0.0 *	Code IRC2018/TP12014		Matrix-S
BCDL 10.0			
DEFL.	in (loc)	l/defl	L/d
Vert(LL)	-0.15	H-J	>999
Vert(CT)	-0.32	H-J	>999
Horz(CT)	0.08	H	n/a
PLATES	GRIP		
MT20	244/190		
Weight: 148 lb	FT = 20%		

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD
BOT CHORD 2x4 SP No.2	Structural wood sheathing directly applied or 3-6-5 oc purlins, except
WEBS 2x4 SP No.2	2-0-0 oc purlins (3-8-15 max.): D-F.
	BOT CHORD
	Structural wood sheathing directly applied or 10-0-0 oc bracing.

REACTIONS.	(size) B=0-5-8, H=0-5-8
	Max Horz B=-129(LC 12)
	Max Uplift B=-164(LC 14), H=-164(LC 14)
	Max Grav B=1662(LC 33), H=1662(LC 33)

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	B-C=-2348/218, C-D=-1916/191, D-E=-1624/192, E-F=-1624/192, F-G=-1916/191, G-H=-2348/218
BOT CHORD	B-L=-95/1884, K-L=-38/2049, J-K=-38/2049, H-J=-95/1884
WEBS	C-L=-455/122, D-L=-4/605, E-L=-595/58, E-J=-595/58, F-J=-4/605, G-J=-455/122

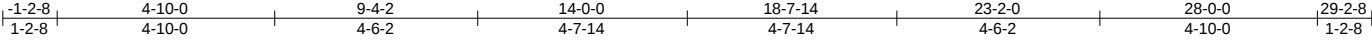
- NOTES-**
- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=28ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-2-8 to 1-9-8, Interior(1) 1-9-8 to 8-10-0, Exterior(2R) 8-10-0 to 13-0-15, Interior(1) 13-0-15 to 19-2-0, Exterior(2R) 19-2-0 to 23-6-2, Interior(1) 23-6-2 to 29-2-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
 - 3) Unbalanced snow loads have been considered for this design.
 - 4) This truss has been designed for greater of min roof live load of 16.0 psf or 1.00 times flat roof load of 25.0 psf on overhangs non-concurrent with other live loads.
 - 5) Provide adequate drainage to prevent water ponding.
 - 6) 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) B=164, H=164.
 - 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/TP1 1.
 - 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



September 3,2024

Job	Truss	Truss Type	Qty	Ply	Jim Hubbard Insurance	167919655
240113-84-JH-R	A6	Hip Girder	1	1	Job Reference (optional)	

Pinnacle Component System, Ottawa, KS - 66067, 8.730 s Aug 15 2024 MiTek Industries, Inc. Fri Aug 30 09:01:17 2024 Page 1
ID:fMho?iOfnsAg8v?c9dNe6lynzBr-rqNXY5pw4H2tDj5t90nzzUK0C2YVWzrN5e0cJLyyibG



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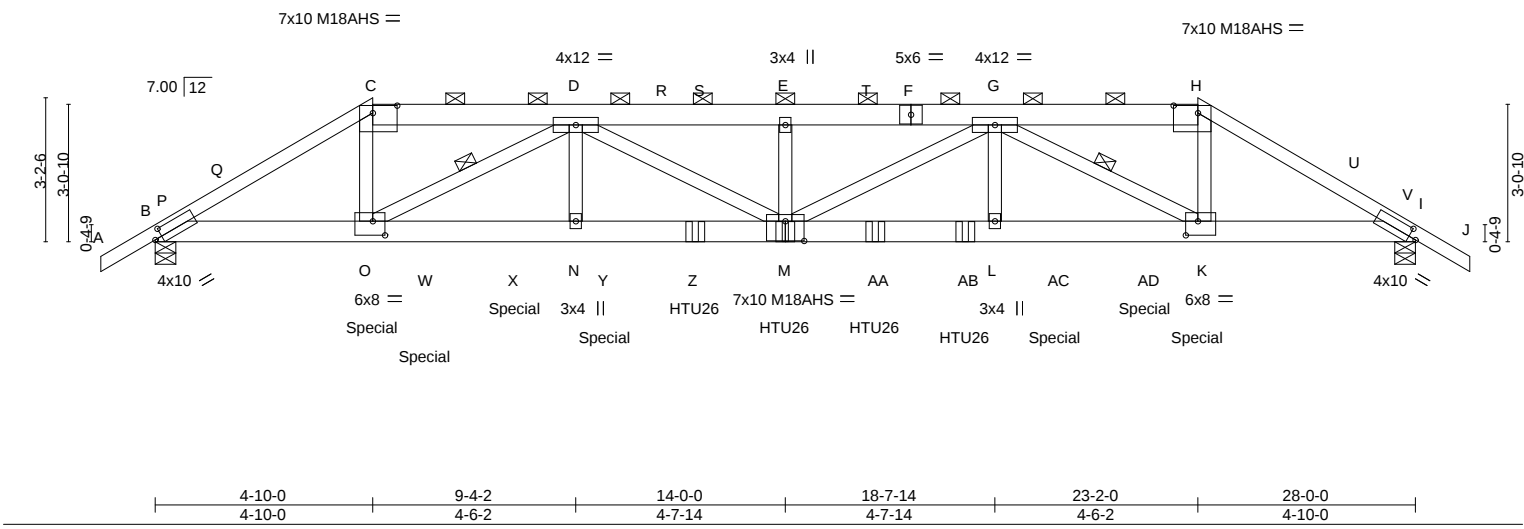


Plate Offsets (X,Y)-- [B:0-2-0,0-2-5], [C:0-6-8,0-2-0], [H:0-6-8,0-2-0], [I:0-2-0,0-2-5], [K:0-3-4,0-3-12], [M:0-5-0,0-5-4], [O:0-3-4,0-3-12]							
LOADING (psf)		SPACING-		CSI.		DEFL.	
TCLL	25.0	2-0-0		TC	0.95	in (loc)	l/defl
(Roof Snow=25.0)		Plate Grip DOL	1.15	BC	0.63	M	>726
TCDL	10.0	Lumber DOL	1.15	WB	0.66	M	>521
BCLL	0.0 *	Rep Stress Incr	NO	Matrix-S		I	n/a
BCDL	10.0	Code IRC2018/TPI2014					n/a
						PLATES	GRIP
						MT20	244/190
						M18AHS	186/179
						Weight: 175 lb	FT = 20%

LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.2 *Except* C-F,F-H: 2x6 SP 2400F 2.0E	TOP CHORD	Structural wood sheathing directly applied, except 2-0-0 oc purlins (3-0-9 max.): C-H.
BOT CHORD	2x6 SP 2400F 2.0E	BOT CHORD	Structural wood sheathing directly applied or 10-0-0 oc bracing.
WEBS	2x4 SP No.2	WEBS	1 Row at midpt D-O, G-K

REACTIONS. (size) B=0-5-8, I=0-5-8
Max Horz B=-76(LC 54)
Max Uplift B=-401(LC 14), I=-401(LC 14)
Max Grav B=3089(LC 32), I=3089(LC 32)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-C=-5823/652, C-D=-4850/576, D-E=-9509/1072, E-G=-9509/1072, G-H=-4850/576,
H-I=-5823/652
BOT CHORD B-O=-468/4989, N-O=-838/8394, M-N=-838/8394, L-M=-838/8394, K-L=-838/8394,
I-K=-468/4989
WEBS C-O=-248/2679, D-O=-4064/446, D-N=-48/715, D-M=-145/1277, E-M=-569/94,
G-M=-146/1277, G-L=-48/715, G-K=-4064/444, H-K=-248/2679

- NOTES-**
- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=28ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-2-8 to 1-9-8, Interior(1) 1-9-8 to 4-10-0, Exterior(2R) 4-10-0 to 9-4-2, Interior(1) 9-4-2 to 23-2-0, Exterior(2R) 23-2-0 to 27-4-15, Interior(1) 27-4-15 to 29-2-8 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
 - 3) Unbalanced snow loads have been considered for this design.
 - 4) This truss has been designed for greater of min roof live load of 16.0 psf or 1.00 times flat roof load of 25.0 psf on overhangs non-concurrent with other live loads.
 - 5) Provide adequate drainage to prevent water ponding.
 - 6) All plates are MT20 plates unless otherwise indicated.
 - 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) B=401, I=401.
 - 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 HTU26 (10-16d Girder, 14-10dx1 1/2 Truss) or equivalent spaced at 2-0-0 oc max. starting at 12-0-0 from the left end to 18-0-0 to connect truss(es) to back face of bottom chord.
- Continued on page 2 where hanger is in contact with lumber.



September 3, 2024

Job	Truss	Truss Type	Qty	Ply	Jim Hubbard Insurance
240113-84-JH-R	A6	Hip Girder	1	1	167919655
Job Reference (optional)					

NOTES-

- 14) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 359 lb down and 64 lb up at 4-10-0, 254 lb down and 49 lb up at 6-0-0, 254 lb down and 49 lb up at 8-0-0, 254 lb down and 49 lb up at 10-0-0, 254 lb down and 49 lb up at 20-0-0, and 254 lb down and 49 lb up at 22-0-0, and 359 lb down and 64 lb up at 23-2-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 15) 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 + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
- Vert: A-C=-70, C-H=-70, H-J=-70, B-I=-20
- Concentrated Loads (lb)
- Vert: O=-359(B) M=-254(B) K=-359(B) W=-254(B) X=-254(B) Y=-254(B) Z=-254(B) AA=-254(B) AB=-254(B) AC=-254(B) AD=-254(B)

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

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not 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	Jim Hubbard Insurance
240113-84-JH-R	AG	GABLE	1	1	167919656
Job Reference (optional)					

Pinnacle Component System, Ottawa, KS - 66067, 8.730 s Aug 15 2024 MiTek Industries, Inc. Fri Aug 30 09:01:18 2024 Page 1
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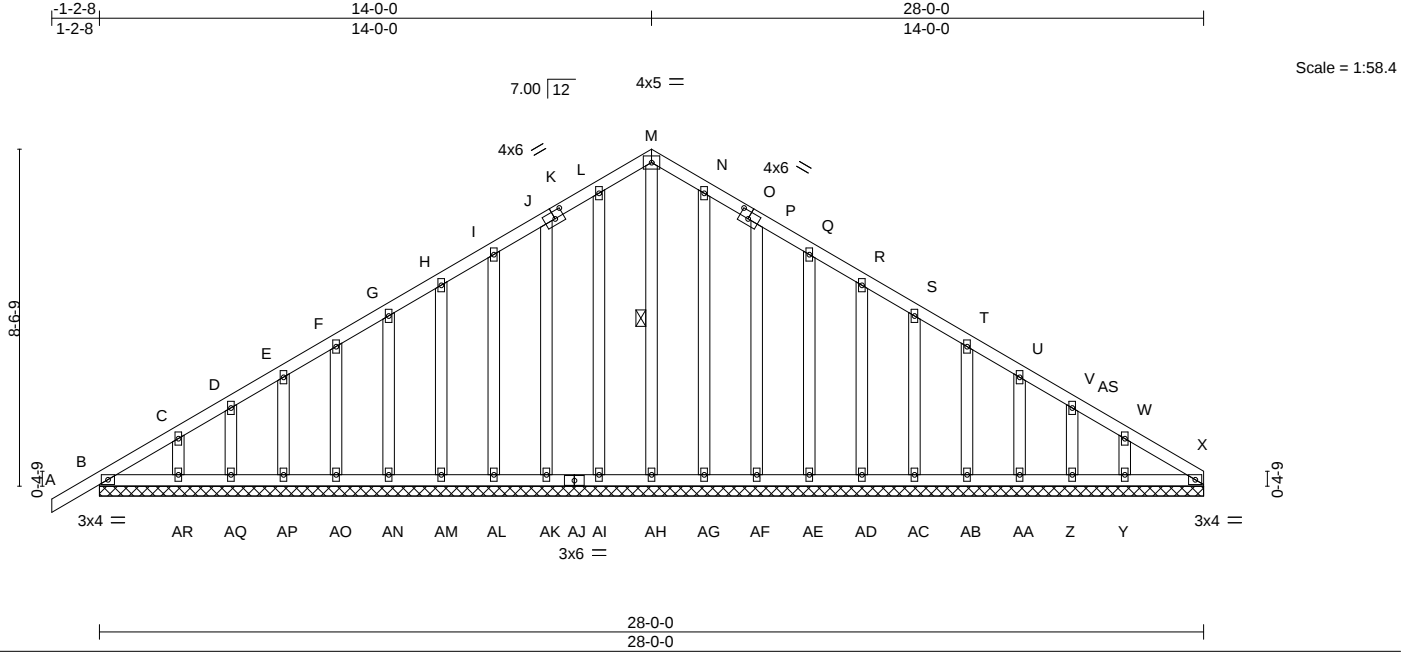


Plate Offsets (X,Y)--		[K:0-2-12,0-2-4], [O:0-2-12,0-2-4]	
LOADING (psf)		SPACING-	
TCLL	25.0	2-0-0	
(Roof Snow=25.0)		Plate Grip DOL	1.15
TCDL	10.0	Lumber DOL	1.15
BCLL	0.0 *	Rep Stress Incr	YES
BCDL	10.0	Code IRC2018/TPI2014	
		CSL	
		TC	0.12
		BC	0.04
		WB	0.15
		Matrix-S	
		DEFL.	
		in (loc)	l/defl
		Vert(LL)	0.00 A n/r 120
		Vert(CT)	-0.00 A n/r 120
		Horz(CT)	0.00 X n/a n/a
		PLATES	
		MT20	244/190
		GRIP	
		Weight: 214 lb	FT = 20%

LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD	2x4 SP No.2	BOT CHORD	Structural wood sheathing directly applied or 10-0-0 oc bracing.
OTHERS	2x4 SP No.2	WEBS	1 Row at midpt M-AH

REACTIONS. All bearings 28-0-0.
(lb) - Max Horz B=194(LC 13)
Max Uplift All uplift 100 lb or less at joint(s) B, AI, AK, AL, AM, AN, AO, AP, AQ, AR, AG, AF, AE, AD, AC, AB, AA, Z, Y
Max Grav All reactions 250 lb or less at joint(s) B, AH, AI, AK, AL, AM, AN, AO, AP, AQ, AR, AG, AF, AE, AD, AC, AB, AA, Z, Y, X

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

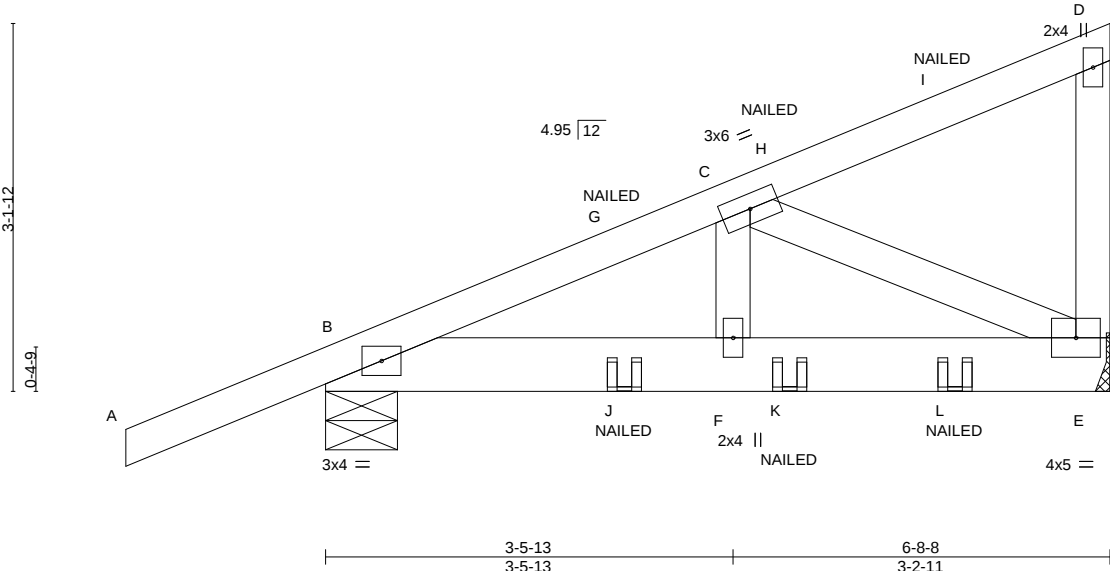
- NOTES-**
- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=28ft; eave=2ft; Cat. II; Exp C; enclosed; MWFRS (directional) and C-C Corner(3E) -1-2-8 to 2-0-0, Exterior(2N) 2-0-0 to 14-0-0, Corner(3R) 14-0-0 to 17-0-0, Exterior(2N) 17-0-0 to 28-0-0 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
 - 2) 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.
 - 3) TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
 - 4) Unbalanced snow loads have been considered for this design.
 - 5) This truss has been designed for greater of min roof live load of 16.0 psf or 1.00 times flat roof load of 25.0 psf on overhangs non-concurrent with other live loads.
 - 6) All plates are 2x4 MT20 unless otherwise indicated.
 - 7) Gable requires continuous bottom chord bearing.
 - 8) Gable studs spaced at 1-4-0 oc.
 - 9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 10) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 11) One H2.5T Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) B, AH, AI, AK, AL, AM, AN, AO, AP, AQ, AR, AG, AF, AE, AD, AC, AB, AA, Z, and Y. This connection is for uplift only and does not consider lateral forces.
 - 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.



September 3,2024

Job	Truss	Truss Type	Qty	Ply	Jim Hubbard Insurance	167919657
240113-84-JH-R	CJA	Diagonal Hip Girder	2	1	Job Reference (optional)	

Pinnacle Component System, Ottawa, KS - 66067, 8.730 s Aug 15 2024 MiTek Industries, Inc. Fri Aug 30 09:01:19 2024 Page 1
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Job	Truss	Truss Type	Qty	Ply	Jim Hubbard Insurance
240113-84-JH-R	CJA	Diagonal Hip Girder	2	1	167919657
Job Reference (optional)					

LOAD CASE(S) Standard
Concentrated Loads (lb)
Vert: I=-62(B) L=-8(B)

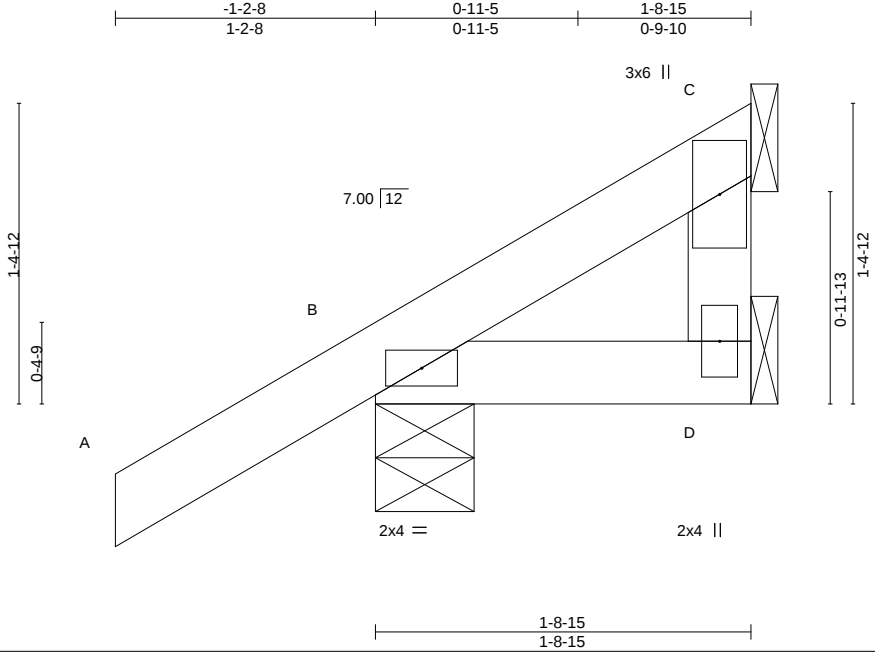
 **WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.**

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Job	Truss	Truss Type	Qty	Ply	Jim Hubbard Insurance
240113-84-JH-R	JA	Jack-Partial	2	1	167919658
Job Reference (optional)					

Pinnacle Component System, Ottawa, KS - 66067, 8.730 s Aug 15 2024 MiTek Industries, Inc. Fri Aug 30 09:01:19 2024 Page 1
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Scale = 1:10.7

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 25.0 (Roof Snow=25.0)	2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15	TC 0.18 BC 0.02 WB 0.00	in (loc) l/defl L/d Vert(LL) -0.00 B >999 240 Vert(CT) -0.00 B >999 180 Horz(CT) -0.00 C n/a n/a	MT20	244/190
TCDL 10.0	Rep Stress Incr YES	Matrix-P			
BCLL 0.0 *	Code IRC2018/TPI2014				
BCDL 10.0					
Weight: 9 lb FT = 20%					

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 1-8-15 oc purlins.
BOT CHORD 2x4 SP No.2	BOT CHORD Structural wood sheathing directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.2	

REACTIONS. (size) B=0-5-8, D=Mechanical, C=Mechanical
Max Horz B=63(LC 14)
Max Uplift B=-66(LC 14), C=-20(LC 18)
Max Grav B=272(LC 19), D=31(LC 5), C=27(LC 19)

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

- NOTES-**
- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) 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) TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
 - 3) Unbalanced snow loads have been considered for this design.
 - 4) This truss has been designed for greater of min roof live load of 16.0 psf or 1.00 times flat roof load of 25.0 psf on overhangs non-concurrent with other live loads.
 - 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 7) Refer to girder(s) for truss to truss connections.
 - 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) B, C.
 - 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) Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.



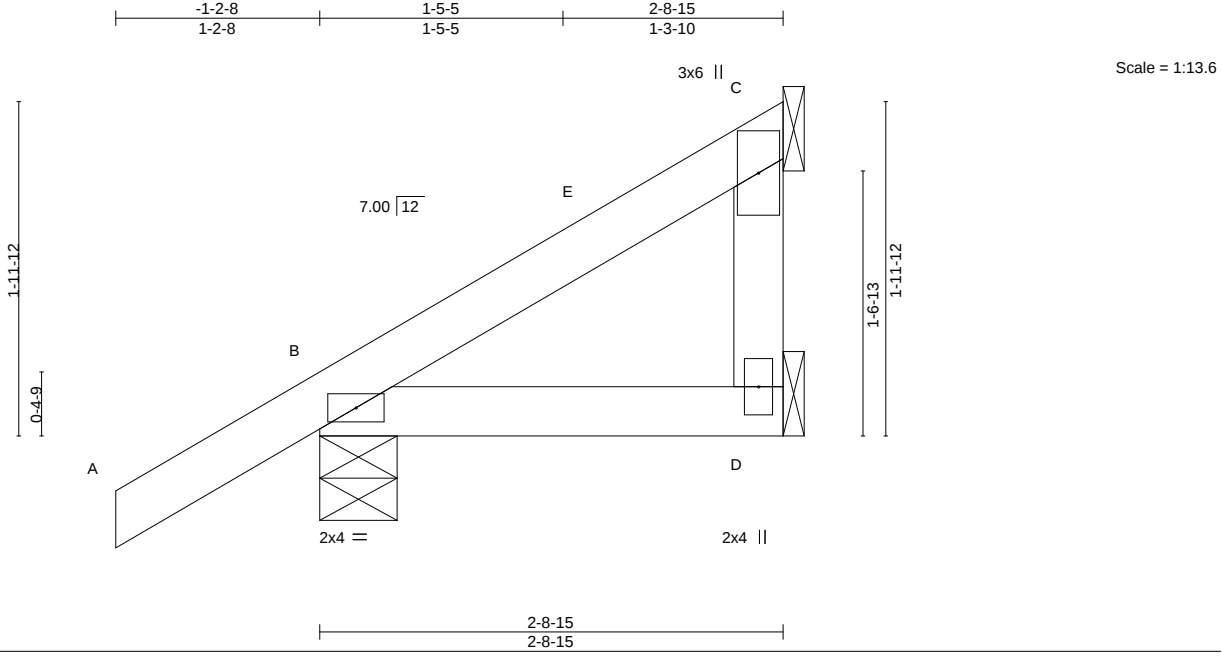
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Job	Truss	Truss Type	Qty	Ply	Jim Hubbard Insurance
240113-84-JH-R	JB	Jack-Partial	2	1	167919659
Job Reference (optional)					

Pinnacle Component System, Ottawa, KS - 66067, 8.730 s Aug 15 2024 MiTek Industries, Inc. Fri Aug 30 09:01:20 2024 Page 1
ID:fMho?iOfnsAg8v?c9dNe6lynzBr-FP3gA7roNCRS4mqSq8Kga6yiTGj8ALQXK_q_xHyiibD



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 25.0 (Roof Snow=25.0)	2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15	TC 0.25 BC 0.06 WB 0.00	in (loc) l/defl L/d Vert(LL) -0.00 B-D >999 240 Vert(CT) -0.00 B-D >999 180 Horz(CT) -0.00 C n/a n/a	MT20	244/190
TCDL 10.0	Rep Stress Incr YES	Matrix-P			
BCLL 0.0 *	Code IRC2018/TPI2014				
BCDL 10.0					
Weight: 13 lb FT = 20%					

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 2-8-15 oc purlins.
BOT CHORD 2x4 SP No.2	BOT CHORD Structural wood sheathing directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.2	

REACTIONS. (size) C=Mechanical, B=0-5-8, D=Mechanical
Max Horz B=82(LC 14)
Max Uplift C=-21(LC 11), B=-65(LC 14)
Max Grav C=80(LC 19), B=349(LC 19), D=47(LC 5)

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

- NOTES-**
- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-2-8 to 1-9-8, Interior(1) 1-9-8 to 2-7-3 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
 - 3) Unbalanced snow loads have been considered for this design.
 - 4) This truss has been designed for greater of min roof live load of 16.0 psf or 1.00 times flat roof load of 25.0 psf on overhangs non-concurrent with other live loads.
 - 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 7) Refer to girder(s) for truss to truss connections.
 - 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) C, B.
 - 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) Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.



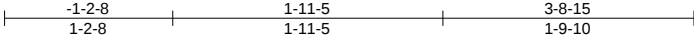
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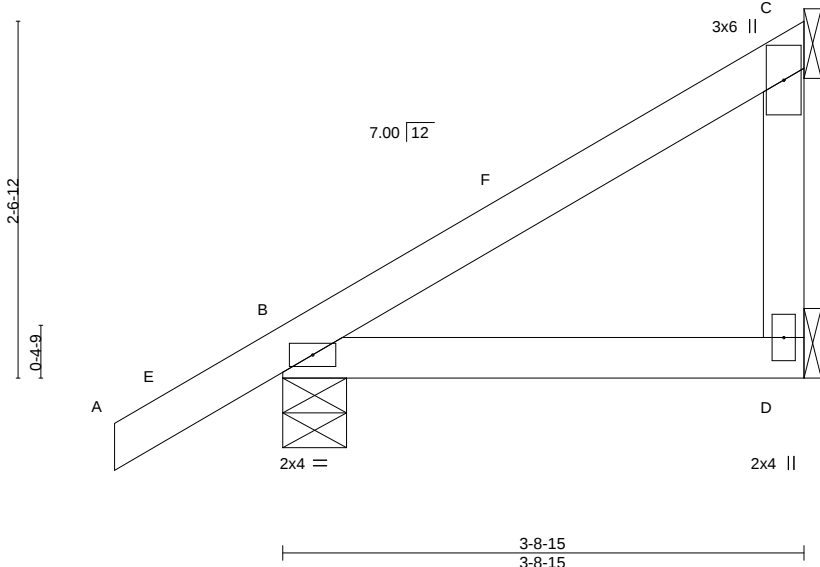
MiTek®
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Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	Jim Hubbard Insurance
240113-84-JH-R	JC	Jack-Partial	2	1	167919660
Job Reference (optional)					

Pinnacle Component System, Ottawa, KS - 66067, 8.730 s Aug 15 2024 MiTek Industries, Inc. Fri Aug 30 09:01:20 2024 Page 1
ID:fMho?iOfnsAg8v?c9dNe6lynzBr-FP3gA7roNCRS4mqSq8Kga6yhGGi5ALQXK_q_xHyiibD



Scale = 1:16.6



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 25.0 (Roof Snow=25.0)	2-0-0	TC 0.26	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.13	Vert(LL) -0.01 B-D >999 240		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.00	Vert(CT) -0.02 B-D >999 180		
BCDL 10.0	Rep Stress Incr YES	Matrix-P	Horz(CT) -0.00 C n/a n/a		
	Code IRC2018/TPI2014			Weight: 17 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 3-8-15 oc purlins.
BOT CHORD Structural wood sheathing directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) C=Mechanical, B=0-5-8, D=Mechanical
Max Horz B=100(LC 14)
Max Uplift C=42(LC 14), B=58(LC 14)
Max Grav C=153(LC 19), B=413(LC 19), D=67(LC 5)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-2-8 to 1-9-8, Interior(1) 1-9-8 to 3-7-3 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.
- 4) This truss has been designed for greater of min roof live load of 16.0 psf or 1.00 times flat roof load of 25.0 psf on overhangs non-concurrent with other live loads.
- 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Refer to girder(s) for truss to truss connections.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) C, B.
- 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) Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.



September 3, 2024

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Timeline: 1-2-8 4-10-0
1-2-8 4-10-0

[illegible]

LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 4-10-0 oc purlins, except end verticals.
BOT CHORD	2x4 SP No.2	BOT CHORD	Structural wood sheathing directly applied or 10-0-0 oc bracing.
WEBS	2x4 SP No.2		

REACTIONS. (size) D=Mechanical, B=0-5-8
 Max Horz B=119(LC 11)
 Max Uplift D=-29(LC 11), B=-75(LC 14)
 Max Grav D=274(LC 19), B=441(LC 19)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-2-8 to 1-9-8, Interior(1) 1-9-8 to 4-8-4 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) TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.
- 4) This truss has been designed for greater of min roof live load of 16.0 psf or 1.00 times flat roof load of 25.0 psf on overhangs non-concurrent with other live loads.
- 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Refer to girder(s) for truss to truss connections.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) B.
- 9) One H2.5T Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) D. This connection is for uplift only and does not consider lateral forces.
- 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.



September 3, 2024



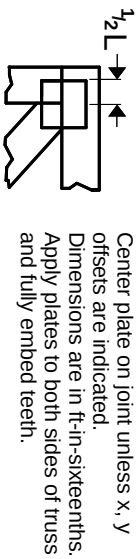
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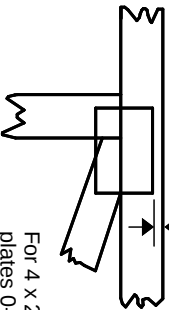
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Symbols

PLATE LOCATION AND ORIENTATION



0- $\frac{1}{16}$ "



For 4 x 2 orientation, locate plates 0- $\frac{1}{16}$ " 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

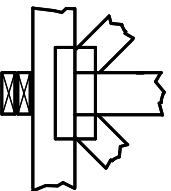
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

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/TP1.1: 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

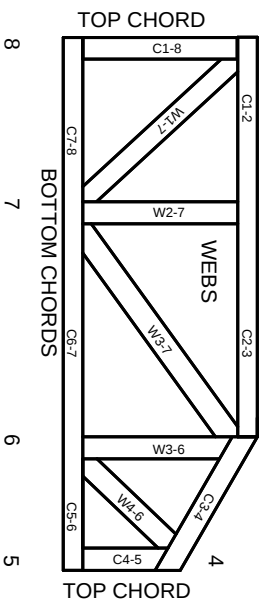
6-4-8 dimensions shown in ft-in-sixteenths (Drawings not to scale)

1

2

3 Joint ID typ.

TOP CHORDS



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. 1/12/2023



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.