

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

Re: 2387107

Summit/Stoney Creek #86

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

Pages or sheets covered by this seal: I41826257 thru I41826347

My license renewal date for the state of Missouri is December 31, 2021.

Missouri COA: Engineering 001193



June 26,2020

Sevier, Scott

,Engineer

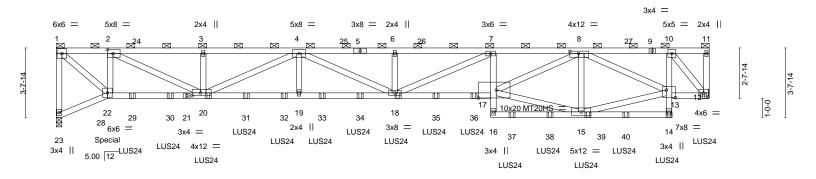
IMPORTANT NOTE: The seal on these truss component designs is a certification that the engineer named is licensed in the jurisdiction(s) identified and that the designs comply with ANSI/TPI 1. These designs are based upon parameters shown (e.g., loads, supports, dimensions, shapes and design codes), which 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 Summit/Stoney Creek #86 141826257 2387107 A1 Roof Special Girder Job Reference (optional)
8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Jun 26 12:07:49 2020 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147,

ID:VPVqvFnP0P0b1j2tZrlOqezdKbx-jnOJJvloZ5BnkhGzoWxxpGj6LXPxKa14NUTpg?z2Q2O

34-4-10 22-10-8 27-7-12 32-5-0 5-0-9 5-0-9 5-0-9 5-0-9 4-9-4 4-9-4 1-11-10

Scale = 1:60.7



2-8-5 7-8-	14 12-9-6	17-9-15	22-10-8	27-7-12	32-5-0	34-4-10	
2-8-5 5-0-	-9 5-0-9	5-0-9	5-0-9	4-9-4	4-9-4	1-11-10	
Plate Offsets (X,Y) [2:0-3-8,0	-2-8], [8:0-5-8,0-1-8], [13:0-5-12,0)-4-12], [17:0-11-4,0-5-0], [20	:0-5-4,0-1-12]				
CADING (psf) TCLL (roof) 25.0 Snow (Pf/Pg) 20.4/20.0 TCDL 10.0 BCLL 0.0 BCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr NO Code IRC2018/TPI2014	CSI. TC 0.67 BC 0.76 WB 0.83 Matrix-MS	- ' '	in (loc) I/defl -0.62 17-18 >661 -1.05 17-18 >388 0.27 12 n/a	L/d 240 180 n/a	PLATES MT20 MT20HS Weight: 323 lb	GRIP 197/144 148/108 FT = 20%

BOT CHORD

LUMBER-**BRACING-**TOP CHORD

2x4 SPF 1650F 1.5E *Except* TOP CHORD 9-11: 2x4 SPF No.2

BOT CHORD 2x4 SPF No.2 *Except* 17-21: 2x4 SP 2400F 2.0E

WEBS 2x4 SPF No.2

REACTIONS. 23=0-3-8, 12=Mechanical (size)

Max Horz 23=-103(LC 8)

Max Uplift 23=-598(LC 10), 12=-597(LC 10) Max Grav 23=3660(LC 1), 12=3522(LC 1)

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

TOP CHORD 1-23=-3612/598, 1-2=-3570/639, 2-3=-8878/1537, 3-4=-8878/1537, 4-6=-12623/2168,

6-7=-12623/2168, 7-8=-11588/1990, 8-10=-2773/496

BOT CHORD 20-22=-615/3739, 19-20=-1986/11840, 18-19=-1986/11840, 17-18=-1989/11901,

16-17=-38/289, 7-17=-630/129, 15-16=-91/543, 14-15=-49/326, 13-14=-58/377,

10-13=-511/3132, 12-13=-448/2790

WEBS 1-22=-816/4853, 2-22=-2752/483, 2-20=-964/5706, 3-20=-336/88, 4-20=-3272/555, 4-19=-94/700, 4-18=-173/864, 6-18=-340/88, 7-18=-170/813, 15-17=-843/5108,

8-17=-1137/6742, 8-15=-1962/350, 13-15=-887/5332, 8-13=-3007/515, 10-12=-4287/724

NOTES-

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

Top chords connected as follows: 2x4 - 1 row at 0-7-0 oc.

Bottom chords connected as follows: 2x4 - 1 row at 0-6-0 oc.

Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.

- 2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- 3) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; B=45ft; L=34ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 4) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 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, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- 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) Refer to girder(s) for truss to truss connections.
- 9) Bearing at joint(s) 23 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.

Continued on page 2



ROLL STONAL

OF MISSO

SCOTT M.

SEVIER

NUMBER

PE-2001018807

June 26,2020

2-0-0 oc purlins (3-8-0 max.): 1-11, except end verticals.

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

Job	Truss	Truss Type	Qty	Ply	Summit/Stoney Creek #86	
2387107	Δ1	Roof Special Girder	1	_		I41826257
2307 107		1001 Special Gilder	'	2	Job Reference (optional)	

Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Jun 26 12:07:49 2020 Page 2 ID:VPVqvFnP0P0b1j2tZrlOqezdKbx-jnOJJvloZ5BnkhGzoWxxpGj6LXPxKa14NUTpg?z2Q2O

- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 598 lb uplift at joint 23 and 597 lb uplift at joint 12.
- 11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 13) Use Simpson Strong-Tie LUS24 (4-10d Girder, 2-10d Truss, Single Ply Girder) or equivalent spaced at 2-3-4 oc max. starting at 4-0-0 from the left end to 34-2-14 to connect truss(es) to front face of bottom chord.
- 14) Fill all nail holes where hanger is in contact with lumber.
- 15) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 254 lb down and 43 lb up at 0-1-12 on top chord, and 252 lb down and 68 lb up at 2-0-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

Vert: 1-11=-61, 22-23=-20, 17-22=-20, 14-16=-20, 12-13=-20

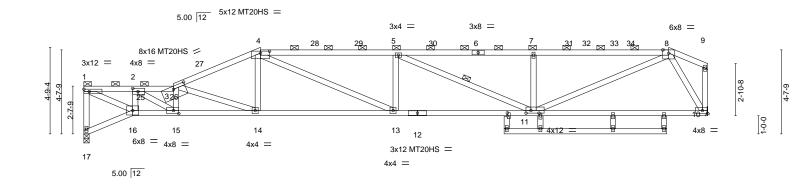
Concentrated Loads (lb)

Vert: 1=-254 12=-262(F) 14=-223(F) 20=-254(F) 18=-254(F) 28=-252(F) 29=-254(F) 30=-254(F) 31=-254(F) 32=-254(F) 33=-254(F) 34=-254(F) 35=-254(F) 36=-254(F) 37=-223(F) 38=-223(F) 39=-223(F) 40=-223(F)



Job Truss Truss Type Qty Summit/Stoney Creek #86 141826258 2387107 A2 Roof Special Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Jun 26 12:07:51 2020 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:VPVqvFnP0P0b1j2tZrlOqezdKbx-f9W4kbJ35iRVz?QLwxzPvhpPHL3BoVuMqoywktz2Q2M

Scale: 3/16"=1'



				25-2-0			
2-8-5 4-1	11-4 9-8-13	17-2-4	23-2-0	24-9-7	29-2-0	32-1-8 34-4-10	
2-8-5 2-2	2-15 4-9-9	7-5-7	5-11-12	1-7-7 0-4-9	4-0-0	2-11-8 2-3-2	
Plate Offsets (X,Y) [2:0-3-8,0	0-2-0], [3:0-8-0,0-1-15], [4:0-6-0,0-1-5],	[11:0-3-4,0-1-12], [11:0-1-	12,0-1-0], [15:0-3-	8,0-2-0], [18:0-2-0),0-0-0]		
TCLL (roof) 25.0 Snow (Pf/Pg) 20.4/20.0 TCDL 10.0 BCLL 0.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES	CSI. TC 0.84 BC 0.78 WB 0.74	DEFL. Vert(LL) Vert(CT) Horz(CT)	-0.38 13 >	/defl L/d 999 240 600 180 n/a n/a	PLATES MT20 MT20HS	GRIP 197/144 148/108
BCDL 10.0	Code IRC2018/TPI2014	Matrix-AS				Weight: 157 lb	FT = 20%

BOT CHORD

WEBS

LUMBER-**BRACING-**TOP CHORD

4-9-9

TOP CHORD 2x4 SPF No.2 *Except*

4-6: 2x4 SP 2400F 2.0E, 6-8: 2x4 SPF 1650F 1.5E

BOT CHORD 2x4 SPF No.2 *Except*

12-16,10-12: 2x4 SPF 1650F 1.5E

WEBS 2x4 SPF No.2

REACTIONS. (size) 17=0-3-8, 10=Mechanical

Max Horz 17=111(LC 13)

Max Uplift 17=-124(LC 16), 10=-125(LC 16) Max Grav 17=1566(LC 40), 10=1615(LC 40)

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

TOP CHORD $1-17 = -1530/225, \ 1-2 = -2704/411, \ 2-3 = -4562/633, \ 3-4 = -3571/450, \ 4-5 = -4381/493, \ 4-5 = -438$

5-7=-3611/385, 7-8=-3614/386

BOT CHORD 15-16=-517/2850, 14-15=-705/4449, 13-14=-462/3274, 11-13=-509/4378, 10-11=-159/977 WEBS

1-16=-419/3018, 2-16=-1349/187, 2-15=-239/2033, 3-15=-1044/153, 3-14=-1287/253,

4-14=-20/535, 4-13=-88/1213, 5-13=-363/99, 5-11=-838/117, 8-10=-1842/310,

7-11=-683/141, 8-11=-267/2894

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 1) Orbital ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-1-12 to 3-1-12, Interior(1) 3-1-12 to 9-8-13, Exterior(2R) 9-8-13 to 12-8-13, Interior(1) 12-8-13 to 32-2-14, Exterior(2E) 32-2-14 to 34-2-14 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) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 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, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- 4) Unbalanced snow loads have been considered for this design.
- 5) Provide adequate drainage to prevent water ponding.
- 6) All plates are MT20 plates unless otherwise indicated.
- 7) All plates are 2x4 MT20 unless otherwise indicated.
- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 9) Refer to girder(s) for truss to truss connections.
- 10) Bearing at joint(s) 17 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 124 lb uplift at joint 17 and 125 lb uplift at joint 10.
- 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.





SSIONAL

Structural wood sheathing directly applied, except end verticals, and

2-0-0 oc purlins (2-2-0 max.): 1-3, 4-8.

Rigid ceiling directly applied.

1 Row at midpt

🗥 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 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 permanent. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



OF MISS

SCOTT M.

SEVIER

PE-2001018807

June 26,2020

Job	Truss	Truss Type	Qty	Ply	Summit/Stoney Creek #86
2207407	100	Boot Special	4	_	I41826258
2387107	A2	Roof Special	1	1	Job Reference (optional)

Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Jun 26 12:07:51 2020 Page 2 ID:VPVqvFnP0P0b1j2tZrlOqezdKbx-f9W4kbJ35iRVz?QLwxzPvhpPHL3BoVuMqoywktz2Q2M

NOTES-

- 13) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 14) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



Job Truss Truss Type Qty Summit/Stoney Creek #86 141826259 2387107 **A3** Hip Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Jun 26 12:07:53 2020 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:VPVqvFnP0P0b1j2tZrlOqezdKbx-bYeq9GLJdKiDCJak1L0t_6uoN8jMGT7fl5R1pmz2Q2K

5-7-3

23-4-0

5-7-3

Scale = 1:63.2

31-11-4 34-4-10

2-5-6

2-1-3

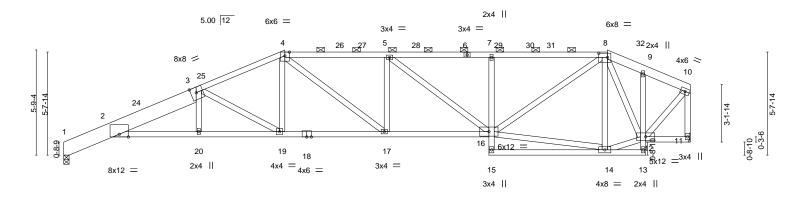
Structural wood sheathing directly applied, except end verticals, and

2-0-0 oc purlins (2-8-13 max.): 4-8.

Rigid ceiling directly applied.

29-10-1

6-6-1



2-8-5	7-4-15	12-1-10	17-8-13	23-4-0	1	29-10-1	31-11-4 34-4-10	
2-8-5	4-8-10	4-8-10	5-7-3	5-7-3	l	6-6-1	2-1-3 2-5-6	
Plate Offsets (X,Y) [3:0-3-8,I	Edge], [8:0-5-12,	0-2-12]						
LOADING (psf) TCLL (roof) 25.0 Snow (Pf/Pg) 20.4/20.0 TCDL 10.0 BCLL 0.0 BCDL 10.0	SPACING Plate Grip Lumber D Rep Stres Code IRO	DOL 1.15	CSI. TC 0.61 BC 0.92 WB 0.50 Matrix-AS	Vert(CT) -0		l/defl L/d >999 240 >841 180 n/a n/a	PLATES MT20 Weight: 182 lb	GRIP 197/144 FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-TOP CHORD 2x4 SPF No.2 *Except*

8-10: 2x6 SPF No.2, 1-3: 2x10 SP 2400F 2.0E

4-8-10

4-8-10

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

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

Max Horz 1=134(LC 15)

Max Uplift 11=-125(LC 16), 1=-116(LC 16) Max Grav 11=1536(LC 2), 1=1552(LC 2)

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

1-2=-588/78, 2-3=-3791/455, 3-4=-3046/384, 4-5=-3054/398, 5-7=-2690/350, TOP CHORD 7-8=-2679/352, 8-9=-955/183, 9-10=-1009/162, 10-11=-1484/195

2-20=-516/3619, 19-20=-514/3625, 17-19=-362/2745, 16-17=-377/3052, 7-16=-524/114

WEBS 3-19=-1071/170, 4-19=-35/594, 4-17=-39/620, 5-17=-255/99, 5-16=-540/59,

14-16=-156/1028, 8-16=-218/1867, 8-14=-460/128, 12-14=-130/1135, 8-12=-706/57,

10-12=-167/1332

NOTES-

BOT CHORD

- 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=4.2psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-1-12 to 3-4-11, Interior(1) 3-4-11 to 12-1-10, Exterior(2R) 12-1-10 to 16-4-8, Interior(1) 16-4-8 to 29-10-1, Exterior(2E) 29-10-1 to 34-2-14 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) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 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, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- 4) Unbalanced snow loads have been considered for this design.
- 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) Refer to girder(s) for truss to truss connections.
- 8) Bearing at joint(s) 1 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 125 lb uplift at joint 11 and 116 lb uplift at joint 1.
- 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) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



June 26,2020



MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.



Job Truss Truss Type Qty Summit/Stoney Creek #86 141826260 2387107 A4 Hip Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Jun 26 12:07:55 2020 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:VPVqvFnP0P0b1j2tZrlOqezdKbx-YwlbayMZ9xyxSck79m2L3Xz5cyOgkG8ylPw7tfz2Q2l

6-4-9

27-4-6

6-4-9

7-3-10

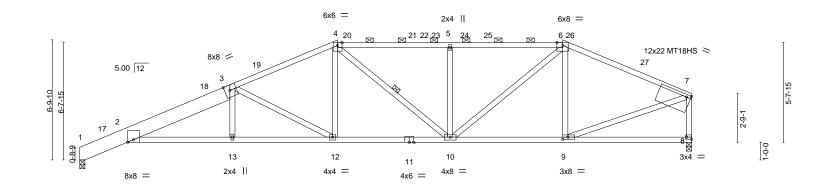
Structural wood sheathing directly applied, except end verticals, and

2-0-0 oc purlins (3-1-9 max.): 4-6.

Rigid ceiling directly applied.

1 Row at midpt

Scale = 1:65.3



2	2-8-5	8-7-13	14-7-5	1	20-11-13			27-4-6	i	1	3	34-8-0		
2	2-8-5	5-11-8	5-11-8		6-4-9	ı		6-4-9			7	7-3-10	1	
Plate Offsets (X,Y) [3:0-3-8,	Edge], [7:0-3-0,0-1-12	2], [8:Edge,0-1-8], [9:0-3-8,0-1-	-8]									
LOADING (psf) TCLL (roof) Snow (Pf/Pg) 20. TCDL BCLL	25.0 .4/20.0 10.0 0.0	SPACING- Plate Grip DOI Lumber DOL Rep Stress Inc	1.15 or YES	CSI. TC BC WB	0.82 1.00 0.92	Ver	FL. t(LL) t(CT) rz(CT)	in -0.24 -0.44 1 0.20	(loc) 13 2-13 8	l/defl >999 >935 n/a	L/d 240 180 n/a		PLATES MT20 MT18HS	GRIP 197/144 197/144
BCDL	10.0	Code IRC2018	8/TPI2014	Matr	ix-AS								Weight: 162 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

WEBS

LUMBER-

REACTIONS.

TOP CHORD 2x4 SPF No.2 *Except*

1-3: 2x10 SP 2400F 2.0E

BOT CHORD 2x4 SPF No.2

WEBS 2x4 SPF No.2

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

Max Horz 1=143(LC 15)

Max Uplift 1=-117(LC 16), 8=-126(LC 16) Max Grav 1=1565(LC 2), 8=1548(LC 2)

5-11-8

5-11-8

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

1-2=-593/70, 2-3=-3619/436, 3-4=-2727/360, 4-5=-2428/354, 5-6=-2428/354, TOP CHORD

6-7=-1881/258 7-8=-1478/219

BOT CHORD 2-13=-480/3423, 12-13=-478/3429, 10-12=-310/2432, 9-10=-211/1667 **WEBS**

3-12=-1239/186, 4-12=-30/673, 5-10=-641/123, 6-10=-118/1078, 6-9=-420/123,

7-9=-178/1647

- 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=4.2psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-1-12 to 3-4-11, Interior(1) 3-4-11 to 14-7-5, Exterior(2R) 14-7-5 to 18-10-3, Interior(1) 18-10-3 to 27-4-6, Exterior(2R) 27-4-6 to 31-7-5, Interior(1) 31-7-5 to 34-6-4 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
- 3) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 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, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- 4) Unbalanced snow loads have been considered for this design.
- 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) Bearing at joint(s) 1 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 117 lb uplift at joint 1 and 126 lb uplift at joint 8.
- 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.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



June 26,2020

MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.



Job Truss Truss Type Qty Summit/Stoney Creek #86 141826261 B1 2387107 Hip 1 Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Jun 26 12:07:56 2020 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:VPVqvFnP0P0b1j2tZrlOqezdKbx-07JznINBwF4o3mJJjUZackWHbMIVTn65_3ghP5z2Q2H 20-11-13 25-0-8 29-8-8 34-8-0

4-0-10

4-0-10

4-8-0

Structural wood sheathing directly applied, except end verticals, and

3-12, 7-9

2-0-0 oc purlins (3-9-15 max.): 4-6.

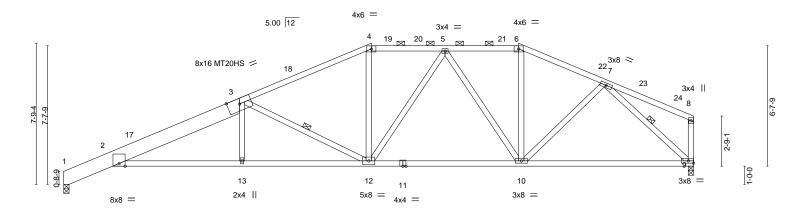
Rigid ceiling directly applied.

1 Row at midpt

4-11-8

7-1-7

Scale: 3/16"=1'



2-8-5	9-9-12	16-1	-	25-0-8			34-8		
2-8-5	7-1-7	7-1-	1-7 '	8-1-4			9-7-	-8 '	
LOADING (psf) TCLL (roof) 25.0 Snow (Pf/Pg) 20.4/20.0 TCDL 10.0 BCLL 0.0 BCDL 10.0	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr Code IRC2018/TF	2-0-0 1.15 1.15 YES PI2014	CSI. TC 0.74 BC 0.89 WB 0.68 Matrix-AS	DEFL. Vert(LL) Vert(CT) Horz(CT)	in (loc) -0.25 13-16 -0.47 13-16 0.22 9	l/defl >999 >878 n/a	L/d 240 180 n/a	PLATES MT20 MT20HS Weight: 169 lb	GRIP 197/144 148/108 FT = 20%

BRACING-

TOP CHORD

BOT CHORD

WEBS

LUMBER-TOP CHORD

2x4 SPF No.2 *Except*

1-3: 2x10 SP 2400F 2.0E

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

REACTIONS. (size) 9=0-3-8, 1=0-3-8

Max Horz 1=159(LC 15) Max Uplift 9=-126(LC 16), 1=-117(LC 16) Max Grav 9=1548(LC 2), 1=1565(LC 2)

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

1-2=-594/70, 2-3=-3454/419, 3-4=-2410/336, 4-5=-2122/340, 5-6=-1689/286, TOP CHORD

6-7=-1893/286

BOT CHORD 2-13=-452/3244, 12-13=-450/3251, 10-12=-255/2008, 9-10=-207/1413 **WEBS** 3-13=0/281, 3-12=-1381/208, 4-12=-20/518, 5-12=-64/329, 5-10=-668/109,

6-10=-22/406, 7-10=0/492, 7-9=-1849/265

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=4.2psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-1-12 to 3-4-11, Interior(1) 3-4-11 to 16-11-3, Exterior(2R) 16-11-3 to 20-11-13, Interior(1) 20-11-13 to 25-0-8, Exterior(2R) 25-0-8 to 29-3-6, Interior(1) 29-3-6 to 34-6-4 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
- 3) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 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, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- 4) Unbalanced snow loads have been considered for this design.
- 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) Bearing at joint(s) 1 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 126 lb uplift at joint 9 and 117 lb uplift at joint 1.
- 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) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum
- sheetrock be applied directly to the bottom chord.

12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



June 26,2020



MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.



Job Truss Truss Type Qty Summit/Stoney Creek #86 141826262 2387107 B2 Hip Job Reference (optional) Builders FirstSource (Valley Center), Valley Center, KS - 67147, 8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Jun 26 12:07:58 2020 Page 1 ID:VPVqvFnP0P0b1j2tZrlOqezdKbx-yVRjC_PSSsKVJ4Shqvb2h9beP9POxbqORN9nU_z2Q2F 22-7-11 28-7-13 34-8-0

3-3-11

6-0-3

28-7-13

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

Rigid ceiling directly applied.

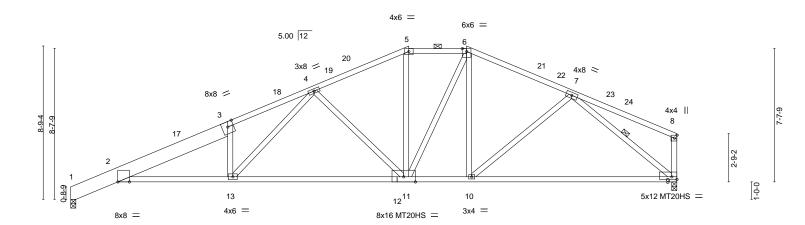
1 Row at midpt

6-0-3

Structural wood sheathing directly applied, except end verticals, and

5-5-1

Scale = 1:65.9



10-2-8 4-7-3 Plate Offsets (X,Y)--[2:0-7-15, Edge], [9: Edge, 0-1-12], [11:0-1-12, 0-0-0], [12:0-0-0, 0-1-12] LOADING (psf) SPACING-2-0-0 DEFL. in (loc) I/defl L/d **PLATES** GRIP TCLL (roof) 25.0Plate Grip DOL 1.15 TC 0.65 Vert(LL) -0.47 9-10 >877 240 MT20 197/144 Snow (Pf/Pg) 20.4/20.0 Lumber DOL 1.15 BC 1.00 Vert(CT) -0.97 9-10 >424 180 MT20HS 148/108 **TCDL** 10.0 Rep Stress Incr YES WB 0.98 Horz(CT) 0.22 n/a n/a **BCLL** 0.0 Code IRC2018/TPI2014 Weight: 171 lb FT = 20%Matrix-AS BCDL 10.0

BRACING-

TOP CHORD

BOT CHORD

WEBS

22-7-11

LUMBER-

2x4 SPF No.2 *Except* TOP CHORD

1-3: 2x10 SP 2400F 2.0E

BOT CHORD 2x4 SPF No.2

WEBS 2x4 SPF No.2 REACTIONS.

(size) 9=0-3-8, 1=0-3-8 Max Horz 1=175(LC 15)

Max Uplift 9=-126(LC 16), 1=-117(LC 16) Max Grav 9=1664(LC 39), 1=1565(LC 2)

6-5-3

4-9-7

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

1-2=-604/69, 2-3=-3696/384, 3-4=-3806/465, 4-5=-2115/318, 5-6=-1864/317, TOP CHORD

6-7=-1960/293, 8-9=-273/61

BOT CHORD 2-13=-424/3477, 11-13=-340/2599, 10-11=-180/1715, 9-10=-224/1631 **WEBS** 4-13=-113/1249, 4-11=-1019/182, 5-11=-41/508, 6-11=-71/471, 7-10=0/337,

7-9=-1974/285, 3-13=-712/159

- 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=4.2psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-1-12 to 3-4-11, Interior(1) 3-4-11 to 19-4-0, Exterior(2E) 19-4-0 to 22-7-11, Exterior(2R) 22-7-11 to 26-10-10, Interior(1) 26-10-10 to 34-6-4 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
- 3) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 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, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- 4) Unbalanced snow loads have been considered for this design.
- 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) Bearing at joint(s) 1 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 126 lb uplift at joint 9 and 117 lb uplift at joint 1.
- 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) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum
- sheetrock be applied directly to the bottom chord. 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



June 26,2020

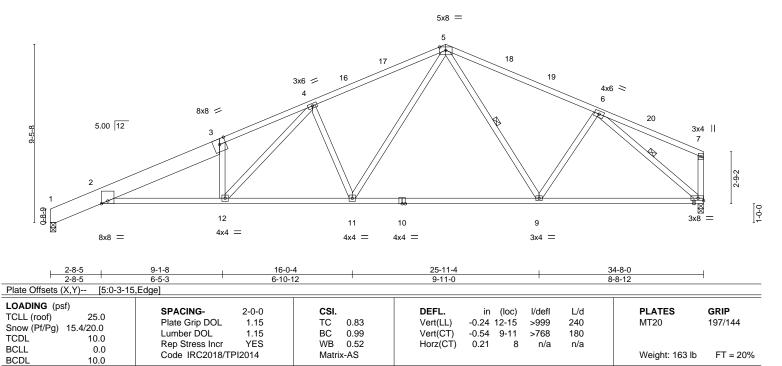
MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.



Job Truss Truss Type Qty Summit/Stoney Creek #86 141826263 2387107 ВЗ Roof Special Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Jun 26 12:07:59 2020 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147,

ID:VPVqvFnP0P0b1j2tZrlOqezdKbx-Qi?5QKP4DASMwE1uOc6HDN8nMZlng9MYg1uL0Qz2Q2E 20-11-13 28-11-13 34-8-0 7-0-14 8-0-0 5-8-3

Scale = 1:61.1



BRACING-

TOP CHORD

BOT CHORD

WEBS

LUMBER-

REACTIONS.

TOP CHORD 2x4 SPF No.2 *Except*

1-3: 2x10 SP 2400F 2.0E

BOT CHORD 2x4 SPF No.2

WEBS 2x4 SPF No.2

> (size) 1=0-3-8, 8=0-3-8 Max Horz 1=188(LC 15)

Max Uplift 1=-117(LC 16), 8=-126(LC 16) Max Grav 1=1565(LC 2), 8=1548(LC 2)

6-5-3

4-9-7

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. $1\hbox{-}2\hbox{--}612/73,\ 2\hbox{-}3\hbox{--}3492/385,\ 3\hbox{-}4\hbox{--}3580/460,\ 4\hbox{-}5\hbox{--}2451/375,\ 5\hbox{-}6\hbox{--}1871/297}$ TOP CHORD **BOT CHORD** 2-12=-421/3283, 11-12=-323/2503, 9-11=-183/1578, 8-9=-213/1543

WEBS 4-12=-135/1106, 4-11=-881/197, 5-11=-127/1159, 5-9=-65/255, 6-9=-24/305,

6-8=-1977/258, 3-12=-676/144

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=4.2psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-1-12 to 3-4-11, Interior(1) 3-4-11 to 20-11-13, Exterior(2R) 20-11-13 to 23-11-13, Interior(1) 23-11-13 to 34-6-4 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
- 3) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 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 a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) Bearing at joint(s) 1 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 117 lb uplift at joint 1 and 126 lb uplift at joint 8.
- 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) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



Structural wood sheathing directly applied, except end verticals.

5-9, 6-8

Rigid ceiling directly applied

1 Row at midpt

June 26,2020



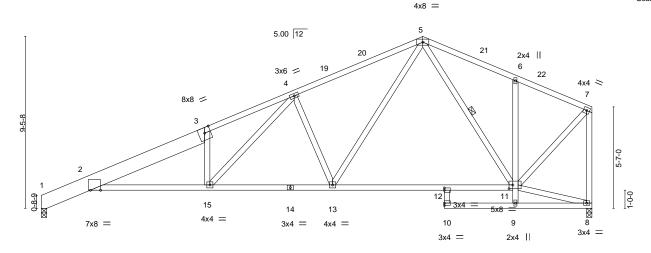
M WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.



Job Truss Truss Type Qty Summit/Stoney Creek #86 141826264 C1 2387107 Roof Special Job Reference (optional)
8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Jun 26 12:08:00 2020 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147,

ID:VPVqvFnP0P0b1j2tZrlOqezdKbx-uuZTdgQizTaDYOc4yKeWmag?7z9ZPd3hvheuYsz2Q2D 20-11-13 26-1-0 30-3-8 6-5-3 4-9-7 7-0-14 5-1-3 4-2-8

Scale: 3/16"=1'



2-8-5 6-10-12 Plate Offsets (X,Y)--[2:0-6-11,Edge], [11:0-2-8,0-2-8], [12:0-0-0,0-1-8] LOADING (psf) SPACING-CSI. DEFL. in (loc) I/defl L/d **PLATES** GRIP 25.0 TCLL (roof) Plate Grip DOL 1.15 TC 0.64 Vert(LL) -0.20 15-18 >999 240 MT20 197/144 15.4/20.0 Snow (Pf/Pg) Lumber DOL 1.15 ВС 0.76 Vert(CT) -0.41 12-13 >868 180 10.0 Rep Stress Incr YES WB 0.49 Horz(CT) 0.18 8 n/a n/a 0.0 Code IRC2018/TPI2014 FT = 20% Weight: 165 lb

BRACING-

WEBS

TOP CHORD

BOT CHORD

16-0-4

Matrix-AS

LUMBER-

TCDL

BCLL

BCDL

2x4 SPF No.2 *Except* TOP CHORD

10.0

1-3: 2x10 SP 2400F 2.0E

BOT CHORD 2x4 SPF No.2

WEBS 2x4 SPF No.2

REACTIONS. (size) 8=0-3-8, 1=0-3-8

Max Horz 1=247(LC 15)

Max Uplift 8=-111(LC 16), 1=-100(LC 16) Max Grav 8=1352(LC 2), 1=1368(LC 2)

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

1-2=-590/96, 2-3=-2905/346, 3-4=-2978/425, 4-5=-1898/339, 5-6=-991/239, TOP CHORD

6-7=-978/175 7-8=-1358/193

BOT CHORD 2-15=-490/2729, 13-15=-379/1987, 12-13=-215/1067, 11-12=-141/1184, 9-10=-286/0 9-11=0/321, 6-11=-361/121, 7-11=-166/1226, 5-11=-459/103, 3-15=-636/159, **WEBS**

5-13=-158/1139, 4-13=-872/218, 4-15=-153/1053

- 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=4.2psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-1-12 to 3-4-11, Interior(1) 3-4-11 to 20-11-13, Exterior(2R) 20-11-13 to 23-11-13, Interior(1) 23-11-13 to 30-1-12 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 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 a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) Bearing at joint(s) 1 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 111 lb uplift at joint 8 and 100 lb uplift at ioint 1.
- 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) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



30-3-8

Structural wood sheathing directly applied, except end verticals.

26-1-0

Rigid ceiling directly applied

1 Row at midpt

June 26,2020



MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.



Job Truss Truss Type Qty Summit/Stoney Creek #86 141826265 2387107 C2 Hip Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Jun 26 12:08:02 2020 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147,

ID:VPVqvFnP0P0b1j2tZrlOqezdKbx-qHgE2LSyV5qxnhmT3kg_r?mHNmpWtPy_M?7?dlz2Q2B 24-2-0

Structural wood sheathing directly applied, except end verticals, and

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

10-0-0 oc bracing: 11-12

Rigid ceiling directly applied. Except:

1-6-5 Scale = 1:66.8 4x6 = 6x8 = 5.00 12 5 8x16 MT20HS > 3x8 = 27

8x8 = 3 2-7-0 9 0-8-0 11 10 16 14 15 4x4 = 4x8 = 8 9 2x4 || 7x8 = 4x6 = 13 3x4 || 2x4 | 2x4 = 2x4 || 2x4 || 4x4 = 4x4 ||

24-2-0

Plate Offsets (X,Y) [2:0-	6-11,Eagej, [7:0-3-0,0-1-12]			
LOADING (psf) TCLL (roof) 25.0 Snow (Pf/Pg) 20.4/20.0 TCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES	CSI. TC 0.85 BC 0.86 WB 0.97	DEFL. in (loc) l/defl L/d Vert(LL) -0.27 14-16 >999 240 Vert(CT) -0.60 14-16 >600 180 Horz(CT) 0.17 8 n/a n/a	PLATES GRIP MT20 197/144 MT20HS 148/108
BCLL 0.0	Code IRC2018/TPI2014	Matrix-AS		Weight: 173 lb FT = 20%

BRACING-TOP CHORD

BOT CHORD

LUMBER-TOP CHORD

2x4 SPF No.2 *Except* 1-3: 2x10 SP 2400F 2.0E **BOT CHORD** 2x4 SPF No.2 *Except*

8-13: 2x4 SP 2400F 2.0E **WEBS** 2x4 SPF No.2 *Except* 7-8: 2x4 SP 2400F 2.0E

REACTIONS. (size) 8=0-3-8, 1=0-3-8

Max Horz 1=234(LC 15)

Max Uplift 8=-98(LC 16), 1=-96(LC 16) Max Grav 8=1448(LC 39), 1=1377(LC 2)

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

TOP CHORD 1-2=-585/92, 2-3=-3099/293, 3-4=-3196/373, 4-5=-1557/241, 5-6=-1348/241,

6-7=-1301/209, 8-10=-1381/184, 7-10=-1363/186 2-16=-448/2914, 14-16=-358/2073, 12-14=-191/1103

BOT CHORD WFBS

4-16=-122/1196, 4-14=-1009/189, 5-14=-24/345, 6-12=-485/123, 7-12=-129/1177,

6-14=-78/662, 3-16=-680/163

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 1) Orbital ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-1-12 to 3-4-11, Interior(1) 3-4-11 to 19-4-0, Exterior(2E) 19-4-0 to 22-7-11, Exterior(2R) 22-7-11 to 26-10-10, Interior(1) 26-10-10 to 30-1-12 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 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, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- 4) Unbalanced snow loads have been considered for this design.
- 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) Bearing at joint(s) 1 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 98 lb uplift at joint 8 and 96 lb uplift at 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) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum
- sheetrock be applied directly to the bottom chord. 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

16023 Swingley Ridge Rd Chesterfield, MO 63017

SSIONAL

OF MISS

SCOTT M.

SEVIER

PE-2001018807

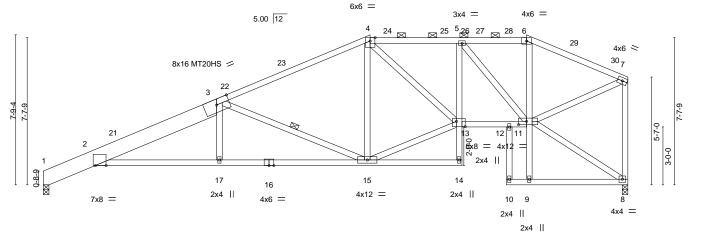
June 26,2020

MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.



ID:VPVqvFnP0P0b1j2tZrlOqezdKbx-nfo_T1TC1i4f1?wrB9iSwQreLaWPLQ?HqJc6idz2Q29 24-0-0 25-0-7 2-3-11 1-0-7 16-11-3 21-8-5 2-8-5 6-5-3 7-9-11 4-9-2

Scale = 1:59.7



1 2-8-5	9-1-8	16-11-3	1 21-8-5 1 24-0-0 25-0-7 ₁ 26-5-8	30-3-8
2-8-5	6-5-3	7-9-11	4-9-2 2-3-11 1-0-7 1-5-0	3-10-0
Plate Offsets (X,Y) [2:0-6-1	1,Edge], [11:0-5-0,0-2-0], [13:0-5-8,0-	3-4]		
LOADING (psf) TCLL (roof) 25.0 Snow (Pf/Pg) 20.4/20.0 TCDL 10.0 BCLL 0.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES	CSI. TC 0.82 BC 0.76 WB 0.56	DEFL. in (loc) l/defl L/d Vert(LL) -0.20 17-20 >999 240 Vert(CT) -0.39 15-17 >933 180 Horz(CT) 0.24 8 n/a n/a	PLATES GRIP MT20 197/144 MT20HS 148/108
BCDL 10.0	Code IRC2018/TPI2014	Matrix-AS		Weight: 172 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

WEBS

LUMBER-

REACTIONS.

TOP CHORD 2x4 SPF No.2 *Except*

1-3: 2x10 SP 2400F 2.0E

BOT CHORD 2x4 SPF No.2

WEBS 2x4 SPF No.2

(size) 8=0-3-8, 1=0-3-8 Max Horz 1=218(LC 15)

Max Uplift 8=-111(LC 16), 1=-100(LC 16) Max Grav 8=1352(LC 2), 1=1368(LC 2)

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

1-2=-571/94, 2-3=-3038/357, 3-4=-1865/269, 4-5=-1939/335, 5-6=-1331/244, TOP CHORD

6-7=-1493/237. 7-8=-1304/233

BOT CHORD $2\text{-}17\text{=-}509/2865,\ 15\text{-}17\text{=-}506/2873,\ 5\text{-}13\text{=-}45/549,\ 12\text{-}13\text{=-}360/1939,\ 11\text{-}12\text{=-}358/1933}$ **WEBS** 3-17=0/299, 3-15=-1488/233, 13-15=-312/1722, 4-13=-92/507, 5-11=-1022/147,

6-11=0/331, 7-11=-240/1437

- 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=4.2psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-1-12 to 3-4-11, Interior(1) 3-4-11 to 16-11-3, Exterior(2R) 16-11-3 to 21-2-2, Interior(1) 21-2-2 to 25-0-7, Exterior(2R) 25-0-7 to 29-3-6, Interior(1) 29-3-6 to 30-1-12 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 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, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- 4) Unbalanced snow loads have been considered for this design.
- 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) Bearing at joint(s) 1 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 111 lb uplift at joint 8 and 100 lb uplift at joint 1.
- 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.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



Structural wood sheathing directly applied, except end verticals, and

2-0-0 oc purlins (3-11-7 max.): 4-6.

Rigid ceiling directly applied.

1 Row at midpt

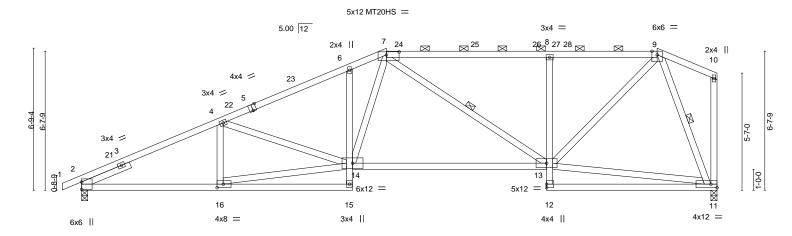
June 26,2020

MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.



Job Truss Truss Type Qty Summit/Stoney Creek #86 141826267 2387107 C4 Hip Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Jun 26 12:08:06 2020 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:VPVqvFnP0P0b1j2tZrlOqezdKbx-j2wlujVTZJKNGJ4Elakw?rwz?OBMpKmaHd5DmWz2Q27 22-2-0 7-7-10 27-5-4 30-3-8 6-7-4 6-3-12 1-7-6 5-3-4 2-10-4

Scale = 1:54.9



' 6	i-7-4	6-3-12	1-7-6	7-7-10		5-3-4	1-5-0 1-5-4	
Plate Offsets (X,Y) [2:Edge,	0-0-0], [5:0-2-0,Edge], [7:0)-7-4,0-1-12], [16:0-3-8,0-2-0]					
CADING (psf) TCLL (roof) 25.0 Snow (Pf/Pg) 20.4/20.0 TCDL 10.0 BCDL 0.0 BCDL 10.0	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr Code IRC2018/TF	2-0-0 1.15 1.15 YES 12014	CSI. TC 0.87 BC 0.80 WB 0.54 Matrix-AS	DEFL. in (lo Vert(LL) -0.24 13-7 Vert(CT) -0.54 13-7 Horz(CT)	4 >999	L/d 240 180 n/a	PLATES MT20 MT20HS Weight: 152 lb	GRIP 197/144 148/108 FT = 20%

BRACING-TOP CHORD

BOT CHORD

WEBS

22-2-0

14-6-6

LUMBER-

REACTIONS.

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

WEBS 2x4 SPF No.2 Left 2x4 SPF No.2 2-6-0 SLIDER

(size) 2=0-3-8, 11=0-3-8 Max Horz 2=205(LC 15)

Max Uplift 2=-136(LC 16), 11=-112(LC 16) Max Grav 2=1422(LC 2), 11=1356(LC 2)

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

 $2\text{-}4\text{--}2493/289,\ 4\text{-}6\text{--}2408/304,\ 6\text{-}7\text{--}2305/335,\ 7\text{-}8\text{--}1565/249,\ 8\text{-}9\text{--}1529/245}$ TOP CHORD

BOT CHORD 2-16=-409/2239, 6-14=-312/81, 13-14=-347/1920, 8-13=-649/137

WEBS 4-16=-278/117, 14-16=-375/2193, 4-14=-258/105, 7-14=-92/950, 7-13=-543/97,

11-13=-128/484, 9-13=-182/1431, 9-11=-1358/260

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=4.2psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -0-11-0 to 2-1-0, Interior(1) 2-1-0 to 14-6-6, Exterior(2R) 14-6-6 to 18-9-5, Interior(1) 18-9-5 to 27-5-4, Exterior(2E) 27-5-4 to 30-1-12 zone; cantilever left and right exposed; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

12-11-0

- 3) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 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, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- 4) Unbalanced snow loads have been considered for this design.
- 5) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- 6) Provide adequate drainage to prevent water ponding.
- 7) All plates are MT20 plates unless otherwise indicated.
- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 136 lb uplift at joint 2 and 112 lb uplift at joint 11.
- 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.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



28-10-4 | 30-3-8

Structural wood sheathing directly applied, except end verticals, and

2-0-0 oc purlins (2-11-15 max.): 7-9.

Rigid ceiling directly applied.

1 Row at midpt

June 26,2020



MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.



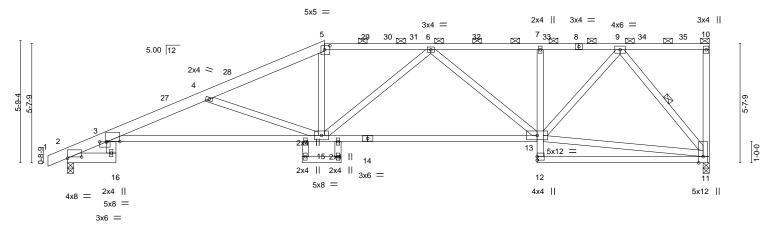
Job Truss Truss Type Qty Summit/Stoney Creek #86 141826268 2387107 C5 Half Hip Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Jun 26 12:08:07 2020 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147,

ID:VPVqvFnP0P0b1j2tZrlOqezdKbx-BEU753W5KdSEuSeQslG9Y3T76nWtYjwjWHqmlyz2Q26

Structural wood sheathing directly applied, except end verticals, and

12-11-0 1-10-0 22-2-0 5-0-3 26-1-0 3-11-0 4-4-12 4-4-12 4-2-13

Scale = 1:54.4



		12-11-0			
2-3-8	11-1-0	12-1-10	22-2-0	30-3-8	
2-3-8	8-9-8	1-0-10 b-9-6 l	9-3-0	8-1-8	
Plate Offsets (X,Y) [2:0-8-0),0-0-11], [3:0-7-2,0-0-1], [3:0-3-13,0-0-1].	, [5:0-3-0,0-2-4]			
TCLL (roof) 25.0 Snow (Pf/Pg) 20.4/20.0 TCDL 10.0 BCLL 0.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES	CSI. TC 0.91 BC 0.84 WB 0.80	DEFL. in (loc) Vert(LL) -0.35 15-26 Vert(CT) -0.72 15-26 Horz(CT) 0.34 11	l/defl L/d >999 240 >500 180 n/a n/a	PLATES GRIP MT20 197/144
BCDL 10.0	Code IRC2018/TPI2014	Matrix-AS			Weight: 154 lb FT = 20%

LUMBER-**BRACING-**

TOP CHORD 2x4 SPF No.2 *Except* TOP CHORD

1-5: 2x6 SP 2400F 2.0E 2-0-0 oc purlins (3-7-1 max.): 5-10. **BOT CHORD** 2x4 SPF No.2 *Except* **BOT CHORD** Rigid ceiling directly applied. **WEBS** 1 Row at midpt

2-16,3-16: 2x6 SPF No.2, 3-14: 2x4 SPF 1650F 1.5E **WEBS** 2x4 SPF No.2

2x4 SPF No.2 **OTHERS**

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

Max Horz 2=189(LC 15)

Max Uplift 11=-112(LC 16), 2=-133(LC 16) Max Grav 11=1437(LC 35), 2=1429(LC 2)

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

TOP CHORD $3-22=-525/82,\ 3-4=-3698/480,\ 4-5=-2646/297,\ 5-6=-2337/296,\ 6-7=-1914/243,$

7-9=-1878/245

BOT CHORD 3-15=-653/3564, 13-15=-381/2322, 7-13=-363/75

WFBS 4-15=-1383/287, 6-15=-210/271, 6-13=-599/140, 11-13=-170/933, 9-13=-135/1292,

9-11=-1667/239, 5-15=-11/657

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 1) United and the order to the to 16-4-8, Interior(1) 16-4-8 to 30-1-12 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 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, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- 4) Unbalanced snow loads have been considered for this design.
- 5) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads
- 6) Provide adequate drainage to prevent water ponding.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 112 lb uplift at joint 11 and 133 lb uplift at joint 2.
- 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) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



June 26,2020



MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.



Job Truss Truss Type Qty Summit/Stoney Creek #86 141826269 2387107 C6 HALF HIP Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Jun 26 12:08:09 2020 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147,

ID:VPVqvFnP0P0b1j2tZrlOqezdKbx-7dbtWlXLsEjy7mopzjlddUYScbEu0fe0zbJtNrz2Q24

Structural wood sheathing directly applied, except end verticals, and

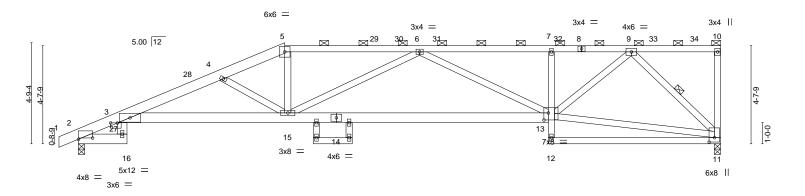
2-0-0 oc purlins (2-8-15 max.): 5-10.

Rigid ceiling directly applied.

1 Row at midpt

11-1-0 1-4-3 1-10-0 17-6-8 22-2-0 26-1-0 30-3-8 4-6-8 2-10-13 3-2-2 1-5-6 4-7-8 3-11-0 4-2-8

Scale = 1:54.3



2-3-8	9-8-13 ₁ 11-1-0	12-11-0 16-1-2	1 22-2-0	30-3-8	
2-3-8	7-5-5 1-4-3	1-10-0 3-2-2	6-0-14	8-1-8	1
Plate Offsets (X,Y) [2:0-8-0,	0-0-11], [3:0-3-13,0-0-1], [11:0-2-8,0-3-0], [13:0-2-8,0-4-0]			
LOADING (psf) TCLL (roof) 25.0 Snow (Pf/Pg) 20.4/20.0 TCDL 10.0 BCLL 0.0 BCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2018/TPI2014	CSI. TC 0.91 BC 0.68 WB 0.66 Matrix-AS	DEFL. in (loc) Vert(LL) -0.31 15-26 Vert(CT) -0.60 13-15 Horz(CT) 0.31 11	Videfi	GRIP 197/144

BRACING-

TOP CHORD

BOT CHORD

WEBS

LUMBER-TOP CHORD

2x4 SPF No.2 *Except* 1-5: 2x6 SP 2400F 2.0E

BOT CHORD 2x6 SPF No.2 *Except*

3-14: 2x6 SPF 2100F 1.8E, 11-12: 2x4 SPF No.2

WEBS 2x4 SPF No.2

2x4 SPF No.2 **OTHERS**

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

Max Horz 2=154(LC 15)

Max Uplift 11=-112(LC 16), 2=-134(LC 16) Max Grav 11=1483(LC 35), 2=1429(LC 2)

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

TOP CHORD $3-22=-503/82,\ 3-4=-3738/462,\ 4-5=-3166/350,\ 5-6=-2914/337,\ 6-7=-2659/302,$

7-9=-2651/304

BOT CHORD 3-15=-587/3557, 13-15=-481/3280 WFBS

7-13=-419/83, 5-15=-57/915, 6-15=-520/140, 6-13=-758/159, 11-13=-202/1270,

9-13=-174/1697, 9-11=-1917/261, 4-15=-855/212

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=4.2psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -0-11-0 to 1-10-9, Interior(1) 1-10-9 to 9-8-13, Exterior(2R) 9-8-13 to 13-11-11, Interior(1) 13-11-11 to 30-1-12 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 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, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- 4) Unbalanced snow loads have been considered for this design.
- 5) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- 6) Provide adequate drainage to prevent water ponding.
- 7) All plates are 2x4 MT20 unless otherwise indicated.
- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 112 lb uplift at joint 11 and 134 lb uplift
- 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) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



June 26,2020

MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.



16023 Swingley Ridge Rd Chesterfield, MO 63017

Job Truss Truss Type Qty Summit/Stoney Creek #86 141826270 C7 2387107 Half Hip Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Jun 26 12:08:11 2020 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:VPVqvFnP0P0b1j2tZrlOqezdKbx-4?jexQZbOszfN4yB57K5iveo5PtHUb0JRvozRjz2Q22

2-7-12

1-11-12

3-9-0

1-10-0

22-2-0

4-7-8

26-1-0

3-11-0

Structural wood sheathing directly applied, except end verticals, and

2-0-0 oc purlins (2-9-14 max.): 5-10.

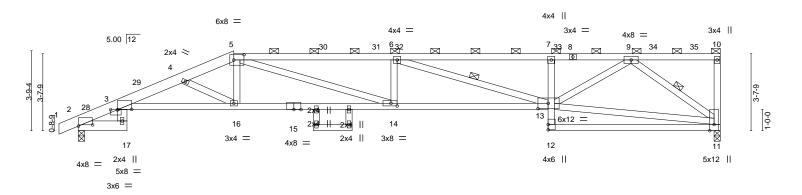
Rigid ceiling directly applied.

1 Row at midpt

Scale = 1:54.4

30-3-8

4-2-8



2-3-8 2-3-8	7-4-0 11-1-0 5-0-8 3-9-0	12-11-0 14-10-12 1-10-0 1-11-12	22-2-0 7-3-4	30-3-8 8-1-8	
Plate Offsets (X,Y) [2:0-8-0,	0-0-11], [3:0-7-10,0-0-1], [3:0-3-13	0-0-1], [5:0-5-12,0-3-0], [13:0-	5-12,0-3-0], [14:0-3-8,0-1-8]		
LOADING (psf) TCLL (roof) 25.0 Snow (Pf/Pg) 20.4/20.0 TCDL 10.0 BCDL 0.0 BCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2018/TPI2014	CSI. TC 0.91 BC 0.88 WB 0.54 Matrix-AS	DEFL. in (loc) Vert(LL) -0.45 14 Vert(CT) -0.78 13-14 Horz(CT) 0.40 11	l/defl L/d >813 240 >463 180 n/a n/a	GRIP 197/144 FT = 20%

BRACING-

TOP CHORD

BOT CHORD

WEBS

LUMBER-TOP CHORD 2x6 SP 2400F 2.0E *Except*

5-8: 2x4 SP 2400F 2.0E, 8-10: 2x4 SPF No.2

2x4 SPF No.2 *Except*

BOT CHORD 2-17,3-17: 2x6 SPF No.2, 3-15,13-15: 2x4 SPF 1650F 1.5E

WEBS 2x4 SPF No.2

2x4 SPF No.2 **OTHERS**

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

Max Horz 2=119(LC 15)

Max Uplift 11=-110(LC 16), 2=-134(LC 16) Max Grav 11=1522(LC 35), 2=1429(LC 2)

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

TOP CHORD 3-23=-488/82, 3-4=-4233/540, 4-5=-3628/429, 5-6=-4926/497, 6-7=-3885/377,

7-9=-3702/364

BOT CHORD 3-16=-636/4114, 14-16=-473/3421, 13-14=-545/4926, 7-13=-473/94, 11-12=-12/312 5-16=-35/568, 5-14=-111/1575, 6-13=-1092/136, 11-13=-226/1542, 9-13=-189/2189, WFBS

9-11=-2332/277, 6-14=-323/102, 4-16=-888/184

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 1) Orbital action for the loads have been considered in this design.

 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -0-11-0 to 1-10-9, Interior(1) 1-10-9 to 7-4-0, Exterior(2R) 7-4-0 to 11-6-15, Interior(1) 11-6-15 to 30-1-12 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 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, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- 4) Unbalanced snow loads have been considered for this design.
- 5) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads
- 6) Provide adequate drainage to prevent water ponding.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 110 lb uplift at joint 11 and 134 lb uplift at joint 2.
- 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) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



June 26,2020

MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.



Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Jun 26 12:08:16 2020 Page 1 ID:VPVqvFnP0P0b1j2tZrlOqezdKbx-QzWX_8dkCObyTrr9uhwGPyLhiQck9ou2aAWk6xz2Q1z

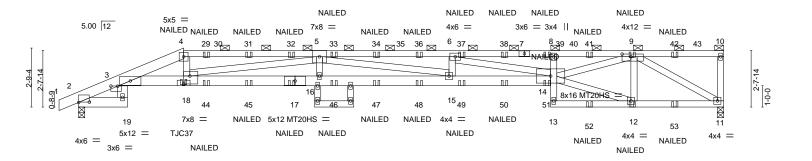
Structural wood sheathing directly applied or 6-0-0 oc purlins,

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

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

-0-11-0 ₁	2-3-8	3-8-5 4-11-3	11-1-0	11-3- ₁ 12	17-6-8	22-2-0	26-1-0	30-3-8
0-11-0	2-3-8	1-4-13 1-2-14	6-1-13	0-2-12 1-7-4	4-7-8	4-7-8	3-11-0	4-2-8

Scale = 1:54.1



					12-11-0							
	2-3-8	4-11-3	11-1-	0 1	1-3-12	17-6-8		22-2-0	-1	26-1-0	30-3-8	1
	2-3-8	2-7-11	6-1-1	3 0	-2-12 1-7-4	4-7-8	1	4-7-8	1	3-11-0	4-2-8	1
Plate Offsets	Plate Offsets (X,Y) [2:0-6-0,0-0-3], [3:0-3-13,0-0-1], [9:0-5-0,0-1-8], [18:0-3-8,0-4-8]											
LOADING (p TCLL (roof) Snow (Pf/Pg) TCDL BCLL	25.0		SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr	2-0-0 1.15 1.15 NO	CSI. TC BC WB	0.79 0.73 0.75	DEFL. Vert(LL) Vert(CT) Horz(CT)	in (loc) -0.67 15-16 -1.17 15-16 0.42 11	l/defl >544 >310 n/a	L/d 240 180 n/a	PLATES MT20 MT20HS	GRIP 197/144 148/108
BCDL	10.0		Code IRC2018/TI	212014	Matr	ix-MS					Weight: 293 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x6 SP 2400F 2.0E *Except*

4-7: 2x4 SP 2400F 2.0E, 7-10: 2x4 SPF No.2

BOT CHORD 2x4 SPF No.2 *Except*

2-19,3-19: 2x6 SPF No.2, 3-17,14-17: 2x6 SPF 2100F 1.8E **WEBS** 2x4 SPF No.2

2x4 SPF No.2 **OTHERS**

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

Max Horz 2=85(LC 11)

Max Uplift 11=-241(LC 12), 2=-285(LC 12) Max Grav 11=2098(LC 31), 2=2021(LC 2)

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

TOP CHORD 3-24=-726/112, 3-4=-7781/1008, 4-5=-7623/995, 5-6=-12185/1486, 6-8=-9569/1154,

8-9=-9071/1098

BOT CHORD 3-18=-914/7384, 16-18=-1421/11860, 15-16=-1421/11860, 14-15=-1432/12185,

8-14=-350/93, 12-13=-84/748, 11-12=-384/3267

WEBS 4-18=-241/2113, 5-18=-4326/490, 5-16=0/288, 6-15=-3/326, 6-14=-2708/343, 12-14=-313/2621, 9-14=-727/6130, 9-12=-628/148, 9-11=-3729/438, 5-15=-52/346

NOTES-

1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows: Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc, 2x4 - 1 row at 0-7-0 oc. Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc, 2x4 - 1 row at 0-9-0 oc. Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.

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

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

- 4) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 5) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 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, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.

6) Unbalanced snow loads have been considered for this design.

- This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- 8) Provide adequate drainage to prevent water ponding.
- 9) All plates are MT20 plates unless otherwise indicated.
- 10) All plates are 2x4 MT20 unless otherwise indicated.

Odntifibischesspage been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads



June 26,2020

M WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.





Job	Truss	Truss Type	Qty	Ply	Summit/Stoney Creek #86	
	Co					l41826271
2387107	C8	Half Hip Girder	1	2	Job Reference (optional)	

Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Jun 26 12:08:16 2020 Page 2 ID:VPVqvFnP0P0b1j2tZrlOqezdKbx-QzWX_8dkCObyTrr9uhwGPyLhiQck9ou2aAWk6xz2Q1z

- 12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 241 lb uplift at joint 11 and 285 lb uplift at joint 2.
- 13) 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.
- 14) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 15) Use Simpson Strong-Tie TJC37 (4 nail 90-150) or equivalent at 4-11-3 from the left end to connect truss(es) to back face of bottom chord, skewed 50.2 deg.to the right, sloping 0.0 deg. down.
- 16) Fill all nail holes where hanger is in contact with lumber.
- 17) "NAILED" indicates 2-12d (0.148"x3.25") toe-nails per NDS guidlines.

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 1-3=-51, 3-4=-51, 4-10=-61, 19-23=-20, 14-26=-20, 11-13=-20

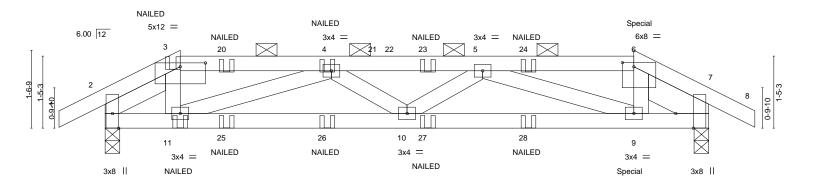
Concentrated Loads (lb)

Vert: 4=-30(B) 17=-58(B) 18=-205(B) 12=-24(B) 9=-67(B) 29=-57(B) 31=-57(B) 32=-57(B) 33=-67(B) 34=-41(B) 36=-41(B) 37=-41(B) 38=-41(B) 39=-67(B)

41=-67(B) 42=-67(B) 44=-58(B) 45=-58(B) 46=-24(B) 47=-63(B) 48=-63(B) 49=-63(B) 50=-63(B) 51=-24(B) 52=-24(B) 53=-24(B)

Job Truss Truss Type Qty Summit/Stoney Creek #86 141826272 D1 2387107 Hip Girder Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Jun 26 12:08:18 2020 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:VPVqvFnP0P0b1j2tZrlOqezdKbx-NMeHPqe_k?rgi9_X?6ykVNQ80DNzdq5L2U?rApz2Q1x 10-6-2 12-0-0 12-11-0 0-11-0 1-5-15 3-0-1 3-0-1 1-5-14 0-11-0

Scale = 1:22.9



1-5-15 1-5-15		+	10-6-2 4-6-2	12-0-0 1-5-14
Plate Offsets (X,Y) [3:0-6-0,0	0-0-15], [6:0-2-12,0-1-0], [7:0-3-8,Edge]			
TCLL (roof) 25.0 Snow (Pf/Pg) 20.4/20.0 TCDL 10.0 BCLL 0.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr NO	CSI. TC 0.35 BC 0.43 WB 0.20	DEFL. in (loc) l/defl Vert(LL) -0.05 10 >999 Vert(CT) -0.09 9-10 >999 Horz(CT) 0.01 7 n/a	L/d PLATES GRIP 240 MT20 197/144 180 n/a
BCDL 10.0	Code IRC2018/TPI2014	Matrix-MS		Weight: 48 lb FT = 20%

TOP CHORD

BOT CHORD

LUMBER-**BRACING-**

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

WEBS 2x4 SPF No.2

Left 2x4 SPF No.2 1-5-2, Right 2x6 SPF No.2 1-5-1 SLIDER

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

Max Horz 2=18(LC 11)

Max Uplift 2=-73(LC 12), 7=-73(LC 12) Max Grav 2=596(LC 2), 7=596(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-3=-966/61, 3-4=-871/61, 4-5=-1749/120, 5-6=-984/69, 6-7=-1006/64

BOT CHORD 2-11=-10/435, 10-11=-99/1245, 9-10=-98/1256, 7-9=-18/542

WEBS 3-11=0/255, 4-11=-862/94, 5-9=-759/87

- 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=4.2psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 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, Lu=50-0-0 Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- 4) Unbalanced snow loads have been considered for this design.
- 5) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- 6) Provide adequate drainage to prevent water ponding.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 73 lb uplift at joint 2 and 73 lb uplift at ioint 7.
- 9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 11) "NAILED" indicates 3-10d (0.148"x3") or 2-12d (0.148"x3.25") toe-nails per NDS guidlines.
- 12) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 81 lb down and 50 lb up at 10-7-14 on top chord, and 20 lb down and 11 lb up at 10-5-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 13) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

Continued on page 2

MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 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 permanent. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.





Structural wood sheathing directly applied or 5-7-5 oc purlins, except

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

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

June 26,2020

Job	Truss	Truss Type	Qty	Ply	Summit/Stoney Creek #86
					l41826272
2387107	D1	Hip Girder	1	1	
					Job Reference (optional)

Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Jun 26 12:08:18 2020 Page 2 ID:VPVqvFnP0P0b1j2tZrlOqezdKbx-NMeHPqe_k?rgi9_X?6ykVNQ80DNzdq5L2U?rApz2Q1x

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

Vert: 1-3=-51, 3-6=-61, 6-8=-51, 12-16=-20

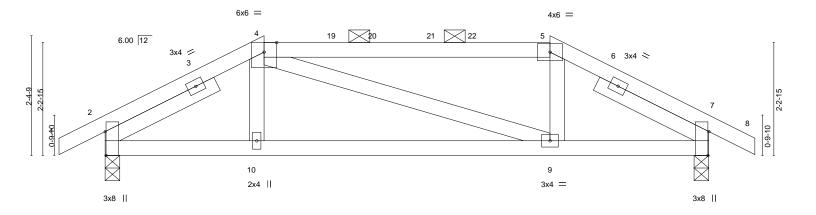
Concentrated Loads (lb)

Vert: 11=1(B) 9=1(B) 25=0(B) 26=0(B) 27=0(B) 28=0(B)



Job Truss Truss Type Qty Summit/Stoney Creek #86 141826273 D2 2387107 Hip Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Jun 26 12:08:19 2020 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:VPVqvFnP0P0b1j2tZrlOqezdKbx-rYCfc9fdVJzXKIZkZpTz1azF1dk2MKiUG8kPiGz2Q1w 12-0-0 12-11-0 0-11-0 3-1-15 5-8-3 3-1-14 0-11-0

Scale = 1:22.9



	3-1-13	0-10-2			1	12-0	J-U	
	3-1-15	5-8-3			1	3-1-	-14	
Plate Offsets (X,Y) [2:0-5-11	1,Edge], [7:0-5-11,Edge]							
LOADING (psf) TCLL (roof) 25.0 Snow (Pf/Pg) 20.4/20.0 TCDL 10.0 BCLL 0.0 BCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2018/TPI2014	CSI. TC 0.59 BC 0.37 WB 0.04 Matrix-AS	DEFL. ii Vert(LL) -0.04 Vert(CT) -0.05 Horz(CT) 0.02	9-10 9-10	I/defl >999 >999 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 47 lb	GRIP 197/144 FT = 20%

BRACING-

TOP CHORD

BOT CHORD

g_10_2

LUMBER-

TOP CHORD 2x4 SPF No.2

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

SLIDER Left 2x4 SPF No.2 2-6-0, Right 2x4 SPF No.2 2-6-0

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

Max Horz 2=38(LC 15)

Max Uplift 2=-72(LC 16), 7=-72(LC 16) Max Grav 2=604(LC 2), 7=604(LC 2)

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

2-4=-756/219, 4-5=-669/225, 5-7=-755/218 2-10=-127/674, 9-10=-130/669, 7-9=-129/673 TOP CHORD BOT CHORD

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=4.2psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -0-11-0 to 2-1-0, Interior(1) 2-1-0 to 3-1-15, Exterior(2R) 3-1-15 to 7-4-13, Interior(1) 7-4-13 to 8-10-2, Exterior(2E) 8-10-2 to 12-11-0 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) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 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, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- 4) Unbalanced snow loads have been considered for this design.
- 5) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- 6) Provide adequate drainage to prevent water ponding.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 72 lb uplift at joint 2 and 72 lb uplift at ioint 7.
- 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) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



12.0.0

Structural wood sheathing directly applied, except

2-0-0 oc purlins (5-6-9 max.): 4-5.

Rigid ceiling directly applied.

June 26,2020



M WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.



Job Truss Truss Type Qty Summit/Stoney Creek #86 141826274 D3 2387107 Hip Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Jun 26 12:08:21 2020 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:VPVqvFnP0P0b1j2tZrlOqezdKbx-nxKQ1rgt1wDFZcj6gEWR6?2i_RS6qEOnkSDVn8z2Q1u 12-0-0 12-11-0

Scale: 1/2"=1'

0-11-0

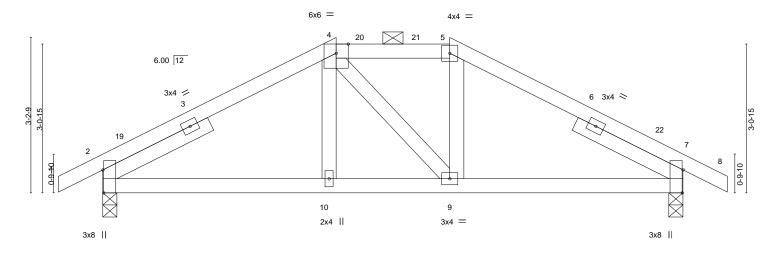
4-9-14

12-0-0

Structural wood sheathing directly applied, except

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

Rigid ceiling directly applied



	4-9-10	Z-4-	3	4-9-14		
late Offsets (X,Y) [2:0-5-11]	,Edge], [7:0-5-11,Edge]					
OADING (psf) CLL (roof) 25.0 now (Pf/Pg) 20.4/20.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15	CSI. TC 0.18 BC 0.21	DEFL. in Vert(LL) -0.01 Vert(CT) -0.02	(loc) I/defl L/d 9-10 >999 240 10-13 >999 180	PLATES GRIP MT20 197/144	

Sno TCDL Rep Stress Incr YES WB 0.03 Horz(CT) 0.01 n/a n/a **BCLL** 0.0 Code IRC2018/TPI2014 FT = 20% Weight: 47 lb Matrix-AS BCDL 10.0 LUMBER-**BRACING-**

TOP CHORD

BOT CHORD

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

0-11-0

SLIDER Left 2x4 SPF No.2 2-6-0, Right 2x4 SPF No.2 2-6-0

REACTIONS. (size) 2=0-3-8, 7=0-3-8 Max Horz 2=53(LC 15)

Max Uplift 2=-72(LC 16), 7=-72(LC 16) Max Grav 2=656(LC 39), 7=656(LC 39)

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

4-9-15

2-4=-622/209, 4-5=-558/229, 5-7=-622/209 TOP CHORD 2-10=-103/562, 9-10=-103/558, 7-9=-100/562 BOT CHORD

NOTES-

Pla LO TC

- 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=4.2psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -0-11-0 to 2-1-0, Interior(1) 2-1-0 to 4-9-15, Exterior(2E) 4-9-15 to 7-2-2, Exterior(2R) 7-2-2 to 12-0-0, Interior(1) 12-0-0 to 12-11-0 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) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 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, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- 4) Unbalanced snow loads have been considered for this design.
- 5) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- 6) Provide adequate drainage to prevent water ponding.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 72 lb uplift at joint 2 and 72 lb uplift at ioint 7.
- 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) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



June 26,2020

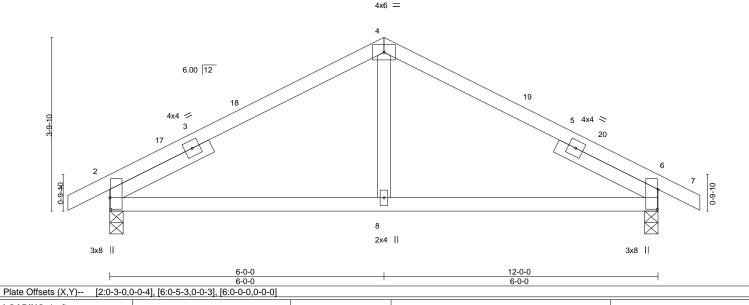


M WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.



Job Truss Truss Type Qty Summit/Stoney Creek #86 141826275 D4 2387107 Common Job Reference (optional)
8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Jun 26 12:08:22 2020 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:VPVqvFnP0P0b1j2tZrlOqezdKbx-F7uoEBhVoEL6BmlJEx1hfDbqEqmKZhGwy6z3Jbz2Q1t 12-11-0 -0-11-0 0-11-0 6-0-0 6-0-0 0-11-0

Scale = 1:25.2



LOADING (ps	sf)	SPACING-	2-0-0	CSI.	
TCLL (roof)	25.0				
Snow (Pf/Pg)	15 4/20 0	Plate Grip DOL	1.15	TC	0.34
TCDL	10.0	Lumber DOL	1.15	BC	0.27
		Rep Stress Incr	YES	WB	0.06
BCLL	0.0	Code IRC2018/TI	PI2014	Matrix	ν-Δ S
BCDL	10.0	300C 11(02010/11	12017	IVIALITA	

BRACING-

TOP CHORD **BOT CHORD**

DEFL.

Vert(LL)

Vert(CT)

Horz(CT)

in (loc)

8-11

8-11

-0.04

-0.06

0.02

Structural wood sheathing directly applied. Rigid ceiling directly applied.

I/defl

>999

>999

n/a

L/d

240

180

n/a

PLATES

Weight: 41 lb

MT20

GRIP

197/144

FT = 20%

REACTIONS.

LUMBER-

WEBS

SLIDER

TOP CHORD

BOT CHORD

(size) 2=0-3-8, 6=0-3-8 Max Horz 2=66(LC 15)

Max Uplift 2=-72(LC 16), 6=-72(LC 16) Max Grav 2=604(LC 2), 6=604(LC 2)

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

Left 2x4 SPF No.2 2-6-0, Right 2x4 SPF No.2 2-6-0

2-4=-591/231, 4-6=-591/231 TOP CHORD BOT CHORD 2-8=-91/519, 6-8=-91/519

2x4 SPF No.2

2x4 SPF No.2

2x4 SPF No.2

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=4.2psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -0-11-0 to 2-1-0, Interior(1) 2-1-0 to 6-0-0, Exterior(2R) 6-0-0 to 9-0-0 , Interior(1) 9-0-0 to 12-11-0 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) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 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 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 72 lb uplift at joint 2 and 72 lb uplift at joint 6.
- 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) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



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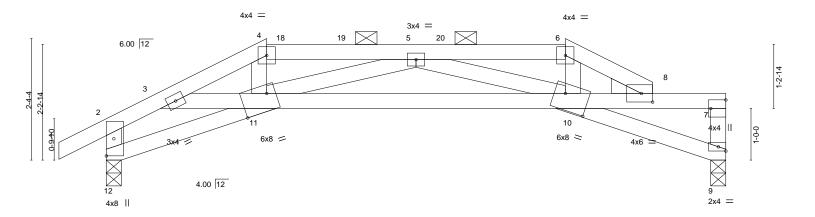


MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.



Job Truss Truss Type Qty Summit/Stoney Creek #86 141826276 2387107 Roof Special Girder Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Jun 26 12:08:23 2020 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:VPVqvFnP0P0b1j2tZrlOqezdKbx-jJSASXi7ZYTypwtVofYwCQ7?zE5xl7X4Bmicr1z2Q1s 10-7-0 8-10-11 12-0-0 0-11-0 3-1-5 2-10-11 2-10-11 1-8-4 1-5-0

Scale = 1:22.3



1	3-3-8	8-8	3-8	10-7-0	12-0-0	1			
	3-3-8	5-5	5-0	1-10-8	1-5-0	<u> </u>			
Plate Offsets (X,Y) [2:0-0-14	Plate Offsets (X,Y) [2:0-0-14,0-1-12], [7:Edge,0-3-8], [8:0-2-10,0-2-0], [10:0-5-8,0-3-12], [11:0-6-0,Edge], [12:0-0-9,0-1-12]								
LOADING (psf) TCLL (roof) 25.0 Snow (Pf/Pg) 20.4/20.0 TCDL 10.0 BCDL 0.0 BCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr NO Code IRC2018/TPI2014	CSI. TC 0.34 BC 0.38 WB 0.12 Matrix-MS	Vert(LL) -0.06 10-11	l/defl L/d >999 240 >999 180 n/a n/a	_	GRIP 197/144 FT = 20%			

TOP CHORD

BOT CHORD

LUMBER-**BRACING-**

TOP CHORD 2x4 SPF No.2 *Except* 1-4: 2x4 SP 2400F 2.0E

BOT CHORD 2x4 SPF No.2 *Except* 3-7: 2x4 SP 2400F 2.0E

2x4 SPF No.2

WEBS

WEDGE

Right: 2x4 SP No.3

REACTIONS. (size) 9=0-3-8, 12=0-3-8

Max Horz 12=67(LC 11)

Max Uplift 9=-3(LC 12), 12=-73(LC 12) Max Grav 9=658(LC 2), 12=627(LC 2)

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

TOP CHORD 2-3=-547/50, 3-4=-1431/77, 4-5=-1240/79, 5-6=-1401/45, 6-8=-1613/35, 7-9=-581/18,

2-12=-694/84

BOT CHORD 11-12=-59/324, 3-11=-22/997, 10-11=-144/1704, 8-10=-26/1268 WEBS 4-11=0/421, 5-11=-540/89, 5-10=-472/119, 6-10=0/485

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=4.2psf; h=15ft; B=45ft; L=24ft; eave=4ft: Cat. II; Exp C; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 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, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- 4) Unbalanced snow loads have been considered for this design.
- 5) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- 6) Provide adequate drainage to prevent water ponding.
- 7) Bearing at joint(s) 9, 12 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 3 lb uplift at joint 9 and 73 lb uplift at joint 12.
- 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.



Structural wood sheathing directly applied or 4-3-9 oc purlins,

except end verticals, and 2-0-0 oc purlins (4-10-5 max.): 4-6.

Rigid ceiling directly applied or 6-0-0 oc bracing.

June 26,2020

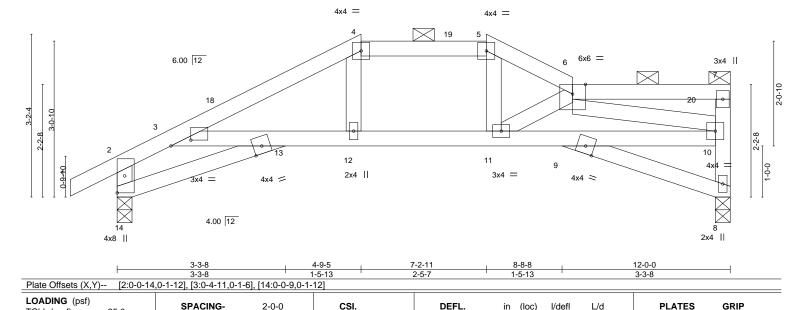


M WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.



Job Truss Truss Type Qty Summit/Stoney Creek #86 141826277 F2 2387107 Roof Special Job Reference (optional) Builders FirstSource (Valley Center), Valley Center, KS - 67147, 8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Jun 26 12:08:24 2020 Page 1 ID:VPVqvFnP0P0b1j2tZrlOqezdKbx-BW?YftjlKrbpQ4ShMM39kegAlePt1Y9DQQS9OTz2Q1r 8-11-0 12-0-0 0-11-0 3-3-8 1-5-13 1-8-4 3-1-0

Scale = 1:22.5



LUMBER-

REACTIONS.

TCLL (roof)

TCDL

BCLL

BCDL

TOP CHORD 2x4 SPF No.2

Snow (Pf/Pg) 20.4/20.0

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

25.0

10.0

10.0

0.0

(size) 8=0-3-8, 14=0-3-8

Max Horz 14=91(LC 15) Max Uplift 8=-43(LC 16), 14=-75(LC 16) Max Grav 8=524(LC 2), 14=633(LC 42)

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

Plate Grip DOL

Rep Stress Incr

Code IRC2018/TPI2014

Lumber DOL

1.15

1.15

YES

TC

ВС

WB

Matrix-AS

0.37

0.46

0.22

Vert(LL)

Vert(CT)

Horz(CT)

BRACING-

TOP CHORD

BOT CHORD

-0.06

-0.10

0.05

>999

n/a

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

13

13 >999

8

Rigid ceiling directly applied

240

180

n/a

Structural wood sheathing directly applied, except end verticals, and

MT20

Weight: 47 lb

197/144

FT = 20%

2-3=-608/279, 3-4=-974/375, 4-5=-839/374, 5-6=-964/390, 8-10=-497/193,

2-14=-678/279

 $13-14=-311/411,\ 3-13=-80/470,\ 12-13=-380/855,\ 11-12=-376/839,\ 9-11=-474/1139,$ BOT CHORD

9-10=-452/1094

WEBS 6-11=-352/142, 6-10=-1118/454

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=4.2psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -0-11-0 to 2-1-0, Interior(1) 2-1-0 to 4-9-5, Exterior(2E) 4-9-5 to 8-11-0, Interior(1) 8-11-0 to 11-10-4 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
- 3) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 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, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- 4) Unbalanced snow loads have been considered for this design.
- 5) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- 6) Provide adequate drainage to prevent water ponding.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) Bearing at joint(s) 8, 14 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 43 lb uplift at joint 8 and 75 lb uplift at joint 14.
- 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) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



June 26,2020



M WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.



Job Truss Truss Type Qty Summit/Stoney Creek #86 141826278 2387107 F3 Roof Special Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Jun 26 12:08:26 2020 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:VPVqvFnP0P0b1j2tZrlOqezdKbx-8u7J4Zk0sTsXgNb4Tn5dp3lVyR32VQEWtkxGSMz2Q1p -0-11-0 0-11-0 7-3-0 12-0-0 3-3-8 3-3-8 2-8-8 1-3-0

Scale = 1:25.6

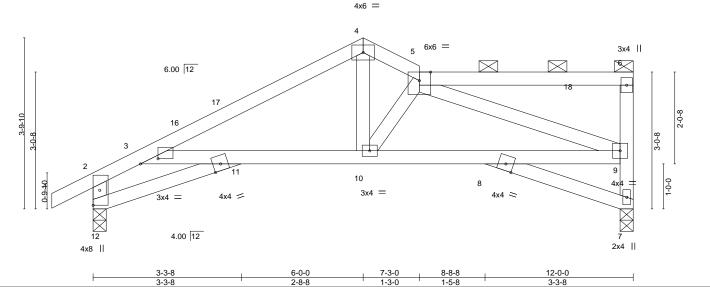


Plate Offsets (X,Y)--[2:0-0-14,0-1-12], [3:0-4-11,0-1-6], [12:0-0-9,0-1-12]

COADING (psf) CULL (roof) 25.0 Snow (Pf/Pg) 20.4/20.0 TCDL 10.0 BCLL 0.0 BCDL 10.0 BCDL 10.0 BCDL 10.0 BCDL 10.0 Code IRC2018/TPI2014 IRC2018/TPI2014	CSI. TC 0.36 BC 0.60 WB 0.38 Matrix-AS	DEFL. in (loc) Vert(LL) -0.08 11 Vert(CT) -0.14 10-11 Horz(CT) 0.07 7	l/defl L/d >999 240 >999 180 n/a n/a	PLATES MT20 Weight: 50 lb	GRIP 197/144 FT = 20%
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BRACING-

TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

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

WEBS 2x4 SPF No.2

> (size) 7=0-3-8, 12=0-3-8 Max Horz 12=117(LC 15)

Max Uplift 7=-44(LC 13), 12=-74(LC 16) Max Grav 7=524(LC 2), 12=605(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-3=-615/259, 3-4=-824/282, 4-5=-797/319, 7-9=-494/195, 2-12=-647/255 **BOT CHORD** $11 - 12 = -355/433, \ 3 - 11 = 0/304, \ 10 - 11 = -337/705, \ 8 - 10 = -385/859, \ 8 - 9 = -363/836$

WFBS 5-9=-853/364, 4-10=-103/456, 5-10=-335/119

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=4.2psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -0-11-0 to 2-1-0, Interior(1) 2-1-0 to 6-0-0, Exterior(2E) 6-0-0 to 7-3-0 , Interior(1) 7-3-0 to 11-10-4 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
- 3) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 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, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- 4) Unbalanced snow loads have been considered for this design.
- 5) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- 6) Provide adequate drainage to prevent water ponding.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) Bearing at joint(s) 7, 12 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 44 lb uplift at joint 7 and 74 lb uplift at ioint 12.
- 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 11) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



Structural wood sheathing directly applied, except end verticals, and

2-0-0 oc purlins (6-0-0 max.): 5-6.

Rigid ceiling directly applied

June 26,2020



MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.



BOT CHORD

3-5: 2x4 SPF No.2 **BOT CHORD** 2x8 SP 2400F 2.0E *Except*

6-7: 2x10 SP 2400F 2.0E

WEBS 2x4 SPF No.2

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

Max Horz 1=109(LC 11)

Max Uplift 1=-401(LC 12), 6=-572(LC 9) Max Grav 1=2999(LC 31), 6=4615(LC 30)

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

TOP CHORD $1\hbox{-}2\hbox{-}9292/1290, 2\hbox{-}3\hbox{-}7738/1096, 3\hbox{-}4\hbox{-}-5337/701, 4\hbox{-}5\hbox{-}-5323/698, 5\hbox{-}6\hbox{-}-3887/518}$ **BOT CHORD** 1-9=-1222/8250, 8-9=-1165/7877, 7-8=-1082/7300, 6-7=-176/275

WEBS 2-9=-205/1433, 2-8=-950/147, 3-8=-699/4708, 3-7=-2663/452, 5-7=-849/6458

NOTES-

1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows: Top chords connected as follows: 2x6 - 2 rows staggered at 0-7-0 oc, 2x4 - 1 row at 0-9-0 oc. Bottom chords connected as follows: 2x8 - 2 rows staggered at 0-3-0 oc, 2x10 - 2 rows staggered at 0-6-0 oc.

- Webs connected as follows: 2x4 1 row at 0-9-0 oc. 2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- 3) Unbalanced roof live loads have been considered for this design.
- 4) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 5) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 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, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- 6) Unbalanced snow loads have been considered for this design.
- 7) Provide adequate drainage to prevent water ponding.
- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 9) Bearing at joint(s) 1, 6 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 401 lb uplift at joint 1 and 572 lb uplift at joint 6.
- 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.

Continued on page 2



Rigid ceiling directly applied or 10-0-0 oc bracing, Except:

6-0-0 oc bracing: 6-7.

June 26,2020

M WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.



Job	Truss	Truss Type	Qty	Ply	Summit/Stoney Creek #86	
2387107	GR1	Half Hip Girder	1			I41826279
2307 107	OKI	Tian Tip Girder		2	Job Reference (optional)	

Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Jun 26 12:08:27 2020 Page 2 ID:VPVqvFnP0P0b1j2tZrlOqezdKbx-c4hhlulecm_OHXAG1UdsMGlegrTBEm_f6Ogq?oz2Q1o

13) Use Simpson Strong-Tie HGUS28-2 (36-16d Girder, 6-16d Truss) or equivalent at 6-0-14 from the left end to connect truss(es) to back face of bottom chord.

14) Use Simpson Strong-Tie HGUS28 (36-10d Girder, 6-10d Truss) or equivalent at 8-0-0 from the left end to connect truss(es) to back face of bottom chord.

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

16) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1516 lb down and 145 lb up at 10-0-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

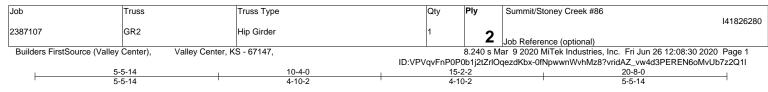
Uniform Loads (plf)

Vert: 1-3=-51, 3-5=-61, 9-10=-20, 7-9=-20, 6-7=-20

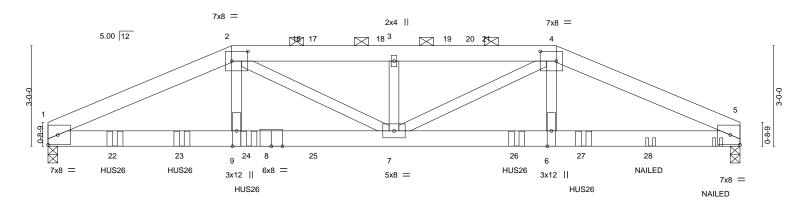
Concentrated Loads (lb)

Vert: 8=-3502(B) 14=-1595(B) 15=-1416(B)





Scale = 1:34.4



5-5-14 5-5-14 Plate Offsets (X,Y) [2:0-5-12,0-3-8], [4:0-5-	4-1	-4-0 0-2	15-2-2 4-10-2		+	20-8-0 5-5-14	
LOADING (psf) SPACIN TCLL (roof) 25.0 Plate Gr Snow (Pf/Pg) 20.4/20.0 Lumber TCDL 10.0 Rep Stro RCLL 0.0 Rep Stro	G- 2-0-0 p DOL 1.15 DOL 1.15	CSI. TC 0.83 BC 0.65 WB 0.37 Matrix-MS	DEFL. Vert(LL) Vert(CT) Horz(CT)	in (loc) -0.18 7-9 -0.31 7-9 0.07 5	l/defl L/d >999 240 >794 180 n/a n/a	PLATES MT20 Weight: 189 lb	GRIP 197/144 FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x6 SPF No.2

BOT CHORD 2x6 SPF 2100F 1.8E

WEBS 2x4 SPF No.2

REACTIONS. (size) 1=0-3-8, 5=0-3-8 Max Horz 1=38(LC 56)

Max Uplift 1=-495(LC 12), 5=-567(LC 12)

Max Opliff 1=-495(LC 12), 5=-567(LC 12) Max Grav 1=5197(LC 2), 5=5053(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 1-2=-10009/985, 2-3=-11761/1205, 3-4=-11761/1205, 4-5=-10473/1188 BOT CHORD 1-9=-859/9142, 7-9=-869/9273, 6-7=-1066/9702, 5-6=-1047/9561

WEBS 2-9=-168/2291, 2-7=-321/2995, 3-7=-1859/196, 4-7=-99/2434, 4-6=-332/2669

NOTES-

- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows: Top chords connected as follows: 2x6 - 2 rows staggered at 0-7-0 oc. Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-4-0 oc. Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
- 2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- 3) Unbalanced roof live loads have been considered for this design.
- 4) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 5) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 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, Lu=50-0-0 Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- 6) Unbalanced snow loads have been considered for this design.
- 7) Provide adequate drainage to prevent water ponding.
- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 495 lb uplift at joint 1 and 567 lb uplift at joint 5.
- 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 HUS26 (14-10d Girder, 4-10d Truss) or equivalent spaced at 8-0-0 oc max. starting at 2-0-0 from the left end to 14-0-0 to connect truss(es) to front face of bottom chord.
- 13) Use Simpson Strong-Tie HUS26 (14-16d Girder, 6-16d Truss) or equivalent at 16-0-0 from the left end to connect truss(es) to front face of bottom chord.

Och thiled on backes where hanger is in contact with lumber.



Structural wood sheathing directly applied or 4-5-14 oc purlins,

2-0-0 oc purlins (3-3-7 max.): 2-4.

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

June 26,2020

MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.



Job	Truss	Truss Type	Qty	Ply	Summit/Stoney Creek #86	
2387107	GR2	Hip Girder	1	_	ļ.	41826280
2307107	GRZ	Inip Gildei	'	2	Job Reference (optional)	

Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Jun 26 12:08:30 2020 Page 2 ID:VPVqvFnP0P0b1j2tZrlOqezdKbx-0fNpwwnWvhMz8?vridAZ_vw4d3PEREN6oMvUb7z2Q1I

15) "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidlines.

16) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 839 lb down and 103 lb up at 10-0-0, and 892 lb down and 100 lb up at 12-0-0 on top chord, and 883 lb down and 97 lb up at 8-0-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 1-2=-51, 2-4=-61, 4-5=-51, 10-13=-20

Concentrated Loads (lb)

Vert: 15=-61(F) 18=-804 19=-860 22=-912(F) 23=-859(F) 24=-805(F) 25=-790 26=-944(F) 27=-2186(F) 28=-138(F)



Job Truss Truss Type Qty Summit/Stoney Creek #86 141826281 2387107 JA1 Jack-Open Supported Gable Job Reference (optional)
8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Jun 26 12:08:30 2020 Page 1

Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

ID:VPVqvFnP0P0b1j2tZrlOqezdKbx-0fNpwwnWvhMz8?vridAZ_vw8U3UERJ66oMvUb7z2Q1I

Structural wood sheathing directly applied, except end verticals.

Rigid ceiling directly applied.

5-11-4 0-11-0 5-11-4

Scale = 1:22.1

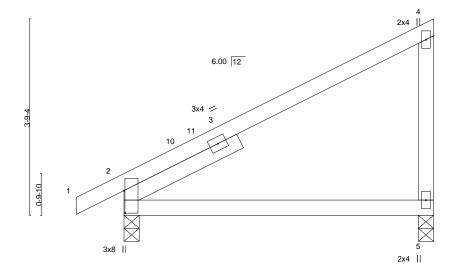


Plate Offsets (X,Y)	[2:0-5-3,0-0-4]

LOADING (psf) TCLL (roof) 25.0 Snow (Pf/Pg) 15.4/20.0 TCDL 10.0 BCLL 0.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES	CSI. TC 0.51 BC 0.33 WB 0.00	Vert(CT) -0.	in (loc) 0.07 5-8 0.12 5-8 0.04 2	l/defl >999 >588 n/a	L/d 240 180 n/a	PLATES MT20	GRIP 197/144
BCDL 0.0	Code IRC2018/TPI2014	Matrix-AS					Weight: 22 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

SLIDER Left 2x4 SPF No.2 2-6-0

2-4=-296/110

REACTIONS.

(size) 5=0-3-8, 2=0-3-8 Max Horz 2=120(LC 15)

Max Uplift 5=-34(LC 13), 2=-46(LC 16) Max Grav 5=282(LC 21), 2=330(LC 2)

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

NOTES-

TOP CHORD

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -0-11-0 to 2-1-0, Interior(1) 2-1-0 to 5-9-8 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; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 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 12.0 psf or 1.00 times flat roof load of 15.4 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 34 lb uplift at joint 5 and 46 lb uplift at
- 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) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



June 26,2020



Job Truss Truss Type Qty Summit/Stoney Creek #86 141826282 2387107 JA2 Jack-Open Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Jun 26 12:08:31 2020 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147,

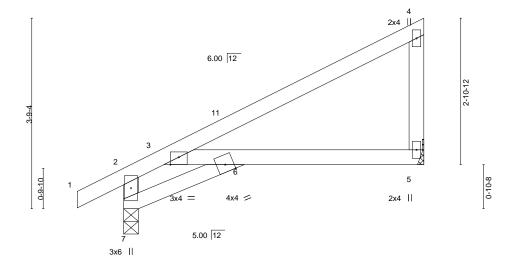
ID:VPVqvFnP0P0b1j2tZrlOqezdKbx-UswC7Go8g?Uqm8U1GKhoW6TLeSpTAmvF10f18Zz2Q1k

Structural wood sheathing directly applied, except end verticals.

Rigid ceiling directly applied.

-0-11-0 0-11-0 2-0-12 3-10-8

Scale = 1:22.8



2-0-12 3-10-8

> **BRACING-**TOP CHORD

BOT CHORD

Plate Offsets (X,Y) [3:0-2-0,l	Edge]										
LOADING (ps TCLL (roof) Snow (Pf/Pg) TCDL BCLL	25.0 25.0 15.4/20.0 10.0 0.0	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr	2-0-0 1.15 1.15 YES	CSI. TC BC WB	0.42 0.40 0.03	DEFL. Vert(LL) Vert(CT) Horz(CT)	in 0.08 -0.12 0.05	(loc) 5-6 5-6 5	l/defl >857 >542 n/a	L/d 240 180 n/a	PLATES MT20	GRIP 197/144
BCDL	10.0	Code IRC2018/TI	PI2014	Matr	ix-AS						Weight: 21 lb	FT = 20%

LUMBER-

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

WEBS 2x4 SPF No.2 REACTIONS. (size) 7=0-3-8, 5=Mechanical

Max Horz 7=115(LC 16) Max Uplift 7=-26(LC 16), 5=-48(LC 16)

Max Grav 7=335(LC 2), 5=272(LC 21)

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

TOP CHORD 2-7=-313/199

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=4.2psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -0-11-0 to 2-1-0, Interior(1) 2-1-0 to 5-9-8 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) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 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 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) Refer to girder(s) for truss to truss connections.
- 8) Bearing at joint(s) 7 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 26 lb uplift at joint 7 and 48 lb uplift at joint 5.
- 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) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



June 26,2020



M WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.



Job Truss Truss Type Qty Summit/Stoney Creek #86 141826283 2387107 JA3 Jack-Open Job Reference (optional)
8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Jun 26 12:08:32 2020 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147,

ID:VPVqvFnP0P0b1j2tZrlOqezdKbx-y2UaLcpmRJchOl3Eq2C13K?Was9HvDAPGgObg?z2Q1j

-0-11-0 0-11-0 3-2-15

Scale = 1:22.8

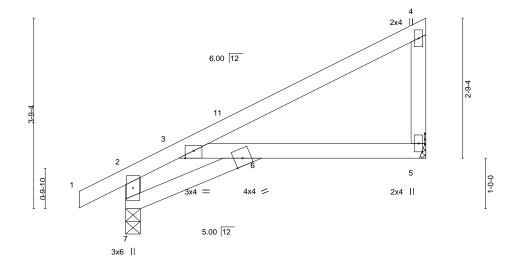


Plate Offsets ((X,Y) [3:0-2-0,I	Edge]								
LOADING (ps TCLL (roof) Snow (Pf/Pg) TCDL BCLL	25.0 25.0 15.4/20.0 10.0 0.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES	CSI. TC 0.41 BC 0.42 WB 0.03	DEFL. Vert(LL) Vert(CT) Horz(CT)	in 0.08 -0.13 0.05	(loc) 6 6 5	l/defl >865 >520 n/a	L/d 240 180 n/a	PLATES MT20	GRIP 197/144
BCDL	10.0	Code IRC2018/TPI2014	Matrix-AS						Weight: 21 lb	FT = 20%

LUMBER-**BRACING-**

TOP CHORD TOP CHORD 2x4 SPF No.2 Structural wood sheathing directly applied, except end verticals. **BOT CHORD** 2x4 SPF No.2 **BOT CHORD** Rigid ceiling directly applied.

REACTIONS. (size) 7=0-3-8, 5=Mechanical

2x4 SPF No.2

Max Horz 7=115(LC 16)

Max Uplift 7=-26(LC 16), 5=-48(LC 16) Max Grav 7=335(LC 2), 5=274(LC 21)

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

TOP CHORD 2-7=-310/200

NOTES-

WEBS

- 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=4.2psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -0-11-0 to 2-1-0, Interior(1) 2-1-0 to 5-9-8 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) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 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 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) Refer to girder(s) for truss to truss connections.
- 8) Bearing at joint(s) 7 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 26 lb uplift at joint 7 and 48 lb uplift at joint 5.
- 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) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



June 26,2020



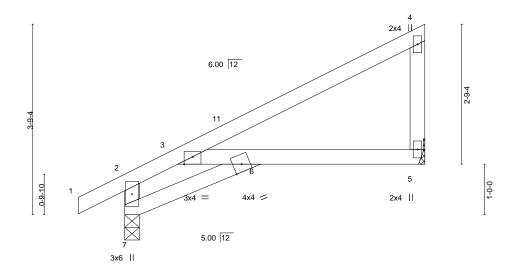
M WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.



Job Truss Truss Type Qty Summit/Stoney Creek #86 141826284 2387107 JA4 Jack-Open Job Reference (optional)
8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Jun 26 12:08:33 2020 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:VPVqvFnP0P0b1j2tZrlOqezdKbx-QE2yYyqPCckY0SeQNljGbXYhKGVWegQYUK88CSz2Q1i

3-2-15

Scale = 1:22.8



	1
2-8-5 3-2-15	_

			0 = 10					
Plate Offsets (X,Y) [3:0-2-0,	Edge]							
LOADING (psf) TCLL (roof) 25.0 Snow (Pf/Pg) 15.4/20.0 TCDL 10.0 BCDL 0.0 BCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2018/TPI2014	CSI. TC 0.41 BC 0.42 WB 0.03 Matrix-AS	DEFL. in Vert(LL) 0.08 Vert(CT) -0.13 Horz(CT) 0.05	6	l/defl >865 >520 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 21 lb	GRIP 197/144 FT = 20%

TOP CHORD

BOT CHORD

LUMBER-**BRACING-**

-0-11-0 0-11-0

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

WEBS 2x4 SPF No.2

REACTIONS. (size) 7=0-3-8, 5=Mechanical

Max Horz 7=115(LC 16)

Max Uplift 7=-26(LC 16), 5=-48(LC 16) Max Grav 7=335(LC 2), 5=274(LC 21)

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

TOP CHORD 2-7=-310/200

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=4.2psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -0-11-0 to 2-1-0, Interior(1) 2-1-0 to 5-9-8 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) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 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 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) Refer to girder(s) for truss to truss connections.
- 8) Bearing at joint(s) 7 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 26 lb uplift at joint 7 and 48 lb uplift at joint 5.
- 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) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



Structural wood sheathing directly applied, except end verticals.

Rigid ceiling directly applied.

June 26,2020



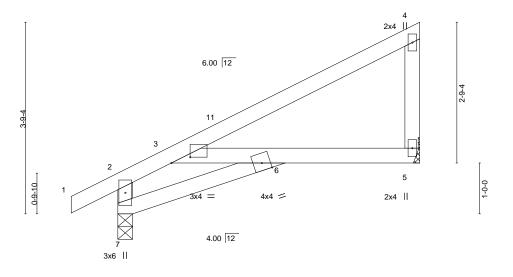
M WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.



Job Truss Truss Type Qty Summit/Stoney Creek #86 141826285 2387107 JA5 Jack-Open Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Jun 26 12:08:34 2020 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:VPVqvFnP0P0b1j2tZrlOqezdKbx-vRcKmlr1zwsPdcDcxTFV8l5sAgrON6ghj_thkuz2Q1h 3-3-8 3-3-8

2-7-12

Scale = 1:22.7



2-7-12

BRACING-TOP CHORD

BOT CHORD

Plate Offsets (X,Y) [3:0-4-7,	0-1-6]			
LOADING (psf) TCLL (roof) 25.0 Snow (Pf/Pg) 15.4/20.0 TCDL 10.0 BCLL 0.0 BCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2018/TPI2014	CSI. TC 0.41 BC 0.45 WB 0.03 Matrix-AS	Vert(LL) -0.08 6-10 >902 240 N Vert(CT) -0.13 6-10 >529 180 Horz(CT) 0.04 5 n/a n/a	PLATES GRIP /IT20 197/144 Veight: 21 lb FT = 20%

LUMBER-

REACTIONS.

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

WEBS 2x4 SPF No.2

> (size) 7=0-3-8, 5=Mechanical Max Horz 7=114(LC 16)

Max Uplift 7=-26(LC 16), 5=-48(LC 16)

Max Grav 7=335(LC 2), 5=274(LC 21)

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

TOP CHORD 2-7=-304/189

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=4.2psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -0-11-0 to 2-1-0, Interior(1) 2-1-0 to 5-9-8 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) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 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 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

0-11-0

- 7) Refer to girder(s) for truss to truss connections.
- 8) Bearing at joint(s) 7 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 26 lb uplift at joint 7 and 48 lb uplift at joint 5.
- 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) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



Structural wood sheathing directly applied, except end verticals.

Rigid ceiling directly applied.

June 26,2020



M WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.



Job Truss Truss Type Qty Summit/Stoney Creek #86 141826286 2387107 JA6 Jack-Open Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Jun 26 12:08:34 2020 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:VPVqvFnP0P0b1j2tZrlOqezdKbx-vRcKmlr1zwsPdcDcxTFV8l5utguWN01hj_thkuz2Q1h 0-11-0 Scale = 1:22.9 4x6 = 3 6.00 12 3x4 = 0-9-10

LOADING (psf) SPACING-2-0-0 CSI. DEFL. I/defI **PLATES** GRIP (loc) L/d TCLL (roof) 25.0 Plate Grip DOL Vert(LL) -0.03 240 197/144 1.15 TC 0.30 4-5 >999 MT20 Snow (Pf/Pg) 15.4/20.0 Lumber DOL 1.15 вс 0.25 Vert(CT) -0.07 4-5 >953 180 TCDI 10.0 Rep Stress Incr YES WB 0.39 Horz(CT) 0.02 n/a n/a BCLL 0.0 Code IRC2018/TPI2014 Matrix-AS Weight: 22 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

2x4 ||

Rigid ceiling directly applied.

Structural wood sheathing directly applied, except end verticals.

LUMBER-

BCDL

TOP CHORD 2x4 SPF No.2 2x4 SPF No.2 BOT CHORD

10.0

WEBS 2x4 SPF No.2 **OTHERS** 2x4 SPF No.2

REACTIONS.

(size) 5=0-3-8, 7=Mechanical

Max Horz 5=109(LC 16)

Max Uplift 5=-30(LC 16), 7=-42(LC 16) Max Grav 5=338(LC 2), 7=243(LC 21)

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

TOP CHORD 2-5=-285/162

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -0-11-0 to 2-1-0, Interior(1) 2-1-0 to 5-6-0 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) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 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 12.0 psf or 1.00 times flat roof load of 15.4 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.

3x8 ||

- 6) Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 30 lb uplift at joint 5 and 42 lb uplift at
- 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) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



June 26,2020



MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.



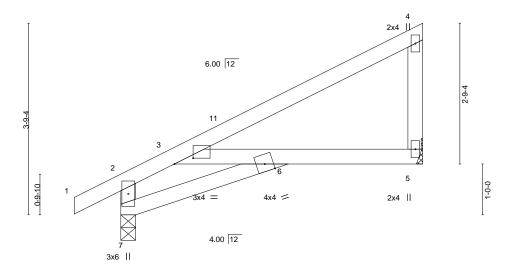
Job Truss Truss Type Qty Summit/Stoney Creek #86 141826287 2387107 JA7 Jack-Open Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Jun 26 12:08:35 2020 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:VPVqvFnP0P0b1j2tZrlOqezdKbx-NdAizerfkE_FFmnpVAmkhyd1v4Ad6ZwryedFHKz2Q1g

2-7-12

3-3-8 3-3-8

0-11-0

Scale = 1:22.7



2-7-12

BRACING-TOP CHORD

BOT CHORD

Plate Offsets (X,Y) [3:0-4-7,0	0-1-6]							
LOADING (psf) TCLL (roof) 25.0 Snow (Pf/Pg) 15.4/20.0 TCDL 10.0 BCLL 0.0 BCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2018/TPI2014	CSI. TC 0.41 BC 0.45 WB 0.03 Matrix-AS	Vert(CT) -0	in (loc) 0.08 6-10 0.13 6-10 0.04 5	I/defI >902 >529 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 21 lb	GRIP 197/144 FT = 20%

LUMBER-

REACTIONS.

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

WEBS 2x4 SPF No.2

(size) 7=0-3-8, 5=Mechanical

Max Horz 7=114(LC 16)

Max Uplift 7=-26(LC 16), 5=-48(LC 16) Max Grav 7=335(LC 2), 5=274(LC 21)

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

TOP CHORD 2-7=-304/189

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=4.2psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -0-11-0 to 2-1-0, Interior(1) 2-1-0 to 5-9-8 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) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 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 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) Refer to girder(s) for truss to truss connections.
- 8) Bearing at joint(s) 7 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 26 lb uplift at joint 7 and 48 lb uplift at joint 5.
- 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) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



Structural wood sheathing directly applied, except end verticals.

Rigid ceiling directly applied.

June 26,2020



M WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.



Job Truss Truss Type Qty Summit/Stoney Creek #86 141826288 JC1 2387107 Monopitch Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Jun 26 12:08:36 2020 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:VPVqvFnP0P0b1j2tZrlOqezdKbx-rpk4BzsHVX66twM?3tHzDAAl4TcSr0b_AlMopnz2Q1f 2-5-4 2-5-4 0-11-0 Scale = 1:11.5 5.00 12

				'		2-5-4			<u>'</u>			
LOADING (ps TCLL (roof) Snow (Pf/Pg) TCDL BCLL	25.0 25.0 15.4/20.0 10.0 0.0	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr	2-0-0 1.15 1.15 YES	CSI. TC BC WB	0.06 0.02 0.00	DEFL. Vert(LL) Vert(CT) Horz(CT)	in -0.00 -0.00 0.00	(loc) 7 7 3	I/defl >999 >999 n/a	L/d 240 180 n/a	PLATES MT20	GRIP 197/144
BCDL	10.0	Code IRC2018/TF	PI2014	Matr	ix-MP						Weight: 9 lb	FT = 20%

BRACING-TOP CHORD

BOT CHORD

2-5-4

LUMBER-

REACTIONS.

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

(size)

3=Mechanical, 2=0-3-8, 4=Mechanical Max Horz 2=44(LC 16)

Max Uplift 3=-18(LC 16), 2=-31(LC 16)

Max Grav 3=65(LC 21), 2=188(LC 21), 4=48(LC 7)

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=4.2psf; h=15ft; 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; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 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 12.0 psf or 1.00 times flat roof load of 15.4 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) Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 18 lb uplift at joint 3 and 31 lb uplift at ioint 2.
- 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.

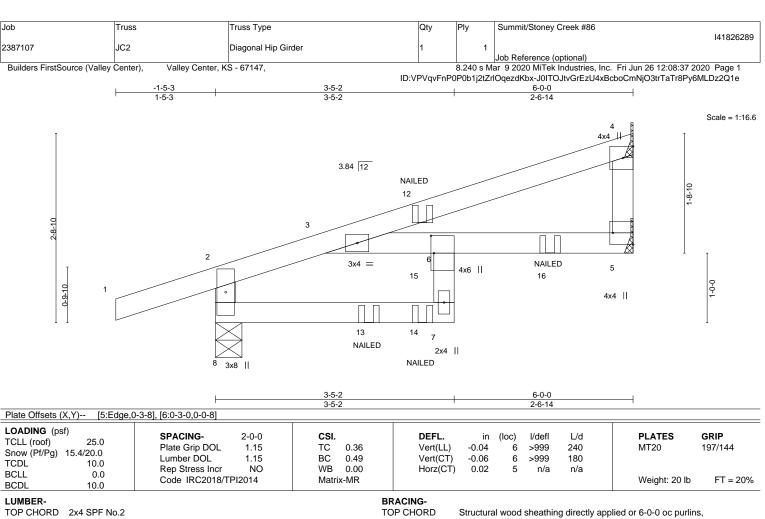


Structural wood sheathing directly applied or 2-5-4 oc purlins.

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

June 26,2020





BOT CHORD

except end verticals.

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

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

WEBS 2x4 SPF No.2

REACTIONS. (size) 8=0-4-9, 4=Mechanical, 5=Mechanical Max Horz 8=72(LC 31)

Max Uplift 8=-104(LC 12), 4=-25(LC 12), 5=-46(LC 9) Max Grav 8=412(LC 2), 4=117(LC 17), 5=236(LC 17)

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

TOP CHORD 2-8=-373/105, 2-3=-261/45, 3-4=-258/57

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60
- 2) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 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 12.0 psf or 1.00 times flat roof load of 15.4 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.
- Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 104 lb uplift at joint 8, 25 lb uplift at joint 4 and 46 lb uplift at joint 5.
- 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) Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.
- 10) "NAILED" indicates 2-12d (0.148"x3.25") toe-nails per NDS guidlines.
- 11) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 1-2=-51, 2-4=-51, 7-8=-20, 5-6=-20

Concentrated Loads (lb)

Vert: 13=-7(B) 14=-7(F) 16=-111(B)



June 26,2020



MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.



Job Truss Truss Type Qty Summit/Stoney Creek #86 141826290 2387107 JC3 Monopitch Job Reference (optional)
8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Jun 26 12:08:38 2020 Page 1

Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

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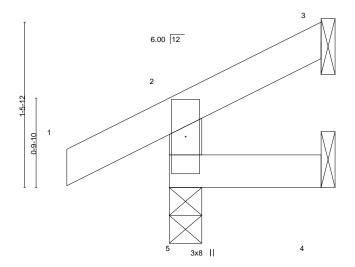
Structural wood sheathing directly applied or 1-4-5 oc purlins,

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

except end verticals.



Scale = 1:10.3



1-4-5

CADING (psf) TCLL (roof) 25.0 Snow (Pf/Pg) 15.4/20.0 TCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES	CSI. TC 0.09 BC 0.07 WB 0.00	DEFL. Vert(LL) Vert(CT) Horz(CT)	in 0.00 -0.00 0.00	(loc) 5 5	l/defl >999 >999 n/a	L/d 240 180 n/a	PLATES MT20	GRIP 197/144
BCLL 0.0 BCDL 10.0	Code IRC2018/TPI2014	Matrix-MR						Weight: 5 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

WEBS

TOP CHORD 2x4 SPF No.2 2x4 SPF No.2

BOT CHORD 2x4 SPF No.2

REACTIONS.

5=0-3-8, 4=Mechanical (size) Max Horz 5=58(LC 16) Max Uplift 5=-70(LC 16), 4=-35(LC 16) Max Grav 5=162(LC 21), 4=27(LC 7)

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=4.2psf; h=15ft; 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; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=0.0 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 12.0 psf or 1.00 times flat roof load of 15.4 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) Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 70 lb uplift at joint 5 and 35 lb uplift at joint 4.
- 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.



June 26,2020



Job Truss Truss Type Qty Summit/Stoney Creek #86 141826291 2387107 JC4 Monopitch Job Reference (optional)
8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Jun 26 12:08:38 2020 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147,

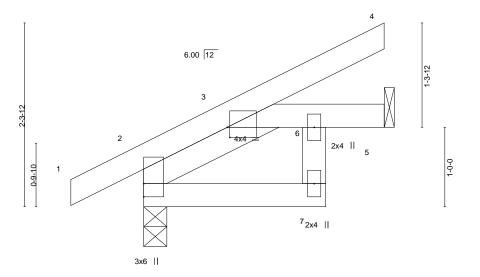
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Structural wood sheathing directly applied or 3-0-5 oc purlins.

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

3-0-5 2-3-8 2-3-8 0-11-0 0-8-13

Scale = 1:14.5



BRACING-TOP CHORD

BOT CHORD

Plate Offsets (X,Y) [3:	-0-6,0-1-8]				
TCLL (roof) 25.0 Snow (Pf/Pg) 15.4/20.0 TCDL 10.0 BCLL 0.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES	CSI. TC 0.06 BC 0.20 WB 0.00	DEFL. in (loc) l/defl L/d Vert(LL) -0.00 14 >999 240 Vert(CT) -0.01 7 >999 180 Horz(CT) 0.00 5 n/a n/a	PLATES GRIP MT20 197/1	144
BCDL 10.0	Code IRC2018/TPI2014	Matrix-MR		Weight: 13 lb F7	T = 20%

LUMBER-

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

SLIDER Left 2x4 SPF No.2 1-10-1

REACTIONS.

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

Max Horz 2=67(LC 16)

Max Uplift 2=-17(LC 16), 5=-33(LC 16) Max Grav 2=219(LC 2), 5=144(LC 2)

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=4.2psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -0-11-0 to 2-3-7, Interior(1) 2-3-7 to 3-0-5 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 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 12.0 psf or 1.00 times flat roof load of 15.4 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.
- Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 17 lb uplift at joint 2 and 33 lb uplift at joint 5.
- 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.



June 26,2020



Job Truss Truss Type Qty Summit/Stoney Creek #86 141826292 2387107 JC5 Jack-Open Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Jun 26 12:08:39 2020 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:VPVqvFnP0P0b1j2tZrlOqezdKbx-FOPDp?u9oSUhkN5ak0qgroonlhbQ2NLRtFbSQ5z2Q1c 2-3-8 2-3-8 0-11-0 1-7-12 Scale = 1:16.7 6.00 12 -9-4 3x4 | 1-0-0 0-9-10 2x4 || 3x6 || 1-7-12 Plate Offsets (X,Y)-- [3:0-0-2,0-1-8] LOADING (psf) SPACING-GRIP 2-0-0 CSI DEFL. in (loc) I/defl L/d **PLATES** 25.0 TCLL (roof) Plate Grip DOL 1.15 TC 0.16 Vert(LL) -0.01 14 >999 240 MT20 197/144 Snow (Pf/Pg) 15.4/20.0 Lumber DOL 1.15 ВС 0.20 Vert(CT) -0.0214 >999 180 **TCDL** 10.0 Rep Stress Incr YES WB 0.00 Horz(CT) 0.01 5 n/a n/a

BRACING-

TOP CHORD

BOT CHORD

Matrix-MR

LUMBER-

BCLL

BCDL

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

SLIDER Left 2x4 SPF No.2 1-10-1

0.0

10.0

REACTIONS.

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

Code IRC2018/TPI2014

Max Horz 2=73(LC 16)

Max Uplift 4=-24(LC 16), 2=-17(LC 16), 5=-3(LC 16) Max Grav 4=118(LC 21), 2=288(LC 21), 5=78(LC 21)

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=4.2psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -0-11-0 to 2-3-7, Interior(1) 2-3-7 to 3-10-8 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
- 2) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 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 12.0 psf or 1.00 times flat roof load of 15.4 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.
- Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 24 lb uplift at joint 4, 17 lb uplift at joint 2 and 3 lb uplift at joint 5.
- 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.



June 26,2020

FT = 20%

Weight: 15 lb

Structural wood sheathing directly applied or 3-11-4 oc purlins.

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



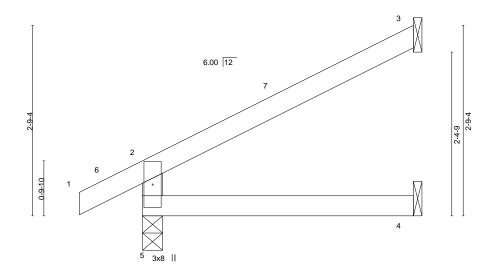
MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.



Job Truss Truss Type Qty Summit/Stoney Creek #86 141826293 2387107 JC6 Jack-Open Job Reference (optional)
8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Jun 26 12:08:40 2020 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:VPVqvFnP0P0b1j2tZrlOqezdKbx-jbzb0LvoZmcYLXgmljMvO0Kxa5yXnqaa5vK0yYz2Q1b

3-11-4

Scale = 1:16.7



	<u> </u>		3-11-4	
TCLL (roof) 25.0 Snow (Pf/Pg) 15.4/20.0 TCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES	CSI. TC 0.22 BC 0.14 WB 0.00	DEFL. in (loc) l/defl L/d PLATES GRIP Vert(LL) -0.01 4-5 >999 240 MT20 197/144 Vert(CT) -0.02 4-5 >999 180 Horz(CT) -0.01 3 n/a n/a	1
BCLL 0.0 BCDL 10.0	Code IRC2018/TPI2014	Matrix-MR		= 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x4 SPF No.2 BOT CHORD 2x4 SPF No.2

WEBS 2x4 SPF No.2

REACTIONS.

5=0-3-8, 3=Mechanical, 4=Mechanical (size) Max Horz 5=87(LC 16)

Max Uplift 5=-27(LC 16), 3=-38(LC 16)

Max Grav 5=280(LC 21), 3=128(LC 21), 4=70(LC 7)

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

TOP CHORD 2-5=-250/141

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -0-11-0 to 2-1-0, Interior(1) 2-1-0 to 3-10-8 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
- 2) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 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

0-11-0

- 3) Unbalanced snow loads have been considered for this design.
- 4) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 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.
- Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 27 lb uplift at joint 5 and 38 lb uplift at joint 3.
- 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.



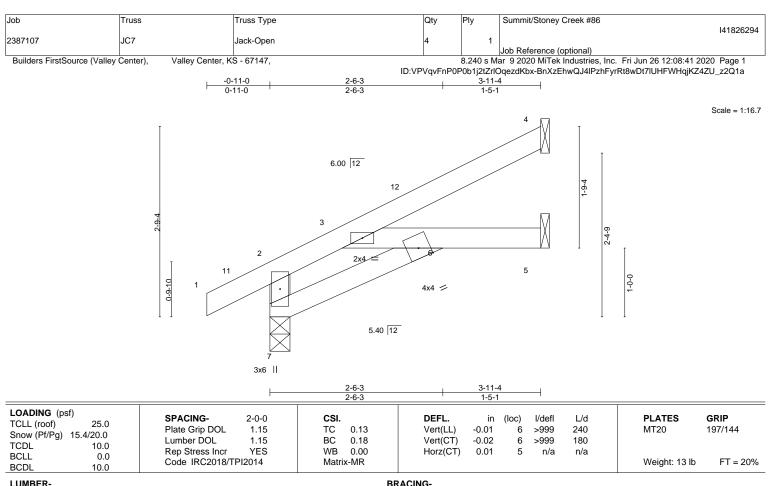
Structural wood sheathing directly applied or 3-11-4 oc purlins,

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

except end verticals.

June 26,2020





TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

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

WEBS 2x4 SPF No.2

> 7=0-3-8, 4=Mechanical, 5=Mechanical (size) Max Horz 7=88(LC 16)

Max Uplift 7=-19(LC 16), 4=-24(LC 16), 5=-4(LC 16) Max Grav 7=297(LC 21), 4=102(LC 21), 5=89(LC 7)

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

TOP CHORD 2-7=-279/146

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -0-11-0 to 2-1-0, Interior(1) 2-1-0 to 3-10-8 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
- 2) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 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 12.0 psf or 1.00 times flat roof load of 15.4 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.
- Refer to girder(s) for truss to truss connections.
- 7) Bearing at joint(s) 7 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 19 lb uplift at joint 7, 24 lb uplift at joint 4 and 4 lb uplift at joint 5.
- 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.



Structural wood sheathing directly applied or 3-11-4 oc purlins,

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

except end verticals.

June 26,2020



MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.



Job Truss Truss Type Summit/Stoney Creek #86 141826295 2387107 JC8 Jack-Open Supported Gable

Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

Job Reference (optional)
8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Jun 26 12:08:42 2020 Page 1 ID:VPVqvFnP0P0b1j2tZrlOqezdKbx-gz5MR1x24NtGbrq9P8ONTRQG6ud1Fk4tZDp60Qz2Q1Z

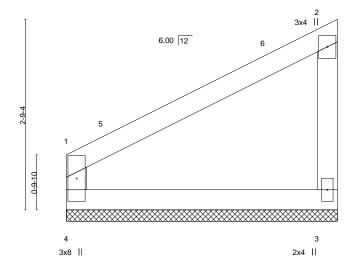
Structural wood sheathing directly applied or 3-11-4 oc purlins,

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

except end verticals.

3-11-4

Scale = 1:16.7



LOADING (psf) TCLL (roof) 25.0 Snow (Pf/Pg) 15.4/20.0 TCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES	CSI. TC 0.22 BC 0.14 WB 0.00	DEFL. Vert(LL) Vert(CT) Horz(CT)	in n/a n/a -0.00	(loc) - - 3	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20	GRIP 197/144
BCLL 0.0 BCDL 10.0	Code IRC2018/TPI2014	Matrix-R	, ,					Weight: 13 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

WEBS

TOP CHORD 2x4 SPF No.2 2x4 SPF No.2

BOT CHORD 2x4 SPF No.2

> 4=3-11-4, 3=3-11-4 (size) Max Horz 4=82(LC 13)

Max Uplift 4=-10(LC 16), 3=-27(LC 13) Max Grav 4=174(LC 20), 3=174(LC 20)

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

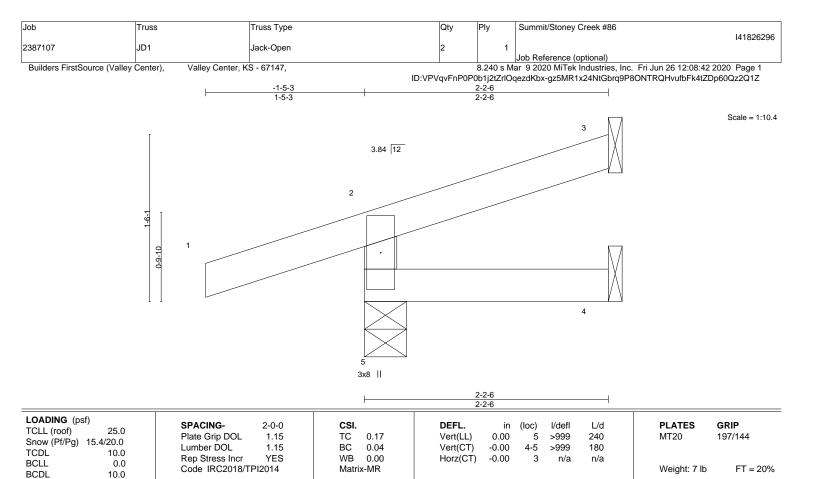
NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; B=45ft; L=24ft; eave=2ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Corner (3E) 0-1-12 to 3-1-12, Exterior (2N) 3-1-12 to 3-9-8 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
- 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; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 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) Gable requires continuous bottom chord bearing.
- 6) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- Gable studs spaced at 1-4-0 oc.
- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 10 lb uplift at joint 4 and 27 lb uplift at
- 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.



June 26,2020





BRACING-

TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

TOP CHORD 2x4 SPF No.2 2x4 SPF No.2

BOT CHORD WEBS 2x4 SPF No.2

> 5=0-4-9, 3=Mechanical, 4=Mechanical (size)

Max Horz 5=52(LC 16)

Max Uplift 5=-62(LC 16), 3=-10(LC 13)

Max Grav 5=245(LC 21), 3=38(LC 21), 4=34(LC 7)

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=4.2psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Corner(3) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 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 12.0 psf or 1.00 times flat roof load of 15.4 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) Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 62 lb uplift at joint 5 and 10 lb uplift at ioint 3.
- 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.



Structural wood sheathing directly applied or 2-2-6 oc purlins,

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

except end verticals.

June 26,2020



MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.



Job Truss Truss Type Qty Summit/Stoney Creek #86 141826297 2387107 JD2 Jack-Open Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Jun 26 12:08:43 2020 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:VPVqvFnP0P0b1j2tZrlOqezdKbx-89fkfNygrh?7C?PLzsvc?eyT3I?2_BK0ntZgZtz2Q1Y 2-0-0 0-11-0 2-0-0 Scale = 1:10.6 5.00 12 2 3x6 | LOADING (psf) SPACING-2-0-0 CSI. DEFL. I/defI L/d **PLATES** GRIP (loc) TCLL (roof) 25.0 Plate Grip DOL Vert(LL) -0.00 240 197/144 1.15 TC 0.08 5 >999 MT20 Snow (Pf/Pg) 15.4/20.0

LUMBER-

TCDI

BCLL

BCDL

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

10.0

0.0

10.0

WEBS 2x4 SPF No.2

REACTIONS. 5=0-3-8, 3=Mechanical, 4=Mechanical (size) Max Horz 5=51(LC 16)

Max Uplift 5=-35(LC 16), 3=-15(LC 16)

Max Grav 5=181(LC 21), 3=47(LC 21), 4=33(LC 7)

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

Lumber DOL

Rep Stress Incr

Code IRC2018/TPI2014

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; 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; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 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

1.15

YES

ВС

WB

Matrix-MR

0.03

0.00

Vert(CT)

Horz(CT)

BRACING-

TOP CHORD

BOT CHORD

-0.00

-0.00

4-5

except end verticals

3

>999

n/a

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

180

n/a

Structural wood sheathing directly applied or 2-0-0 oc purlins,

- 3) Unbalanced snow loads have been considered for this design.
- 4) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 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) Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 35 lb uplift at joint 5 and 15 lb uplift at ioint 3.
- 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.



Weight: 6 lb

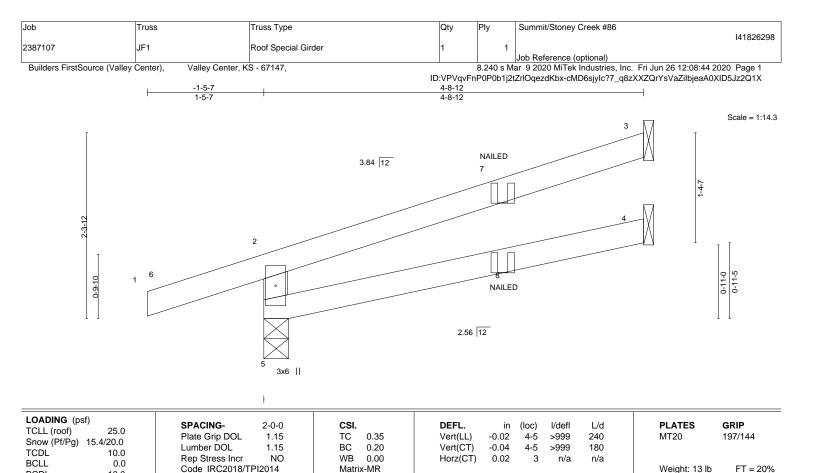
FT = 20%

June 26,2020



MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.





BRACING-

TOP CHORD

BOT CHORD

LUMBER-TOP CHORD

REACTIONS.

BCDL

2x4 SPF No.2 2x4 SPF No.2

10.0

BOT CHORD 2x4 SPF No.2 WEBS 2x4 SPF No.2

> (size) 5=0-3-11, 3=Mechanical, 4=Mechanical Max Horz 5=75(LC 12) Max Uplift 5=-63(LC 12), 3=-35(LC 12)

Max Grav 5=346(LC 17), 3=144(LC 17), 4=84(LC 7)

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

TOP CHORD 2-5=-301/85

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 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 12.0 psf or 1.00 times flat roof load of 15.4 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) Refer to girder(s) for truss to truss connections.
- 7) Bearing at joint(s) 5 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 63 lb uplift at joint 5 and 35 lb uplift at joint 3.
- 9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 10) "NAILED" indicates 2-12d (0.148"x3.25") toe-nails per NDS guidlines.
- 11) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 1-2=-51, 2-3=-51, 4-5=-20

Concentrated Loads (lb) Vert: 8=-10(F)

MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE

Design valid for use only with MiTek's 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/TPH Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



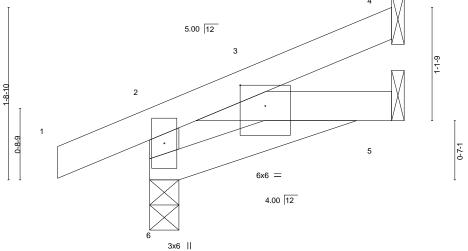
Structural wood sheathing directly applied or 4-8-12 oc purlins,

Rigid ceiling directly applied or 6-0-0 oc bracing.

except end verticals.



16023 Swingley Ridge Rd Chesterfield, MO 63017 Job Truss Truss Type Qty Summit/Stoney Creek #86 141826299 2387107 JF2 Jack-Open Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Jun 26 12:08:45 2020 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:VPVqvFnP0P0b1j2tZrlOqezdKbx-4YnU32zwNIFrSIYk4Gx4532pX6hKS5qJFB2ndlz2Q1W 2-4-15 2-4-15 0-11-0 Scale = 1:11.5



2-0-12 2-4-15 2-0-12

BRACING-

TOP CHORD

BOT CHORD

Plate Offsets (X,Y) [3:0-	3-0,0-2-8]						
LOADING (psf) TCLL (roof) 25.0 Snow (Pf/Pg) 15.4/20.0 TCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES	CSI. TC 0.08 BC 0.04 WB 0.00	DEFL. Vert(LL) -0. Vert(CT) -0. Horz(CT) 0.	l/defl >999 >999 n/a	L/d 240 180 n/a	PLATES MT20	GRIP 197/144
BCLL 0.0 BCDL 10.0	Code IRC2018/TPI2014	Matrix-MR	, ,			Weight: 9 lb	FT = 20%

LUMBER-

REACTIONS.

TOP CHORD 2x4 SPF No.2

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

(size) 6=0-3-8, 4=Mechanical, 5=Mechanical

Max Horz 6=56(LC 16)

Max Uplift 6=-33(LC 16), 4=-14(LC 16), 5=-1(LC 16) Max Grav 6=196(LC 21), 4=53(LC 21), 5=35(LC 7)

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=4.2psf; h=15ft; 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; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 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 12.0 psf or 1.00 times flat roof load of 15.4 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) Refer to girder(s) for truss to truss connections
- 7) Bearing at joint(s) 6 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 33 lb uplift at joint 6, 14 lb uplift at joint 4 and 1 lb uplift at joint 5.
- 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.



Structural wood sheathing directly applied or 2-4-15 oc purlins,

Rigid ceiling directly applied or 6-0-0 oc bracing.

except end verticals.

June 26,2020



M WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.



Job Truss Truss Type Qty Summit/Stoney Creek #86 141826300 JF3 2387107 Jack-Open Job Reference (optional)
8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Jun 26 12:08:46 2020 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:VPVqvFnP0P0b1j2tZrlOqezdKbx-YkLsHO_Y8cNi3S7we_SJdHazPV0QBY3SUrnKABz2Q1V 3-11-4 3-11-4 0-11-0 Scale = 1:14.6 5.00 12 1-4-4 1-11-13 5 9 0-8-9 4x4 = 4.00 12 3x6 || 3-3-8 LOADING (psf) SPACING-2-0-0 CSI. DEFL. I/defI L/d **PLATES** GRIP (loc) TCLL (roof) 25.0 Plate Grip DOL Vert(LL) -0.01 240 197/144 1.15 TC 0.13 10 >999 MT20 Snow (Pf/Pg) 15.4/20.0 Lumber DOL 1.15 ВС 0.11 Vert(CT) -0.01 6-7 >999 180 TCDI 10.0 Rep Stress Incr YES WB 0.00 Horz(CT) 0.00 5 n/a n/a BCLL 0.0 Code IRC2018/TPI2014 Matrix-MR Weight: 13 lb FT = 20% BCDL 10.0 LUMBER-BRACING-Structural wood sheathing directly applied or 3-11-4 oc purlins, TOP CHORD

BOT CHORD

except end verticals

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

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

WEBS 2x4 SPF No.2

7=0-3-8, 4=Mechanical, 5=Mechanical REACTIONS. (size)

Max Horz 7=73(LC 16)

Max Uplift 7=-27(LC 16), 4=-16(LC 16), 5=-1(LC 16) Max Grav 7=288(LC 21), 4=84(LC 21), 5=111(LC 7)

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

TOP CHORD 2-7=-280/152

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -0-11-0 to 2-1-12, Interior(1) 2-1-12 to 3-10-8 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
- 2) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 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 12.0 psf or 1.00 times flat roof load of 15.4 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.
- Refer to girder(s) for truss to truss connections.
- 7) Bearing at joint(s) 7 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 27 lb uplift at joint 7, 16 lb uplift at joint 4 and 1 lb uplift at joint 5.
- 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.



June 26,2020



MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.



Job Truss Truss Type Qty Summit/Stoney Creek #86 141826301 JF4 2387107 Jack-Open Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Jun 26 12:08:47 2020 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:VPVqvFnP0P0b1j2tZrlOqezdKbx-0xuFUk?BvwVZhci6Ch_YAU791vMmw?JciVXtiez2Q1U 2-5-4 2-5-4 0-11-0 Scale = 1:11.5 5.00 12 3 1-1-1 2 0-7-1 4.00 12 3x6 Ш 2-0-12 2-0-12 Plate Offsets (X,Y)-- [3:0-3-0,0-2-8] LOADING (psf) SPACING-DEFL. (loc) 2-0-0 CSI. in I/defl L/d **PLATES** GRIP 25.0 TCLL (roof) Plate Grip DOL 1.15 TC 0.08 Vert(LL) -0.00 3 >999 240 MT20 197/144 15.4/20.0 Snow (Pf/Pg) Lumber DOL 1.15 ВС 0.04 Vert(CT) -0.00 3 >999 180 **TCDL** 10.0 Rep Stress Incr YES WB 0.00 Horz(CT) 0.00 5 n/a n/a **BCLL** 0.0 Code IRC2018/TPI2014 FT = 20% Matrix-MR Weight: 9 lb BCDL 10.0

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

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

WEBS 2x4 SPF No.2

(size) 6=0-3-8, 4=Mechanical, 5=Mechanical

Max Horz 6=56(LC 16)

Max Uplift 6=-33(LC 16), 4=-14(LC 16), 5=-1(LC 16) Max Grav 6=198(LC 21), 4=54(LC 21), 5=36(LC 7)

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=4.2psf; h=15ft; 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; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 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 12.0 psf or 1.00 times flat roof load of 15.4 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) Refer to girder(s) for truss to truss connections
- 7) Bearing at joint(s) 6 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 33 lb uplift at joint 6, 14 lb uplift at joint 4 and 1 lb uplift at joint 5.
- 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.



Structural wood sheathing directly applied or 2-5-4 oc purlins,

Rigid ceiling directly applied or 6-0-0 oc bracing.

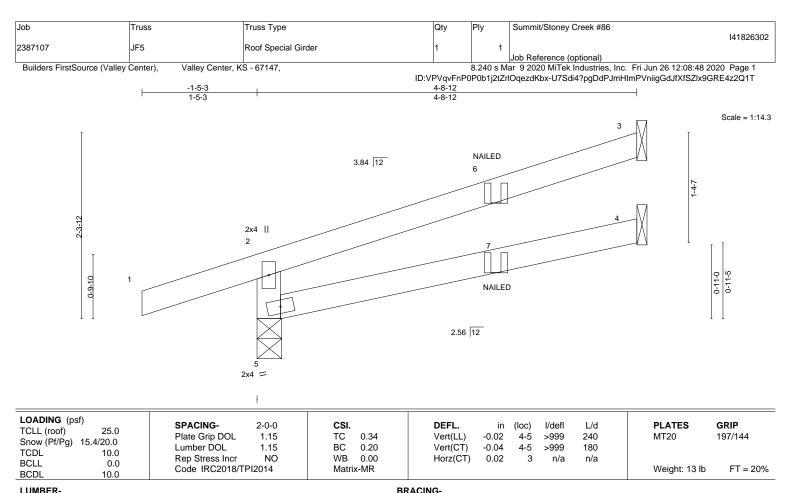
except end verticals.

June 26,2020



M WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.





TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x4 SPF No.2 2x4 SPF No.2

BOT CHORD WEBS 2x4 SPF No.2

REACTIONS. (size) 5=0-3-11, 3=Mechanical, 4=Mechanical Max Horz 5=75(LC 12)

Max Uplift 5=-63(LC 12), 3=-35(LC 12)

Max Grav 5=353(LC 17), 3=143(LC 17), 4=84(LC 7)

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

TOP CHORD 2-5=-308/84

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60
- 2) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 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 12.0 psf or 1.00 times flat roof load of 15.4 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) Refer to girder(s) for truss to truss connections
- 7) Bearing at joint(s) 5 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 63 lb uplift at joint 5 and 35 lb uplift at
- 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) "NAILED" indicates 2-12d (0.148"x3.25") toe-nails per NDS guidlines.
- 11) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 1-2=-51, 2-3=-51, 4-5=-20

Concentrated Loads (lb)

Vert: 7=-11(B)



Structural wood sheathing directly applied or 4-8-12 oc purlins,

Rigid ceiling directly applied or 6-0-0 oc bracing.

except end verticals.

June 26,2020



MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.



Job Truss Truss Type Qty Summit/Stoney Creek #86 141826303 2387107 JM1 Diagonal Hip Girder Job Reference (optional)
8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Jun 26 12:08:49 2020 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:VPVqvFnP0P0b1j2tZrlOqezdKbx-yJ0?vQ0RRXlGwwsVJ600FvCPcj_UOt5vAp0_mWz2Q1S

4-2-15

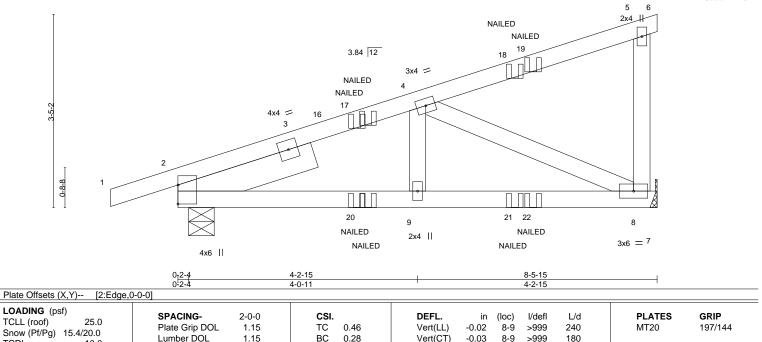
8-5-15

4-2-15

Scale = 1:20.4

FT = 20%

Weight: 35 lb



Horz(CT)

BRACING-

TOP CHORD

BOT CHORD

0.01

8

except end verticals

n/a

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

n/a

Structural wood sheathing directly applied or 6-0-0 oc purlins,

LUMBER-

TCDL

BCLL

BCDL

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

WEBS 2x4 SPF No.2

SLIDER Left 2x6 SPF No.2 2-6-0

10.0

10.0

0.0

REACTIONS.

(size) 8=Mechanical, 2=0-5-7

1-2-5

Max Horz 2=106(LC 11)

Max Uplift 8=-48(LC 9), 2=-74(LC 12) Max Grav 8=448(LC 17), 2=503(LC 2)

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

Rep Stress Incr

Code IRC2018/TPI2014

TOP CHORD 2-4=-521/51

BOT CHORD 2-9=-75/480, 8-9=-75/480

WEBS 4-8=-526/67

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 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

NO

WB

Matrix-MP

0.17

- 3) Unbalanced snow loads have been considered for this design.
- 4) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 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) Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 48 lb uplift at joint 8 and 74 lb uplift at joint 2.
- 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) "NAILED" indicates 2-12d (0.148"x3.25") toe-nails per NDS guidlines.
- 10) 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: 1-5=-51, 5-6=-51, 7-10=-20

Concentrated Loads (lb)

Vert: 18=-47(B) 19=-79(F) 20=0(F=-0, B=0) 21=-13(B) 22=-25(F)



June 26,2020



MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.



Job Truss Truss Type Qty Summit/Stoney Creek #86 141826304 2387107 JM2 Jack-Open Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Jun 26 12:08:53 2020 Page 1

Builders FirstSource (Valley Center), Valley Center, KS - 67147,

ID:VPVqvFnP0P0b1j2tZrlOqezdKbx-r5GWln3yVmFiPXAGYy4yPlNBWKQFKioU5R_Cvlz2Q10

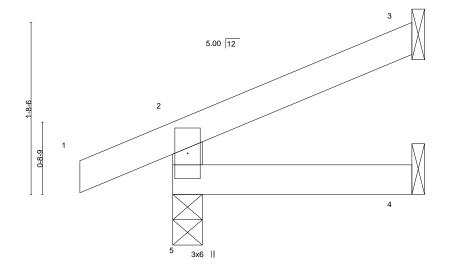
Structural wood sheathing directly applied or 2-4-5 oc purlins,

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

except end verticals.

0-11-0 2-4-5

Scale = 1:11.4



			2-4-5		1			
TCLL (roof) 25.0 Snow (Pf/Pg) 15.4/20.0 TCDL 10.0 BCLL 0.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES	CSI. TC 0.08 BC 0.04 WB 0.00	Vert(CT) -	in (loc) -0.00 4-5 -0.00 4-5 -0.00 3	l/defl >999 >999 n/a	L/d 240 180 n/a	PLATES MT20	GRIP 197/144
BCDL 10.0	Code IRC2018/TPI2014	Matrix-MR					Weight: 7 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

2-4-5

LUMBER-

REACTIONS.

TOP CHORD 2x4 SPF No.2 2x4 SPF No.2

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

> 5=0-3-8, 3=Mechanical, 4=Mechanical (size) Max Horz 5=54(LC 16) Max Uplift 5=-34(LC 16), 3=-18(LC 16)

Max Grav 5=194(LC 21), 3=60(LC 21), 4=39(LC 7)

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

NOTES-

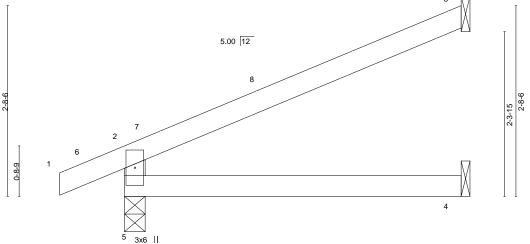
- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 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 12.0 psf or 1.00 times flat roof load of 15.4 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) Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 34 lb uplift at joint 5 and 18 lb uplift at joint 3.
- 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.



June 26,2020



Job Truss Truss Type Qty Summit/Stoney Creek #86 141826305 2387107 JM3 Jack-Open Job Reference (optional)
8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Jun 26 12:08:54 2020 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:VPVqvFnP0P0b1j2tZrlOqezdKbx-JHpuy74aG3NZ1hkS6fcByzwJXkjA392eJ5jlSkz2Q1N 0-11-0 Scale = 1:16.3



	<u> </u>		4-9-2		<u>'</u>		
CADING (psf) TCLL (roof) 25.0 Snow (Pf/Pg) 15.4/20.0 TCDL 10.0 BCLL 0.0 BCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2018/TPI2014	CSI. TC 0.32 BC 0.18 WB 0.00 Matrix-AS	Vert(LL) -0.0 Vert(CT) -0.0	l/defl >999 >999 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 13 lb	GRIP 197/144 FT = 20%

4-9-2

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

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

WEBS 2x4 SPF No.2

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

Max Horz 5=82(LC 16)

Max Uplift 5=-35(LC 16), 3=-41(LC 16)

Max Grav 5=296(LC 21), 3=158(LC 21), 4=85(LC 7)

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

TOP CHORD 2-5=-261/163

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -0-11-0 to 2-1-0, Interior(1) 2-1-0 to 4-8-6 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 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 12.0 psf or 1.00 times flat roof load of 15.4 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.
- Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 35 lb uplift at joint 5 and 41 lb uplift at joint 3.
- 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) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



Structural wood sheathing directly applied, except end verticals.

Rigid ceiling directly applied.

June 26,2020



MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.



Job Truss Truss Type Qty Summit/Stoney Creek #86 141826306 2387107 JM4 Jack-Open Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Jun 26 12:08:55 2020 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147,

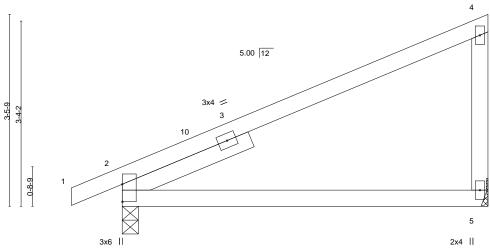
ID:VPVqvFnP0P0b1j2tZrlOqezdKbx-nTNGAT5C0NVQerJfgN7QVASPX8?poclnYITI_Az2Q1M

Structural wood sheathing directly applied, except end verticals.

Rigid ceiling directly applied.

6-7-4 0-11-0 6-7-4

> Scale = 1:20.8 2x4 ||



Code Rep 2018/TP 2014 CSI. DEFL. in (loc) //defl L/d PLATES GRIP	Plate Offsets (X,Y) [2:Edge,0	0-0-0]			
PCDI 10.0 Odde 11.02014 Matthx 7.0 Weight: 2010 11 = 207	TCLL (roof) 25.0 Snow (Pf/Pg) 15.4/20.0 TCDL 10.0	Plate Grip DOL 1.15 Lumber DOL 1.15	TC 0.62 BC 0.41	Vert(LL) -0.09 5-8 >856 240 MT20 1 Vert(CT) -0.18 5-8 >430 180	

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

SLIDER Left 2x4 SPF No.2 2-6-0

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

Max Horz 2=161(LC 16)

Max Uplift 2=-16(LC 16), 5=-59(LC 16) Max Grav 2=359(LC 2), 5=307(LC 21)

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

TOP CHORD 2-4=-388/109

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -0-11-0 to 2-1-0, Interior(1) 2-1-0 to 6-5-8 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; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 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 12.0 psf or 1.00 times flat roof load of 15.4 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) Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 16 lb uplift at joint 2 and 59 lb uplift at
- 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) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



June 26,2020



MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.



Job Truss Truss Type Qty Summit/Stoney Creek #86 141826307 2387107 JM5 Jack-Open Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Jun 26 12:08:55 2020 Page 1

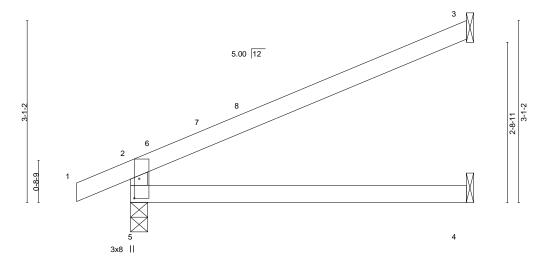
Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:VPVqvFnP0P0b1j2tZrlOqezdKbx-nTNGAT5C0NVQerJfqN7QVASRs81zoclnYITI_Az2Q1M

Structural wood sheathing directly applied, except end verticals.

Rigid ceiling directly applied.

0-11-0 5-8-8

Scale = 1:19.6



BRACING-TOP CHORD

BOT CHORD

Plate Offsets (X,Y) [2:0-0-12	2,0-1-12], [5:0-4-0,0-1-0], [5:0-0-0,0-1-12]						
LOADING (psf) TCLL (roof) 25.0 Snow (Pf/Pg) 15.4/20.0 TCDL 10.0 BCLL 0.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES	CSI. TC 0.47 BC 0.28 WB 0.00	- '()	in (loc) -0.04 4-5 -0.09 4-5 0.03 3	I/defI >999 >726 n/a	L/d 240 180 n/a	PLATES MT20	GRIP 197/144
BCDL 10.0	Code IRC2018/TPI2014	Matrix-AS					Weight: 15 lb	FT = 20%

LUMBER-

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

WEBS 2x4 SPF No.2

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

Max Horz 5=93(LC 16)

Max Uplift 5=-35(LC 16), 3=-50(LC 16)

Max Grav 5=329(LC 2), 3=193(LC 21), 4=102(LC 7)

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

TOP CHORD 2-5=-285/175

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -0-11-0 to 2-1-0, Interior(1) 2-1-0 to 5-7-12 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 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 12.0 psf or 1.00 times flat roof load of 15.4 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) Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 35 lb uplift at joint 5 and 50 lb uplift at
- 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) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



June 26,2020



Job Truss Truss Type Qty Summit/Stoney Creek #86 141826308 2387107 JM6 Jack-Open Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Jun 26 12:08:56 2020 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:VPVqvFnP0P0b1j2tZrlOqezdKbx-FgxeNp6qnheHG_urE4ef1O?huXQGX3YxnPCsWcz2Q1L 3-3-12 3-3-12 0-11-0 Scale = 1:13.3 5.00 12 -8-11 3-3-12 LOADING (psf) SPACING-2-0-0 CSI. DEFL. I/defI L/d **PLATES** GRIP (loc) TCLL (roof) 25.0 4-5 Plate Grip DOL Vert(LL) 0.01 240 MT20 197/144 1.15 TC 0.13 >999 Snow (Pf/Pg) 15.4/20.0 Lumber DOL 1.15 ВС 0.08 Vert(CT) -0.01 4-5 >999 180

LUMBER-

TCDI

BCLL

BCDL

TOP CHORD 2x4 SPF No.2 2x4 SPF No.2

10.0

0.0

10.0

BOT CHORD WEBS 2x4 SPF No.2

REACTIONS. 5=0-3-8, 3=Mechanical, 4=Mechanical (size) Max Horz 5=65(LC 16)

Max Uplift 5=-34(LC 16), 3=-28(LC 16)

Max Grav 5=240(LC 21), 3=99(LC 21), 4=58(LC 7)

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

Rep Stress Incr

Code IRC2018/TPI2014

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -0-11-0 to 2-1-0, Interior(1) 2-1-0 to 3-3-0 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) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 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

YES

WB

Matrix-MR

0.00

Horz(CT)

BRACING-

TOP CHORD

BOT CHORD

-0.00

3

except end verticals.

n/a

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

n/a

Structural wood sheathing directly applied or 3-3-12 oc purlins,

- 3) Unbalanced snow loads have been considered for this design.
- 4) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 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.
- Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 34 lb uplift at joint 5 and 28 lb uplift at joint 3.
- 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.



Weight: 9 lb

FT = 20%

June 26,2020



MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.



Job Truss Truss Type Qty Summit/Stoney Creek #86 141826309 2387107 JM7 Diagonal Hip Girder Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Jun 26 12:08:57 2020 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:VPVqvFnP0P0b1j2tZrlOqezdKbx-jsV1b96SY_m8u8T1no9uabYhpxd_GWo403yP23z2Q1K 8-2-6 -1-5-3 1-5-3

4-1-3

Scale = 1:20.4 Special 3.84 12 NAILED 3x4 = NAILED 3 11 3x4 = 3-5-2 10 0-9-10 14 15 16 17 5 NAILED NAILED NAILED NAILED 2x4 || 4x8

Plate Offsets (X,Y)-- [2:0-4-5,0-0-9] LOADING (psf) SPACING-DEFL. 2-0-0 in (loc) I/defl L/d **PLATES** GRIP 25.0 TCLL (roof) Plate Grip DOL 1.15 TC 0.83 Vert(LL) -0.15 5-8 >662 240 MT20 197/144 Snow (Pf/Pg) 15.4/20.0 Lumber DOL 1.15 BC 0.69 Vert(CT) -0.26 5-8 >375 180 TCDL 10.0 Rep Stress Incr NO WB 0.00 Horz(CT) 0.05 n/a n/a **BCLL** 0.0 Code IRC2018/TPI2014 FT = 20% Matrix-MP Weight: 34 lb BCDL 10.0

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x4 SPF 1650F 1.5E **BOT CHORD** 2x6 SPF No.2

WEBS 2x4 SPF No.2

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

REACTIONS. (size) 2=0-4-9, 5=Mechanical

Max Horz 2=159(LC 12) Max Uplift 2=-68(LC 12), 5=-102(LC 12) Max Grav 2=526(LC 2), 5=588(LC 17)

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

TOP CHORD 2-4=-251/233, 4-5=-317/92

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60
- 2) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 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 12.0 psf or 1.00 times flat roof load of 15.4 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) Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 68 lb uplift at joint 2 and 102 lb uplift at
- 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) "NAILED" indicates 3-10d (0.148"x3") or 2-12d (0.148"x3.25") toe-nails per NDS guidlines.
- 10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 159 lb down and 76 lb up at 7-2-14 on top chord. The design/selection of such connection device(s) is the responsibility of others.
- 11) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

Vert: 1-4=-51, 5-6=-20 Concentrated Loads (lb)

Vert: 12=-22(B) 13=-133(B) 14=-4(F) 15=-5(B) 16=-120(F) 17=-45(B)



Structural wood sheathing directly applied or 6-0-0 oc purlins,

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

except end verticals.

June 26,2020



MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.



Job Truss Truss Type Qty Summit/Stoney Creek #86 141826310 2387107 JM8 Roof Special Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Jun 26 12:08:58 2020 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:VPVqvFnP0P0b1j2tZrlOqezdKbx-C23PoV74Jlu?Vl2ELVg76p413L6o?zkEEjhzbVz2Q1J 1-11-15 1-7-0 6.00 12 Scale: 3/4"=1' 2x4 4x4 = 4 5 3x4 = 2x4 Ш 1-11-15 LOADING (psf) SPACING-2-0-0 CSI. DEFL. L/d **PLATES** GRIP (loc) I/defl

Vert(LL)

Vert(CT)

Horz(CT)

BRACING-

TOP CHORD

BOT CHORD

-0.00

-0.01

-0.00

4-5

4-5

4

>999

>999

n/a

except end verticals, and 2-0-0 oc purlins: 1-2.

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

240

180

n/a

Structural wood sheathing directly applied or 3-7-0 oc purlins,

LUMBER-

TCLL (roof)

TCDI

BCLL

BCDL

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

Snow (Pf/Pg) 20.4/20.0

25.0

10.0

0.0

10.0

WEBS 2x4 SPF No.2

REACTIONS.

(size) 5=Mechanical, 4=Mechanical Max Horz 5=74(LC 13) Max Uplift 5=-22(LC 12), 4=-30(LC 13)

Max Grav 5=158(LC 34), 4=148(LC 27)

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

Plate Grip DOL

Rep Stress Incr

Code IRC2018/TPI2014

Lumber DOL

NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-1-12 to 1-11-15, Interior(1) 1-11-15 to 3-5-4 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

1.15

1.15

YES

TC

ВС

WB

Matrix-MS

0.09

0.08

0.02

- 2) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 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, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- 3) Unbalanced snow loads have been considered for this design.
- 4) Provide adequate drainage to prevent water ponding.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 22 lb uplift at joint 5 and 30 lb uplift at joint 4.
- 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.



June 26,2020

197/144

FT = 20%

MT20

Weight: 14 lb



M WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

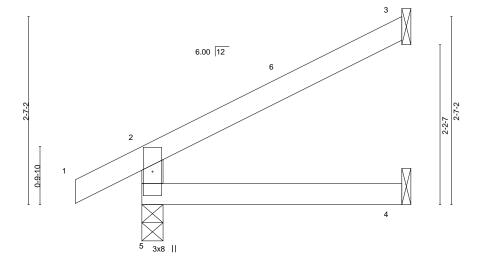


Job Truss Truss Type Qty Summit/Stoney Creek #86 141826311 2387107 JM10 Jack-Open Job Reference (optional)
8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Jun 26 12:08:49 2020 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147,

ID:VPVqvFnP0P0b1j2tZrlOqezdKbx-yJ0?vQ0RRXIGwwsVJ600FvCU3j14OvpvAp0_mWz2Q1S

3-7-0 3-7-0 0-11-0

Scale: 3/4"=1'



			3-7-0		1			
COADING (psf) TCLL (roof) 25.0 Snow (Pf/Pg) 15.4/20.0 TCDL 10.0 BCLL 0.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES	CSI. TC 0.17 BC 0.12 WB 0.00	DEFL. Vert(LL) Vert(CT) Horz(CT)	in (loc) -0.01 4-5 -0.01 4-5 -0.01 3	l/defl >999 >999 n/a	L/d 240 180 n/a	PLATES MT20	GRIP 197/144
BCDL 10.0	Code IRC2018/TPI2014	Matrix-MR					Weight: 10 lb	FT = 20%

3-7-0

BRACING-

TOP CHORD

BOT CHORD

LUMBER-TOP CHORD

REACTIONS.

2x4 SPF No.2

BOT CHORD 2x4 SPF No.2

WEBS 2x4 SPF No.2

> 5=0-3-8, 3=Mechanical, 4=Mechanical (size) Max Horz 5=82(LC 16) Max Uplift 5=-27(LC 16), 3=-35(LC 16)

Max Grav 5=261(LC 21), 3=113(LC 21), 4=63(LC 7)

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=4.2psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -0-11-0 to 2-1-0, Interior(1) 2-1-0 to 3-6-4 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; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 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 12.0 psf or 1.00 times flat roof load of 15.4 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) Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 27 lb uplift at joint 5 and 35 lb uplift at joint 3.
- 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.



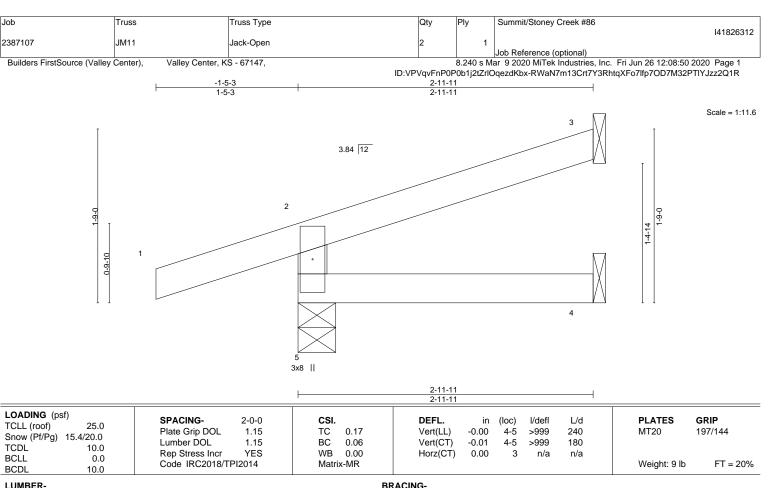
Structural wood sheathing directly applied or 3-7-0 oc purlins,

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

except end verticals.

June 26,2020





TOP CHORD

BOT CHORD

LUMBER-TOP CHORD

2x4 SPF No.2 2x4 SPF No.2 **BOT CHORD**

WEBS 2x4 SPF No.2

REACTIONS. 5=0-4-9, 3=Mechanical, 4=Mechanical (size) Max Horz 5=58(LC 16)

Max Uplift 5=-59(LC 16), 3=-18(LC 16)

Max Grav 5=274(LC 21), 3=73(LC 21), 4=49(LC 7)

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=4.2psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Corner(3) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 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 12.0 psf or 1.00 times flat roof load of 15.4 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) Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 59 lb uplift at joint 5 and 18 lb uplift at ioint 3.
- 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.



Structural wood sheathing directly applied or 2-11-11 oc purlins,

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

except end verticals.

June 26,2020



MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.



Job Truss Truss Type Qty Summit/Stoney Creek #86 141826313 2387107 JM12 Jack-Open Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Jun 26 12:08:51 2020 Page 1 Valley Center, KS - 67147,

Builders FirstSource (Valley Center),

ID:VPVqvFnP0P0b1j2tZrlOqezdKbx-vi8lK62hz8?_AD0tRX2UKKIr_WkkspJCd7V5rPz2Q1Q

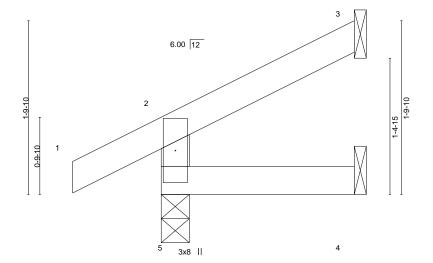
Structural wood sheathing directly applied or 2-0-0 oc purlins,

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

except end verticals.

2-0-0 0-11-0 2-0-0

Scale: 1"=1"



2-0-0 2-0-0

BRACING-

TOP CHORD

BOT CHORD

LOADING (psf) TCLL (roof) 25.0 Snow (Pf/Pg) 15.4/20.0 TCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES	CSI. TC 0.08 BC 0.04 WB 0.00	Vert(LL) -0.00 5 >	l/defl L/d >999 240 >999 180 n/a n/a	PLATES MT20	GRIP 197/144
BCLL 0.0 BCDL 10.0	Code IRC2018/TPI2014	Matrix-MR	(1)		Weight: 7 lb	FT = 20%

LUMBER-TOP CHORD

REACTIONS.

2x4 SPF No.2 2x4 SPF No.2

(size)

BOT CHORD WEBS 2x4 SPF No.2

5=0-3-8, 3=Mechanical, 4=Mechanical

Max Horz 5=61(LC 16) Max Uplift 5=-28(LC 16), 3=-18(LC 16)

Max Grav 5=185(LC 21), 3=48(LC 21), 4=33(LC 7)

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=4.2psf; h=15ft; 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; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 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 12.0 psf or 1.00 times flat roof load of 15.4 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) Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 28 lb uplift at joint 5 and 18 lb uplift at joint 3.
- 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.



June 26,2020



Job Truss Truss Type Qty Summit/Stoney Creek #86 141826314 2387107 JM13 Jack-Open Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Jun 26 12:08:52 2020 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147,

ID:VPVqvFnP0P0b1j2tZrlOqezdKbx-Nui8XS2JkS7rnNb4?EZjtYq0lw40bFZLsnEeNrz2Q1P

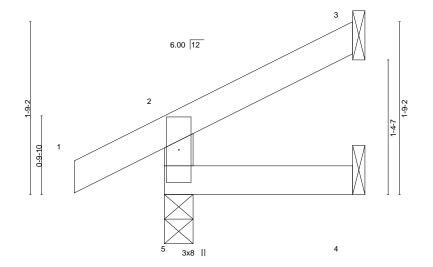
Structural wood sheathing directly applied or 1-11-0 oc purlins,

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

except end verticals.

1-11-0 0-11-0 1-11-0

Scale = 1:11.7



1-11-0 LOADING (psf) SPACING-2-0-0 CSI. DEFL. L/d **PLATES** GRIP (loc) I/defl TCLL (roof) 25.0 Plate Grip DOL Vert(LL) -0.00 240 197/144 1.15 TC 0.08 5 >999 MT20 Snow (Pf/Pg) 15.4/20.0 Lumber DOL 1.15 ВС 0.04 Vert(CT) -0.00 >999 180 5

BRACING-

TOP CHORD

BOT CHORD

TCDI 10.0 Rep Stress Incr YES WB 0.00 Horz(CT) -0.00 3 n/a n/a BCLL 0.0 Code IRC2018/TPI2014 Matrix-MR BCDL 10.0

Weight: 6 lb FT = 20%

LUMBER-

REACTIONS.

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

WEBS 2x4 SPF No.2

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

Max Horz 5=60(LC 16)

Max Uplift 5=-29(LC 16), 3=-17(LC 16) Max Grav 5=181(LC 21), 3=45(LC 21), 4=32(LC 7)

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=4.2psf; h=15ft; 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; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 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 12.0 psf or 1.00 times flat roof load of 15.4 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) Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 29 lb uplift at joint 5 and 17 lb uplift at ioint 3.
- 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.



June 26,2020



Job Truss Truss Type Qty Summit/Stoney Creek #86 141826315 2387107 JM14 Jack-Open

Builders FirstSource (Valley Center), Valley Center, KS - 67147,

Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Jun 26 12:08:52 2020 Page 1 ID:VPVqvFnP0P0b1j2tZrlOqezdKbx-Nui8XS2JkS7rnNb4?EZjtYq1Hw4xbFZLsnEeNrz2Q1P

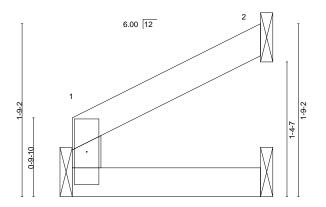
Structural wood sheathing directly applied or 1-11-0 oc purlins,

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

except end verticals.

1-11-0

Scale = 1:11.7



3x8 || ⁴ 3

1-11-0 1-11-0

LOADING (psf) TCLL (roof) 25.0 Snow (Pf/Pg) 15.4/20.0 TCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES	CSI. TC 0.04 BC 0.04 WB 0.00	DEFL. ir Vert(LL) -0.00 Vert(CT) -0.00 Horz(CT) -0.00	4 3-4	l/defl >999 >999 n/a	L/d 240 180 n/a	PLATES MT20	GRIP 197/144
BCLL 0.0 BCDL 10.0	Code IRC2018/TPI2014	Matrix-MR	11012(01) 0.00	_	11/4	11/4	Weight: 5 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

2x4 SPF No.2 TOP CHORD BOT CHORD 2x4 SPF No.2

WEBS 2x4 SPF No.2

> 4=Mechanical, 2=Mechanical, 3=Mechanical (size)

Max Horz 4=37(LC 16)

Max Uplift 2=-22(LC 16) Max Grav 4=79(LC 2), 2=57(LC 2), 3=34(LC 7)

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=4.2psf; h=15ft; 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; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 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 a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 22 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.



June 26,2020



Job Truss Truss Type Qty Summit/Stoney Creek #86 141826316 JP1 2387107 Jack-Open Girder Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Jun 26 12:08:59 2020 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:VPVqvFnP0P0b1j2tZrlOqezdKbx-gEdn?r8i4c0s7SdQvDBMf0dA6lSpkQHNTNRW7xz2Q1I 1-5-3 Scale = 1:12.3 ⁶NAILED 3.84 12 1-10-12 2 0-9-10 NAILED 3x8 || LOADING (psf) SPACING-2-0-0 CSI. DEFL. L/d **PLATES** GRIP (loc) I/defl TCLL (roof) 25.0 Plate Grip DOL Vert(LL) 240 197/144 1.15 TC 0.20 -0.00 4-5 >999 MT20 Snow (Pf/Pg) 15.4/20.0 Lumber DOL 1.15 ВС 0.09 Vert(CT) -0.01 4-5 >999 180 TCDI 10.0 Rep Stress Incr NO WB 0.00 Horz(CT) 0.00 3 n/a n/a

Matrix-MR

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

BCLL

BCDL

TOP CHORD 2x4 SPF No.2 BOT CHORD 2x4 SPF No.2

0.0

10.0

WEBS 2x4 SPF No.2

REACTIONS. 5=0-4-9, 3=Mechanical, 4=Mechanical (size)

Max Horz 5=62(LC 12)

Max Uplift 5=-59(LC 12), 3=-23(LC 12)

Max Grav 5=294(LC 17), 3=92(LC 17), 4=58(LC 7)

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

Code IRC2018/TPI2014

TOP CHORD 2-5=-259/76

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60
- 2) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 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 12.0 psf or 1.00 times flat roof load of 15.4 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.
- Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 59 lb uplift at joint 5 and 23 lb uplift at joint 3.
- 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) "NAILED" indicates 2-12d (0.148"x3.25") toe-nails per NDS guidlines.
- 10) 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: 1-2=-51, 2-3=-51, 4-5=-20

Concentrated Loads (lb)

Vert: 6=-12(F) 7=-0(F)



Weight: 10 lb

Structural wood sheathing directly applied or 3-5-2 oc purlins,

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

except end verticals

FT = 20%

June 26,2020



MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.



Job Truss Truss Type Qty Summit/Stoney Creek #86 141826317 JP2 2387107 Jack-Open Job Reference (optional)
8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Jun 26 12:09:00 2020 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:VPVqvFnP0P0b1j2tZrlOqezdKbx-8RB9DB9Lrv8ilcCcTwibCEANl9otTtXWi1A3fOz2Q1H 0-11-0 2-4-10

> 5.00 12 8-8-2 4

			2-4-10 2-4-10			_			
TCLL (roof) 25.0 Snow (Pf/Pg) 15.4/20.0 TCDL 10.0 BCLL 0.0 BCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2018/TPI2014	CSI. TC 0.08 BC 0.04 WB 0.00 Matrix-MR	DEFL. Vert(LL) Vert(CT) Horz(CT)	in -0.00 -0.00 -0.00	(loc) 4-5 4-5 3	I/defl >999 >999 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 7 lb	GRIP 197/144 FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

WEBS 2x4 SPF No.2

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

Max Horz 5=55(LC 16)

Max Uplift 5=-34(LC 16), 3=-18(LC 16) Max Grav 5=195(LC 21), 3=61(LC 21), 4=40(LC 7)

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

NOTES-

REACTIONS.

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; 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; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 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 12.0 psf or 1.00 times flat roof load of 15.4 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) Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 34 lb uplift at joint 5 and 18 lb uplift at joint 3.
- 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.



Structural wood sheathing directly applied or 2-4-10 oc purlins,

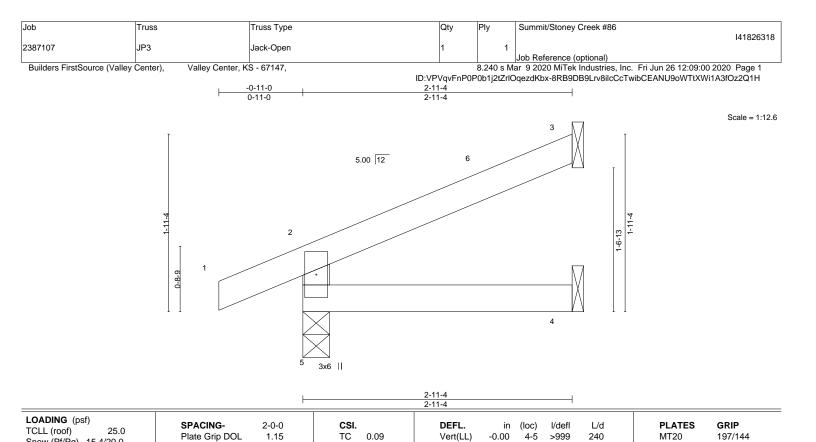
Rigid ceiling directly applied or 10-0-0 oc bracing

except end verticals.

June 26,2020

Scale = 1:11.4





LUMBER-

REACTIONS.

TCDI

BCLL

BCDL

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

10.0

0.0

10.0

WEBS 2x4 SPF No.2

Snow (Pf/Pg) 15.4/20.0

5=0-3-8, 3=Mechanical, 4=Mechanical (size) Max Horz 5=61(LC 16) Max Uplift 5=-34(LC 16), 3=-24(LC 16)

Max Grav 5=221(LC 21), 3=84(LC 21), 4=50(LC 7)

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

Lumber DOL

Rep Stress Incr

Code IRC2018/TPI2014

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -0-11-0 to 2-1-0, Interior(1) 2-1-0 to 2-10-8 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
- 2) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 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

1.15

YES

ВС

WB

Matrix-MR

0.06

0.00

Vert(CT)

Horz(CT)

BRACING-

TOP CHORD

BOT CHORD

-0.01

-0.00

4-5

except end verticals.

3

>999

n/a

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

180

n/a

Structural wood sheathing directly applied or 2-11-4 oc purlins,

- 3) Unbalanced snow loads have been considered for this design.
- 4) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 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.
- Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 34 lb uplift at joint 5 and 24 lb uplift at joint 3.
- 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.



Weight: 9 lb

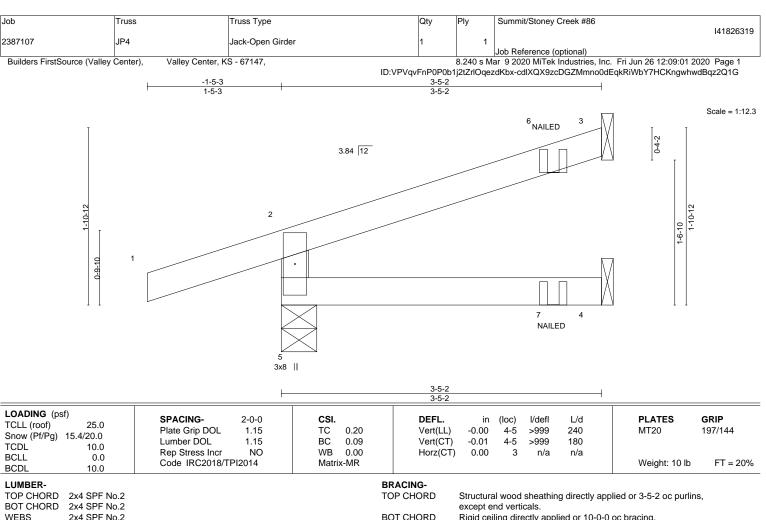
FT = 20%

June 26,2020



MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.





WEBS 2x4 SPF No.2

> 5=0-4-9, 3=Mechanical, 4=Mechanical (size)

Max Horz 5=62(LC 12)

Max Uplift 5=-59(LC 12), 3=-23(LC 12)

Max Grav 5=294(LC 17), 3=92(LC 17), 4=58(LC 7)

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

TOP CHORD 2-5=-259/76

NOTES-

REACTIONS.

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60
- 2) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 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 12.0 psf or 1.00 times flat roof load of 15.4 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) Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 59 lb uplift at joint 5 and 23 lb uplift at joint 3.
- 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) "NAILED" indicates 2-12d (0.148"x3.25") toe-nails per NDS guidlines.
- 10) 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: 1-2=-51, 2-3=-51, 4-5=-20

Concentrated Loads (lb)

Vert: 6=-12(B) 7=-0(B)



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

June 26,2020



MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.



Job Truss Truss Type Qty Summit/Stoney Creek #86 141826320 2387107 LG1 GABLE Job Reference (optional)
8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Jun 26 12:09:02 2020 Page 1

Builders FirstSource (Valley Center), Valley Center, KS - 67147,

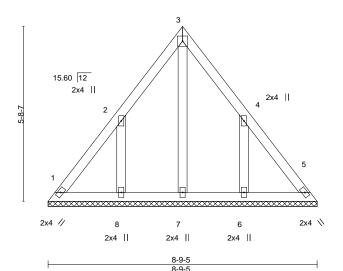
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4-4-10 4-4-10

> Scale = 1:37.6 4x4 =

> > Structural wood sheathing directly applied or 6-0-0 oc purlins.

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



LOADING (psf) SPACING-2-0-0 CSI. DEFL. L/d **PLATES** GRIP (loc) I/defl TCLL (roof) 25.0 Plate Grip DOL Vert(LL) 999 MT20 197/144 1.15 TC 0.08 n/a n/a Snow (Pf/Pg) 15.4/20.0 Lumber DOL 1.15 вс 0.03 Vert(CT) n/a 999 n/a TCDI 10.0 Rep Stress Incr YES WB 0.04 Horz(CT) 0.00 5 n/a n/a BCLL 0.0 Code IRC2018/TPI2014 Matrix-P Weight: 37 lb FT = 20% BCDL 10.0

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

OTHERS 2x4 SPF No.2

REACTIONS. All bearings 8-9-5. Max Horz 1=-144(LC 12)

Max Uplift All uplift 100 lb or less at joint(s) 1, 5 except 8=-138(LC 14), 6=-138(LC 14) Max Grav All reactions 250 lb or less at joint(s) 1, 5, 7 except 8=282(LC 23), 6=282(LC 24)

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

2-8=-271/210, 4-6=-271/210 **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; TCDL=6.0psf; BCDL=4.2psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-3-9 to 3-3-9, Interior(1) 3-3-9 to 4-4-10, Exterior(2R) 4-4-10 to 7-4-10, Interior(1) 7-4-10 to 8-5-12 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 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) Gable requires continuous bottom chord bearing.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 5 except (jt=lb) 8=138, 6=138,
- 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.



June 26,2020



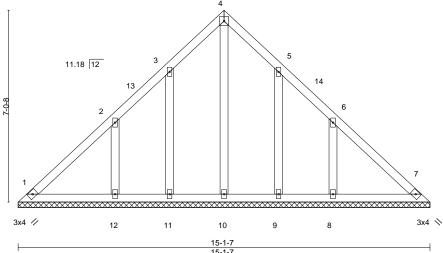
Job Truss Truss Type Qty Summit/Stoney Creek #86 141826321 2387107 LG2 GABLE Job Reference (optional)
8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Jun 26 12:09:07 2020 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147,

ID:VPVqvFnP0P0b1j2tZrlOqezdKbx-Rn6phaEkC30j5hEyNuLE_iyaSzA4c1wYJcNxPUz2Q1A 7-6-12 7-6-12

Scale = 1:42.3 4x4 =

Structural wood sheathing directly applied or 6-0-0 oc purlins.

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



LOADING (psf) SPACING-2-0-0 CSI. DEFL. I/defI L/d **PLATES** GRIP TCLL (roof) 25.0 Plate Grip DOL Vert(LL) 999 MT20 197/144 1.15 TC 0.11 n/a n/a Snow (Pf/Pg) 15.4/20.0 Lumber DOL 1.15 вс 0.06 Vert(CT) n/a 999 n/a TCDI 10.0 Rep Stress Incr YES WB 0.09 Horz(CT) 0.00 n/a n/a BCLL 0.0 Code IRC2018/TPI2014 Matrix-S Weight: 64 lb FT = 20% BCDL 10.0 BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

OTHERS 2x4 SPF No.2

REACTIONS. All bearings 15-1-7.

Max Horz 1=-159(LC 12) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 1, 11, 9 except 12=-103(LC 14), 8=-103(LC 14)

Max Grav All reactions 250 lb or less at joint(s) 1, 7, 10, 11, 9 except 12=315(LC 23), 8=316(LC 24)

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

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=4.2psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-4-7 to 3-6-12, Interior(1) 3-6-12 to 7-6-12, Exterior(2R) 7-6-12 to 10-6-12, Interior(1) 10-6-12 to 14-9-0 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) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 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) All plates are 2x4 MT20 unless otherwise indicated.
- 5) Gable requires continuous bottom chord bearing.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 11, 9 except (it=lb) 12=103, 8=103,
- 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.



June 26,2020



M WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

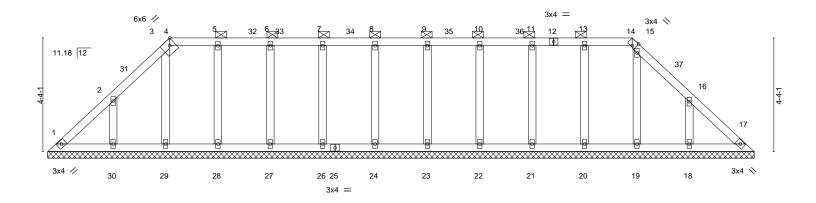


Job Truss Truss Type Qty Summit/Stoney Creek #86 141826322 GABLE 2387107 LG3 Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Jun 26 12:09:08 2020 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:VPVqvFnP0P0b1j2tZrlOqezdKbx-vzgBuwFMzN8aiqp9xcsTWwVm0NXqLVriXG6Vxwz2Q19 26-11-12

17-7-15

Scale = 1:44.0

4-7-14



'		26-11-12	2						
Plate Offsets (X,Y) [3:0-2-6,	0-0-0], [4:0-2-6,Edge], [4:0-1-3,0-1-4], [1	4:0-1-10,Edge]							
LOADING (psf) TCLL (roof) 25.0 Snow (Pf/Pg) 20.4/20.0 TCDL 10.0 BCLL 0.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES	CSI. TC 0.06 BC 0.03 WB 0.04	DEFL. Vert(LL) Vert(CT) Horz(CT)	in n/a n/a 0.00	(loc) - - 17	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20	GRIP 197/144
BCDL 0.0	Code IRC2018/TPI2014	Matrix-S						Weight: 111 lb	FT = 20%

26-11-12

LUMBER-**BRACING-**

TOP CHORD 2x4 SPF No.2 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except

BOT CHORD 2x4 SPF No.2 2-0-0 oc purlins (6-0-0 max.): 4-14.

OTHERS 2x4 SPF No.2 **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc bracing

REACTIONS. All bearings 26-11-12. (lb) -Max Horz 1=-96(LC 12)

4-7-14

Max Uplift All uplift 100 lb or less at joint(s) 1, 30, 28, 27, 26, 24, 23, 22, 21, 20, 18

Max Grav All reactions 250 lb or less at joint(s) 1, 17, 30, 29, 28, 27, 26, 24, 23, 22, 21, 20, 19, 18

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

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=4.2psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-4-7 to 3-4-7, Interior(1) 3-4-7 to 4-7-14, Exterior(2R) 4-7-14 to 8-10-13, Interior(1) 8-10-13 to 22-3-13, Exterior(2E) 22-3-13 to 26-7-4 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
- 3) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 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, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- 4) Provide adequate drainage to prevent water ponding.
- 5) All plates are 2x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 30, 28, 27, 26, 24, 23, 22, 21, 20, 18.
- 9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



June 26,2020



MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.



Job Truss Truss Type Qty Summit/Stoney Creek #86 141826323 2387107 LG4 GABLE 1 Job Reference (optional)
8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Jun 26 12:09:10 2020 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147,

ID:VPVqvFnP0P0b1j2tZrlOqezdKbx-rMnxJcGcU_Oly8zX20uxbLa6fBDHpON??abb0oz2Q17 8-8-4 8-8-4

> Scale = 1:50.6 3x4 =

> > Structural wood sheathing directly applied or 6-0-0 oc purlins.

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

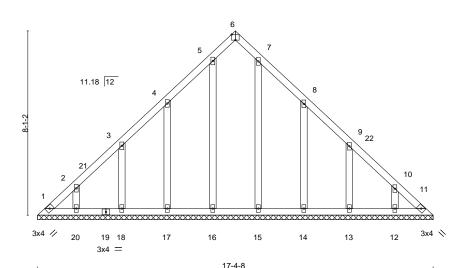


Plate Offsets (X,Y)-- [6:0-2-0,Edge] LOADING (psf) SPACING-GRIP 2-0-0 CSI DEFL. in (loc) I/defl L/d **PLATES** 25.0 TCLL (roof) Plate Grip DOL 1.15 TC 0.05 Vert(LL) 999 MT20 197/144 n/a n/a Snow (Pf/Pg) 15.4/20.0 Lumber DOL 1.15 ВС 0.03 Vert(CT) n/a n/a 999 **TCDL** 10.0 Rep Stress Incr YES WB 0.11 Horz(CT) 0.00 11 n/a n/a **BCLL** 0.0 Code IRC2018/TPI2014 FT = 20% Weight: 81 lb Matrix-S 10.0 BCDL

17-4-8

LUMBER-**BRACING-**TOP CHORD

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

REACTIONS. All bearings 17-4-8. Max Horz 1=-184(LC 12) (lb) -Max Uplift All uplift 100 lb or less at joint(s) 1, 11, 20, 18, 17, 16, 14, 13, 12

Max Grav All reactions 250 lb or less at joint(s) 1, 11, 20, 18, 17, 16, 15, 14, 13, 12

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

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=4.2psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-4-7 to 3-4-7, Interior(1) 3-4-7 to 8-8-4, Exterior(2R) 8-8-4 to 11-8-6, Interior(1) 11-8-6 to 17-0-1 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) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 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) All plates are 2x4 MT20 unless otherwise indicated.
- 5) Gable requires continuous bottom chord bearing.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 11, 20, 18, 17, 16, 14, 13, 12.
- 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.





MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.



Job Truss Truss Type Qty Summit/Stoney Creek #86 141826324 2387107 LG5 GABLE Job Reference (optional)
8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Jun 26 12:09:11 2020 Page 1

Builders FirstSource (Valley Center), Valley Center, KS - 67147,

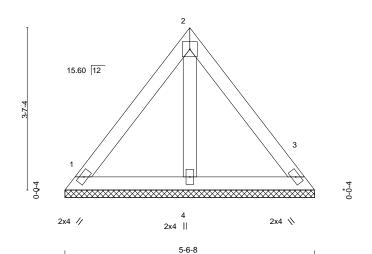
Structural wood sheathing directly applied or 5-6-8 oc purlins.

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

ID:VPVqvFnP0P0b1j2tZrlOqezdKbx-JYLJXxHEFIW9ZlYjckPA8Y7F9aZCYrz8EEL9YFz2Q16 5-6-8 2-9-4 2-9-4

4x4 =

Scale = 1:25.6



LOADING (psf) TCLL (roof) 25.0 Snow (Pf/Pg) 15.4/20.0 TCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES	CSI. TC 0.13 BC 0.05 WB 0.02	DEFL. Vert(LL) Vert(CT) Horz(CT)	in (n/a n/a 0.00	(loc) - - 3	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20	GRIP 197/144
BCLL 0.0 BCDL 10.0	Code IRC2018/TPI2014	Matrix-P	11012(01)	0.00	Ü	n, a	11/4	Weight: 19 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

OTHERS

REACTIONS.

1=5-6-8, 3=5-6-8, 4=5-6-8 (size) Max Horz 1=87(LC 13) Max Uplift 1=-26(LC 14), 3=-26(LC 14)

Max Grav 1=144(LC 2), 3=144(LC 2), 4=157(LC 2)

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

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=4.2psf; h=15ft; 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
- 3) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 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) Gable requires continuous bottom chord bearing.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



June 26,2020



Job Truss Truss Type Qty Summit/Stoney Creek #86 141826325 2387107 LG6 GABLE

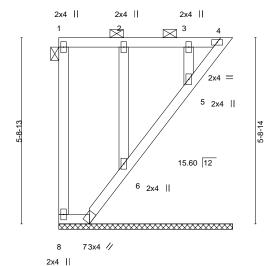
Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

Job Reference (optional)
8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Jun 26 12:09:13 2020 Page 1 ID:VPVqvFnP0P0b1j2tZrlOqezdKbx-FxT4ydJUnvnspch6j9ReDzCYcOEy0l5RhYqFd7z2Q14

5-4-4

Scale = 1:35.5



0-11-5	5-4-4
0-11-5	4-4-15

LOADING (psf) TCLL (roof) 25.0 Snow (Pf/Pg) 20.4/20.0 TCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES	CSI. TC 0.26 BC 0.03 WB 0.04	DEFL. Vert(LL) Vert(CT) Horz(CT)	in n/a n/a -0.00	(loc) - - 4	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20	GRIP 197/144
BCLL 0.0 BCDL 10.0	Code IRC2018/TPI2014	Matrix-P	,					Weight: 27 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SPF No.2 BOT CHORD 2x4 SPF No.2

2x4 SPF No.2 **WEBS OTHERS** 2x4 SPF No.2 TOP CHORD

BOT CHORD

BRACING-

2-0-0 oc purlins: 1-4, except end verticals. Rigid ceiling directly applied or 10-0-0 oc bracing, Except:

6-0-0 oc bracing: 4-5.

REACTIONS. All bearings 5-4-4.

Max Horz 8=-137(LC 12) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 8, 4, 7, 6, 5 Max Grav All reactions 250 lb or less at joint(s) 8, 4, 7, 6, 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=4.2psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Corner(3) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 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, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- 3) Provide adequate drainage to prevent water ponding.
- 4) Gable requires continuous bottom chord bearing.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 8, 4, 7, 6, 5.
- 7) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 4, 6, 5.
- 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.



June 26,2020





Job Truss Truss Type Summit/Stoney Creek #86 141826326 2387107 LG7 GABLE Job Reference (optional)
8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Jun 26 12:09:13 2020 Page 1

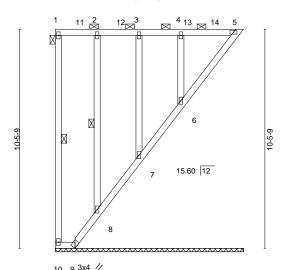
Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

ID:VPVqvFnP0P0b1j2tZrlOqezdKbx-FxT4ydJUnvnspch6j9ReDzCUcODU0kWRhYqFd7z2Q14

8-11-15

Scale = 1:55.0



10	9		

0-11-5

	U-1	1-5 0-0-10	J					
LOADING (psf) TCLL (roof) 25.0 Snow (Pf/Pg) 20.4/20.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15	CSI. TC 0.52 BC 0.06	DEFL. Vert(LL) Vert(CT)	in (lo n/a n/a	oc) l/defl - n/a - n/a	L/d 999 999	PLATES MT20	GRIP 197/144
TCDL 10.0 BCLL 0.0 BCDL 10.0	Rep Stress Incr YES Code IRC2018/TPI2014	WB 0.08 Matrix-P	Horz(CT)	0.01	5 n/a	n/a	Weight: 61 lb	FT = 20%

8-11-15

LUMBER-

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

BRACING-

TOP CHORD **BOT CHORD** WEBS

2-0-0 oc purlins: 1-5, except end verticals. Rigid ceiling directly applied or 6-0-0 oc bracing.

1 Row at midpt 1-10, 2-8

REACTIONS. All bearings 8-11-15.

(lb) -Max Horz 10=-256(LC 12)

Max Uplift All uplift 100 lb or less at joint(s) 10, 8, 7, 6 except 5=-158(LC 14), 9=-165(LC 12)

Max Grav All reactions 250 lb or less at joint(s) 10, 5, 9, 8, 7 except 6=252(LC 2)

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

BOT CHORD 8-9=-308/294, 7-8=-301/286, 6-7=-300/289, 5-6=-305/283

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Corner(3) 0-1-12 to 3-1-12, Exterior(2) 3-1-12 to 5-8-6, Corner(3) 5-8-6 to 8-8-6 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 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, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- 3) Provide adequate drainage to prevent water ponding.
- 4) All plates are 2x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 10, 8, 7, 6 except (jt=lb) 5=158, 9=165.
- 8) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 5, 8, 7, 6.
- 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.



June 26,2020



Job Truss Truss Type Qty Summit/Stoney Creek #86 141826327 2387107 LG8 GABLE

Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

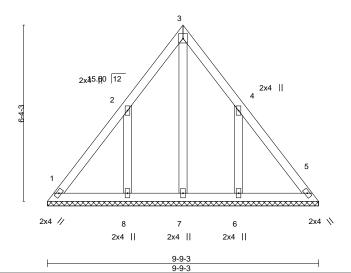
Job Reference (optional)
8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Jun 26 12:09:14 2020 Page 1 ID:VPVqvFnP0P0b1j2tZrlOqezdKbx-k71S9zK7YDvjQlGlHsztmBlmxoa1lC2awCZp9az2Q13

4-10-9 4-10-9

> Scale = 1:41.5 4x4 =

> > Structural wood sheathing directly applied or 6-0-0 oc purlins.

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



LOADING (psf) TCLL (roof) 25.0 Snow (Pf/Pg) 15.4/20.0 TCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES	CSI. TC 0.09 BC 0.04 WB 0.06	DEFL. Vert(LL) Vert(CT) Horz(CT)	in (le n/a n/a 0.00	loc) l/ - - 5	l/defl n/a n/a n/a n/a	L/d 999 999 n/a	PLATES MT20	GRIP 197/144
BCLL 0.0	Code IRC2018/TPI2014	Matrix-S	` ′					Weight: 42 lb	FT = 20%
BCDL 10.0	Code IRC2016/1F12014	IVIALITX-S						Weight. 42 ib	F1 = 2076

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

OTHERS 2x4 SPF No.2

REACTIONS. All bearings 9-9-3.

(lb) - Max Horz 1=-161(LC 12)

Max Uplift All uplift 100 lb or less at joint(s) 1, 5 except 8=-150(LC 14), 6=-150(LC 14) Max Grav All reactions 250 lb or less at joint(s) 1, 5, 7 except 8=318(LC 23), 6=318(LC 24)

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

2-8=-281/214, 4-6=-281/214 **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; TCDL=6.0psf; BCDL=4.2psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-3-9 to 3-3-9, Interior(1) 3-3-9 to 4-10-9, Exterior(2R) 4-10-9 to 7-10-9, Interior(1) 7-10-9 to 9-5-10 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
- 3) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 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) Gable requires continuous bottom chord bearing.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 5 except (jt=lb) 8=150, 6=150,
- 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.



June 26,2020



Job Truss Truss Type Summit/Stoney Creek #86 141826328 2387107 LG9 GABLE Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Jun 26 12:09:15 2020 Page 1

Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

ID:VPVqvFnP0P0b1j2tZrlOqezdKbx-CJbqMJKlJW1a2vrVraU6lOHqTCw8Udxk8sJMh0z2Q12

2-0-0 oc purlins: 1-5, except end verticals.

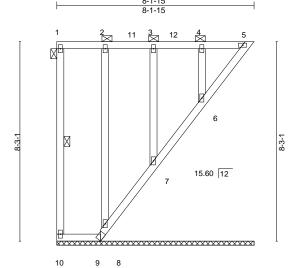
6-0-0 oc bracing: 5-6.

1 Row at midpt

Rigid ceiling directly applied or 10-0-0 oc bracing, Except:

1-10

Scale: 1/4"=1'



1-9-12 8-1-15 6-4-3

3x4 //

LOADING (psf) TCLL (roof) 25.0 Snow (Pf/Pg) 20.4/20.0 TCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES	CSI. TC 0.56 BC 0.05 WB 0.15	DEFL. Vert(LL) Vert(CT) Horz(CT)	in n/a n/a 0.00	(loc) - - 5	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20	GRIP 197/144
BCLL 0.0 BCDL 10.0	Code IRC2018/TPI2014	Matrix-P	, ,					Weight: 48 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

WEBS

LUMBER-

REACTIONS.

TOP CHORD 2x4 SPF No.2 2x4 SPF No.2

BOT CHORD WEBS 2x4 SPF No.2

OTHERS 2x4 SPF No.2

(lb) -

All bearings 8-1-15.

Max Horz 10=-201(LC 12) Max Uplift All uplift 100 lb or less at joint(s) 10, 8, 7, 6 except 5=-123(LC 14), 9=-187(LC 12)

Max Grav All reactions 250 lb or less at joint(s) 10, 5, 9, 8, 7, 6

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

BOT CHORD 8-9=-276/291

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Corner(3) 0-1-12 to 3-1-12, Exterior(2) 3-1-12 to 4-10-6, Corner(3) 4-10-6 to 7-10-6 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 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, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- 3) Provide adequate drainage to prevent water ponding.
- 4) All plates are 2x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 10, 8, 7, 6 except (jt=lb) 5=123, 9=187.
- 8) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 5, 8, 7, 6.
- 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.



June 26,2020



M WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.



Job Truss Truss Type Summit/Stoney Creek #86 141826329 2387107 LG10 GABLE Job Reference (optional)
8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Jun 26 12:09:03 2020 Page 1

Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

ID:VPVqvFnP0P0b1j2tZrlOqezdKbx-Y0sIrCBD8qWHc3wB82GlpsnlfMqNgCzzO_PkGiz2Q1E

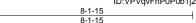
2-0-0 oc purlins: 1-5, except end verticals.

6-0-0 oc bracing: 5-6.

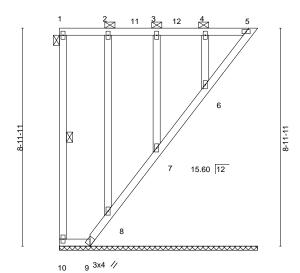
1 Row at midpt

Rigid ceiling directly applied or 10-0-0 oc bracing, Except:

1-10



Scale = 1:47.4



1-3-1	8-1-15	
1-3-1	6-10-14	

LOADING (psf) TCLL (roof) 25.0 Snow (Pf/Pg) 20.4/20.0 TCDL 10.0 BCLL 0.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES	CSI. TC 0.67 BC 0.05 WB 0.15	DEFL. Vert(LL) Vert(CT) Horz(CT)	in n/a n/a 0.01	(loc) - - 5	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20	GRIP 197/144
BCDL 10.0	Code IRC2018/TPI2014	Matrix-P						Weight: 49 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

WEBS

LUMBER-

TOP CHORD 2x4 SPF No.2 BOT CHORD 2x4 SPF No.2

WEBS 2x4 SPF No.2 **OTHERS** 2x4 SPF No.2

REACTIONS. All bearings 8-1-15. Max Horz 10=-219(LC 12) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 10, 8, 7, 6 except 5=-134(LC 14), 9=-144(LC 12)

Max Grav All reactions 250 lb or less at joint(s) 10, 5, 9, 8, 7, 6

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

BOT CHORD 8-9=-270/259, 7-8=-261/250, 6-7=-261/250, 5-6=-262/242

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Corner(3) 0-1-12 to 3-1-12, Exterior(2) 3-1-12 to 4-10-6, Corner(3) 4-10-6 to 7-10-6 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 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, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- 3) Provide adequate drainage to prevent water ponding.
- 4) All plates are 2x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 10, 8, 7, 6 except (jt=lb) 5=134, 9=144.
- 8) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 5, 8, 7, 6.
- 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.



June 26,2020



Job Truss Truss Type Qty Summit/Stoney Creek #86 141826330 2387107 LG11 GABLE Job Reference (optional)
8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Jun 26 12:09:04 2020 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:VPVqvFnP0P0b1j2tZrlOqezdKbx-0CQg3YCrv8e8EDVNimnXM4K1Ym9lPga6de8Ho9z2Q1D 17-7-3 7-6-6 Scale = 1:43.9 3x4 =3x4 🚿 29 5 30 6 ⊠^{9 31 32} ⊠ ¹⁰ 11 33 12 11.18 12 13 34 14 15

Plate Offsets (X.Y)-- [7:0-1-12.0-1-8], [11:0-1-10.Edge]

25

24 23 22

3x4 =

26

1 late ellecte (71,1) [1.0 1 12	Tate Offices (X,1) [1.0 + 12,0 + 0], [11.0 + 10,20g0]								
LOADING (psf) TCLL (roof) 25.0 Snow (Pf/Pg) 20.4/20.0 TCDL 10.0 BCLL 0.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES	CSI. TC 0.22 BC 0.10 WB 0.13	DEFL. in (loc) l/defl L/d Vert(LL) n/a - n/a 999 Vert(CT) n/a - n/a 999 Horz(CT) 0.01 15 n/a n/a	PLATES GRIP MT20 197/144					
BCDL 10.0	Code IRC2018/TPI2014	Matrix-S		Weight: 140 lb FT = 20%					

20

TOP CHORD

BOT CHORD

19

18

17

Structural wood sheathing directly applied or 6-0-0 oc purlins,

except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 1-11.

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

21

LUMBER-**BRACING-**

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

REACTIONS. All bearings 25-1-9. Max Horz 28=-235(LC 12) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 28, 15, 27, 26, 25, 24, 22, 21, 20, 19, 18, 17, 16 Max Grav All reactions 250 lb or less at joint(s) 28, 15, 27, 26, 25, 24, 22, 21, 20, 19, 18, 17 except 16=260(LC 24)

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

TOP CHORD 14-15=-332/265

28

27

BOT CHORD 27-28=-200/267, 26-27=-200/267, 25-26=-200/267, 24-25=-200/267, 22-24=-200/267, 21-22=-200/267, 20-21=-200/267, 19-20=-200/267, 18-19=-200/267, 17-18=-200/267,

16-17=-200/267, 15-16=-200/267

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-1-12 to 3-1-12, Interior(1) 3-1-12 to 17-7-3, Exterior(2R) 17-7-3 to 20-7-3, Interior(1) 20-7-3 to 24-9-2 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 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, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- 3) Provide adequate drainage to prevent water ponding.
- 4) All plates are 2x4 MT20 unless otherwise indicated.
- 5) Gable requires continuous bottom chord bearing.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 28, 15, 27, 26, 25, 24, 22, 21, 20, 19, 18, 17, 16,
- 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.



16

June 26,2020



MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

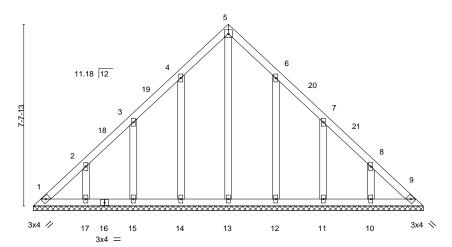


Job Truss Truss Type Qty Summit/Stoney Creek #86 141826331 2387107 LG12 GABLE Job Reference (optional)
8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Jun 26 12:09:06 2020 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147,

ID:VPVqvFnP0P0b1j2tZrlOqezdKbx-zbYQTED5RlusTXfmpBp?RVPQbZsRtaBP4ydOt1z2Q1B

8-2-9 8-2-9 16-5-2 8-2-9

> Scale = 1:48.5 4x4 =



LOADING (psf) TCLL (roof) 25.0 Snow (Pf/Pg) 15.4/20.0 TCDL 10.0 BCLL 0.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC 2018/TPI2014	CSI. TC 0.05 BC 0.03 WB 0.12 Matrix-S
BCDL 10.0	Code IRC2018/TPI2014	Matrix-S

BRACING-

DEFL.

Vert(LL)

Vert(CT)

Horz(CT)

n/a

n/a

0.00

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.

I/defI

n/a

n/a

n/a

9

L/d

999

999

n/a

PLATES

Weight: 74 lb

MT20

GRIP

197/144

FT = 20%

BOT CHORD 2x4 SPF No.2 **OTHERS** 2x4 SPF No.2

2x4 SPF No.2

REACTIONS. All bearings 16-5-2. Max Horz 1=-174(LC 12) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 1, 9, 14, 15, 17, 12, 11, 10

Max Grav All reactions 250 lb or less at joint(s) 1, 9, 13, 14, 15, 17, 12, 11, 10

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

NOTES-

LUMBER-

TOP CHORD

- 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=4.2psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-4-7 to 3-4-7, Interior(1) 3-4-7 to 8-2-9, Exterior(2R) 8-2-9 to 11-2-9, Interior(1) 11-2-9 to 16-0-11 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 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) All plates are 2x4 MT20 unless otherwise indicated.
- 5) Gable requires continuous bottom chord bearing.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 9, 14, 15, 17,
- 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.



June 26,2020



Job Truss Truss Type Qty Summit/Stoney Creek #86 141826332 2387107 M1 Roof Special Girder Job Reference (optional)
8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Jun 26 12:09:18 2020 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:VPVqvFnP0P0b1j2tZrlOqezdKbx-cuGz?LNdcRP9vNa4Wi1pw1vHSPoAhnUArqX0lLz2Q1?

5-0-1

15-4-1

5-0-1

Scale = 1:39.0

20-8-0

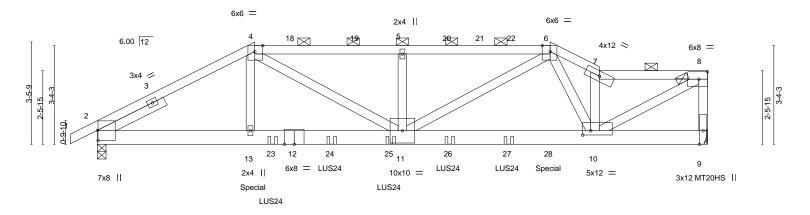
3-7-15

1-8-0

Structural wood sheathing directly applied or 2-8-10 oc purlins,

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

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



	5-3-15 5-3-15	10-4-0 5-0-1	<u>15-4-1</u> 5-0-1	17-0-1	20-8-0 3-7-15	
Plate Offsets (X,Y) [2:0-4-3,	0-0-4], [4:0-3-4,Edge], [6:0-3-4,E	dge], [10:0-3-4,0-1-12]				
LOADING (psf) TCLL (roof) 25.0 Snow (Pf/Pg) 20.4/20.0 TCDL 10.0 BCLL 0.0 BCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr NC Code IRC2018/TPI2014	TC 0.83 BC 0.67	DEFL. in (loc) Vert(LL) -0.22 10-11 Vert(CT) -0.37 10-11 Horz(CT) 0.04 9	I/defl L/d >999 240 >670 180 n/a n/a	PLATES MT20 MT20HS Weight: 97 lt	GRIP 197/144 148/108 FT = 20%

TOP CHORD

BOT CHORD

LUMBER-**BRACING-**

TOP CHORD 2x4 SPF 1650F 1.5E *Except*

6-7,7-8: 2x4 SPF No.2 2x6 SPF 2100F 1.8E

BOT CHORD WEBS 2x4 SPF No.2

SLIDER Left 2x4 SPF No.2 2-6-0

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

Max Horz 2=94(LC 11)

Max Uplift 9=-338(LC 12), 2=-350(LC 12) Max Grav 9=2206(LC 37), 2=2096(LC 2)

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

TOP CHORD 2-4=-3655/615, 4-5=-4700/805, 5-6=-4700/805, 6-7=-3838/661, 7-8=-3565/600,

8-9=-2267/371

BOT CHORD 2-13=-524/3244, 11-13=-521/3217, 10-11=-511/3160

4-13=-69/656, 4-11=-292/1729, 5-11=-576/100, 6-11=-292/1796, 7-10=-1770/313, **WEBS**

8-10=-656/4051, 6-10=-104/700

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=4.2psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 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, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- 4) Unbalanced snow loads have been considered for this design.
- 5) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- 6) Provide adequate drainage to prevent water ponding.
- 7) All plates are MT20 plates unless otherwise indicated.
- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 9) Refer to girder(s) for truss to truss connections.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 9=338, 2=350
- 11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 13) Use Simpson Strong-Tie LUS24 (4-10d Girder, 2-10d Truss, Single Ply Girder) or equivalent spaced at 2-0-0 oc max. starting at 5-11-4 from the left end to 13-11-4 to connect truss(es) to front face of bottom chord.

Centifilled on bages where hanger is in contact with lumber.



June 26,2020

M WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.



Job	Truss	Truss Type	Qty	Ply	Summit/Stoney Creek #86	
0007407		Dark Carriel Circles				141826332
2387107	M1	Roof Special Girder	1	1	Job Reference (optional)	
					JOD Reference (Optional)	

Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Jun 26 12:09:18 2020 Page 2 ID:VPVqvFnP0P0b1j2tZrlOqezdKbx-cuGz?LNdcRP9vNa4Wi1pw1vHSPoAhnUArqX0lLz2Q1?

NOTES-

15) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 422 lb down and 74 lb up at 5-3-15, and 562 lb down and 128 lb up at 15-4-1 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

16) 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: 1-4=-51, 4-6=-61, 6-7=-51, 7-8=-61, 9-14=-20

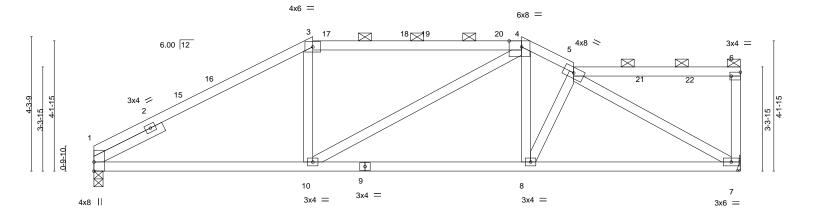
Concentrated Loads (lb)

Vert: 13=-422(F) 23=-287(F) 24=-287(F) 25=-287(F) 26=-287(F) 27=-287(F) 28=-562(F)



Job Truss Truss Type Qty Summit/Stoney Creek #86 141826333 2387107 M2 Roof Special Job Reference (optional) Builders FirstSource (Valley Center), Valley Center, KS - 67147, 8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Jun 26 12:09:25 2020 Page 1 ID:VPVqvFnP0P0b1j2tZrlOqezdKbx-vFBcTkS0ybH9FScQQgfSiViTVEDoq_ZCSQku1Rz2Q0u 15-4-1 13-8-1 6-11-15 6-8-1 1-8-0 5-3-15

Scale = 1:36.8



1		0-11-13				3-0- I		1 13)-4-1		20-6-0	
		6-11-15		I	(6-8-1		<u>'</u> 1-	-8-0		5-3-15	
Plate Offsets (X,)	/) [4:0-4-12	,Edge], [6:Edge,0-1-8]										
LOADING (psf) TCLL (roof) Snow (Pf/Pg) 20 TCDL BCLL BCDL	25.0 0.4/20.0 10.0 0.0 10.0	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr Code IRC2018/TF	2-0-0 1.15 1.15 YES PI2014	CSI. TC BC WB Matrix	0.84 0.54 0.84 x-AS	DEFL. Vert(LL) Vert(CT) Horz(CT)	in -0.08 -0.15 0.04	(loc) 8-10 8-10 7	l/defl >999 >999 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 82 lb	GRIP 197/144 FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x4 SPF No.2 BOT CHORD 2x4 SPF No.2

WEBS 2x4 SPF No.2

SLIDER Left 2x4 SPF No.2 2-6-0

REACTIONS. (size) 1=0-3-8, 7=Mechanical

Max Horz 1=118(LC 15)

Max Uplift 1=-74(LC 16), 7=-76(LC 16) Max Grav 1=923(LC 2), 7=964(LC 40)

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

 $1-3=-1346/267,\ 3-4=-1146/282,\ 4-5=-1272/270$ TOP CHORD 1-10=-297/1151, 8-10=-257/1142, 7-8=-272/1180 BOT CHORD **WEBS** 3-10=0/265, 4-8=0/281, 5-7=-1311/276

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=4.2psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-0-0 to 3-0-0, Interior(1) 3-0-0 to 6-11-15, Exterior(2R) 6-11-15 to 9-11-15, Interior(1) 9-11-15 to 13-8-1, Exterior(2E) 13-8-1 to 15-4-1, Interior(1) 15-4-1 to 20-6-4 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
- 3) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 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, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- 4) Unbalanced snow loads have been considered for this design.
- 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) 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) 1, 7.
- 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) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



Structural wood sheathing directly applied, except end verticals, and

2-0-0 oc purlins (2-10-13 max.): 3-4, 5-6.

Rigid ceiling directly applied.

June 26,2020



MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.



Job Truss Truss Type Qty Summit/Stoney Creek #86 141826334 2387107 МЗ Roof Special Job Reference (optional)
8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Jun 26 12:09:27 2020 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:VPVqvFnP0P0b1j2tZrlOqezdKbx-rdJMuQUGUCXtUImoY5hwownp01uul0eVvjD?5Jz2Q0s 13-8-1 20-11-4 4-5-12 4-2-4 3-4-1 1-8-0 7-3-3

Scale = 1:38.8

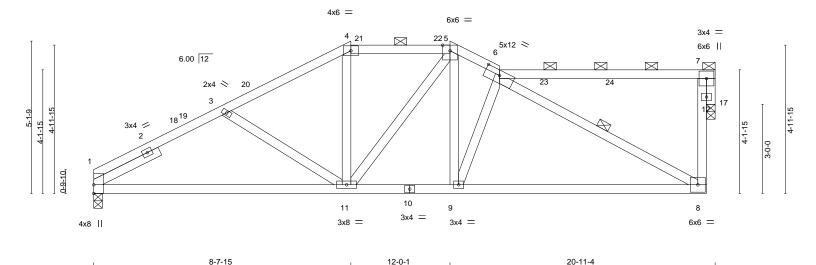


Plate Offsets (X,Y)--[6:0-6-0,0-2-1] LOADING (psf) SPACING-2-0-0 CSI DEFL. in (loc) I/defl L/d **PLATES** GRIP 25.0 TCLL (roof) Plate Grip DOL 1.15 TC 0.84 Vert(LL) -0.13 8-9 >999 240 MT20 197/144 Snow (Pf/Pg) 20.4/20.0 Lumber DOL 1.15 ВС 0.57 Vert(CT) -0.27 8-9 >913 180 TCDL 10.0 Rep Stress Incr YES WB 0.36 Horz(CT) 0.08 17 n/a n/a **BCLL** 0.0

BRACING-

TOP CHORD

BOT CHORD

WEBS

Matrix-AS

8-11-3

2-0-0 oc purlins (5-8-9 max.): 4-5, 6-7.

Rigid ceiling directly applied.

1 Row at midpt

Structural wood sheathing directly applied, except end verticals, and

LUMBER-

BCDL

TOP CHORD 2x4 SPF No.2

BOT CHORD 2x4 SPF No.2 WEBS 2x4 SPF No.2

OTHERS 2x4 SPF No.2 SLIDER Left 2x4 SPF No.2 2-6-0

REACTIONS. (size) 1=0-3-8, 17=0-3-8

10.0

Max Horz 1=121(LC 15)

Max Uplift 1=-71(LC 16), 17=-79(LC 16)

Max Grav 1=948(LC 42), 17=921(LC 41)

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

TOP CHORD 1-3=-1383/282, 3-4=-1204/248, 4-5=-1023/249, 5-6=-1222/269, 8-12=-102/674,

Code IRC2018/TPI2014

7-12=-102/674

BOT CHORD 1-11=-366/1198, 9-11=-242/1014, 8-9=-284/1157

WEBS 3-11=-305/115, 4-11=0/257, 5-9=-69/502, 6-9=-415/132, 6-8=-1174/266, 7-17=-999/190

- 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=4.2psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-0-0 to 3-0-0, Interior(1) 3-0-0 to 8-7-15, Exterior(2R) 8-7-15 to 11-7-15, Interior(1) 11-7-15 to 12-0-1, Exterior(2E) 12-0-1 to 13-8-1, Interior(1) 13-8-1 to 20-6-0 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) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 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, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- 4) Unbalanced snow loads have been considered for this design.
- 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) Bearing at joint(s) 17 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 17.
- 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) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



Weight: 92 lb

FT = 20%

June 26,2020



MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.



Job Truss Truss Type Qty Summit/Stoney Creek #86 141826335 2387107 M4 Roof Special Job Reference (optional)
8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Jun 26 12:09:29 2020 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:VPVqvFnP0P0b1j2tZrlOqezdKbx-n0R7I5VX0qobj3wBfWkOtLsEprbxmrSoM1i6ACz2Q0q 12-6-11

2-2-11

5-0-4

16-7-4

4-0-8

Scale = 1:39.7

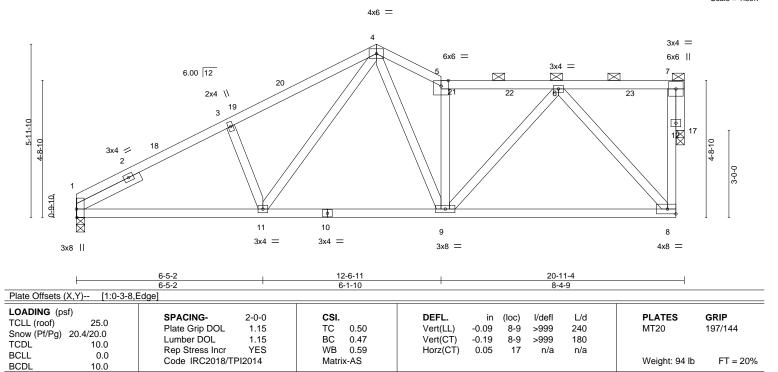
20-11-4

4-4-0

Structural wood sheathing directly applied, except end verticals, and

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

Rigid ceiling directly applied



BRACING-

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x4 SPF No.2

BOT CHORD 2x4 SPF No.2 WEBS 2x4 SPF No.2

OTHERS 2x4 SPF No.2 SLIDER Left 2x4 SPF No.2 2-6-0

REACTIONS. (size) 1=0-3-8, 17=0-3-4

Max Horz 1=133(LC 15)

Max Uplift 1=-67(LC 16), 17=-82(LC 16) Max Grav 1=936(LC 2), 17=909(LC 2)

5-3-12

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

TOP CHORD 1-3=-1395/246, 3-4=-1320/288, 4-5=-1236/265, 5-6=-1056/205, 8-12=-142/808,

7-12=-142/808

BOT CHORD 1-11=-343/1202, 9-11=-229/874, 8-9=-190/723

3-11=-285/148, 4-11=-109/451, 4-9=-74/589, 5-9=-708/176, 6-9=-72/500, 6-8=-973/225, **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; TCDL=6.0psf; BCDL=4.2psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-0-0 to 3-0-0, Interior(1) 3-0-0 to 10-4-0, Exterior(2E) 10-4-0 to 12-6-11, Interior(1) 12-6-11 to 20-6-0 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) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 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, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- 4) Unbalanced snow loads have been considered for this design.
- 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) Bearing at joint(s) 17 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 17.
- 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) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



June 26,2020

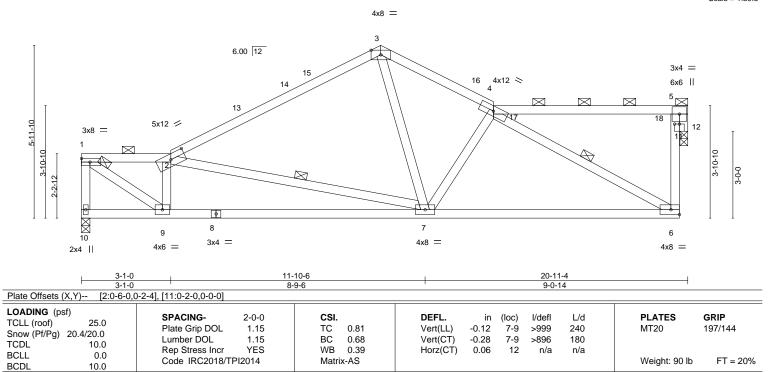


MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.



Job Truss Truss Type Qty Summit/Stoney Creek #86 141826336 2387107 M5 Roof Special Job Reference (optional)
8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Jun 26 12:09:30 2020 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:VPVqvFnP0P0b1j2tZrlOqezdKbx-GC?VWRW9n7wSLDVNDDFdPZPKIFutVLuxbhRfiez2Q0p 14-2-11 20-11-4 7-3-0 3-10-11 6-8-9

Scale = 1:39.8



LUMBER-

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

WEBS 2x4 SPF No.2 **OTHERS** 2x4 SPF No.2 **BRACING-**TOP CHORD

Structural wood sheathing directly applied, except end verticals, and

2-0-0 oc purlins (4-6-11 max.): 1-2, 4-5.

BOT CHORD Rigid ceiling directly applied. **WEBS** 1 Row at midpt

REACTIONS. (size) 10=0-3-8, 12=0-3-4

Max Horz 10=140(LC 15)

Max Uplift 10=-72(LC 16), 12=-77(LC 16) Max Grav 10=929(LC 2), 12=903(LC 2)

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

TOP CHORD 1-10=-929/154, 1-2=-1296/213, 2-3=-1146/216, 3-4=-1209/245, 6-11=-96/684,

5-11=-96/684

7-9=-344/1353, 6-7=-265/1175

1-9=-250/1589, 2-9=-768/212, 2-7=-515/142, 3-7=-54/573, 4-7=-351/131, **WEBS**

4-6=-1199/248, 5-12=-1028/190

BOT CHORD

- 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=4.2psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-1-12 to 3-1-0, Interior(1) 3-1-0 to 10-4-0, Exterior(2R) 10-4-0 to 13-4-0, Interior(1) 13-4-0 to 20-6-0 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) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 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, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- 4) Unbalanced snow loads have been considered for this design.
- 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) Bearing at joint(s) 12 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 10, 12.
- 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) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

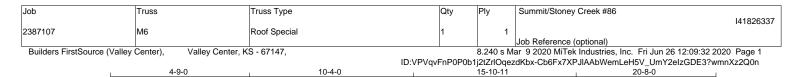


June 26,2020



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5-6-11

5-7-0

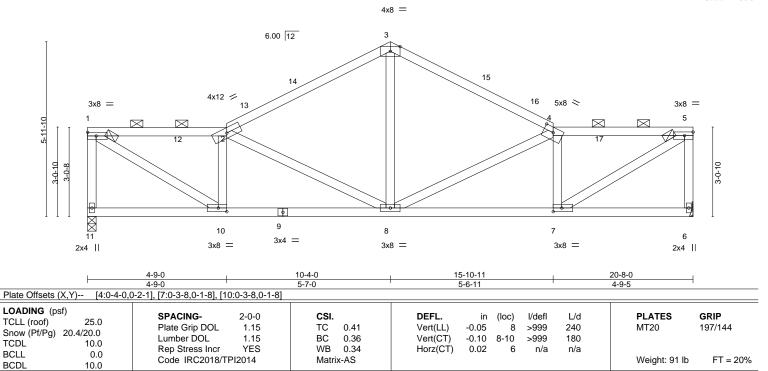
Scale = 1:39.3

4-9-5

Structural wood sheathing directly applied, except end verticals, and

2-0-0 oc purlins (5-1-8 max.): 1-2, 4-5.

Rigid ceiling directly applied



BRACING-

TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

TOP CHORD 2x4 SPF No.2

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

(size) 11=0-3-8, 6=Mechanical

4-9-0

Max Horz 11=144(LC 15) Max Uplift 11=-74(LC 16), 6=-74(LC 16) Max Grav 11=917(LC 2), 6=917(LC 2)

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

1-11=-870/184, 1-2=-1183/229, 2-3=-1140/225, 3-4=-1140/225, 4-5=-1182/230, TOP CHORD

5-6=-869/184

BOT CHORD 8-10=-297/1215. 7-8=-254/1213

WEBS 1-10=-248/1366, 2-10=-623/181, 2-8=-431/122, 3-8=-41/479, 4-8=-430/122,

4-7=-621/181, 5-7=-248/1364

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=4.2psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-1-12 to 3-1-12, Interior(1) 3-1-12 to 10-4-0, Exterior(2R) 10-4-0 to 13-4-0, Interior(1) 13-4-0 to 20-6-4 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
- 3) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 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, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- 4) Unbalanced snow loads have been considered for this design.
- 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) 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) 11, 6.
- 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) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



June 26,2020



MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.





Scale = 1:39.3 4x8 = 6.00 12 15 4x12 // 4x8 = \boxtimes 4x12 > 2x4 || 3-10-8 2-2-10 2-2-10 T o 10 9 7 8 6 3x4 =3x4 =5x8 = 3x4 II 3x6 =6-11-12 LOADING (psf) SPACING-2-0-0 CSI. DEFL. I/defI L/d **PLATES** GRIP (loc) TCLL (roof) 25.0 Plate Grip DOL Vert(LL) -0.06 240 197/144 1.15 TC 0.81 6-7 >999 MT20 Snow (Pf/Pg) 20.4/20.0 Lumber DOL 1.15 ВС 0.44 Vert(CT) -0.13 6-7 >999 180 TCDI 10.0 Rep Stress Incr YES WB 0.37 Horz(CT) 0.03 6 n/a n/a BCLL 0.0 Code IRC2018/TPI2014 Matrix-AS Weight: 90 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-TOP CHORD

BCDL

2x4 SPF No 2

10.0

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

REACTIONS. 10=0-3-8, 6=Mechanical (size)

Max Horz 10=-159(LC 14)

Max Uplift 10=-76(LC 16), 6=-73(LC 16) Max Grav 10=917(LC 2), 6=917(LC 2)

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

TOP CHORD 1-10=-852/200, 1-2=-1169/245, 2-3=-1328/315, 3-4=-1308/232

BOT CHORD 7-8=-160/897, 6-7=-282/1280

WEBS 1-8=-248/1268, 2-8=-912/249, 3-8=-111/565, 3-7=-16/351, 4-7=-305/171,

4-6=-1520/336

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=4.2psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-1-12 to 3-1-12, Interior(1) 3-1-12 to 10-4-0, Exterior(2R) 10-4-0 to 13-4-0, Interior(1) 13-4-0 to 20-6-4 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
- 3) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 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, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- 4) Unbalanced snow loads have been considered for this design.
- 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) 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) 10, 6.
- 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) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



Structural wood sheathing directly applied, except end verticals, and

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

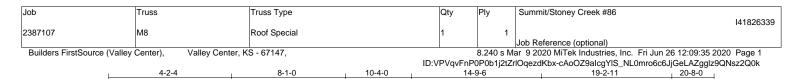
Rigid ceiling directly applied.

June 26,2020



MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.





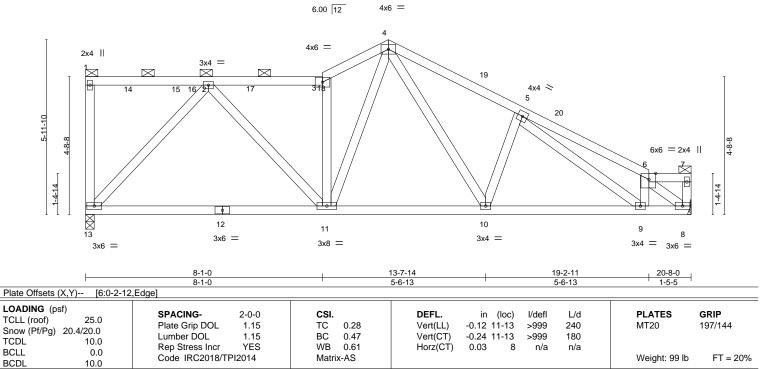
4-5-6

2-3-0

3-10-12

Scale = 1:39.3

1-5-5



LUMBER-

TOP CHORD 2x4 SPF No.2

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

BRACING-TOP CHORD

BOT CHORD

Structural wood sheathing directly applied, except end verticals, and

4-5-6

2-0-0 oc purlins (5-7-9 max.): 1-3, 6-7. Rigid ceiling directly applied

REACTIONS. (size) 13=0-3-8, 8=Mechanical

Max Horz 13=-174(LC 14) Max Uplift 13=-77(LC 16), 8=-72(LC 16)

Max Grav 13=917(LC 2), 8=932(LC 41)

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

2-3=-1031/232, 3-4=-1165/286, 4-5=-1310/294, 5-6=-1286/221 TOP CHORD BOT CHORD $11\text{-}13\text{=-}108/681,\ 10\text{-}11\text{=-}105/839,\ 9\text{-}10\text{=-}197/1204,\ 8\text{-}9\text{=-}174/1058}$

WFBS 2-13=-971/243, 2-11=-82/601, 3-11=-686/192, 4-11=-96/539, 4-10=-114/493,

5-10=-344/145, 6-8=-1377/209

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=4.2psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-1-12 to 3-1-12, Interior(1) 3-1-12 to 10-4-0, Exterior(2R) 10-4-0 to 13-4-0, Interior(1) 13-4-0 to 20-6-4 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
- 3) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 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, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- 4) Unbalanced snow loads have been considered for this design.
- 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) 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) 13, 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) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



June 26,2020



MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.



Job Truss Truss Type Qty Summit/Stoney Creek #86 141826340 2387107 М9 Hip Job Reference (optional)
8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Jun 26 12:09:37 2020 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:VPVqvFnP0P0b1j2tZrlOqezdKbx-YYw8_qbY7HoShlXj7BtGB1Cel3l7eakzCHeXSkz2Q0i

10-10-5

1-0-10

4-9-2

15-7-6

4-9-2

Scale = 1:37.2

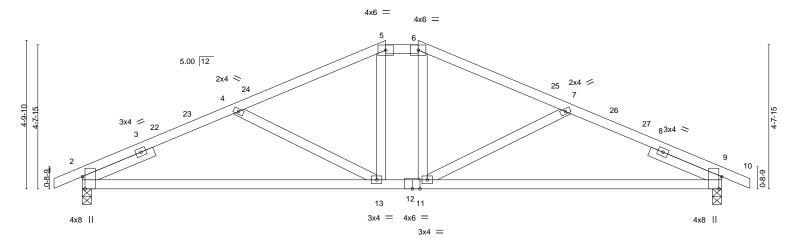
21-7-0

5-0-10

Structural wood sheathing directly applied, except

2-0-0 oc purlins (4-11-11 max.): 5-6.

Rigid ceiling directly applied.



	9-9-11	10-10-3		
	9-9-11	1-0-10	9-9-11	<u>'</u>
Plate Offsets (X,Y) [2:0-4-12	2,Edge], [9:0-4-12,Edge]			
LOADING (psf) TCLL (roof) 25.0 Snow (Pf/Pg) 20.4/20.0 TCDL 10.0 BCLL 0.0 BCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2018/TPI2014	CSI. TC 0.34 BC 0.64 WB 0.19 Matrix-AS	DEFL. in (loc) l/defl L/d Vert(LL) -0.13 11-20 >999 240 Vert(CT) -0.28 11-20 >894 180 Horz(CT) 0.05 9 n/a n/a	PLATES GRIP MT20 197/144 Weight: 78 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

10.10.5

LUMBER-

TOP CHORD 2x4 SPF No.2

0-11-0

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

Left 2x4 SPF No.2 2-6-0, Right 2x4 SPF No.2 2-6-0 SLIDER

5-0-10

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

Max Horz 2=-72(LC 14)

Max Uplift 2=-103(LC 16), 9=-103(LC 16) Max Grav 2=1126(LC 39), 9=1126(LC 39)

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

 $2\text{-}4\text{--}1752/256,\ 4\text{-}5\text{--}1410/207,\ 5\text{-}6\text{--}1228/211,\ 6\text{-}7\text{--}1410/207,\ 7\text{-}9\text{--}1752/256}$ TOP CHORD BOT CHORD

2-13=-174/1580, 11-13=-71/1228, 9-11=-180/1580

WEBS 4-13=-385/123, 5-13=-11/272, 6-11=-11/272, 7-11=-385/122

- 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=4.2psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed: MWFRS (directional) and C-C Exterior(2E) -0-11-0 to 2-1-0, Interior(1) 2-1-0 to 9-9-11, Exterior(2E) 9-9-11 to 10-10-5, Exterior(2R) 10-10-5 to 15-1-3, Interior(1) 15-1-3 to 21-7-0 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) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 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, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- 4) Unbalanced snow loads have been considered for this design.
- 5) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads
- 6) 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.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=103. 9=103.
- 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) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



June 26,2020

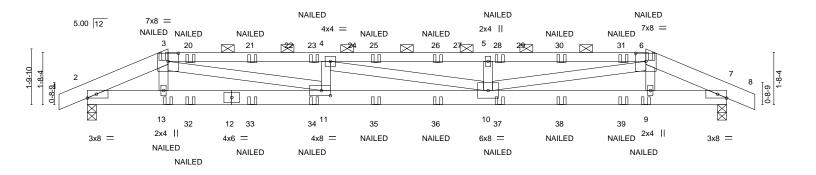


MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.



Job Truss Truss Type Qty Summit/Stoney Creek #86 141826341 2387107 M10 Hip Girder Job Reference (optional) Builders FirstSource (Valley Center), Valley Center, KS - 67147, 8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Jun 26 12:09:20 2020 Page 1 ID:VPVqvFnP0P0b1j2tZrlOqezdKbx-YHOjQ0Ot83ft8gkSe73H?S?ahDOh9paTl807LDz2Q0z 21-7-0 18-0-11 20-8-0 5-2-15 5-1-3 2-7-5

Scale = 1:37.2



	2-7-5 2-7-5	7-8-8 5-1-3	12-11-8 5-2-15		18-0-11 5-1-3		20-8-0 2-7-5	-	
Plate Offsets ()	X,Y) [3:0-4-0,0)-3-3], [6:0-4-0,0-3-3], [11:0-3-8,0-2-0]							
LOADING (psi TCLL (roof) Snow (Pf/Pg) TCDL BCLL	25.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr NO	CSI. TC 0.97 BC 0.99 WB 0.51	DEFL. Vert(LL) Vert(CT) Horz(CT)	in (loc) -0.30 10-11 -0.50 10-11 0.04 7	l/defl >822 >495 n/a	L/d 240 180 n/a	PLATES MT20	GRIP 197/144
BCDL	10.0	Code IRC2018/TPI2014	Matrix-MS					Weight: 90 lb	FT = 20%

LUMBER-**BRACING-**

TOP CHORD 2x6 SPF No.2 *Except* TOP CHORD Structural wood sheathing directly applied or 5-1-0 oc purlins, except

3-6: 2x4 SPF No.2 2-0-0 oc purlins (2-1-0 max.): 3-6.

BOT CHORD 2x6 SPF No.2 **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc bracing **WEBS** 2x4 SPF No.2

REACTIONS. (size) 2=0-3-8, 7=0-3-8 Max Horz 2=24(LC 11)

Max Uplift 2=-108(LC 12), 7=-108(LC 12)

Max Grav 2=988(LC 2), 7=988(LC 2)

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

2-3=-1983/154, 3-4=-3810/307, 4-5=-3759/302, 5-6=-3759/302, 6-7=-1998/156 TOP CHORD BOT CHORD 2-13=-105/1815, 11-13=-109/1813, 10-11=-261/3810, 9-10=-111/1824, 7-9=-106/1829

WEBS 3-11=-157/2063, 4-11=-438/87, 5-10=-442/89, 6-10=-150/1998

- 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=4.2psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 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, Lu=50-0-0 Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- 4) Unbalanced snow loads have been considered for this design.
- 5) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- 6) Provide adequate drainage to prevent water ponding.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=108, 7=108.
- 9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 11) "NAILED" indicates 2-12d (0.148"x3.25") toe-nails per NDS guidlines.
- 12) 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



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Continued on page 2





Job Truss Truss Type Qty Summit/Stoney Creek #86 I41826341 2387107 M10 Hip Girder | Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Jun 26 12:09:21 2020 Page 2

Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

ID:VPVqvFnP0P0b1j2tZrlOqezdKbx-0Ty5dMPWvMnkmqJeBqbWYfXlQckwuGqcXomhugz2Q0y

LOAD CASE(S) Standard

Uniform Loads (plf)

Vert: 1-3=-51, 3-6=-61, 6-8=-51, 14-17=-20

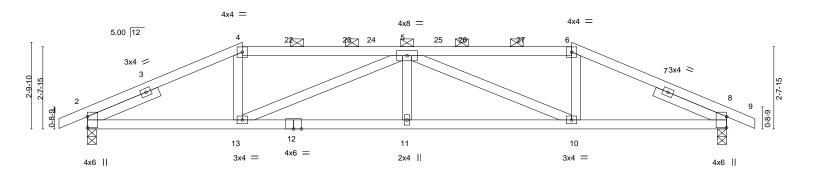
Concentrated Loads (lb)

Vert: 13=0(B) 9=0(B) 32=0(B) 33=0(B) 34=0(B) 35=0(B) 36=0(B) 37=0(B) 38=0(B) 39=0(B)



Job Truss Truss Type Qty Summit/Stoney Creek #86 141826342 2387107 M11 Hip Job Reference (optional)
8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Jun 26 12:09:22 2020 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:VPVqvFnP0P0b1j2tZrlOqezdKbx-VgWTqiQ8ggvbO_trlY6l5t42m092diamlSVEQ6z2Q0x 21-7-0 0-11-0 15-7-14 5-3-14 5-3-14 5-0-2

Scale = 1:37.2



		5-0-2 5-0-2		10-4-0 5-3-14	15-7-14 5-3-14	+	20-8-0 5-0-2	-
Plate Offsets (X	K,Y) [2:Edge,0	0-0-0], [8:Edge,0-0-0]						
LOADING (psf TCLL (roof) Snow (Pf/Pg) : TCDL BCLL	25.0	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr	2-0-0 1.15 1.15 YES	CSI. TC 0.49 BC 0.68 WB 0.54	DEFL. in (loc) Vert(LL) -0.12 11 Vert(CT) -0.22 11-13 Horz(CT) 0.06 8	l/defl L/d >999 240 >999 180 n/a n/a	PLATES MT20	GRIP 197/144
BCDL	10.0	Code IRC2018/T	PI2014	Matrix-AS			Weight: 76 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

Structural wood sheathing directly applied, except

2-0-0 oc purlins (4-5-8 max.): 4-6.

Rigid ceiling directly applied.

LUMBER-

TOP CHORD 2x4 SPF No.2 BOT CHORD 2x4 SPF No.2

WEBS 2x4 SPF No.2

SLIDER Left 2x4 SPF No.2 2-6-0, Right 2x4 SPF No.2 2-6-0

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

Max Horz 2=-39(LC 14)

Max Uplift 2=-103(LC 16), 8=-103(LC 16) Max Grav 2=994(LC 2), 8=994(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. 2-4=-1615/245, 4-5=-1442/244, 5-6=-1442/244, 6-8=-1615/245 TOP CHORD BOT CHORD 2-13=-158/1460, 11-13=-241/2185, 10-11=-241/2185, 8-10=-161/1460

WEBS 4-13=0/391, 5-13=-884/89, 5-10=-884/89, 6-10=0/391

- 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=4.2psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -0-11-0 to 2-1-0, Interior(1) 2-1-0 to 5-0-2, Exterior(2R) 5-0-2 to 9-3-0 , Interior(1) 9-3-0 to 15-7-14, Exterior(2R) 15-7-14 to 20-1-15, Interior(1) 20-1-15 to 21-7-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOI =1 60
- 3) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 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, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- 4) Unbalanced snow loads have been considered for this design.
- 5) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- 6) Provide adequate drainage to prevent water ponding.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=103 8=103
- 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) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



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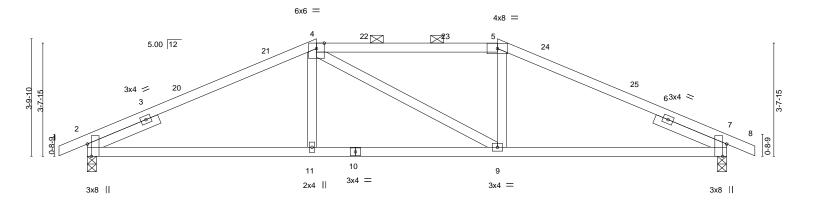


MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.



Job Truss Truss Type Summit/Stoney Creek #86 141826343 2387107 M12 Hip Job Reference (optional)
8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Jun 26 12:09:24 2020 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:VPVqvFnP0P0b1j2tZrlOqezdKbx-R2dEFOROBH9Jdl1Dtz8DAl9LYquO5i12Dm_LU?z2Q0v 21-7-0 0-11-0 7-4-14

Scale = 1:37.2



	7-4-14	13-3-2		1	20-8-0		
	7-4-14	5-10-3		1	7-4-14		
Plate Offsets (X,Y) [2:0-4-12	,Edge], [7:0-4-12,Edge]						
LOADING (psf) TCLL (roof) 25.0 Snow (Pf/Pg) 20.4/20.0 TCDL 10.0 BCLL 0.0 BCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2018/TPI2014	CSI. TC 0.66 BC 0.49 WB 0.16 Matrix-AS	Vert(CT) -0	in (loc) I/defl 0.09 9-11 >999 0.14 9-11 >999 0.04 7 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 72 lb	GRIP 197/144 FT = 20%

BRACING-

TOP CHORD

BOT CHORD

Structural wood sheathing directly applied, except

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

Rigid ceiling directly applied.

LUMBER-

TOP CHORD 2x4 SPF No.2 BOT CHORD 2x4 SPF No.2

WEBS 2x4 SPF No.2

SLIDER Left 2x4 SPF No.2 2-6-0, Right 2x4 SPF No.2 2-6-0

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

Max Horz 2=56(LC 15)

Max Uplift 2=-103(LC 16), 7=-103(LC 16) Max Grav 2=994(LC 2), 7=994(LC 2)

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

2-4=-1489/252, 4-5=-1344/270, 5-7=-1489/252 TOP CHORD BOT CHORD 2-11=-150/1350, 9-11=-152/1344, 7-9=-156/1350

WEBS 4-11=0/255, 5-9=0/255

- 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=4.2psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed: MWFRS (directional) and C-C Exterior(2E) -0-11-0 to 2-1-0, Interior(1) 2-1-0 to 7-4-14. Exterior(2R) 7-4-14 to 11-7-13, Interior(1) 11-7-13 to 13-3-2, Exterior(2R) 13-3-2 to 17-6-0, Interior(1) 17-6-0 to 21-7-0 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) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 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, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- 4) Unbalanced snow loads have been considered for this design.
- 5) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- 6) Provide adequate drainage to prevent water ponding.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=103 7=103
- 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) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



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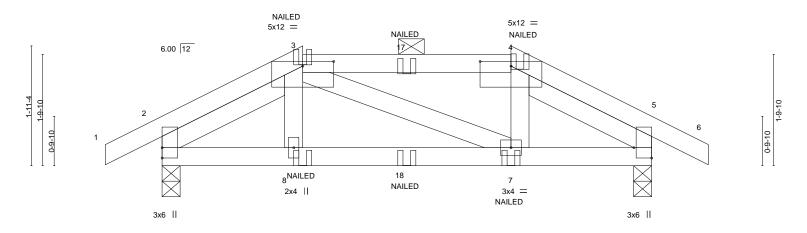


MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.



Job Truss Truss Type Qty Summit/Stoney Creek #86 141826344 P1 2387107 Hip Girder Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Jun 26 12:09:38 2020 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:VPVqvFnP0P0b1j2tZrlOqezdKbx-1IUXBAcAubwJJR6whvOVkFkp?TjuN3U6RxN4_Bz2Q0h 8-10-0 2-3-5 2-3-5 0-11-0 3-4-7 2-3-5 0-11-0

Scale = 1:18.6



	2-3-5	3-4-7		2-3-5		
Plate Offsets (X,Y) [3:0-6-0,0-	-0-15], [4:0-6-0,0-0-15], [5:Edge,0-3-7]		<u> </u>		
LOADING (psf) TCLL (roof) 25.0 Snow (Pf/Pg) 20.4/20.0 TCDL 10.0 BCLL 0.0 BCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr NO Code IRC2018/TPI2014	CSI. TC 0.34 BC 0.22 WB 0.03 Matrix-MP	DEFL. in Vert(LL) -0.01 Vert(CT) -0.02 Horz(CT) 0.01	(loc) l/defl L/d 7-8 >999 240 7-8 >999 180 5 n/a n/a	PLATES MT20 Weight: 34 lb	GRIP 197/144 FT = 20%

5-7-11

7-11-0

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

LUMBER-**BRACING-**

TOP CHORD 2x4 SPF No.2 TOP CHORD

2-3-5

BOT CHORD 2x4 SPF No.2 2-0-0 oc purlins (6-0-0 max.): 3-4. **WEBS** 2x4 SPF No.2 **BOT CHORD**

Rigid ceiling directly applied or 10-0-0 oc bracing Left 2x4 SPF No.2 2-3-9, Right 2x4 SPF No.2 2-3-9 SLIDER

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

Max Horz 2=28(LC 60)

Max Uplift 2=-61(LC 12), 5=-61(LC 12) Max Grav 2=458(LC 36), 5=457(LC 36)

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

3-4=-411/46, 4-5=-480/40 TOP CHORD

2-8=-9/386, 7-8=-12/381, 5-7=-12/404 BOT CHORD

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=4.2psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 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, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- 4) Unbalanced snow loads have been considered for this design.
- 5) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- 6) Provide adequate drainage to prevent water ponding.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 5.
- 9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 11) "NAILED" indicates 3-10d (0.148"x3") or 2-12d (0.148"x3.25") toe-nails per NDS guidlines.
- 12) 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: 1-3=-51, 3-4=-61, 4-6=-51, 9-13=-20



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Continued on page 2





Job	Truss	Truss Type	Qty	Ply	Summit/Stoney Creek #86
					I41826344
2387107	P1	Hip Girder	1	1	
					Job Reference (optional)

Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Jun 26 12:09:39 2020 Page 2 ID:VPVqvFnP0P0b1j2tZrlOqezdKbx-Vx1vPWdofu2Awbh6FcvkHSH_lt376WkGgb7eWdz2Q0g

LOAD CASE(S) Standard

Concentrated Loads (lb)

Vert: 8=-4(F) 3=-20(F) 7=-4(F) 4=-19(F) 17=-23(F) 18=-9(F)



Job Truss Truss Type Qty Summit/Stoney Creek #86 141826345 2387107 P2 Common Job Reference (optional)
8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Jun 26 12:09:40 2020 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID: VPVqvFnP0P0b1j2tZrlOqezdKbx-z7bHcseQQCA1YIFlpKQzpgqCKHQjrzuPuFsB33z2Q0ffraction and the property of the

3-11-8

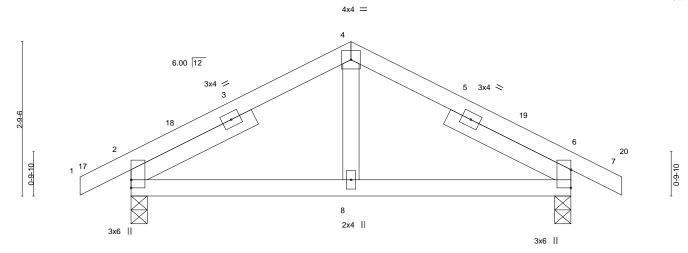
7-11-0

3-11-8

Scale = 1:20.7

8-10-0

0-11-0



	3-11-8 3-11-8	-		1-0 1-8		1	
LOADING (psf) TCLL (roof) 25.0 Snow (Pf/Pg) 15.4/20.0 TCDL 10.0 BCLL 0.0 BCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2018/TPI2014	CSI. TC 0.16 BC 0.13 WB 0.04 Matrix-AS	DEFL. in Vert(LL) -0.01 Vert(CT) -0.01 Horz(CT) 0.01	(loc) I/defl 8-15 >999 8-15 >999 2 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 30 lb	GRIP 197/144 FT = 20%

LUMBER-BRACING-

TOP CHORD 2x4 SPF No.2 TOP CHORD Structural wood sheathing directly applied. 2x4 SPF No.2 **BOT CHORD** BOT CHORD Rigid ceiling directly applied.

2x4 SPF No.2 WEBS SLIDER Left 2x4 SPF No.2 2-6-0, Right 2x4 SPF No.2 2-6-0

0-11-0

REACTIONS. (size) 2=0-3-8, 6=0-3-8 Max Horz 2=-46(LC 14)

Max Uplift 2=-57(LC 16), 6=-57(LC 16)

Max Grav 2=420(LC 2), 6=420(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-4=-324/185, 4-6=-324/185

TOP CHORD **BOT CHORD** 2-8=-60/290, 6-8=-60/290

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=4.2psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -0-11-0 to 2-1-0, Interior(1) 2-1-0 to 3-11-8, Exterior(2R) 3-11-8 to 6-11-8, Interior(1) 6-11-8 to 8-10-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 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 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 6.
- 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) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



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Job Truss Truss Type Qty Summit/Stoney Creek #86 141826346 V1 Valley 2387107 Job Reference (optional)
8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Jun 26 12:09:41 2020 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:VPVqvFnP0P0b1j2tZrlOqezdKbx-RK9fqCe2BWluAvqUM1yCMtMMWgnAaQJZ7vckbVz2Q0e 3-11-8 3-11-8 Scale = 1:18.3 4x4 = 2 6.00 12 10 3x6 || 3x6 II 2x4 || 7-11-0 LOADING (psf) SPACING-2-0-0 CSI. DEFL. L/d **PLATES** GRIP I/defl TCLL (roof) 25.0 Plate Grip DOL 0.20 Vert(LL) 197/144 1.15 TC n/a n/a 999 MT20 Snow (Pf/Pg) 15.4/20.0 Lumber DOL 1.15 вс 0.12 Vert(CT) 999 n/a n/a TCDI 10.0 Rep Stress Incr YES WB 0.02 Horz(CT) 0.00 n/a n/a

LUMBER-

BCLL

BCDL

TOP CHORD 2x4 SPF No.2 BOT CHORD 2x4 SPF No.2

0.0

10.0

WEBS 2x4 SPF No.2 **OTHERS** 2x4 SPF No.2

BRACING-

Matrix-R

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins,

except end verticals.

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

REACTIONS.

(size) 6=7-11-0, 4=7-11-0, 5=7-11-0

Max Horz 6=-51(LC 14)

Max Uplift 6=-39(LC 16), 4=-39(LC 16)

Max Grav 6=217(LC 20), 4=217(LC 21), 5=253(LC 2)

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

Code IRC2018/TPI2014

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=4.2psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-1-12 to 3-1-12, Interior(1) 3-1-12 to 3-11-8, Exterior(2R) 3-11-8 to 6-11-8, Interior(1) 6-11-8 to 7-9-4 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
- 3) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 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) Gable requires continuous bottom chord bearing.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6, 4.
- 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.



Weight: 22 lb

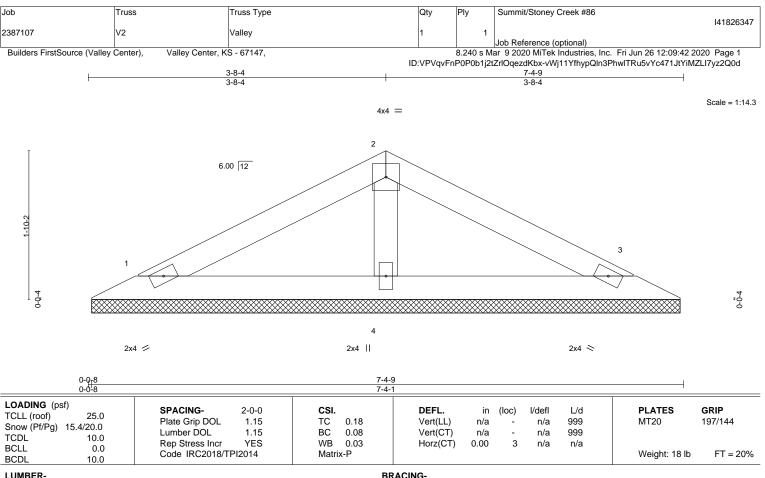
FT = 20%

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M WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.





TOP CHORD

BOT CHORD

LUMBER-TOP CHORD

2x4 SPF No.2 2x4 SPF No.2

BOT CHORD **OTHERS** 2x4 SPF No.2

REACTIONS.

1=7-3-9, 3=7-3-9, 4=7-3-9 (size)

Max Horz 1=29(LC 15)

Max Uplift 1=-21(LC 16), 3=-21(LC 16), 4=-3(LC 16) Max Grav 1=143(LC 20), 3=143(LC 21), 4=270(LC 2)

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

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=4.2psf; h=15ft; 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
- 3) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 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) Gable requires continuous bottom chord bearing.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3, 4.
- 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.



Structural wood sheathing directly applied or 6-0-0 oc purlins.

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

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M WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

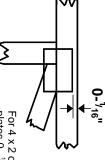


Symbols

PLATE LOCATION AND ORIENTATION



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



For 4 x 2 orientation, locate plates 0- $\frac{1}{16}$ from outside edge of truss.

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

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

PLATE SIZE



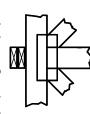
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING LOCATION



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

BEARING



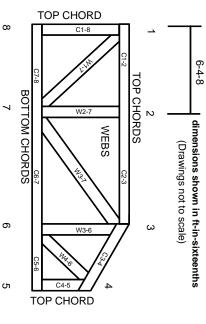
Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only

Industry Standards:

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

ANSI/TPI1: DSB-89:

Numbering System



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

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

PRODUCT CODE APPROVALS

ICC-ES Reports:

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

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

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

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MiTek Engineering Reference Sheet: MII-7473 rev. 10/03/2015

General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

- Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI
- Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves may require bracing, or alternative Tor I bracing should be considered.
- Never exceed the design loading shown and never stack materials on inadequately braced trusses.
- Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
- Cut members to bear tightly against each other

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

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- Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
- Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
- Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
- Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
- Top chords must be sheathed or purlins provided at spacing indicated on design.
- Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
- 15. Connections not shown are the responsibility of others.
- Do not cut or alter truss member or plate without prior approval of an engineer.
- 17. Install and load vertically unless indicated otherwise
- Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use.
- Review all portions of this design (front, back, words and pictures) before use. Reviewing pictures alone is not sufficient.
- Design assumes manufacture in accordance with ANSI/TPI 1 Quality Criteria.