

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

Re: 2319678

106 MANOR AT STONEY CREEK

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: I41030809 thru I41030879

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

Missouri COA: Engineering 001193



April 20,2020

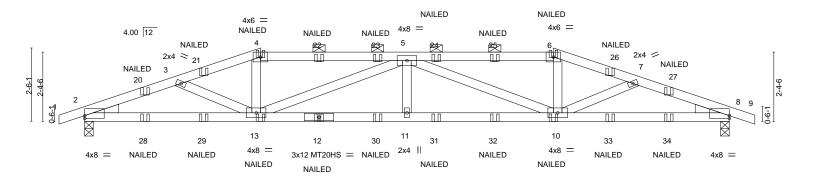
Sevier, Scott

,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 106 MANOR AT STONEY CREEK 141030809 2319678 A01 Hip Girder Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inc. Mon Apr 20 09:12:06 2020 Page 1 Builders FirstSource (Valley Center) Valley Center, KS - 67147, ID:O6tYZO2CNJ4NCrTjAk8MhwzhFnV-kUMeu9zqJMb8m9fFKpJP22ZUNmlvKJiCrWZKh5zOt?7 0-10-8 16-0-0 18-10-5 22-0-0 3-1-11 2-10-5 5-0-0 5-0-0 2-10-5 3-1-11 0-10-8

Scale = 1:39.3



			-0-0		1-0-0		16-0-0		18-10-5		-0-0
	<u>'</u>	3-1-11 2-	10-5	5	i-0-0	<u>'</u>	5-0-0		2-10-5	' 3-	1-11 '
Plate Offset	ts (X,Y)	[2:0-0-0,0-1-3], [8:0-0-0,	0-1-3]								
LOADING	(psf)	SPACING-	2-0-0	CSI.		DEFL.	in (loc)	I/defI	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.69	Vert(LL)	-0.23 11	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.79	Vert(CT)	-0.41 11-13	>650	180	MT20HS	148/108
BCLL	0.0	Rep Stress Incr	NO	WB	0.54	Horz(CT)	0.10 8	n/a	n/a		
BCDL	10.0	Code IRC2018/T	PI2014	Matrix	(-MS					Weight: 80 lb	FT = 20%

TOP CHORD

BOT CHORD

LUMBER-**BRACING-**

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

WEBS 2x4 SPF No.2

WEDGE

Left: 2x4 SP No.3, Right: 2x4 SP No.3

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

Max Horz 2=21(LC 27)

Max Uplift 2=-90(LC 4), 8=-90(LC 5) Max Grav 2=1403(LC 1), 8=1403(LC 1)

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

TOP CHORD 2-3=-3023/176, 3-4=-3000/165, 4-5=-2826/167, 5-6=-2826/167, 6-7=-3000/165,

7-8=-3023/176

BOT CHORD 2-13=-152/2796, 11-13=-181/3712, 10-11=-181/3712, 8-10=-133/2796 4-13=0/553, 5-13=-1015/79, 5-10=-1015/79, 6-10=0/553, 5-11=0/286 **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; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) All plates are MT20 plates unless otherwise indicated.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 8.
- 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) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 9) "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS quidlines.
- 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 + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

Vert: 1-4=-70, 4-6=-70, 6-9=-70, 14-17=-20

Concentrated Loads (lb)

Vert: 4=-28(B) 6=-28(B) 12=-37(B) 13=-37(B) 10=-37(B) 20=-21(B) 22=-28(B) 23=-28(B) 24=-28(B) 25=-28(B) 27=-21(B) 28=-46(B) 29=-90(B) 30=-37(B) 31=-37(B) 32=-37(B) 33=-90(B) 34=-46(B)



Structural wood sheathing directly applied or 2-9-10 oc purlins,

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

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

April 20,2020

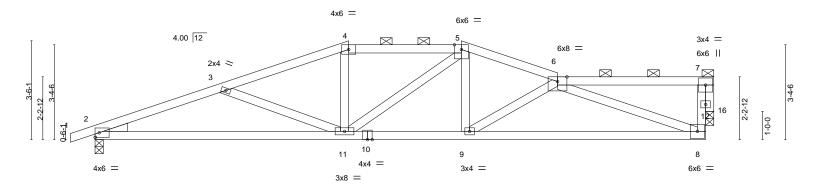


MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.



Job Truss Truss Type 106 MANOR AT STONEY CREEK 141030810 2319678 A02 Roof Special Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inc. Mon Apr 20 09:12:07 2020 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:O6tYZO2CNJ4NCrTjAk8MhwzhFnV-Cgw06V_T4fj?NJERuXqebF6jaA5l3fpL4AltDXzOt?6 16-4-15 21-11-8 -0-10-8 0-10-8 4-7-11 4-4-5 4-0-0 3-4-15 5-6-9

Scale = 1:40.9



	9-0-0 9-0-0	1	13-0-0 4-0-0	16-4 3-4		21-11-8 5-6-9	
LOADING (psf) TCLL 25.0 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 0.41 BC 0.71 WB 0.99	DEFL. Vert(LL) Vert(CT) Horz(CT)	in (loc) -0.14 8-9 -0.31 8-9 0.06 16	I/defl L/d >999 240 >848 180 n/a n/a	PLATES MT20	GRIP 197/144
BCDL 10.0	Code IRC2018/TPI2014	Matrix-AS				Weight: 83 lb	FT = 20%

BOT CHORD

LUMBER-BRACING-TOP CHORD

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

OTHERS 2x4 SPF No.2 WEDGE

Left: 2x4 SP No.3

REACTIONS. (size) 2=0-3-8, 16=0-3-8

Max Horz 2=50(LC 8)

Max Uplift 2=-62(LC 4), 16=-43(LC 5) Max Grav 2=1044(LC 1), 16=954(LC 1)

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

TOP CHORD 2-3=-2197/119, 3-4=-1834/71, 4-5=-1695/81, 5-6=-1821/73, 6-7=-271/0, 8-12=-9/760,

7-12=-9/760

BOT CHORD 2-11=-120/2030, 9-11=-56/1676, 8-9=-117/1983

WEBS 3-11=-375/94, 4-11=0/286, 5-9=0/307, 6-9=-353/78, 6-8=-1841/118, 7-16=-1009/48

- 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; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) Bearing at joint(s) 16 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 16.
- 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.
- 9) 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 (4-4-7 max.): 4-5, 6-7.

Rigid ceiling directly applied.

April 20,2020

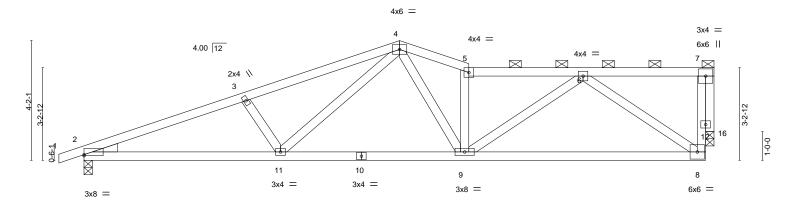


M WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.



Job Truss Truss Type Qty 106 MANOR AT STONEY CREEK 141030811 2319678 A03 Roof Special Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inc. Mon Apr 20 09:12:08 2020 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:O6tYZO2CNJ4NCrTjAk8MhwzhFnV-gsUOJr?5rzrs?SpdSELt7TeuVaTnoCSVJg2Rm_zOt?5 21-11-8 0-10-8 13-4-15 5-7-11 5-4-5 2-4-15 3-11-12 4-6-12

Scale = 1:40.2



		6-10-3		-		4-15				21-1		
	'	6-10-3		'	6-6	6-12	'			8-6	-9	'
Plate Offs	sets (X,Y)	[2:0-0-0,0-0-7]										
LOADING	(psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.40	Vert(LL)	-0.12	8-9	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.63	Vert(CT)	-0.26	8-9	>999	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.58	Horz(CT)	0.04	16	n/a	n/a		
BCDL	10.0	Code IRC2018/TF	PI2014	Matri	x-AS						Weight: 86 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 **OTHERS** 2x4 SPF No.2

WEDGE

Left: 2x4 SP No.3

REACTIONS. (size) 2=0-3-8, 16=0-3-8

Max Horz 2=73(LC 4)

Max Uplift 2=-51(LC 4), 16=-39(LC 5) Max Grav 2=1044(LC 1), 16=954(LC 1)

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

TOP CHORD 2-3=-2187/71, 3-4=-1987/70, 4-5=-1827/58, 5-6=-1742/42, 8-12=-16/823, 7-12=-16/823

2-11=-95/2013, 9-11=-45/1400, 8-9=-72/1188 **BOT CHORD**

WEBS 3-11=-366/91, 4-11=-38/613, 4-9=-6/631, 5-9=-751/55, 6-9=0/677, 6-8=-1279/83,

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; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) Bearing at joint(s) 16 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 16.
- 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.
- 9) 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 (4-3-5 max.): 5-7.

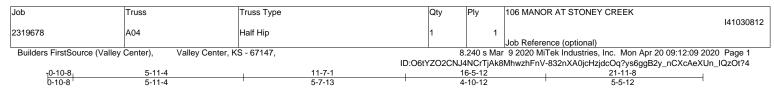
Rigid ceiling directly applied

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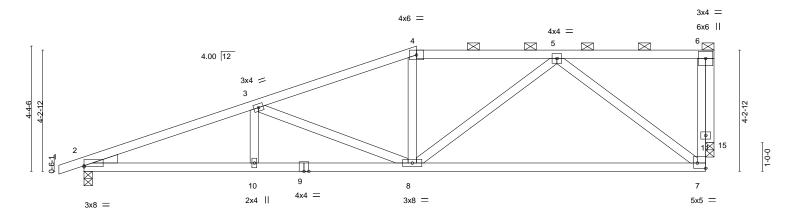


M WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.





Scale = 1:40.2



	-	5-11-4 5-11-4			1-7-1 -7-13	-		-5-12 10-12		-	21-11-8 5-5-12	
Plate Offse	ts (X,Y)	[2:0-0-0,0-0-7], [7:Edge,0-2-	4]	T								
LOADING	4 /		-0-0	CSI.		DEFL.	in	(loc)	I/defI	L/d	PLATES	GRIP
	25.0		1.15	TC	0.48	Vert(LL)	-0.26	7-8	>999	240	MT20	197/144
	10.0		1.15	BC	0.75	Vert(CT)	-0.53	7-8	>497	180		
BCLL	0.0		YES	WB	0.81	Horz(CT)	0.04	15	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI20	014	Matrix	-AS						Weight: 87 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 **OTHERS** 2x4 SPF No.2

WEDGE Left: 2x4 SP No.3

REACTIONS. (size) 2=0-3-8, 15=0-3-8

Max Horz 2=92(LC 4)

Max Uplift 2=-70(LC 4), 15=-63(LC 4) Max Grav 2=1044(LC 1), 15=954(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-3=-2166/117, 3-4=-1542/82, 4-5=-1407/91, 7-11=-33/790, 6-11=-33/790

BOT CHORD 2-10=-156/1991, 8-10=-156/1991, 7-8=-78/1011

3-8=-627/99, 5-8=-6/500, 5-7=-1123/119, 6-15=-960/63 **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; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) Bearing at joint(s) 15 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 15.
- 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.
- 9) 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 (4-9-5 max.): 4-6.

Rigid ceiling directly applied.

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 106 MANOR AT STONEY CREEK 141030813 2319678 A05 Roof Special Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inc. Mon Apr 20 09:12:10 2020 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:O6tYZO2CNJ4NCrTjAk8MhwzhFnV-cFb9kW1LNa5aEmy0ZfNLCukFiN7IG43nm8XXqszOt?3 21-11-8 17-0-12

4-3-12

4-6-0

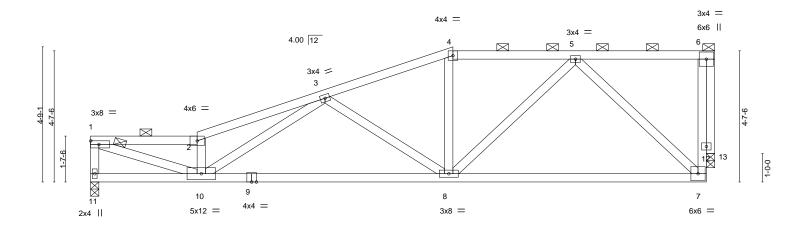
Scale = 1:40.5

4-10-12

Structural wood sheathing directly applied, except end verticals, and

2-0-0 oc purlins (3-9-8 max.): 1-2, 4-6.

Rigid ceiling directly applied.



	3-9-0			12-9-0			21-11-8				
		3-9-0		9-0-0				9-2-8		<u>'</u>	
LOADING (p	sf)	SPACING-	2-0-0	CSI.	DEFL.	in (lo	oc) l/defl	L/d	PLATES	GRIP	
TCLL 25	.0	Plate Grip DOL	1.15	TC 0.35	5 Vert(LL)	-0.14	7-8 >999	240	MT20	197/144	
TCDL 10	.0	Lumber DOL	1.15	BC 0.73	3 Vert(CT)	-0.30 8-	-10 >880	180			
	0.0	Rep Stress Incr	YES	WB 0.71	1 Horz(CT)	0.03	13 n/a	n/a			
BCDL 10	.0	Code IRC2018	/TPI2014	Matrix-AS					Weight: 95 lb	FT = 20%	

TOP CHORD

BOT CHORD

LUMBER-BRACING-

4-6-0

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

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

REACTIONS. (size) 11=0-3-8, 13=0-3-8 Max Horz 11=87(LC 5)

3-9-0

Max Uplift 11=-46(LC 4), 13=-63(LC 4) Max Grav 11=975(LC 1), 13=949(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. 1-11=-937/50, 1-2=-2234/78, 2-3=-2290/102, 3-4=-1351/72, 4-5=-1236/78, TOP CHORD

7-12=-37/806, 6-12=-37/806

BOT CHORD 8-10=-138/1691 7-8=-60/847

WEBS 1-10=-79/2263, 2-10=-947/83, 3-10=0/534, 3-8=-548/96, 5-8=-8/539, 5-7=-1041/101,

6-13=-953/63

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; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60

3) Provide adequate drainage to prevent water ponding.

- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) Bearing at joint(s) 13 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 11, 13.
- 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.
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



April 20,2020



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Job Truss Truss Type Qty 106 MANOR AT STONEY CREEK 141030814 2319678 B01 Roof Special Girder Job Reference (optional)
8.240 s Mar 9 2020 MiTek Industries, Inc. Mon Apr 20 09:12:11 2020 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:O6tYZO2CNJ4NCrTjAk8MhwzhFnV-4R9Xxs1z8uDRswXC7Nual5GHrnR0?Zyx?oG5MlzOt?2 16-11-15 -<u>0-10-8</u> 12-8-6 20-4-3 24-0-0

4-3-8

3-4-5

Structural wood sheathing directly applied or 2-1-6 oc purlins,

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

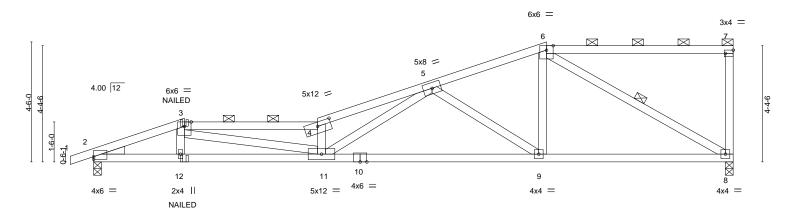
1 Row at midpt

except end verticals, and 2-0-0 oc purlins (2-4-8 max.): 3-4, 6-7.

4-3-8

Scale = 1:43.2

3-7-13



		3-4-14	8-4-14	1	12-8-6	16-11-15		20-4-3	24	-0-0
	'	3-4-14	5-0-0	ı ı	4-3-8	4-3-8		3-4-5	3-7	7-13
Plate Offse	ets (X,Y)	[2:0-0-0,0-1-3], [4:0-6-	·0,0-1-15], [7:Edge	,0-1-8]						
LOADING	· /	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL TCDL BCLL	25.0 10.0 0.0	Plate Grip DOL Lumber DOL Rep Stress Incr	1.15	TC 0.90 BC 0.85 WB 0.60	Vert(LL) Vert(CT Horz(C7	,	>854 >445 n/a	240 180 n/a	MT20	197/144
BCDL	10.0	Code IRC2018	-	Matrix-MS	11012(01	, 0.00 0	ıı/a	11/4	Weight: 95 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

WEBS

LUMBER-

TOP CHORD 2x4 SPF No.2 *Except*

3-4: 2x4 SPF 1650F 1.5E 2x4 SPF No.2 *Except*

3-4-14

5-0-0

BOT CHORD 2-10: 2x4 SPF 1650F 1.5E

WEBS 2x4 SPF No.2

WEDGE Left: 2x4 SP No.3

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

Max Horz 2=125(LC 7)

Max Uplift 8=-64(LC 4), 2=-80(LC 4) Max Grav 8=1073(LC 1), 2=1140(LC 1)

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

TOP CHORD 2-3=-2621/138, 3-4=-4720/239, 4-5=-4604/248, 5-6=-1468/102 **BOT CHORD** 2-12=-144/2455, 11-12=-148/2457, 9-11=-135/2303, 8-9=-40/1329

3-11=-138/2328, 4-11=-1849/143, 5-11=-95/2447, 5-9=-1136/117, 6-9=0/809, WFBS

6-8=-1503/80

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; Cat. II; Exp C; Enclosed: MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60

3) Provide adequate drainage to prevent water ponding.

- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 8, 2.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 7) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

8) "NAILED" indicates 2-12d (0.148"x3.25") toe-nails per NDS guidlines.

9) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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

Vert: 1-3=-70, 3-4=-70, 4-6=-70, 6-7=-70, 8-13=-20

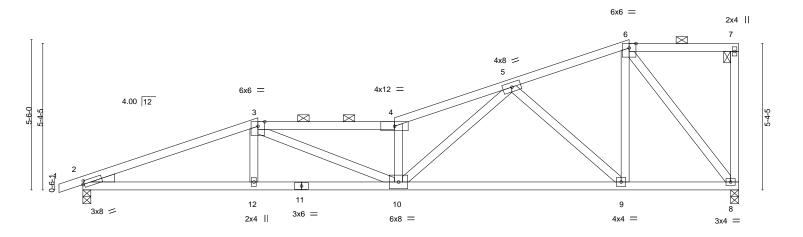
Concentrated Loads (lb) Vert: 12=-5(B)





Job Truss Truss Type Qty 106 MANOR AT STONEY CREEK 141030815 2319678 B02 Roof Special Job Reference (optional)
8.240 s Mar 9 2020 MiTek Industries, Inc. Mon Apr 20 09:12:12 2020 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:O6tYZO2CNJ4NCrTjAk8MhwzhFnV-Zejv9C2bvCMIU46Oh4QplJpXPBqGkzf4ES0evlzOt?1 -0-10-8 0-10-8 15-8-6 19-11-15 23-9-12 24₇0-0 0-2-4 6-4-14 5-0-0 4-3-8 4-3-8 3-9-13

Scale = 1:42.2



	•	6-4-14	'	5-0-	0	•		8-7	7-1		· 4-()-1	
Plate Offsets	(X,Y) [2:0-0-	10,0-1-8]											
LOADING (p	sf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP	_
TCLL 25	5.0	Plate Grip DOL	1.15	TC	0.53	Vert(LL)	-0.18 1	0-12	>999	240	MT20	197/144	
TCDL 10	0.0	Lumber DOL	1.15	BC	0.66	Vert(CT)	-0.36	9-10	>799	180			
BCLL (0.0	Rep Stress Incr	YES	WB	0.83	Horz(CT)	0.07	8	n/a	n/a			
BCDL 10	0.0	Code IRC2018/TPI	2014	Matrix	-AS						Weight: 99 lb	FT = 20%	

BRACING-

TOP CHORD

BOT CHORD

19-11-15

11-4-14

LUMBER-

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

WEDGE

Left: 2x4 SP No.3

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

Max Horz 2=155(LC 7)

Max Uplift 2=-79(LC 4), 8=-66(LC 4) Max Grav 2=1136(LC 1), 8=1072(LC 1)

6-4-14

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

TOP CHORD 2-3=-2450/135, 4-5=-3009/181, 5-6=-817/75, 3-4=-2880/152 **BOT CHORD** 2-12=-135/2262, 10-12=-137/2257, 9-10=-81/1534, 8-9=-29/708

WEBS 3-10=-8/683, 4-10=-1282/115, 5-10=-72/1709, 5-9=-1082/114, 6-9=-20/876,

6-8=-1163/59

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; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 8.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 7) 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.
- 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



24-0-0

Structural wood sheathing directly applied, except end verticals, and

2-0-0 oc purlins (2-10-13 max.): 6-7, 3-4.

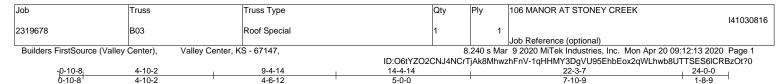
Rigid ceiling directly applied.

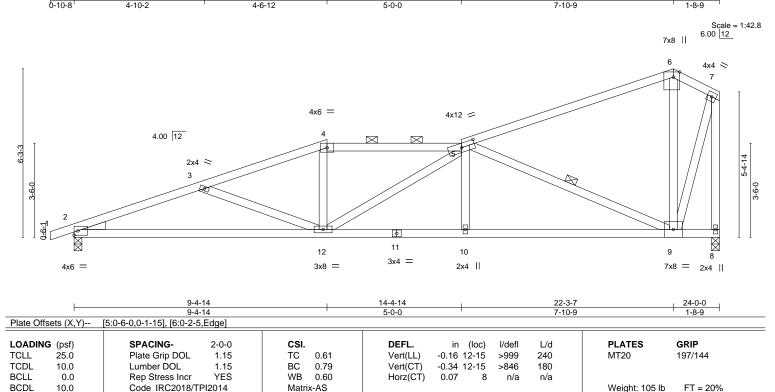
April 20,2020



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

WEBS

LUMBER-

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

WEDGE Left: 2x4 SP No.3

REACTIONS.

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

Max Horz 2=167(LC 7)

Max Uplift 2=-77(LC 4), 8=-56(LC 4) Max Grav 2=1136(LC 1), 8=1072(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-3=-2445/160, 3-4=-2066/111, 4-5=-1911/119, 5-6=-428/51, 6-7=-304/61,

7-8=-1108/52

2-12=-180/2262, 10-12=-101/1951, 9-10=-99/1956 **BOT CHORD WEBS** 3-12=-363/88, 4-12=0/330, 5-9=-1769/132, 7-9=-46/1108

- 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; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) The Fabrication Tolerance at joint 6 = 12%
- 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) 2, 8.
- 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.
- 9) 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 (3-10-11 max.): 4-5.

Rigid ceiling directly applied.

1 Row at midpt

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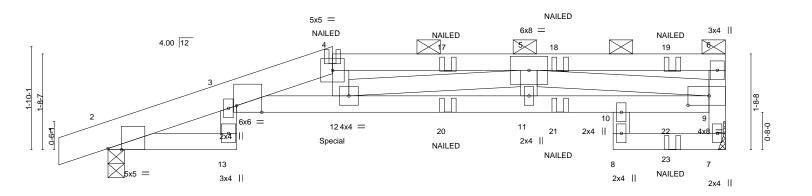


MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.



Job Truss Truss Type Qty 106 MANOR AT STONEY CREEK 141030817 2319678 C01 Half Hip Girder Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inc. Mon Apr 20 09:12:15 2020 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:O6tYZO2CNJ4NCrTjAk8MhwzhFnV-zDP2nE4UC7ktLXrzMCzWvxR0HOogxPnXwPEIV4zOt?_ 11-0-0 0-10-8 2-3-8 1-8-8 3-6-0 1-6-0 2-0-0

Scale = 1:20.5



	1	2-3-8	1 4	1-0-0	1	7-6-0		1	9-0-0	11-0-0	1
		2-3-8	١ ,	l - 8-8	1	3-6-0		1	1-6-0	2-0-0	1
Plate Offse	ets (X,Y)	[2:0-2-14,Edge], [3:0-5-6,	Edge], [9:0-4-8	3,0-2-0]							
LOADING	(psf)	SPACING-	2-0-0	CSI.		DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.68	Vert(LL)	-0.16 11-12	>829	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.87	Vert(CT)	-0.28 11-12	>468	180		
BCLL	0.0	Rep Stress Incr	NO	WB	0.48	Horz(CT)	0.16 7	n/a	n/a		
BCDL	10.0	Code IRC2018/TP	12014	Matrix	-MS					Weight: 42 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x6 SPF 2100F 1.8E *Except*

4-6: 2x4 SPF No.2 **BOT CHORD** 2x4 SPF No.2 *Except* 3-9: 2x4 SPF 1650F 1.5E

WEBS 2x4 SPF No.2

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

Max Horz 2=46(LC 7)

Max Uplift 7=-33(LC 4), 2=-63(LC 4) Max Grav 7=787(LC 1), 2=799(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 3-15=-353/22, 3-4=-2948/151, 4-5=-2987/154, 5-6=-301/16, 7-9=-745/40 **BOT CHORD** 3-12=-166/2972, 11-12=-109/2432, 10-11=-109/2432, 9-10=-114/2457

5-12=-64/569, 5-9=-2183/88 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; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 7, 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.
- 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 9) "NAILED" indicates 3-10d (0.148"x3") or 3-12d (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) 265 lb down and 52 lb up at 3-11-15 on bottom 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 + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

Vert: 1-3=-70, 3-4=-70, 4-6=-70, 13-14=-20, 3-10=-20, 7-8=-20

Vert: 4=-32(F) 12=-265(F) 17=-32(F) 18=-32(F) 19=-56(F) 20=-49(F) 21=-49(F) 22=-33(F)



Structural wood sheathing directly applied or 4-8-11 oc purlins,

except end verticals, and 2-0-0 oc purlins (3-0-4 max.): 4-6.

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

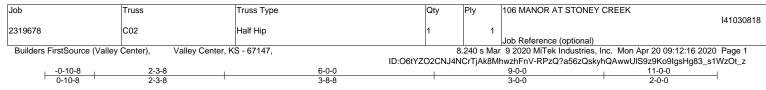
6-0-0 oc bracing: 8-10,7-8.

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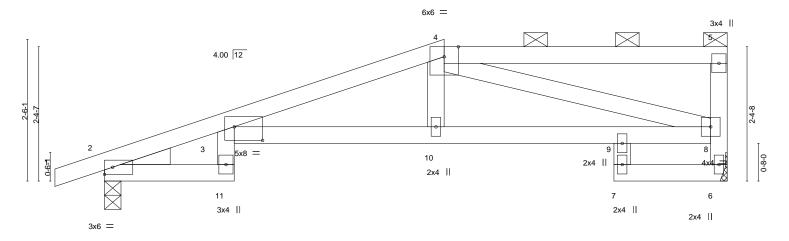


MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.





Scale = 1:20.4



		2-3-8			6-0-0		1		9-0-0		11-0-	0
		2-3-8			3-8-8				3-0-0		2-0-0	0 '
Plate Offsets	s (X,Y)	[3:0-6-0,0-2-14]										
LOADING ((psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	I/defI	L/d	PLATES	GRIP
TCLL 2	25.0	Plate Grip DOL	1.15	TC	0.79	Vert(LL)	-0.19	3-10	>669	240	MT20	197/144
TCDL 1	10.0	Lumber DOL	1.15	BC	0.78	Vert(CT)	-0.35	3-10	>369	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.47	Horz(CT)	0.19	6	n/a	n/a		
BCDL 1	10.0	Code IRC2018/TF	PI2014	Matrix	-AS						Weight: 43 lb	FT = 20%
						1						

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x4 SP 2400F 2.0E *Except*

4-5: 2x4 SPF No.2 **BOT CHORD** 2x4 SPF No.2 *Except*

3-8: 2x4 SPF 1650F 1.5E

WEBS 2x4 SPF No.2

WEDGE

Left: 2x4 SP No.3 REACTIONS.

(size) 6=Mechanical, 2=0-3-8

Max Horz 2=65(LC 7)

Max Uplift 6=-29(LC 4), 2=-49(LC 4) Max Grav 6=486(LC 1), 2=553(LC 1)

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

3-13=-270/12, 3-4=-1105/61, 6-8=-463/38 TOP CHORD **BOT CHORD** 3-10=-55/1052, 9-10=-58/1040, 8-9=-57/1031

WFBS 4-8=-997/62

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; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6, 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.
- 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.
- 9) 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.): 4-5.

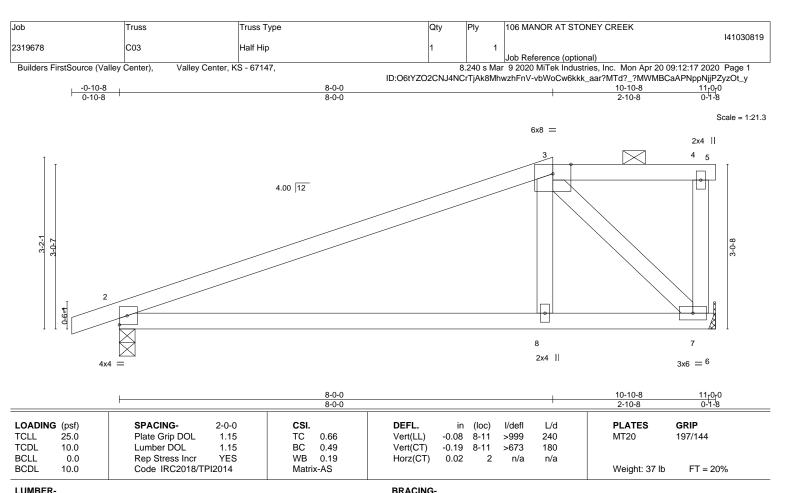
Rigid ceiling directly applied

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BOT CHORD

Structural wood sheathing directly applied, except

2-0-0 oc purlins (10-0-0 max.): 3-5.

Rigid ceiling directly applied.

LUMBER-

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

WEBS 2x4 SPF No.2

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

Max Horz 2=76(LC 4) Max Uplift 2=-42(LC 4), 7=-33(LC 4) Max Grav 2=546(LC 1), 7=491(LC 1)

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

TOP CHORD 2-3=-603/22

BOT CHORD 2-8=-37/498, 7-8=-40/487 WEBS 3-8=0/293, 3-7=-699/57

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; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 7.
- 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.
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



April 20,2020



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 106 MANOR AT STONEY CREEK 141030820 2319678 C04 Half Hip Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inc. Mon Apr 20 09:12:17 2020 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:O6tYZO2CNJ4NCrTjAk8MhwzhFnV-vbWoCw6kkk_aar?MTd?_?MWNiCXwPL6pNjjPZyzOt_y 10-10-8 11₁0-0 1-0-8 0-1-8 0-10-8 5-0-11 4-9-5

4x12 MT20HS = 2x4 || 5 6 4.00 12 2x4 < 3 3-9-6 9 8 3x4 = 2x4 || 4x6 = 9-10-0 10-10-8 11₁0₀0 1-0-8 0-1-8 Plate Offsets (X,Y)-- [2:0-0-0,0-1-3], [4:0-6-0,0-1-11]

LOADING	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.62	Vert(LL)	-0.24	9-12	>534	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.69	Vert(CT)	-0.54	9-12	>238	180	MT20HS	148/108
BCLL	0.0	Rep Stress Incr	YES	WB	0.37	Horz(CT)	0.02	2	n/a	n/a		
BCDL	10.0	Code IRC2018/TF	PI2014	Matri	x-AS						Weight: 41 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

Structural wood sheathing directly applied, except

2-0-0 oc purlins (6-0-0 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

WEDGE

Left: 2x4 SP No.3

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

Max Horz 2=91(LC 4)

Max Uplift 2=-37(LC 4), 8=-37(LC 4) Max Grav 2=546(LC 1), 8=491(LC 19)

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

TOP CHORD 2-3=-820/51 BOT CHORD 2-9=-98/765

WEBS 3-9=-806/107, 4-9=0/416, 5-8=-377/0

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; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) All plates are MT20 plates unless otherwise indicated.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 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.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



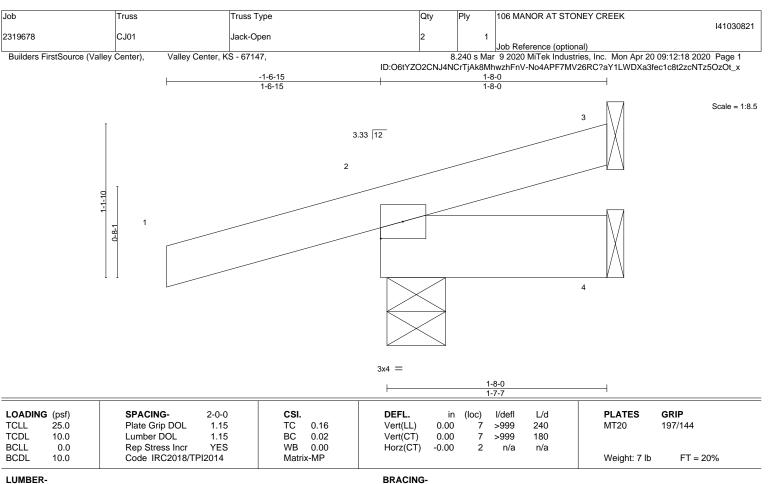
April 20,2020

Scale = 1:24.6



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





BOT CHORD

LUMBER-

REACTIONS.

TOP CHORD 2x4 SPF No.2

2x6 SPF No.2 BOT CHORD

> (size) 3=Mechanical, 2=0-5-3, 4=Mechanical Max Horz 2=28(LC 4)

Max Uplift 3=-8(LC 8), 2=-60(LC 4), 4=-8(LC 1) Max Grav 3=30(LC 1), 2=238(LC 1), 4=24(LC 3)

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; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) Refer to girder(s) for truss to truss connections.
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 2, 4.
- 5) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



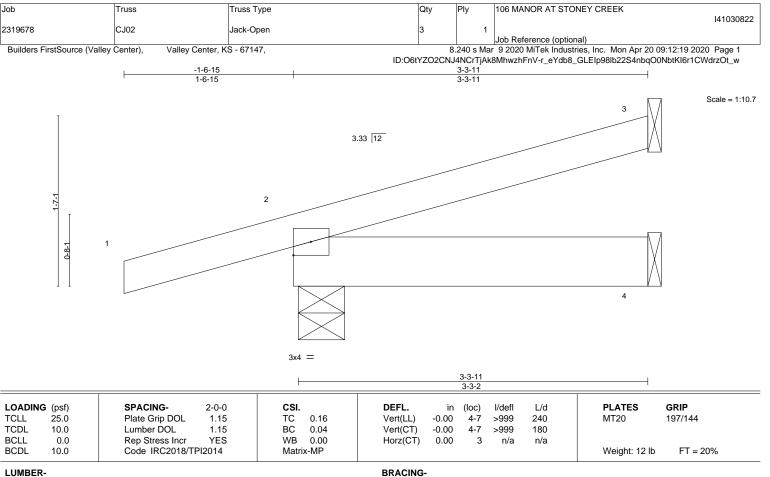
Structural wood sheathing directly applied or 1-8-0 oc purlins.

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.





BOT CHORD

LUMBER-

REACTIONS.

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

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

Max Horz 2=39(LC 4) Max Uplift 3=-18(LC 8), 2=-53(LC 4)

Max Grav 3=82(LC 1), 2=283(LC 1), 4=63(LC 3)

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; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) Refer to girder(s) for truss to truss connections.
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 2.
- 5) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



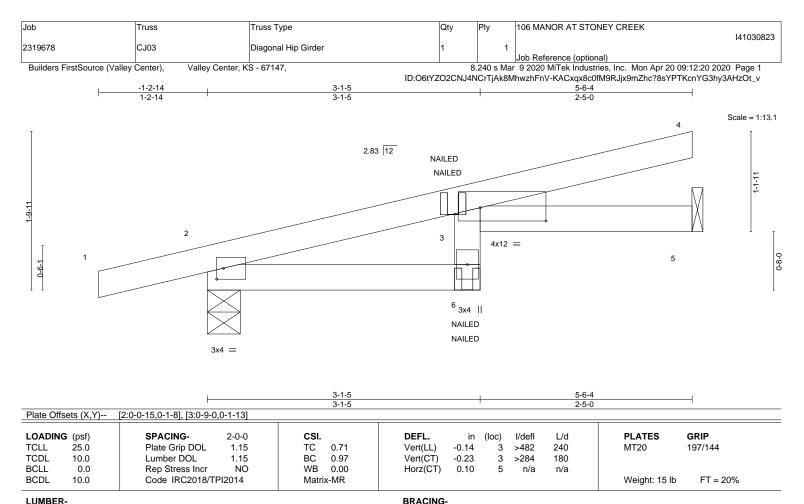
Structural wood sheathing directly applied or 3-3-11 oc purlins.

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









BOT CHORD

LUMBER-

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

3-5: 2x4 SPF 1650F 1.5E

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

Max Horz 2=41(LC 19)

Max Uplift 2=-42(LC 4), 5=-24(LC 5) Max Grav 2=345(LC 1), 5=244(LC 1)

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; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) Refer to girder(s) for truss to truss connections.
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 5.
- 5) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 6) "NAILED" indicates 3-10d (0.148"x3") or 2-12d (0.148"x3.25") toe-nails per NDS guidlines.
- 7) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-3=-70, 3-4=-70, 6-7=-20, 3-5=-20

Concentrated Loads (lb)

Vert: 6=-6(F=-3, B=-3)



Structural wood sheathing directly applied or 5-6-4 oc purlins.

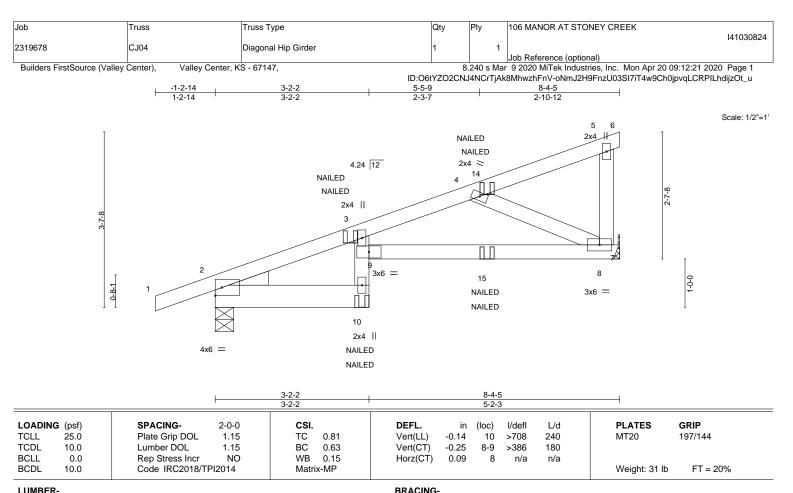
Rigid ceiling directly applied or 6-0-0 oc bracing.

April 20,2020



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





BOT CHORD

LUMBER-

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

> 2-10: 2x6 SPF No.2 2x4 SPF No.2

WEBS

WEDGE

Left: 2x4 SP No.3

REACTIONS. (size) 8=Mechanical, 2=0-4-9

Max Horz 2=87(LC 5)

Max Uplift 8=-53(LC 8), 2=-58(LC 4) Max Grav 8=443(LC 1), 2=494(LC 1)

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

TOP CHORD 2-3=-369/18, 3-4=-713/92 BOT CHORD 3-9=-3/254, 8-9=-111/744

4-8=-811/126 WEBS

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Refer to girder(s) for truss to truss connections.
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 8, 2.
- 5) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 6) "NAILED" indicates 3-10d (0.148"x3") or 2-12d (0.148"x3.25") toe-nails per NDS guidlines.
- 7) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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

Vert: 1-5=-70, 5-6=-20, 10-11=-20, 7-9=-20

Concentrated Loads (lb)

Vert: 10=-8(F=-4, B=-4) 14=-11(F=-6, B=-6) 15=-92(F=-46, B=-46)



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

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

except end verticals

April 20,2020



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 106 MANOR AT STONEY CREEK 141030825 2319678 CJ05 Diagonal Hip Girder Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inc. Mon Apr 20 09:12:22 2020 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:O6tYZO2CNJ4NCrTjAk8MhwzhFnV-GZKhFdAtYGctgctJGAb9iQDBvDDb4h2YX?RAEAzOt_t 6-9-4 1-2-14 3-4-0

> Scale = 1:18.2 NAILED 2x4 NAILED 4.24 12 3x4 = 3 13 14 NAILED NAILED NAILED NAILED 6

Plate Offse	ets (X,Y)	[2:0-1-15,0-1-8]										
LOADING	(psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.79	Vert(LL)	-0.15	7-10	>502	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.73	Vert(CT)	-0.26	7-10	>290	180		
BCLL	0.0	Rep Stress Incr	NO	WB	0.00	Horz(CT)	0.04	2	n/a	n/a		
BCDL	10.0	Code IRC2018/TI	PI2014	Matri	x-MP						Weight: 22 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

6-9-4

LUMBER-

TOP CHORD 2x4 SPF No.2

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

SLIDER Left 2x4 SPF No.2 1-6-0

REACTIONS. (size) 7=Mechanical, 2=0-4-9

Max Horz 2=83(LC 7)

Max Uplift 7=-52(LC 5), 2=-89(LC 4) Max Grav 7=419(LC 1), 2=462(LC 1)

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

TOP CHORD 2-4=-344/64

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) Refer to girder(s) for truss to truss connections.
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 7, 2.
- 5) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 6) "NAILED" indicates 3-10d (0.148"x3") or 2-12d (0.148"x3.25") toe-nails per NDS guidlines.
- 7) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-4=-70, 4-5=-20, 6-8=-20

Concentrated Loads (lb)

Vert: 12=-33(F=-16, B=-16) 13=-87(F=-44, B=-44) 14=-82(F=-41, B=-41)



2x4 ||

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

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

except end verticals.

April 20,2020



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 106 MANOR AT STONEY CREEK 141030826 2319678 CJ06 Diagonal Hip Girder Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inc. Mon Apr 20 09:12:23 2020 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:O6tYZO2CNJ4NCrTjAk8MhwzhFnV-klu3TzBVJakkImSWqu6OEdmV9dgDp4yilfAkmczOt_s

4-2-12

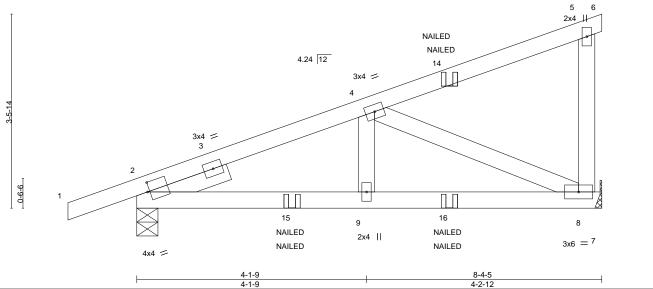
Structural wood sheathing directly applied or 6-0-0 oc purlins,

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

except end verticals.

4-1-9

Scale = 1:20.7



	0010 (71) 1	[2:0 0 0;0 2 0]			
LOADIN	G (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d	PLATES GRIP
TCLL	25.0	Plate Grip DOL 1.15	TC 0.24	Vert(LL) -0.01 8-9 >999 240	MT20 197/144
TCDL	10.0	Lumber DOL 1.15	BC 0.32	Vert(CT) -0.03 8-9 >999 180	
BCLL	0.0	Rep Stress Incr NO	WB 0.21	Horz(CT) 0.01 8 n/a n/a	
BCDL	10.0	Code IRC2018/TPI2014	Matrix-MP		Weight: 32 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x4 SPF No.2

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

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

SLIDER Left 2x4 SPF No.2 1-6-0

REACTIONS. (size) 2=0-4-9, 8=Mechanical

Max Horz 2=100(LC 22) Max Uplift 2=-96(LC 4), 8=-47(LC 8) Max Grav 2=548(LC 1), 8=442(LC 1)

1-2-14

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

TOP CHORD 2-4=-610/89

BOT CHORD 2-9=-106/606, 8-9=-106/606

WEBS 4-8=-659/116

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) Refer to girder(s) for truss to truss connections.
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 8.
- 5) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 6) "NAILED" indicates 3-10d (0.148"x3") or 2-12d (0.148"x3.25") toe-nails per NDS guidlines.
- 7) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-5=-70, 5-6=-20, 7-10=-20

Concentrated Loads (lb)

Vert: 14=-4(F=-2, B=-2) 15=-87(F=-44, B=-44) 16=-77(F=-39, B=-39)

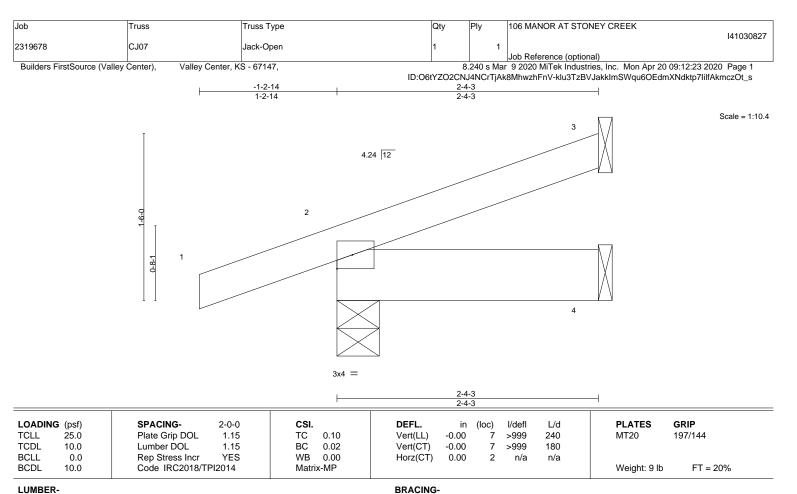


April 20,2020



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





BOT CHORD

LUMBER-

REACTIONS.

TOP CHORD 2x4 SPF No.2 BOT CHORD

2x6 SPF No.2

(size) 3=Mechanical, 2=0-4-9, 4=Mechanical

Max Horz 2=37(LC 4)

Max Uplift 3=-14(LC 8), 2=-39(LC 4)

Max Grav 3=56(LC 1), 2=213(LC 1), 4=44(LC 3)

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; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) Refer to girder(s) for truss to truss connections.
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 2.
- 5) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



Structural wood sheathing directly applied or 2-4-3 oc purlins.

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

April 20,2020



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 106 MANOR AT STONEY CREEK 141030828 2319678 D01 Half Hip Girder Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inc. Mon Apr 20 09:12:25 2020 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:O6tYZO2CNJ4NCrTjAk8MhwzhFnV-g8?qtfClrB_SX4cuxJ9sJ2rf_QF1Hyt?DzfqrUzOt_q | -0-10-8 | 0-10-8 6-0-0 11-2-8 13-2-0 3-8-8 5-2-8 1-11-8 Scale = 1:27.1 NAILED NAILED 6x6 = 4x6 = MAILED5x5 =NAILED NAILED 17 16 Ш 6.00 12 3-8-1 ПП 9 8x12 = 10 1-0-0 18 19 5x8 4x4 = NAILED NAILED Special 20 8 3x4 2x4 NAILED 3x8 =NAILED 6-0-0 13-2-0 Plate Offsets (X,Y)--[2:0-0-0,0-0-7], [3:0-8-6,Edge], [9:0-5-12,0-2-8] LOADING (psf) SPACING-CSI. DEFL. (loc) I/defl L/d **PLATES** GRIP **TCLL** 25.0 Plate Grip DOL 1.15 TC 0.99 Vert(LL) -0.17 3-10 >944 240 MT20 197/144 **TCDL** 10.0 Lumber DOL 1.15 BC 0.74 Vert(CT) -0.293-10 >532 180 **BCLL** 0.0 Rep Stress Incr NO WB 0.38 Horz(CT) 0.22 n/a n/a Code IRC2018/TPI2014 BCDL Matrix-MS Weight: 65 lb FT = 20%10.0 LUMBER-**BRACING-**2x6 SPF 2100F 1.8E *Except* TOP CHORD TOP CHORD Structural wood sheathing directly applied or 1-11-14 oc purlins, 4-6: 2x4 SPF No.2 except end verticals, and 2-0-0 oc purlins (3-2-14 max.): 4-6. **BOT CHORD** 2x4 SPF No.2 *Except* **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc bracing 3-9: 2x6 SPF 2100F 1.8E

WEBS 2x4 SPF No.2

WEDGE

Left: 2x4 SP No.3

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

Max Horz 2=99(LC 7)

Max Uplift 7=-118(LC 5), 2=-70(LC 8) Max Grav 7=1484(LC 1), 2=1078(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 3-13=-536/40, 3-4=-2398/172, 4-5=-2229/172, 5-6=-991/77, 6-7=-1343/152

BOT CHORD 3-10=-211/2193, 9-10=-124/1102, 5-9=-1025/172 WFBS 4-10=0/357, 5-10=-93/1224, 6-9=-149/1542

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; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2 except (jt=lb)
- 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) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 9) "NAILED" indicates 3-10d (0.148"x3") or 3-12d (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) 491 lb down and 74 lb up at 6-0-0 on bottom 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 + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

Vert: 1-3=-70, 3-4=-70, 4-6=-70, 11-12=-20, 3-9=-20, 7-8=-20



April 20,2020



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	106 MANOR AT STONEY CREEK
0040070	201	LI KUR OF L			I41030828
2319678	D01	Half Hip Girder	1	1	
					Job Reference (optional)

Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

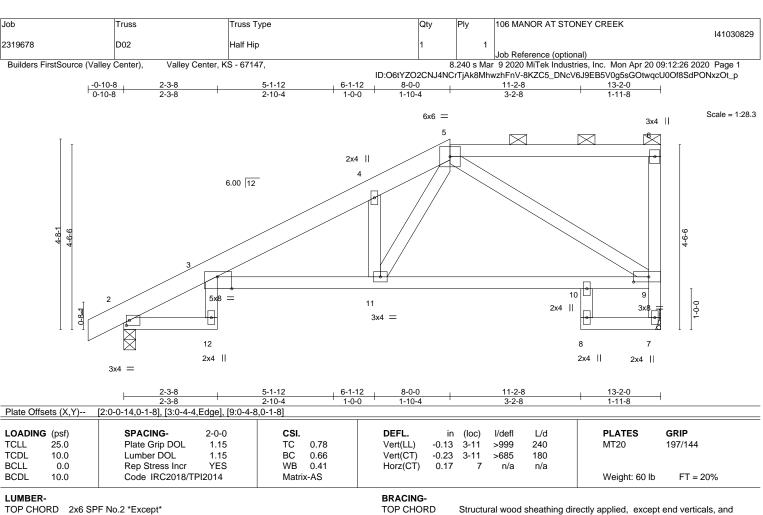
8.240 s Mar 9 2020 MiTek Industries, Inc. Mon Apr 20 09:12:25 2020 Page 2 ID:O6tYZO2CNJ4NCrTjAk8MhwzhFnV-g8?qtfClrB_SX4cuxJ9sJ2rf_QF1Hyt?DzfqrUzOt_q

LOAD CASE(S) Standard

Concentrated Loads (lb)

Vert: 4=-96(B) 7=-66(B) 10=-491(B) 6=-156(B) 15=-96(B) 16=-96(B) 17=-119(B) 18=-77(B) 19=-77(B) 20=-55(B)





BOT CHORD

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

Rigid ceiling directly applied

2x6 SPF No.2 *Except* TOP CHORD

5-6: 2x4 SPF No.2 **BOT CHORD** 2x4 SPF No.2 **WEBS** 2x4 SPF No.2

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

Max Horz 2=129(LC 7)

Max Uplift 7=-36(LC 5), 2=-23(LC 8) Max Grav 7=584(LC 1), 2=651(LC 1)

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

3-14=-318/10, 3-4=-1026/30, 4-5=-1128/81, 7-9=-556/47 TOP CHORD

3-11=-84/959, 10-11=-79/590, 9-10=-75/606 BOT CHORD **WEBS** 4-11=-520/93, 5-11=-52/744, 5-9=-644/61

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; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60

3) Provide adequate drainage to prevent water ponding.

4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

5) Refer to girder(s) for truss to truss connections.

- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 7, 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.
- 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.
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

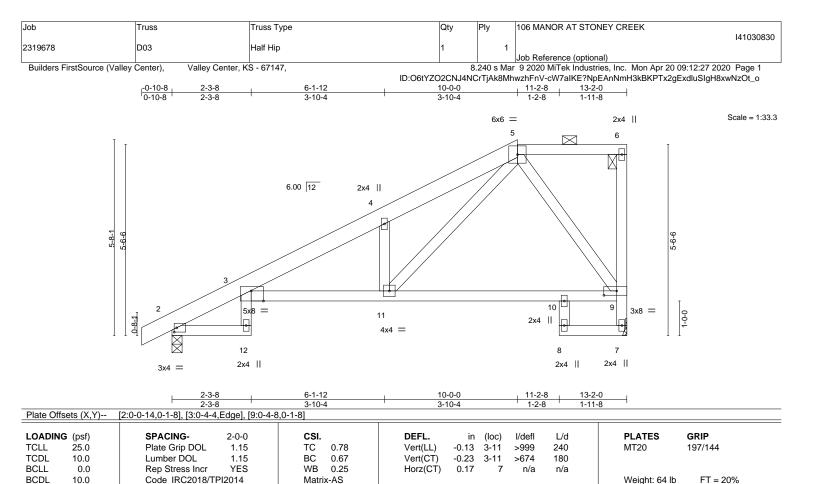


April 20,2020



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-

2x6 SPF No.2 *Except* TOP CHORD

5-6: 2x4 SPF No.2 **BOT CHORD** 2x4 SPF No.2 WEBS 2x4 SPF No.2

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

Max Horz 2=158(LC 7)

Max Uplift 7=-37(LC 5), 2=-24(LC 8) Max Grav 7=584(LC 1), 2=651(LC 1)

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

3-14=-341/12, 3-4=-1022/42, 4-5=-1144/112, 7-9=-557/48 TOP CHORD

BOT CHORD 3-11=-87/953, 10-11=-66/319, 9-10=-66/327 **WEBS** 4-11=-566/112, 5-11=-88/942, 5-9=-516/62

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; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60

3) Provide adequate drainage to prevent water ponding.

- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 7, 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.
- 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.
- 9) 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

April 20,2020



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 106 MANOR AT STONEY CREEK 141030831 2319678 D04 Half Hip

Builders FirstSource (Valley Center), Valley Center, KS - 67147, Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inc. Mon Apr 20 09:12:28 2020 Page 1

Structural wood sheathing directly applied, except end verticals, and

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

Rigid ceiling directly applied

Scale = 1:40.3

ID:O6tYZO2CNJ4NCrTjAk8MhwzhFnV-5jhyWgEe86N1OXLTdRiZxhTCPeHuUD_RvxuUSpzOt_n 11-2-8

12-0-0 13-2-0 0-9-8 1-2-0 3-10-4 4-5-8

6x6 = 3x4 = 6.00 12 3x4 / 10 12 2x4 13 9 2x4 || 2x4 3x4 3x4 = Ш 2x4

2-3-8	6-1-12	6-9-0 ₁	11-2-8	12-0-0, 13-2-0
2-3-8	3-10-4	0-7-4 ¹	4-5-8	0-9-8 1-2-0

BRACING-

TOP CHORD

BOT CHORD

Plate Offsets (X,Y)--[2:0-0-14,0-1-8], [3:0-4-0,Edge], [6:Edge,0-1-8], [7:Edge,0-1-8] SPACING-DEFL. **PLATES** GRIP LOADING (psf) (loc) I/defI L/d Plate Grip DOL **TCLL** 25.0 1.15 TC 0.78 Vert(LL) -0.13 3-12 >999 240 MT20 197/144 **TCDL** 10.0 Lumber DOL 1.15 ВС 0.67 Vert(CT) -0.23 3-12 >665 180 **BCLL** 0.0 Rep Stress Incr YES WB 0.74 Horz(CT) 0.20 n/a n/a Code IRC2018/TPI2014 FT = 20% BCDL Matrix-AS Weight: 68 lb 10.0

LUMBER-

REACTIONS.

2x6 SPF No.2 *Except* TOP CHORD

5-6: 2x4 SPF No.2 **BOT CHORD** 2x4 SPF No.2 **WEBS** 2x4 SPF No.2

(size) 7=Mechanical, 2=0-3-8

Max Horz 2=188(LC 7)

Max Uplift 7=-41(LC 8), 2=-22(LC 8) Max Grav 7=584(LC 1), 2=651(LC 1)

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

3-15=-365/17, 3-4=-1079/51, 6-7=-287/26 TOP CHORD

BOT CHORD 3-12=-102/1017, 11-12=-101/1017, 10-11=-88/1060

WEBS 8-10=-407/101, 4-10=-1040/115

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; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 7, 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.
- 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.
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



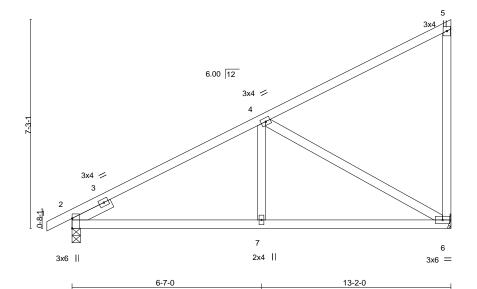
April 20,2020



Job Truss Truss Type Qty 106 MANOR AT STONEY CREEK 141030832 2319678 D05 Monopitch Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inc. Mon Apr 20 09:12:28 2020 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, $ID:O6tYZO2CNJ4NCrTjAk8MhwzhFnV-5jhyWgEe86N1OXLTdRiZxhTl0eMrUEGRvxuUSpzOt_n\\$ 0-10-8 0-10-8 6-7-0 6-7-0 13-2-0

6-7-0

Scale = 1:40.0



		0.0	0.0	
Plate Offsets (X,Y)	[2:Edge,0-0-0]			
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d	PLATES GRIP
TCLL 25.0	Plate Grip DOL 1.15	TC 0.43	Vert(LL) -0.04 6-7 >999 240	MT20 197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.35	Vert(CT) -0.08 6-7 >999 180	
BCLL 0.0	Rep Stress Incr YES	WB 0.66	Horz(CT) 0.01 6 n/a n/a	
BCDL 10.0	Code IRC2018/TPI2014	Matrix-AS		Weight: 54 lb FT = 20%

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 1-6-0

REACTIONS. (size) 2=0-3-8, 6=Mechanical

Max Horz 2=206(LC 7)

Max Uplift 2=-19(LC 8), 6=-54(LC 8) Max Grav 2=649(LC 1), 6=584(LC 1)

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

TOP CHORD 2-4=-758/30

2-7=-68/621, 6-7=-68/621 **BOT CHORD WEBS** 4-7=0/284, 4-6=-693/100

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) Refer to girder(s) for truss to truss connections.
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 6.
- 5) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 6) 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.

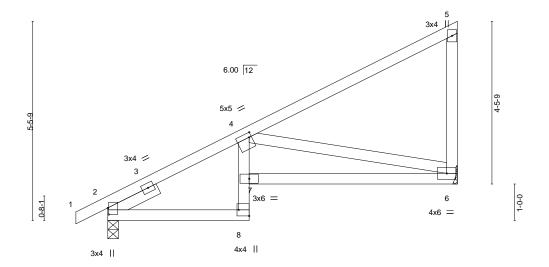
Rigid ceiling directly applied.



Job Truss Truss Type Qty 106 MANOR AT STONEY CREEK 141030833 2319678 D06 Monopitch Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inc. Mon Apr 20 09:12:29 2020 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:O6tYZO2CNJ4NCrTjAk8MhwzhFnV-ZvFKj0FGvQVu0hvgA9DoUu0Vl2dmDjga8bd2_GzOt_m

5-8-8

Scale = 1:31.6



3-10-8 3-10-8

> **BRACING-**TOP CHORD

> **BOT CHORD**

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

0-10-8

3-10-8

LOADING	(psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.30	Vert(LL)	-0.05	6-7	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.69	Vert(CT)	-0.10	6-7	>999	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.52	Horz(CT)	0.06	6	n/a	n/a		
BCDL	10.0	Code IRC2018/TF	PI2014	Matri	x-AS						Weight: 39 lb	FT = 20%

LUMBER-

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

SLIDER Left 2x4 SPF No.2 1-6-0

REACTIONS. (size) 6=Mechanical, 2=0-3-8

Max Horz 2=138(LC 5)

Max Uplift 6=-40(LC 8), 2=-15(LC 8) Max Grav 6=422(LC 1), 2=489(LC 1)

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

TOP CHORD 2-4=-515/27

2-8=-55/461, 6-7=-97/898 **BOT CHORD**

WEBS 4-6=-881/124

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) Refer to girder(s) for truss to truss connections.
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6, 2.
- 5) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 6) 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.







Job Truss Truss Type Qty 106 MANOR AT STONEY CREEK 141030834 2319678 D07 Roof Special Girder Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inc. Mon Apr 20 09:12:30 2020 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147,

ID:O6tYZO2CNJ4NCrTjAk8MhwzhFnV-15pjxMGugkdkerUsksk106ZhyR2jyDZkMFNbWizOt_I

0-10-8 9-7-0 1-9-0 3-0-0 2-1-8 2-8-8 3-0-0

Scale = 1:31.5

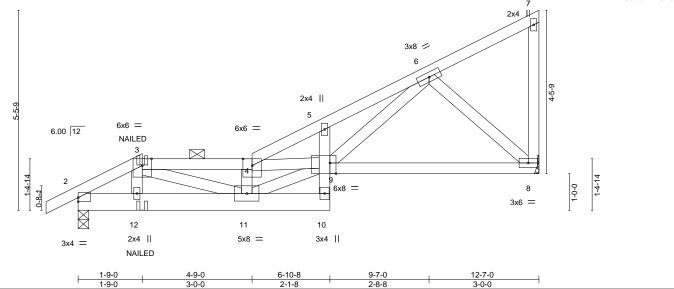


Plate Offsets (X,Y)--[2:0-0-0,0-1-5], [9:0-2-0,Edge] SPACING-L/d LOADING (psf) 2-0-0 CSI. DEFL. in (loc) I/defl **PLATES** GRIP **TCLL** 25.0 Plate Grip DOL 1.15 TC 0.21 Vert(LL) -0.06 >999 240 MT20 197/144 10 **TCDL** 10.0 Lumber DOL 1.15 BC 0.33 Vert(CT) -0.128-9 >999 180 **BCLL** 0.0 Rep Stress Incr NO WB 0.35 Horz(CT) 0.02 8 n/a n/a Code IRC2018/TPI2014 FT = 20% BCDL 10.0 Matrix-MS Weight: 60 lb

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

2-10: 2x6 SPF No.2 **WEBS** 2x4 SPF No.2

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

Max Horz 2=138(LC 5)

Max Uplift 8=-44(LC 8), 2=-27(LC 8) Max Grav 8=558(LC 1), 2=624(LC 1)

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

2-3=-852/28, 3-4=-1352/36, 4-5=-1536/66, 5-6=-1574/97 TOP CHORD

BOT CHORD 2-12=-75/751, 11-12=-78/755, 8-9=-36/467

WEBS 3-11=-17/638, 4-11=-884/61, 9-11=-75/1429, 6-9=-69/1258, 6-8=-623/80

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Provide adequate drainage to prevent water ponding.
- 3) 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.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 8, 2.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 7) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 8) "NAILED" indicates 3-10d (0.148"x3") or 2-12d (0.148"x3.25") toe-nails per NDS guidlines.
- 9) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B)

LOAD CASE(S) Standard

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

Vert: 1-3=-70, 3-4=-70, 4-7=-70, 10-13=-20, 8-9=-20

Concentrated Loads (lb) Vert: 12=-1(B)



Structural wood sheathing directly applied or 4-7-2 oc purlins,

except end verticals, and 2-0-0 oc purlins (4-10-12 max.): 3-4.

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

April 20,2020



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 106 MANOR AT STONEY CREEK 141030835 2319678 D08 Roof Special Job Reference (optional)
8.240 s Mar 9 2020 MiTek Industries, Inc. Mon Apr 20 09:12:31 2020 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:O6tYZO2CNJ4NCrTjAk8MhwzhFnV-VIN58iHWR1lbG?32IZFGZJ5qcrLGhdetbv6938zOt_k

5-10-0

5-10-0

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

Rigid ceiling directly applied.

Structural wood sheathing directly applied, except end verticals, and

3-0-0

Scale = 1:30.0

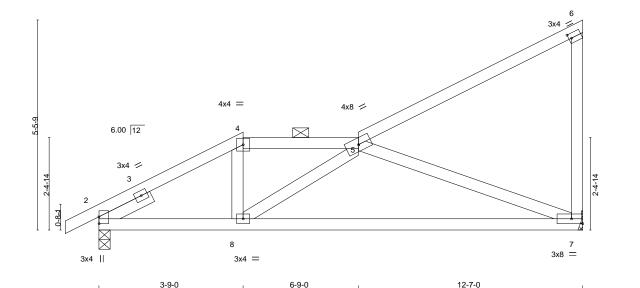


Plate Offsets (X,Y)--[2:Edge,0-0-0], [6:0-0-13,0-1-8] SPACING-GRIP LOADING (psf) CSI. DEFL. (loc) I/defI L/d **PLATES TCLL** 25.0 Plate Grip DOL 1.15 TC 0.34 Vert(LL) -0.16 7-8 >919 240 MT20 197/144 **TCDL** 10.0 Lumber DOL 1.15 ВС 0.56 Vert(CT) -0.33 7-8 >454 180 **BCLL** 0.0 Rep Stress Incr YES WB 0.55 Horz(CT) 0.02 n/a n/a Code IRC2018/TPI2014 FT = 20% BCDL 10.0 Matrix-AS Weight: 52 lb

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 1-6-0

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

Max Horz 2=153(LC 7)

Max Uplift 7=-44(LC 8), 2=-27(LC 8) Max Grav 7=558(LC 1), 2=623(LC 1)

0-10-8

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

TOP CHORD 2-4=-847/34, 4-5=-702/29 2-8=-35/717, 7-8=-68/807 BOT CHORD **WEBS** 4-8=0/277, 5-7=-825/110

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Provide adequate drainage to prevent water ponding.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 7, 2.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 7) 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.
- 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



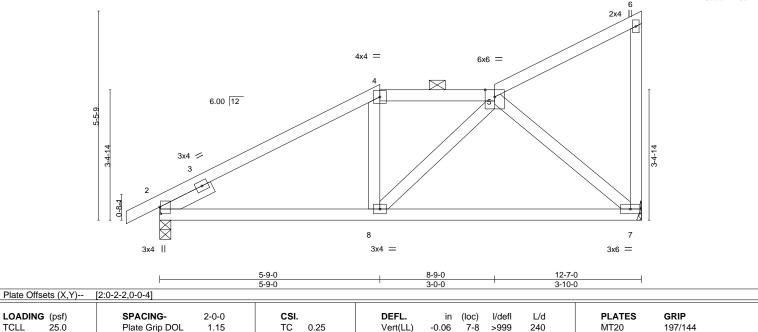
April 20,2020



Job Truss Truss Type Qty 106 MANOR AT STONEY CREEK 141030836 2319678 D09 Roof Special Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inc. Mon Apr 20 09:12:32 2020 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:O6tYZO2CNJ4NCrTjAk8MhwzhFnV-zUwTL2l8CLtSt9eErHnV6Xe1pFkzP9g1qZsibbzOt_j 0-10-8

5-9-0

Scale = 1:30.1



Vert(CT)

Horz(CT)

BRACING-

TOP CHORD

BOT CHORD

-0.12

0.01

7-8

>999

n/a

180

n/a

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

Rigid ceiling directly applied.

8-9-0

3-0-0

3-10-0

LUMBER-

TCLL

TCDL

BCLL

BCDL

LOADING (psf)

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

25.0

10.0

0.0

10.0

WEBS 2x4 SPF No.2 **SLIDER** Left 2x4 SPF No.2 1-6-0

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

Max Horz 2=153(LC 7)

Max Uplift 7=-44(LC 8), 2=-27(LC 8) Max Grav 7=558(LC 1), 2=623(LC 1)

Lumber DOL

Rep Stress Incr

Code IRC2018/TPI2014

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

2-4=-668/34, 4-5=-601/54 TOP CHORD BOT CHORD 2-8=-44/601, 7-8=-34/455

WEBS 5-7=-580/76

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Provide adequate drainage to prevent water ponding.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

1.15

YES

BC

WB

Matrix-AS

0.34

0.25

- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 7, 2.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 7) 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.
- 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



FT = 20%

Weight: 52 lb

Structural wood sheathing directly applied, except end verticals, and



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 106 MANOR AT STONEY CREEK 141030837 D10 2319678 Roof Special Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inc. Mon Apr 20 09:12:33 2020 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:O6tYZO2CNJ4NCrTjAk8MhwzhFnV-RgUrZOImzf?JVIDRP_lkekA7if2c8dsA3DbF71zOt_i 0-10-8

7-9-0

10-9-0

3-0-0

12-7-0

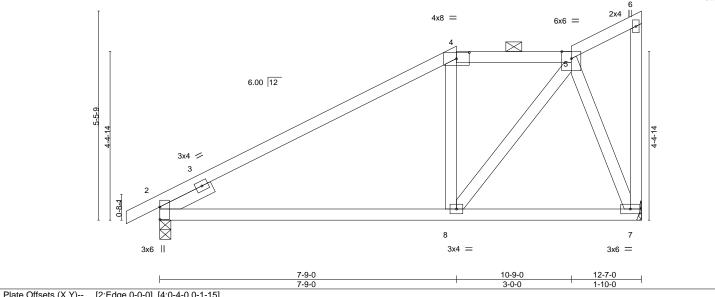
1-10-0

Structural wood sheathing directly applied, except end verticals, and

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

Rigid ceiling directly applied.

Scale = 1:30.1



T late Off	3013 (71,1)	[2.Eugc,0 0 0], [4.0 4 0,0 1 10]			
LOADIN	G (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d	PLATES GRIP
TCLL	25.0	Plate Grip DOL 1.15	TC 0.56	Vert(LL) -0.08 8-11 >999 240	MT20 197/144
TCDL	10.0	Lumber DOL 1.15	BC 0.44	Vert(CT) -0.16 8-11 >928 180	
BCLL	0.0	Rep Stress Incr YES	WB 0.19	Horz(CT) 0.03 2 n/a n/a	
BCDL	10.0	Code IRC2018/TPI2014	Matrix-AS		Weight: 54 lb FT = 20%

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 1-6-0

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

Max Horz 2=153(LC 7)

Max Uplift 7=-44(LC 8), 2=-27(LC 8) Max Grav 7=558(LC 1), 2=623(LC 1)

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

TOP CHORD 2-4=-622/39, 4-5=-485/66

BOT CHORD 2-8=-44/478

WEBS 5-8=-56/485, 5-7=-510/55

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Provide adequate drainage to prevent water ponding.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 7, 2.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 7) 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.
- 8) 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 106 MANOR AT STONEY CREEK 141030838 D11 2319678 Half Hip Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inc. Mon Apr 20 09:12:34 2020 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:O6tYZO2CNJ4NCrTjAk8MhwzhFnV-vt2DmkJOjy7A7SodzipzByjMk3Nst1vKHtLpfTzOt_h |-0-10-8 | 0-10-8 9-7-8

4-8-0

2-11-8

Structural wood sheathing directly applied, except end verticals, and

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

Rigid ceiling directly applied

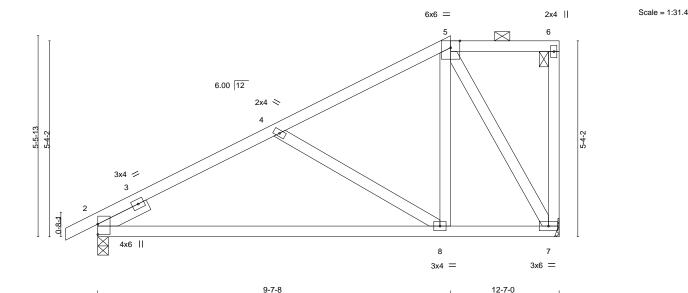


Plate Off	sets (X,Y)	[2:Eage,0-0-0]			
LOADING	G (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d	PLATES GRIP
TCLL	25.0	Plate Grip DOL 1.15	TC 0.28	Vert(LL) -0.13 8-11 >999 240	MT20 197/144
TCDL	10.0	Lumber DOL 1.15	BC 0.50	Vert(CT) -0.27 8-11 >554 180	I
BCLL	0.0	Rep Stress Incr YES	WB 0.33	Horz(CT) 0.02 2 n/a n/a	
BCDL	10.0	Code IRC2018/TPI2014	Matrix-AS		Weight: 56 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 1-6-0

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

Max Horz 2=152(LC 7)

Max Uplift 2=-24(LC 8), 7=-35(LC 5) Max Grav 2=623(LC 1), 7=558(LC 1)

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

TOP CHORD 2-4=-774/57, 4-5=-395/31 **BOT CHORD** 2-8=-78/615, 7-8=-39/272

WEBS 4-8=-387/94, 5-8=0/416, 5-7=-561/19

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; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60

4-11-8

- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 7.
- 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.
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



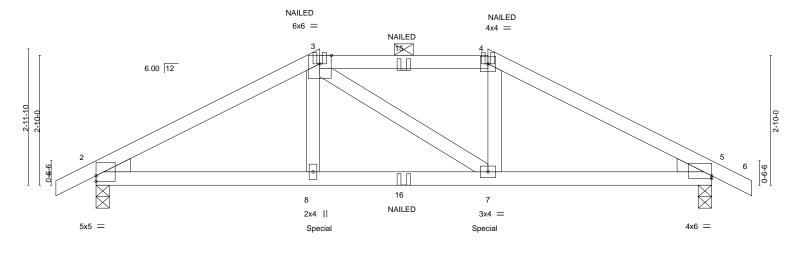
April 20,2020



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



Scale = 1:25.1



	7 10 0				10 0
Plate Offsets (X,Y)	[2:0-0-0,0-1-8], [5:0-0-0,0-0-12]				
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in	(loc) I/defl L/d	PLATES GRIP
TCLL 25.0	Plate Grip DOL 1.15	TC 0.55	Vert(LL) -0.07	7-8 >999 240	MT20 197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.89	Vert(CT) -0.13	7-8 >999 180	
BCLL 0.0	Rep Stress Incr NO	WB 0.13	Horz(CT) 0.04	5 n/a n/a	
BCDL 10.0	Code IRC2018/TPI2014	Matrix-MS			Weight: 46 lb FT = 20%
		1	1		

BRACING-

TOP CHORD

BOT CHORD

8-6-8

LUMBER-

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

WEDGE

Left: 2x4 SP No.3, Right: 2x4 SP No.3

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

Max Horz 2=-29(LC 25)

Max Uplift 2=-110(LC 8), 5=-110(LC 9) Max Grav 2=1237(LC 1), 5=1237(LC 1)

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

4-10-8

1-10-E

TOP CHORD 2-3=-2093/205, 3-4=-1775/200, 4-5=-2094/205 **BOT CHORD** 2-8=-157/1802, 7-8=-156/1774, 5-7=-138/1803

WEBS 3-8=-10/511, 4-7=-15/534

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; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=110, 5=110.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 7) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 8) "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidlines.
- 9) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 431 lb down and 79 lb up at 4-10-8, and 431 lb down and 79 lb up at 8-5-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 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 + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

Vert: 1-3=-70, 3-4=-70, 4-6=-70, 9-12=-20

Vert: 4=-80(B) 8=-431(B) 7=-431(B) 3=-80(B) 15=-80(B) 16=-41(B)



Structural wood sheathing directly applied or 3-7-1 oc purlins, except

2-0-0 oc purlins (3-10-14 max.): 3-4.

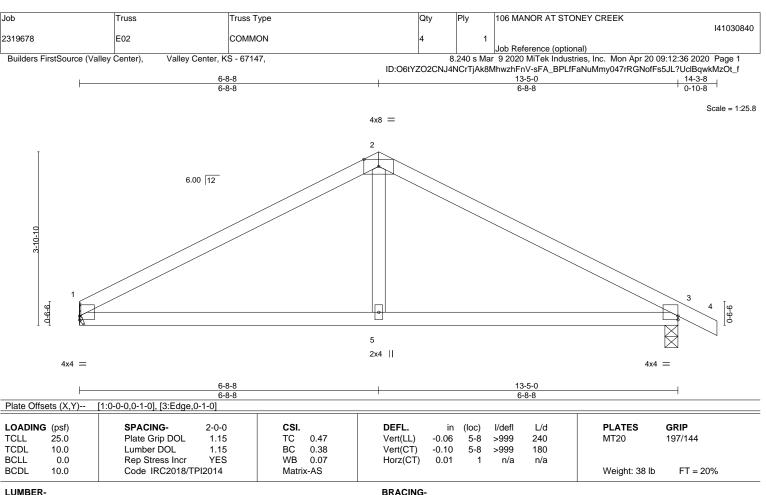
Rigid ceiling directly applied or 10-0-0 oc bracing

April 20,2020



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





BOT CHORD

Structural wood sheathing directly applied.

Rigid ceiling directly applied.

LUMBER-

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

WEBS 2x4 SPF No.2

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

Max Horz 1=-40(LC 11)

Max Uplift 1=-14(LC 8), 3=-21(LC 9) Max Grav 1=602(LC 1), 3=667(LC 1)

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

1-2=-832/38, 2-3=-833/38 TOP CHORD **BOT CHORD** 1-5=0/656, 3-5=0/656

WFBS 2-5=0/294

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; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 7) 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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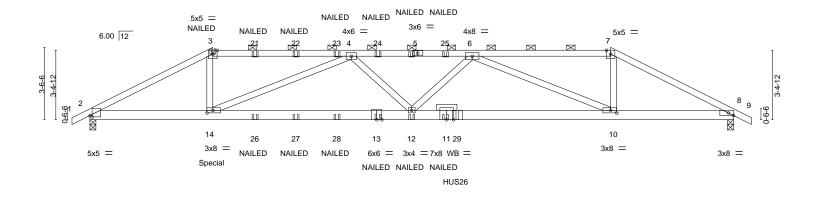


MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.



Job Truss Truss Type Qty 106 MANOR AT STONEY CREEK 141030841 HIP GIRDER 2319678 G01 Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inc. Mon Apr 20 09:12:38 2020 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:O6tYZO2CNJ4NCrTjAk8MhwzhFnV-oelkc5MvnBdcb45OCYtvLouuggi6pjRvCUJ0oEzOt_d -0-10-8 0-10-8 6-0-0 6-9-2 5-10-13 6-0-0

Scale = 1:56.2



		6-0-0		15-8-8		25-5-0		31-5-0	
	1	6-0-0		9-8-8	<u> </u>	9-8-8		6-0-0	ı
Plate Offs	sets (X,Y)	[2:0-1-4,0-0-13], [8:0-3-	0,Edge], [10:0-3-	8,0-1-8], [14:0-3-8,0-1-8]					
LOADING	G (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc) I/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC 0.93	Vert(LL)	-0.31 10-12 >999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC 0.68	Vert(CT)	-0.56 10-12 >670	180		
BCLL	0.0	Rep Stress Incr	NO	WB 0.87	Horz(CT)	0.08 8 n/a	n/a		
BCDL	10.0	Code IRC2018/	TPI2014	Matrix-MS				Weight: 259 lb	FT = 20%

BOT CHORD

LUMBER-**BRACING-**

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

3-5: 2x4 SPF 1650F 1.5E

BOT CHORD 2x6 SPF 2100F 1.8E

WEBS 2x4 SPF No.2

OTHERS 2x4 SPF No.2

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

Max Horz 2=-34(LC 25)

Max Uplift 2=-194(LC 5), 8=-135(LC 4) Max Grav 2=3006(LC 1), 8=2602(LC 1)

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

TOP CHORD $2\hbox{-}3\hbox{-}5885/414, \, 3\hbox{-}4\hbox{-}-5122/383, \, 4\hbox{-}6\hbox{-}-8893/583, \, 6\hbox{-}7\hbox{-}-4503/297, \, 7\hbox{-}8\hbox{-}-5206/323$ **BOT CHORD** 2-14=-352/5211, 12-14=-645/8413, 10-12=-543/8028, 8-10=-241/4591

3-14=-48/1954, 4-14=-3677/362, 4-12=0/760, 6-12=-26/1278, 6-10=-3940/365,

7-10=-89/1910

WEBS

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: 2x6 - 2 rows staggered at 0-7-0 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; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=194. 8=135.
- 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.
- 10) Use Simpson Strong-Tie HUS26 (14-10d Girder, 4-10d Truss) or equivalent at 17-11-4 from the left end to connect truss(es) to back face of bottom chord.
- 11) Fill all nail holes where hanger is in contact with lumber.
- 12) "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidlines.
- 13) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 468 lb down and 70 lb up at 6-0-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.



Structural wood sheathing directly applied or 4-10-9 oc purlins,

2-0-0 oc purlins (3-2-12 max.): 3-7.

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

April 20,2020



🛕 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	106 MANOR AT STONEY CREEK
2319678	G01	HIP GIRDER	1		I41030841
2313070	001	I'III GINDEN	'	2	Job Reference (optional)

Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

8.240 s Mar 9 2020 MiTek Industries, Inc. Mon Apr 20 09:12:38 2020 Page 2 $ID:O6tYZO2CNJ4NCrTjAk8MhwzhFnV-oelkc5MvnBdcb45OCYtvLouuggi6pjRvCUJ0oEzOt_d$

LOAD CASE(S) Standard

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

Uniform Loads (plf)

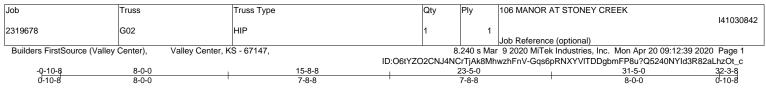
Vert: 1-3=-70, 3-7=-70, 7-9=-70, 15-18=-20

Concentrated Loads (lb)

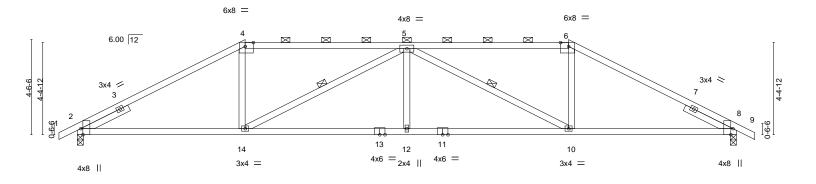
Vert: 3=-118(B) 5=-118(B) 13=-55(B) 14=-468(B) 12=-55(B) 11=-55(B) 21=-118(B) 22=-118(B) 23=-118(B) 24=-118(B) 25=-118(B) 25=-118(B) 26=-55(B) 27=-55(B) 28=-55(B) 21=-118(B) 25=-118(B) 25

29=-1036(B)





Scale = 1:54.9



	8-0-0		1	15-8-	-8	ı	23-5-0			31-5-0		
	8-0-0			7-8-8			7-8-8		1	8-0-0		
Plate Offse	ets (X,Y)	[2:0-3-8,Edge], [4:0-4-10,Ed	lge], [6:0-4-1	0,Edge], [8:0	-3-8,Edge]							
LOADING	(psf)	SPACING-	2-0-0	CSI.		DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP	
TCLL	25.0	Plate Grip DOL	1.15	TC	0.82	Vert(LL)	-0.18 10-12	>999	240	MT20	197/144	
TCDL	10.0	Lumber DOL	1.15		0.74	Vert(CT)	-0.36 10-12	>999	180			
BCLL	0.0	Rep Stress Incr	YES		0.36	Horz(CT)	0.12 8	n/a	n/a			
BCDL	10.0	Code IRC2018/TPI2	014	Matrix-	AS					Weight: 115 lb	FT = 20%	

BRACING-

TOP CHORD

BOT CHORD

WEBS

Structural wood sheathing directly applied, except

5-14, 5-10

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

Rigid ceiling directly applied.

1 Row at midpt

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=-45(LC 6)

Max Uplift 2=-12(LC 5), 8=-12(LC 4) Max Grav 2=1472(LC 1), 8=1472(LC 1)

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

 $2\text{-}4\text{=-}2278/64,\ 4\text{-}5\text{=-}2030/74,\ 5\text{-}6\text{=-}2030/74,\ 6\text{-}8\text{=-}2278/64}$ TOP CHORD 2-14=-31/2047, 12-14=-54/2765, 10-12=-54/2765, 8-10=0/2047 BOT CHORD **WEBS** 4-14=0/581, 5-14=-979/91, 5-12=0/319, 5-10=-979/91, 6-10=0/581

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; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 8.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 7) 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.
- 8) 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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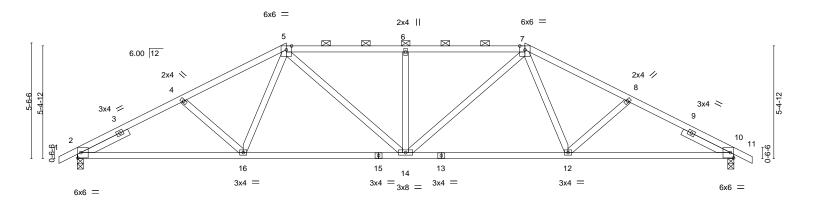


M WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.



Job Truss Truss Type Qty 106 MANOR AT STONEY CREEK 141030843 HIP 2319678 G03 Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inc. Mon Apr 20 09:12:40 2020 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:O6tYZO2CNJ4NCrTjAk8MhwzhFnV-k0PV1nO9JotKrNFnJywNQDzMxTOtHn7Cgoo7t7zOt_b -0-10-8 0-10-8 21-5-0 26-4-0 31-5-0 32-3-8 0-10-8 4-11-0 5-8-8 5-8-8 4-11-0 5-1-0

Scale = 1:55.1



	7-11-4	15-8-8	23-5-12	31-5-0
	7-11-4	7-9-4	7-9-4	7-11-4
Plate Offsets (X,Y) [2:0-1-12,0-3-2], [10:0-1-12,0-3-	2]		
LOADING (psf) TCLL 25.0 TCDL 10.0 BCLL 0.0 BCDL 10.0	SPACING- 2-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-	TC 0.43 BC 0.59	DEFL. in (loc) l/defl L/ Vert(LL) -0.14 14 >999 24 Vert(CT) -0.29 12-14 >999 18 Horz(CT) 0.10 10 n/a n/a	0 MT20 197/144 0

BRACING-

TOP CHORD

BOT CHORD

Structural wood sheathing directly applied, except

2-0-0 oc purlins (3-7-6 max.): 5-7.

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, 10=0-3-8

Max Horz 2=-55(LC 6)

Max Uplift 2=-16(LC 8), 10=-16(LC 9) Max Grav 2=1472(LC 1), 10=1472(LC 1)

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

2-4=-2396/30, 4-5=-2238/29, 5-6=-2191/39, 6-7=-2191/39, 7-8=-2238/29, TOP CHORD

8-10=-2396/30

BOT CHORD 2-16=-24/2095, 14-16=-1/1843, 12-14=0/1843, 10-12=0/2095 WEBS 5-16=-1/347, 5-14=-48/591, 6-14=-468/88, 7-14=-48/591, 7-12=-2/347

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; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 10.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 7) 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.
- 8) 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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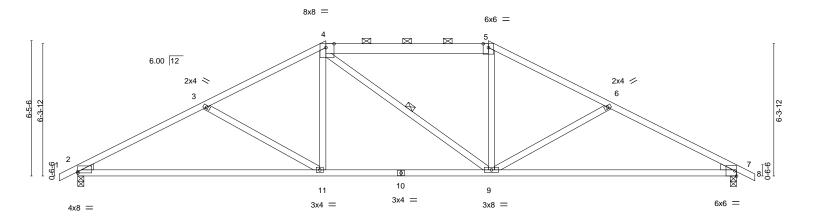


MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.



Job Truss Truss Type 106 MANOR AT STONEY CREEK 141030844 HIP 2319678 G04 Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inc. Mon Apr 20 09:12:41 2020 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, $ID:O6tYZO2CNJ4NCrTjAk8MhwzhFnV-CDztE7Pn46?BSXqztgRczQWXPth50DyLuSXgPZzOt_a$ 19-7-0 32-3-8 0-10-8 6-0-0 5-10-0 7-9-0 5-10-0 6-0-0

Scale = 1:54.9



H	6-0-0 6-0-0	11-10-0 5-10-0		19-7-0 7-9-0			5-5-0 -10-0	31-5-0 6-0-0	
Plate Offsets (X	Y) [2:0-0-0,0-0-12], [4:0	-4-10,Edge]							
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DO	L 1.15	TC 0.45	Vert(LL)	-0.36 11-14	>999	240	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.79	Vert(CT)	-0.73 11-14	>519	180		
BCLL 0.0	Rep Stress Inc	r YES	WB 0.31	Horz(CT)	0.09 7	n/a	n/a		
BCDL 10.0	Code IRC201	8/TPI2014	Matrix-AS					Weight: 123 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

WEBS

Structural wood sheathing directly applied, except

2-0-0 oc purlins (4-9-8 max.): 4-5.

Rigid ceiling directly applied.

1 Row at midpt

LUMBER-

WEBS

TOP CHORD 2x4 SPF No.2 *Except* 4-5: 2x6 SPF No.2

BOT CHORD 2x4 SPF 1650F 1.5E 2x4 SPF No.2

WEDGE

Left: 2x4 SP No.3, Right: 2x4 SP No.3

REACTIONS. (size) 2=0-3-8, 7=0-3-8 Max Horz 2=64(LC 7)

Max Uplift 2=-25(LC 8), 7=-25(LC 9)

Max Grav 2=1475(LC 1), 7=1475(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-3=-2476/65, 3-4=-2065/28, 4-5=-1769/48, 5-6=-2066/28, 6-7=-2476/65

BOT CHORD 2-11=-52/2130, 9-11=0/1768, 7-9=0/2130

3-11=-417/119, 4-11=0/466, 5-9=0/465, 6-9=-416/120 **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; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 7.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 7) 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.
- 8) 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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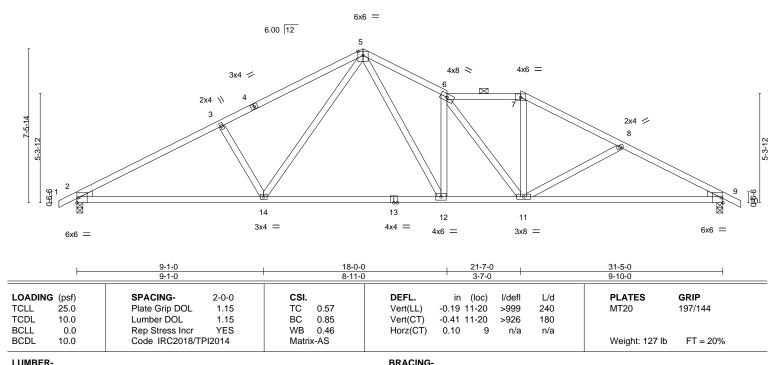


MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.



Job Truss Truss Type Qty 106 MANOR AT STONEY CREEK 141030845 2319678 G05 ROOF SPECIAL Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inc. Mon Apr 20 09:12:42 2020 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:O6tYZO2CNJ4NCrTjAk8MhwzhFnV-gPXFSTPQrQ714hP9RNyrVe2glH0NlcpV76HEx?zOt_Z -0-10-8 0-10-8 18-0-0 21-7-0 26-5-0 32-3-8 0-10-8 7-0-8 6-10-8 4-1-0 3-7-0 4-10-0 5-0-0

Scale = 1:56.0



TOP CHORD

BOT CHORD

Structural wood sheathing directly applied, except

2-0-0 oc purlins (4-1-13 max.): 6-7.

Rigid ceiling directly applied.

LUMBER-

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

WEBS WEDGE

Left: 2x4 SP No.3, Right: 2x4 SP No.3

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

Max Horz 2=75(LC 7)

Max Uplift 2=-34(LC 8), 9=-51(LC 9) Max Grav 2=1475(LC 1), 9=1475(LC 1)

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

2-3=-2488/67, 3-5=-2250/97, 5-6=-2446/133, 6-7=-1900/96, 7-8=-2206/85, TOP CHORD 8-9=-2523/114

BOT CHORD 2-14=-60/2128, 12-14=0/1533, 11-12=0/2156, 9-11=-47/2177 **WEBS**

3-14=-460/134, 5-14=-47/705, 5-12=-82/1240, 6-12=-960/117, 6-11=-433/25,

7-11=0/602, 8-11=-319/96

- 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; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 9.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 7) 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.
- 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



April 20,2020

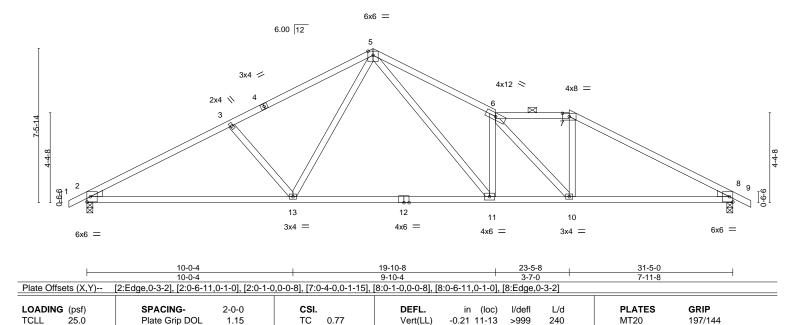


MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.



Job Truss Truss Type Qty 106 MANOR AT STONEY CREEK 141030846 2319678 G06 ROOF SPECIAL Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inc. Mon Apr 20 09:12:43 2020 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:O6tYZO2CNJ4NCrTjAk8MhwzhFnV-8b5dfpQ2cjFuir_M?5T42rbouhMeU5ReMm0nUSzOt_Y -0-10-8 0-10-8 19-10-8 23-5-8 32-3-8 0-10-8 7-0-8 6-10-8 5-11-8 3-7-0 7-11-8

Scale = 1:56.0



Vert(CT)

Horz(CT)

BRACING-

TOP CHORD

BOT CHORD

-0.49 11-13

8

0.08

>767

n/a

180

n/a

2-0-0 oc purlins (3-9-10 max.): 6-7.

Rigid ceiling directly applied.

Structural wood sheathing directly applied, except

LUMBER-

TCDL

BCLL

BCDL

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

WEBS 2x4 SPF No.2

10.0

0.0

10.0

WEDGE

Left: 2x4 SPF No.2, Right: 2x4 SPF No.2

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

Max Horz 2=-75(LC 6)

Max Uplift 2=-34(LC 8), 8=-51(LC 9) Max Grav 2=1475(LC 1), 8=1475(LC 1)

Lumber DOL

Rep Stress Incr

Code IRC2018/TPI2014

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-3=-2461/71, 3-5=-2165/78, 5-6=-2883/152, 6-7=-2063/110, 7-8=-2438/90

BOT CHORD 2-13=-63/2121, 11-13=0/1538, 10-11=0/2528, 8-10=0/2085

WEBS 3-13=-476/132, 5-13=-21/652, 5-11=-97/1515, 6-11=-1044/143, 6-10=-695/0,

7-10=0/629

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; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

1.15

YES

ВС

WB 0.37

Matrix-AS

0.84

- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 8.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 7) 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.
- 8) 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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FT = 20%

Weight: 119 lb

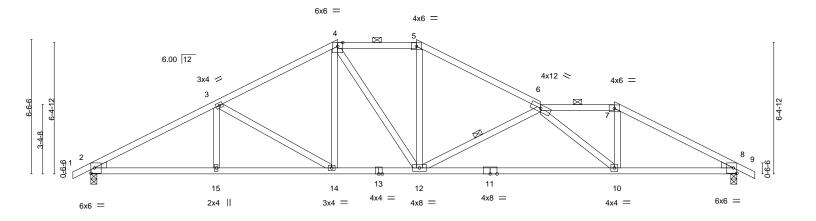


MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.



Job Truss Truss Type Qty 106 MANOR AT STONEY CREEK 141030847 2319678 G07 ROOF SPECIAL Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inc. Mon Apr 20 09:12:44 2020 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:O6tYZO2CNJ4NCrTjAk8MhwzhFnV-dof?t8RgN1OlJ?ZYYo_Jb38?p5hrDXcobQmL0uzOt_X 21-10-8 -0-10-8 0-10-8 15-10-0 25-5-8 32-3-8 0-10-8 6-1-3 5-10-13 3-10-0 6-0-8 3-7-0 5-11-8

Scale = 1:56.0



		0-1-3	12-0		13-10-0		21-10-0		23-3-6	31-3-0	
	'	6-1-3	5-10	-13	3-10-0	1	6-0-8		3-7-0	5-11-8	
Plate Offs	sets (X,Y)	[2:0-1-0,0-0-8], [2:0-6-11	,0-1-0], [2:Edge	9,0-3-2], [8:0-1-	0,0-0-8], [8:0-6-11,0)-1-0], [8:Ed	ge,0-3-2]				
LOADING	G (psf)	SPACING-	2-0-0	CSI.	DE	FL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC 0	.56 Ve	rt(LL) -0	.25 10-12	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC 0	.91 Ve	rt(CT) -0	.57 10-12	>662	180		
BCLL	0.0	Rep Stress Incr	YES	WB 0	.44 Ho	orz(CT) 0	.11 8	n/a	n/a		
BCDL	10.0	Code IRC2018/T	PI2014	Matrix-A	NS .					Weight: 127 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

WEBS

21_10_0

Structural wood sheathing directly applied, except

2-0-0 oc purlins (3-10-0 max.): 4-5, 6-7.

Rigid ceiling directly applied.

1 Row at midpt

15-10-0

LUMBER-

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

WEDGE

Left: 2x4 SPF No.2, Right: 2x4 SPF No.2

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

Max Horz 2=65(LC 7)

Max Uplift 2=-26(LC 8), 8=-44(LC 9) Max Grav 2=1475(LC 1), 8=1475(LC 1)

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

TOP CHORD 2-3=-2513/40, 3-4=-2020/46, 4-5=-1846/69, 5-6=-2172/49, 6-7=-2178/76, 7-8=-2562/59 **BOT CHORD** 2-15=-34/2171, 14-15=-34/2171, 12-14=0/1722, 10-12=-20/2987, 8-10=0/2217 WEBS

3-14=-535/89, 4-14=-15/336, 5-12=0/573, 6-12=-1277/126, 6-10=-1057/35, 7-10=0/827,

12.0.0

4-12=-35/386

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; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 8.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 7) 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.
- 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



April 20,2020



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 106 MANOR AT STONEY CREEK 141030848 2319678 G08 ROOF SPECIAL Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inc. Mon Apr 20 09:12:45 2020 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:O6tYZO2CNJ4NCrTjAk8MhwzhFnV-5_DO4USI8LWcx88k6WVY7Gg98U3Sy?Axp4VuYKzOt_W 17-10-0 23-10-8 27-5-8 32-3-8 0-10-8

6-0-8

3-7-0

Structural wood sheathing directly applied, except

2-0-0 oc purlins (3-7-14 max.): 4-5, 6-10, 6-7.

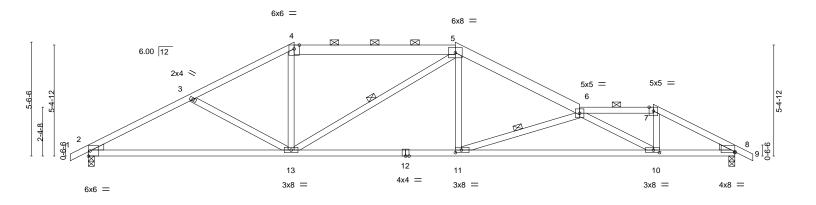
Rigid ceiling directly applied.

1 Row at midpt

7-10-0

Scale = 1:56.0

3-11-8



		10-0-0	17-10)-()	23-10-8	27-5-8	31-5-0
	ı	10-0-0	7-10	-0	6-0-8	3-7-0	3-11-8
Plate Offse	ets (X,Y)	[8:Edge,0-0-8], [10:0-3-8,0-1-8], [11:0-3-	8,0-1-8]				
			-				
LOADING	(psf)	SPACING- 2-0-0	CSI.	DEFL.	in (loc) I/defl L/d	PLATES	GRIP GRIP
TCLL	25.0	Plate Grip DOL 1.15	TC 0.59	Vert(LL)	-0.23 10-11 >999 240	MT20	197/144
TCDL	10.0	Lumber DOL 1.15	BC 0.82	Vert(CT)	-0.54 10-11 >700 180		
BCLL	0.0	Rep Stress Incr YES	WB 0.36	Horz(CT)	0.13 8 n/a n/a		
BCDL	10.0	Code IRC2018/TPI2014	Matrix-AS			Weight:	130 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

WEBS

LUMBER-

TOP CHORD 2x4 SPF No.2 *Except*

4-5,5-6: 2x6 SPF No.2

BOT CHORD 2x4 SPF No.2 *Except*

8-12: 2x4 SPF 1650F 1.5E

WEBS 2x4 SPF No.2

WEDGE

Left: 2x4 SP No.3, Right: 2x4 SP No.3

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

Max Horz 2=-55(LC 6)

Max Uplift 2=-15(LC 8), 8=-36(LC 9)

Max Grav 2=1475(LC 1), 8=1475(LC 1)

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

TOP CHORD 2-3=-2518/40, 3-4=-2209/7, 4-5=-1916/27, 5-6=-2563/23, 6-10=-1831/48, 6-7=-2213/51,

4-11-C

7-8=-2612/37

BOT CHORD 2-13=-31/2170, 11-13=0/2229, 10-11=-33/3817, 8-10=0/2275

WEBS 3-13=-297/102, 4-13=0/525, 5-13=-529/50, 5-11=0/743, 6-11=-1661/128, 7-10=0/941

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; Cat. II; Exp C; Enclosed: MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 8.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 7) 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.
- 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



April 20,2020



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 106 MANOR AT STONEY CREEK 141030849 2319678 G09 ROOF SPECIAL Job Reference (optional) Builders FirstSource (Valley Center), Valley Center, KS - 67147, 8.240 s Mar 9 2020 MiTek Industries, Inc. Mon Apr 20 09:12:47 2020 Page 1 ID:O6tYZO2CNJ4NCrTjAk8MhwzhFnV-1NK8VATYgymKASH7ExY0ChmSSllpQooEHO_?dDzOt_U 31-5-0 32-3-8 1-11-8 0-10-8 29-5-8 19-10-0 25-10-8

5-11-0

6-0-8

Structural wood sheathing directly applied, except

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

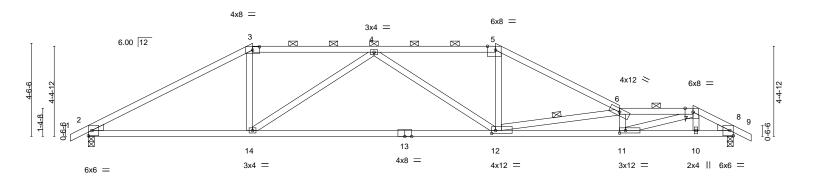
Rigid ceiling directly applied.

1 Row at midpt

5-11-0

Scale = 1:56.1

3-7-0



	<u> </u>	8-0-0 8-0-0		13-11-0 5-11-0		19-10-0 5-11-0	-		<u>25-10-8</u> 6-0-8	29-5-8 3-7-0	31-5-0 1-11-8
Plate Offsets (X,Y)		. 0, 1, .	-1-0,0-0-8], [3:0	-4-0,0-1-15]	5-11,0-1-0], [8:0-1-0,0-0-8],						
		[11:0-3-8,0-1-8], [12:0-2-	4,0-1-12]							_	
LOADING	(psf)	SPACING-	2-0-0	CSI.		DEFL.	in (loc)	I/defI	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.80	Vert(LL)	-0.45 12-14	>839	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.77	Vert(CT)	-0.99 12-14	>382	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.80	Horz(CT)	0.10 8	n/a	n/a		
BCDL	10.0	Code IRC2018/T	PI2014	Matri	k-AS					Weight: 121 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

WEBS

LUMBER-

TOP CHORD 2x4 SPF No.2

BOT CHORD 2x4 SPF 1650F 1.5E *Except*

8-13: 2x4 SP 2400F 2.0E 2x4 SPF No.2

WEBS

WEDGE

Left: 2x4 SPF No.2, Right: 2x4 SPF No.2

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

Max Horz 2=-45(LC 6)

Max Uplift 2=-3(LC 8), 8=-26(LC 9) Max Grav 2=1475(LC 1), 8=1475(LC 1)

8-0-0

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

TOP CHORD 2-3=-2475/26, 3-4=-2098/41, 4-5=-2588/30, 5-6=-2956/18, 6-7=-5365/63, 7-8=-2568/27

BOT CHORD 2-14=0/2117, 12-14=-35/2677, 11-12=-35/5500, 10-11=-1/2313, 8-10=0/2303 3-14=0/655, 4-14=-838/107, 4-12=-320/113, 5-12=0/870, 6-12=-2963/139, WFBS

6-11=-1059/35, 7-11=-32/3213

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; Cat. II; Exp C; Enclosed: MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 8.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 7) 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.
- 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



April 20,2020

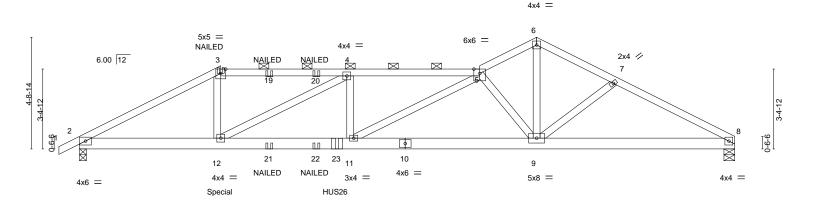


M WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.



Job Truss Truss Type Qty 106 MANOR AT STONEY CREEK 141030850 2319678 G10 Roof Special Girder Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inc. Mon Apr 20 09:12:48 2020 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:O6tYZO2CNJ4NCrTjAk8MhwzhFnV-VZuWiWUAQGuBocsJne3FlvlfDi459M?NV2kY9fzOt_T -0-10-8 0-10-8 17-0-0 22-8-1 6-0-0 5-6-0 5-6-0 2-5-0 3-3-1 5-1-15

Scale = 1:48.9



	6-0-0 6-0-0		1-6-0 i-6-0	17-0-0 5-6-0	19-5-0 2-5-0	-	27-10-0 8-5-0	
LOADING (psf) TCLL 25.0 TCDL 10.0 BCLL 0.0 BCDL 10.0	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr Code IRC2018/TP	2-0-0 1.15 1.15 NO I2014	CSI. TC 0.67 BC 0.83 WB 0.35 Matrix-MS	- ' '	-0.17 11-12 >	'defl L/d 999 240 999 180 n/a n/a	PLATES MT20 Weight: 237 lb	GRIP 197/144 FT = 20%

LUMBER-BRACING-

TOP CHORD 2x4 SPF No.2 TOP CHORD Structural wood sheathing directly applied or 5-3-0 oc purlins, except

2x6 SPF No.2 **BOT CHORD** 2-0-0 oc purlins (4-6-3 max.): 3-5. **WEBS** 2x4 SPF No.2 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing

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

Max Horz 2=49(LC 26) Max Uplift 8=-70(LC 9), 2=-194(LC 8)

Max Grav 8=1895(LC 1), 2=2638(LC 1)

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

TOP CHORD 2-3=-5136/391, 3-4=-4455/369, 4-5=-6433/459, 5-6=-3361/194, 6-7=-3339/197,

7-8=-3586/190

BOT CHORD $2\hbox{-}12\hbox{-}-336/4532,\ 11\hbox{-}12\hbox{-}-424/6431,\ 9\hbox{-}11\hbox{-}-278/4943,\ 8\hbox{-}9\hbox{-}-134/3134$

WFBS 3-12=-35/1700, 4-12=-2245/126, 4-11=0/434, 5-11=-179/1831, 5-9=-3239/264,

6-9=-148/2810, 7-9=-264/106

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: 2x6 - 2 rows staggered at 0-7-0 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; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 8 except (jt=lb) 2=194. 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. 10) Use Simpson Strong-Tie HUS26 (14-10d Girder, 4-10d Truss) or equivalent at 10-11-4 from the left end to connect truss(es) to front face of bottom chord.
- 11) Fill all nail holes where hanger is in contact with lumber.
- 12) "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidlines.
- 13) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 468 lb down and 70 lb up at 6-0-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

SONAL STONAL

April 20,2020

OF MISS

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SEVIER

PE-2001018807

Continued on page 2

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	106 MANOR AT STONEY CREEK	
2319678	G10	Roof Special Girder	1	2	Idh Reference (optional)	.0

Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

8.240 s Mar 9 2020 MiTek Industries, Inc. Mon Apr 20 09:12:48 2020 Page 2 ID:O6tYZO2CNJ4NCrTjAk8MhwzhFnV-VZuWiWUAQGuBocsJne3FlvIfDi459M?NV2kY9fzOt_T

LOAD CASE(S) Standard

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

Vert: 1-3=-70, 3-5=-70, 5-6=-70, 6-8=-70, 13-16=-20

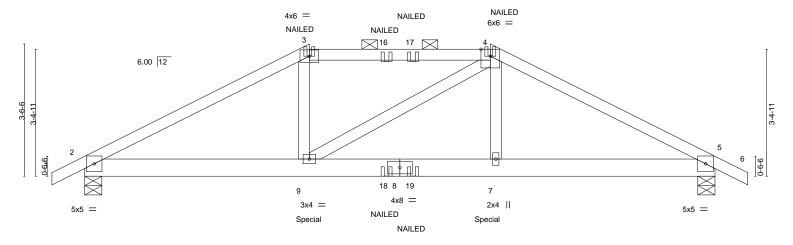
Concentrated Loads (lb)

Vert: 3=-118(F) 12=-468(F) 19=-118(F) 20=-118(F) 21=-55(F) 22=-55(F) 23=-1036(F)



Job Truss Truss Type 106 MANOR AT STONEY CREEK 141030851 2319678 H01 HIP GIRDER Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inc. Mon Apr 20 09:12:49 2020 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:O6tYZO2CNJ4NCrTjAk8MhwzhFnV-zlSuwsVpBZ02QmRWLLaUl6rnX6SDuslXkiT6h5zOt_S 0-10-8 17-8-8 10-10-0 13-9-0 16-10-0 3-1-0 2-11-0 4-10-0 2-11-0 3-1-0 0-10-8

Scale = 1:30.8



	6-0-0 6-0-0	10-10-0 4-10-0			6-10-0 6-0-0	
LOADING (psf) TCLL 25.0 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. DEFL TC 0.89 Vert(L BC 0.64 Vert(C WB 0.16 Horz(Matrix-MS	L) -0.08 7-9 CT) -0.15 7-9	9 >999 240		GRIP 197/144 FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-TOP CHORD

2x4 SPF No.2 *Except*

3-4: 2x4 SPF 1650F 1.5E

BOT CHORD 2x6 SPF No.2 **WEBS** 2x4 SPF No.2

REACTIONS.

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

Max Horz 2=34(LC 7)

Max Uplift 2=-127(LC 8), 5=-127(LC 9) Max Grav 2=1578(LC 1), 5=1578(LC 1)

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

TOP CHORD 2-3=-2840/248, 3-4=-2443/244, 4-5=-2841/249 **BOT CHORD** 2-9=-191/2473, 7-9=-167/2445, 5-7=-166/2474

WFBS 3-9=0/637, 4-7=0/635

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; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=127, 5=127,
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 7) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 8) "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidlines.
- 9) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 468 lb down and 70 lb up at 6-0-0, and 468 lb down and 70 lb up at 10-9-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others
- 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 + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

Vert: 1-3=-70, 3-4=-70, 4-6=-70, 10-13=-20

Concentrated Loads (lb)

Vert: 3=-118(F) 9=-468(F) 4=-118(F) 7=-468(F) 16=-118(F) 17=-118(F) 18=-55(F) 19=-55(F)



Structural wood sheathing directly applied or 3-1-0 oc purlins, except

2-0-0 oc purlins (2-11-10 max.): 3-4.

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

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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 106 MANOR AT STONEY CREEK 141030852 2319678 H02 Hip Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inc. Mon Apr 20 09:12:50 2020 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:O6tYZO2CNJ4NCrTjAk8MhwzhFnV-Ry0G7CWRyt8v1w0iv35jqKO7EVsGdKYgzMDfEYzOt_R -0-10-8 0-10-8 12-1-11 16-10-0

8-10-0

3-3-11

4-8-5

Structural wood sheathing directly applied, except

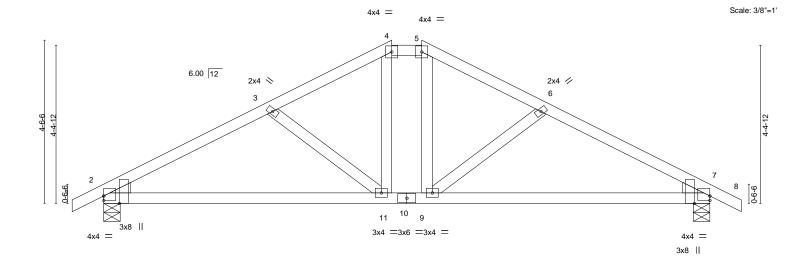
2-0-0 oc purlins (6-0-0 max.): 4-5.

Rigid ceiling directly applied.

0-10-8

0-10-0

3-3-11



	\vdash		8-0-0			0-10-0				8-0-0		
Plate Off	sets (X,Y)	[2:0-0-0,0-1-8], [2:0-2-8,E		e,0-1-8], [7:0-2	-8,Edge]	0.100						
LOADING	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15		0.18	Vert(LL)	-0.06	9-17	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.40	Vert(CT)	-0.13	9-17	>999	180		
BCLL	0.0	Rep Stress Incr	YES		0.09	Horz(CT)	0.02	7	n/a	n/a		
BCDL	10.0	Code IRC2018/TF	PI2014	Matrix	-AS						Weight: 62 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

WEDGE

Left: 2x4 SPF No.2, Right: 2x4 SPF No.2

REACTIONS. (size) 2=0-5-8, 7=0-5-8

Max Horz 2=-45(LC 6)

Max Uplift 2=-24(LC 8), 7=-24(LC 9) Max Grav 2=819(LC 1), 7=819(LC 1)

4-8-5

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-3=-1178/47, 3-4=-938/33, 4-5=-784/37, 5-6=-938/33, 6-7=-1178/47

BOT CHORD 2-11=-31/1006, 9-11=0/784, 7-9=0/1006

WEBS 6-9=-303/77, 3-11=-303/77

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; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 7.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 7) 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.
- 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

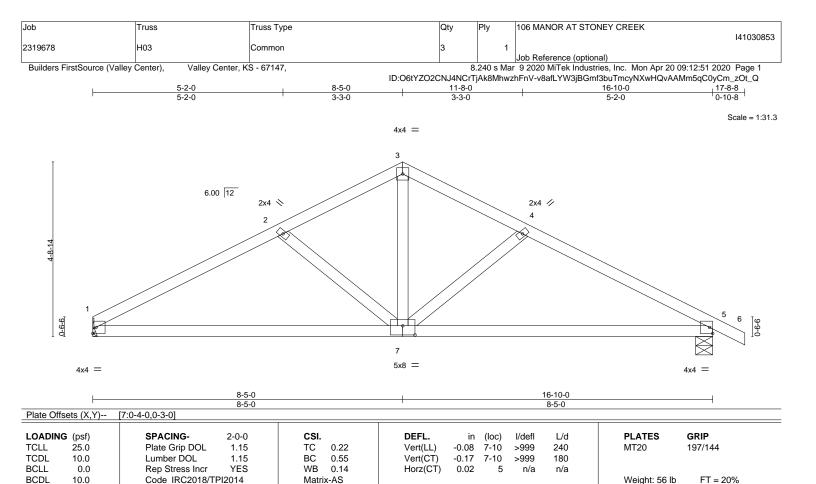


April 20,2020



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

Structural wood sheathing directly applied.

Rigid ceiling directly applied.

LUMBER-

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

WEBS 2x4 SPF No.2

REACTIONS. (size) 1=Mechanical, 5=0-5-8

Max Horz 1=-49(LC 4)

Max Uplift 1=-18(LC 8), 5=-25(LC 9) Max Grav 1=756(LC 1), 5=820(LC 1)

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

1-2=-1181/49, 2-3=-903/37, 3-4=-902/38, 4-5=-1178/49 TOP CHORD

BOT CHORD 1-7=-33/989, 5-7=0/984

3-7=0/557, 4-7=-318/84, 2-7=-324/85 WFBS

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; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 5.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 7) 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.

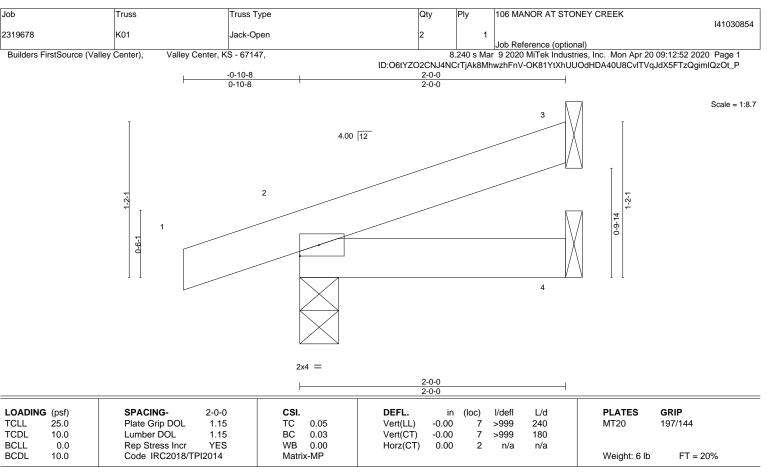


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LUMBER-

REACTIONS.

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

(size)

BRACING-TOP CHORD

BOT CHORD

3=Mechanical, 2=0-3-8, 4=Mechanical Max Horz 2=28(LC 4)

Max Uplift 3=-12(LC 8), 2=-28(LC 4)

Max Grav 3=54(LC 1), 2=164(LC 1), 4=35(LC 3)

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; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) Refer to girder(s) for truss to truss connections.
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 2.
- 5) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



Structural wood sheathing directly applied or 2-0-0 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 106 MANOR AT STONEY CREEK 141030855 2319678 K03 Jack-Open Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inc. Mon Apr 20 09:12:53 2020 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:O6tYZO2CNJ4NCrTjAk8MhwzhFnV-sXiPmDYJFoWUuNlHaBfRSy?gYjzyqij7fKRJqtzOt_O 1-11-4 -0-10-8 0-10-8 1-11-4 Scale = 1:11.1 6.00 12 0-8-1 3x4 = 1-11-4

DEFL.

Vert(LL)

Vert(CT)

Horz(CT)

BRACING-TOP CHORD

BOT CHORD

L/d

240

180

n/a

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

(loc)

3

-0.00

-0.00

-0.00

I/defI

>999

>999

n/a

PLATES

Weight: 7 lb

MT20

Structural wood sheathing directly applied or 1-11-4 oc purlins.

GRIP

197/144

FT = 20%

LUMBER-

REACTIONS.

TCLL

TCDL

BCLL

BCDL

LOADING (psf)

TOP CHORD 2x4 SPF No.2

25.0

10.0

0.0

10.0

2x6 SPF No.2 BOT CHORD

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

Code IRC2018/TPI2014

Max Horz 2=33(LC 8)

Max Uplift 3=-14(LC 8), 2=-4(LC 8)

SPACING-

Plate Grip DOL

Rep Stress Incr

Lumber DOL

Max Grav 3=48(LC 1), 2=162(LC 1), 4=38(LC 3)

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; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60

CSI.

TC

ВС

WB

Matrix-MP

0.05

0.01

0.00

2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

2-0-0

1.15

1.15

YES

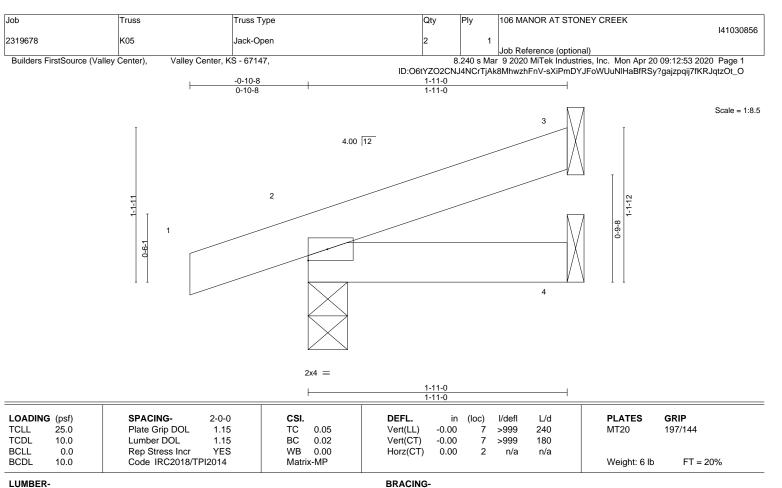
- 3) Refer to girder(s) for truss to truss connections.
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 2.
- 5) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.





MARNING - 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-

REACTIONS.

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

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

Max Horz 2=27(LC 4) Max Uplift 3=-12(LC 8), 2=-28(LC 4)

Max Grav 3=51(LC 1), 2=161(LC 1), 4=33(LC 3)

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; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) Refer to girder(s) for truss to truss connections.
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 2.
- 5) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



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

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

April 20,2020



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 106 MANOR AT STONEY CREEK 141030857 2319678 K06 Jack-Open Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inc. Mon Apr 20 09:12:54 2020 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147,

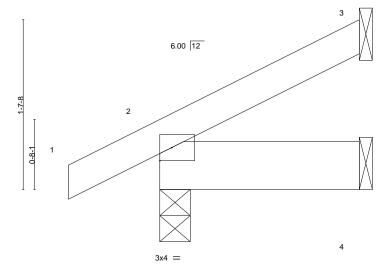
ID:O6tYZO2CNJ4NCrTjAk8MhwzhFnV-KjGnzZZx06eKWXKT8vAg?AYrH7JCZ9zGu_BsNJzOt_N

Structural wood sheathing directly applied or 1-10-15 oc purlins.

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

1-10-15 0-10-8 1-10-15

Scale = 1:11.0



1-10-15 1-10-15

> BRACING-TOP CHORD

BOT CHORD

LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d	PLATES GRIP
TCLL 25.0	Plate Grip DOL 1.15	TC 0.05	Vert(LL) -0.00 7 >999 240	MT20 197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.01	Vert(CT) -0.00 7 >999 180	
BCLL 0.0	Rep Stress Incr YES	WB 0.00	Horz(CT) -0.00 3 n/a n/a	
BCDL 10.0	Code IRC2018/TPI2014	Matrix-MP		Weight: 7 lb FT = 20%

LUMBER-

REACTIONS.

TOP CHORD 2x4 SPF No.2

2x6 SPF No.2 BOT CHORD

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

Max Horz 2=33(LC 8)

Max Uplift 3=-14(LC 8), 2=-4(LC 8)

Max Grav 3=48(LC 1), 2=161(LC 1), 4=37(LC 3)

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; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) Refer to girder(s) for truss to truss connections.
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 2.
- 5) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.







Job Truss Truss Type Qty 106 MANOR AT STONEY CREEK 141030858 2319678 K07 Jack-Open Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inc. Mon Apr 20 09:12:55 2020 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:O6tYZO2CNJ4NCrTjAk8MhwzhFnV-ovp9AvZZnPmB8hvfichvXN5?5WdmlcDP6ewQvlzOt_M 2-3-8 2-3-8 3-10-15 0-10-8 1-7-7 Scale: 3/4"=1" 6.00 12 6x6 = 3 5 0-0-0-8-1 2x4 || 3x4 = 3-10-15 Plate Offsets (X,Y)--[3:0-1-12,0-0-14], [3:0-2-4,0-3-7], [6:0-0-0,0-1-12] LOADING (psf) SPACING-DEFL. **PLATES** GRIP (loc) I/defI L/d 25.0 Plate Grip DOL **TCLL** 1.15 TC 0.11 Vert(LL) -0.01 6 >999 240 MT20 197/144 **TCDL** 10.0 Lumber DOL 1.15 BC 0.18 Vert(CT) -0.026 >999 180 **BCLL** 0.0 Rep Stress Incr YES WB 0.00 Horz(CT) 0.01 5 n/a n/a Code IRC2018/TPI2014 FT = 20% BCDL 10.0 Matrix-MR Weight: 13 lb

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

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

2-7: 2x6 SPF No.2

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

Max Horz 2=58(LC 8)

Max Uplift 4=-21(LC 8), 2=-2(LC 8), 5=-4(LC 8) Max Grav 4=92(LC 1), 2=241(LC 1), 5=74(LC 1)

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; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) Refer to girder(s) for truss to truss connections.
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 2, 5.
- 5) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



Structural wood sheathing directly applied or 3-10-15 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.

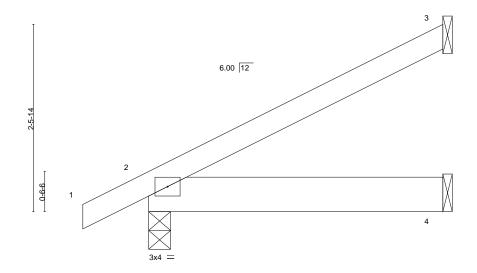


Job Truss Truss Type Qty 106 MANOR AT STONEY CREEK 141030859 2319678 K08 Jack-Open 12 Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inc. Mon Apr 20 09:12:55 2020 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:O6tYZO2CNJ4NCrTjAk8MhwzhFnV-ovp9AvZZnPmB8hvfichvXN5_ZWe2lcDP6ewQvlzOt_M

3-10-15

3-10-15

Scale = 1:15.3



3-10-15 LOADING (psf) SPACING-2-0-0 CSI. DEFL. L/d **PLATES** GRIP (loc) I/defI TCLL 25.0 Plate Grip DOL 1.15 Vert(LL) -0.00 >999 240 MT20 197/144 TC 0.15 **TCDL** 10.0 Lumber DOL 1.15 ВС 0.10 Vert(CT) -0.01 4-7 >999 180 **BCLL** 0.0 Rep Stress Incr YES WB 0.00 Horz(CT) 0.00 2 n/a n/a Code IRC2018/TPI2014 BCDL 10.0 Matrix-MP Weight: 13 lb FT = 20%

3-10-15

BRACING-TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

TOP CHORD 2x4 SPF No.2

2x6 SPF No.2 BOT CHORD

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

Max Horz 2=58(LC 8)

Max Uplift 3=-27(LC 8), 2=-4(LC 8)

Max Grav 3=99(LC 1), 2=241(LC 1), 4=81(LC 3)

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; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) Refer to girder(s) for truss to truss connections.
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 2.

0-10-8

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



Structural wood sheathing directly applied or 3-10-15 oc purlins.

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



Job Truss Truss Type Qty 106 MANOR AT STONEY CREEK 141030860 2319678 K09 JACK-OPEN 12 Job Reference (optional) Builders FirstSource (Valley Center), Valley Center, KS - 67147, 8.240 s Mar 9 2020 MiTek Industries, Inc. Mon Apr 20 09:12:56 2020 Page 1

ID:O6tYZO2CNJ4NCrTjAk8MhwzhFnV-G5NYOFaCYju2lrTsFJC84bd8Wwz413TZLlgzRBzOt_L

Structural wood sheathing directly applied or 1-10-15 oc purlins.

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

1-10-15 -0-10-8 0-10-8 1-10-15

Scale = 1:10.3

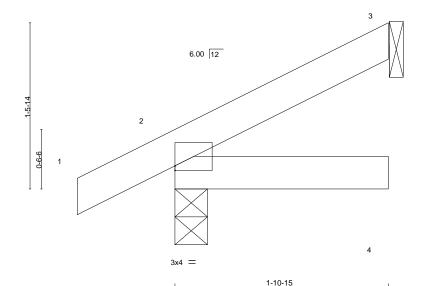


Plate Offsets (X,Y)--[2:Edge,0-0-8] SPACING-DEFL. **PLATES** GRIP LOADING (psf) 2-0-0 (loc) I/defI L/d Plate Grip DOL **TCLL** 25.0 1.15 TC 0.20 Vert(LL) -0.00 4-7 >999 240 MT20 197/144 **TCDL** 10.0 Lumber DOL 1.15 BC 0.18 Vert(CT) -0.01 4-7 >999 180 **BCLL** 0.0 Rep Stress Incr YES WB 0.00 Horz(CT) 0.00 2 n/a n/a Code IRC2018/TPI2014 Matrix-MP BCDL 10.0 Weight: 6 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

1-10-15

LUMBER-

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

REACTIONS.

2=0-3-8, 4=Mechanical (size) Max Horz 2=33(LC 5) Max Uplift 2=-2(LC 8), 4=-20(LC 5) Max Grav 2=153(LC 1), 4=72(LC 1)

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

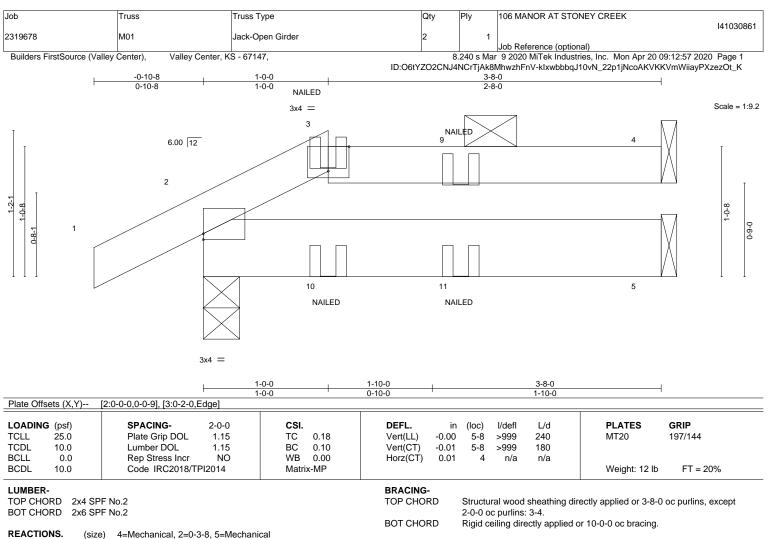
NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) Refer to girder(s) for truss to truss connections.
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 4.
- 5) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



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(size) 4=Mechanical, 2=0-3-8, 5=Mechanical Max Horz 2=19(LC 35)

Max Uplift 4=-18(LC 4), 2=-7(LC 8)

Max Grav 4=91(LC 1), 2=232(LC 1), 5=81(LC 3)

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; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 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.
- 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 9) "NAILED" indicates 3-10d (0.148"x3") or 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 + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

Vert: 1-3=-70, 3-4=-70, 5-6=-20

Concentrated Loads (lb) Vert: 11=-4(F)

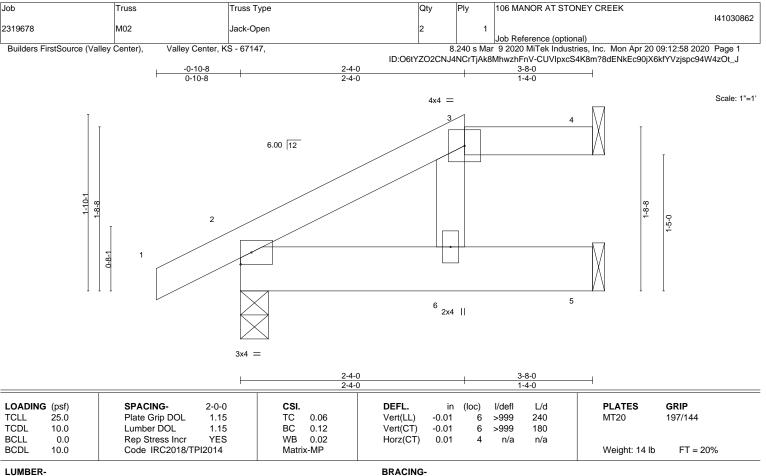


April 20,2020



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





2x4 SPF No.2 2x6 SPF No.2

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

TOP CHORD Structural wood sheathing directly applied or 3-8-0 oc purlins, except

2-0-0 oc purlins: 3-4.

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

REACTIONS.

4=Mechanical, 2=0-3-8, 5=Mechanical (size) Max Horz 2=36(LC 8) Max Uplift 4=-9(LC 4), 2=-9(LC 8), 5=-2(LC 8) Max Grav 4=44(LC 1), 2=231(LC 1), 5=110(LC 1)

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

NOTES-

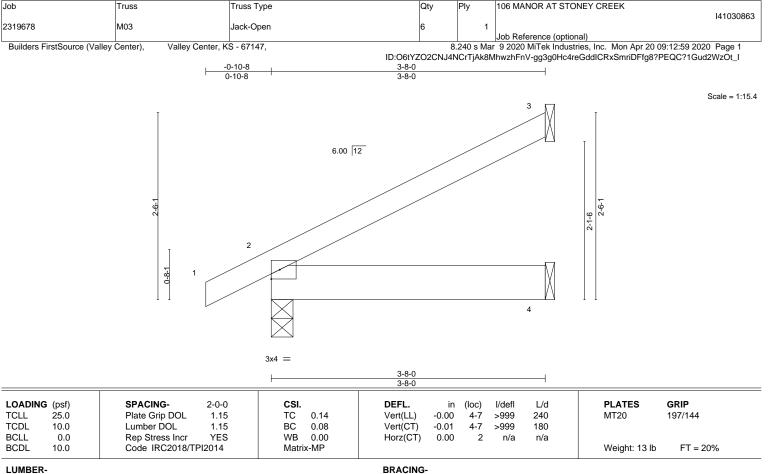
- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 2, 5.
- 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) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.





MARNING - 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-

REACTIONS.

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

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

Max Horz 2=55(LC 8)

Max Uplift 3=-27(LC 8), 2=-2(LC 8) Max Grav 3=98(LC 1), 2=231(LC 1), 4=75(LC 3)

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; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) Refer to girder(s) for truss to truss connections.
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 2.
- 5) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



Structural wood sheathing directly applied or 3-8-0 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 106 MANOR AT STONEY CREEK 141030864 2319678 M04 Monopitch Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inc. Mon Apr 20 09:12:59 2020 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:O6tYZO2CNJ4NCrTjAk8MhwzhFnV-gg3g0Hc4reGddlCRxSmriDFcd8z2EQC?1Gud2WzOt_I 5-1-8 5-1-8 -0-10-8 0-10-8

> 2x4 || 3 4.00 12 0-6-1 2x4 || 3x4 =

LOADING (psf) SPACING-2-0-0 CSI. DEFL. L/d **PLATES** GRIP (loc) I/defl 25.0 Plate Grip DOL 1.15 Vert(LL) -0.03 >999 240 197/144 TCLL TC 0.33 MT20 **TCDL** 10.0 Lumber DOL 1.15 ВС 0.23 Vert(CT) -0.06 4-7 >976 180 **BCLL** 0.0 Rep Stress Incr YES WB 0.00 Horz(CT) 0.01 2 n/a n/a Code IRC2018/TPI2014 BCDL 10.0 Matrix-AS Weight: 15 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

REACTIONS.

4=Mechanical, 2=0-3-8 (size) Max Horz 2=58(LC 7) Max Uplift 4=-16(LC 8), 2=-34(LC 4) Max Grav 4=219(LC 1), 2=291(LC 1)

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; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) Refer to girder(s) for truss to truss connections.
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 2.
- 5) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 6) 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.

Scale = 1:14.9





Job Truss Truss Type Qty 106 MANOR AT STONEY CREEK 141030865 2319678 M05 Half Hip Girder Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inc. Mon Apr 20 09:13:00 2020 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:O6tYZO2CNJ4NCrTjAk8MhwzhFnV-9td2EddicyPUESndU9H4ERopjXEfzs68GweBazzOt_H 0-10-8 3-4-14 1-8-10 Scale = 1:13.7 4x4 =NAILED Special 3 4.00 12 2 0-6-1 ⁶ 2x4 || 5 2x4 || NAILED 3-4-14 1-8-10 LOADING (psf) SPACING-2-0-0 CSI. DEFL. L/d **PLATES** GRIP (loc) I/defl Plate Grip DOL Vert(LL) -0.06 240 197/144 **TCLL** 25.0 1.15 TC 0.25 6-9 >999 MT20 **TCDL** 10.0 Lumber DOL 1.15 ВС 0.52 Vert(CT) -0.11 >566 180 6-9 **BCLL** 0.0 Rep Stress Incr NO WB 0.02 Horz(CT) 0.01 2 n/a n/a BCDL 10.0 Code IRC2018/TPI2014 Matrix-MP Weight: 15 lb FT = 20% LUMBER-BRACING-Structural wood sheathing directly applied or 5-1-8 oc purlins, TOP CHORD 2x4 SPF No.2 TOP CHORD BOT CHORD except end verticals, and 2-0-0 oc purlins: 3-4.

BOT CHORD

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

REACTIONS.

2x4 SPF No.2

WEBS 2x4 SPF No.2

> (size) 5=Mechanical, 2=0-3-8 Max Horz 2=43(LC 7) Max Uplift 5=-15(LC 4), 2=-35(LC 4) Max Grav 5=252(LC 1), 2=293(LC 1)

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; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 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.
- 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 9) "NAILED" indicates 3-10d (0.148"x3") or 3-12d (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) 94 lb down and 47 lb up at 3-4-14 on top chord, and 37 lb down at 3-4-14 on bottom 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 + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

Vert: 1-3=-70, 3-4=-70, 5-7=-20 Concentrated Loads (lb)

Vert: 4=-13(F) 5=-14(F) 6=-9(F)

OF MISS SCOTT M. SEVIER PE-2001018807 SSIONAL

April 20,2020



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 106 MANOR AT STONEY CREEK 141030866 2319678 M06 Half Hip Girder Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inc. Mon Apr 20 09:13:01 2020 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:O6tYZO2CNJ4NCrTjAk8MhwzhFnV-d3BRRyeKNFXLscMp2toJneLzzxXpiJJIVZNk6PzOt_G 5-8-0 0-10-8 3-4-14 Scale = 1:14.2 4x4 = NAII FD Special 4.00 12 5 6_{2x4} || Special 2x4 || NAILED 5-8-0 3-4-14 Plate Offsets (X,Y)--[2:0-0-0,0-0-11] SPACING-L/d **PLATES** GRIP LOADING (psf) 2-0-0 CSI. DEFL. (loc) I/defl **TCLL** 25.0 Plate Grip DOL 1.15 TC 0.28 Vert(LL) -0.09 6-9 >703 240 MT20 197/144 TCDL 10.0 Lumber DOL 1.15 ВС 0.72 Vert(CT) -0.18 6-9 >376 180 **BCLL** 0.0 Rep Stress Incr NO WB 0.03 Horz(CT) 0.02 n/a n/a Code IRC2018/TPI2014 FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

BCDL

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

10.0

WEBS 2x4 SPF No.2

REACTIONS. (size) 5=Mechanical, 2=0-3-8 Max Horz 2=43(LC 7)

Max Uplift 5=-16(LC 4), 2=-37(LC 4) Max Grav 5=270(LC 1), 2=318(LC 1)

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; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60

Matrix-MP

- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 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.
- 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 9) "NAILED" indicates 3-10d (0.148"x3") or 3-12d (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) 96 lb down and 47 lb up at 3-4-14 on top chord, and 36 lb down at 3-4-14 on bottom chord. The design/selection of such connection device(s) is the
- 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 + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

Vert: 1-3=-70, 3-4=-70, 5-7=-20 Concentrated Loads (lb)

Vert: 4=-8(F) 5=-13(F) 6=-9(F)



Weight: 17 lb

Structural wood sheathing directly applied or 5-8-0 oc purlins,

except end verticals, and 2-0-0 oc purlins: 3-4.

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

April 20,2020

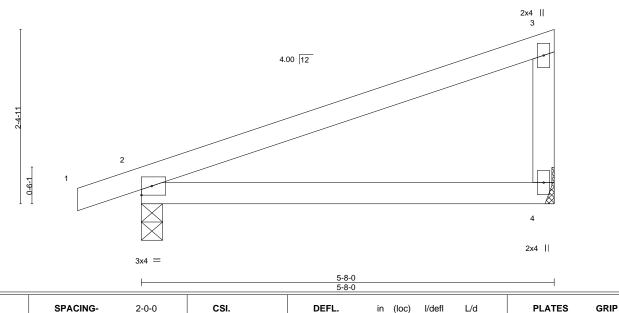


M WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.



Job Truss Truss Type Qty 106 MANOR AT STONEY CREEK 141030867 2319678 M07 Monopitch Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inc. Mon Apr 20 09:13:02 2020 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:O6tYZO2CNJ4NCrTjAk8MhwzhFnV-5Fkpelfy7ZfCUmx?caJYJst6ZL_tRmyRjD7lfrzOt_F 5-8-0 0-10-8 5-8-0

Scale = 1:15.8



BRACING-

TOP CHORD

BOT CHORD

LOADING (psf) SPACING-2-0-0 CSI. DEFL. L/d **PLATES** (loc) I/defl 25.0 Plate Grip DOL Vert(LL) -0.04 >999 240 TCLL 1.15 TC 0.42 MT20 **TCDL** 10.0 Lumber DOL 1.15 ВС 0.28 Vert(CT) -0.09 4-7 >718 180 **BCLL** 0.0 Rep Stress Incr YES WB 0.00 Horz(CT) 0.01 2 n/a n/a Code IRC2018/TPI2014 BCDL 10.0 Matrix-AS Weight: 16 lb

FT = 20%

Structural wood sheathing directly applied, except end verticals.

Rigid ceiling directly applied.

197/144

LUMBER-

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

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

Max Horz 2=64(LC 7)

Max Uplift 4=-18(LC 8), 2=-35(LC 4) Max Grav 4=244(LC 1), 2=315(LC 1)

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

NOTES-

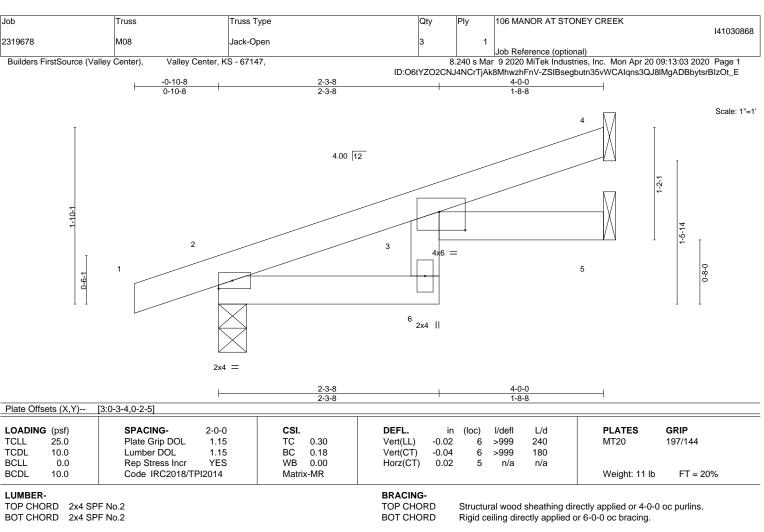
- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) Refer to girder(s) for truss to truss connections.
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 2.
- 5) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 6) 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.





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





REACTIONS.

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

Max Horz 2=44(LC 4)

Max Uplift 4=-17(LC 8), 2=-27(LC 4)

Max Grav 4=102(LC 1), 2=246(LC 1), 5=69(LC 1)

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

NOTES-

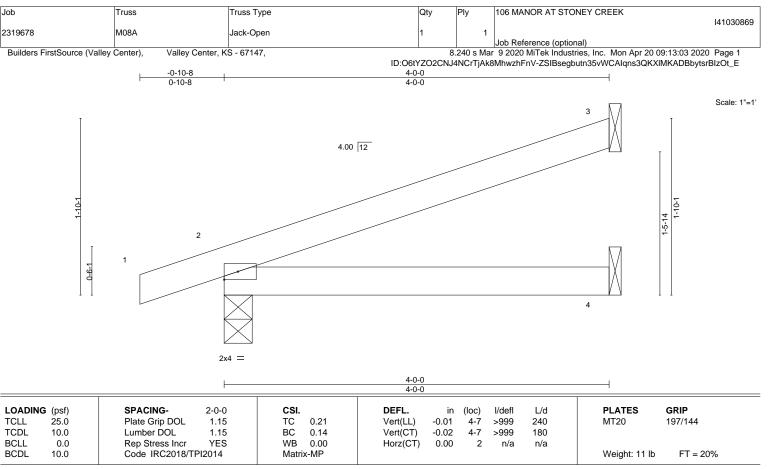
- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) Refer to girder(s) for truss to truss connections.
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 2.
- 5) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.





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





LUMBER-

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

BRACING-

TOP CHORD BOT CHORD

Structural wood sheathing directly applied or 4-0-0 oc purlins. Rigid ceiling directly applied or 10-0-0 oc bracing

REACTIONS.

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

Max Horz 2=44(LC 4)

Max Uplift 3=-25(LC 8), 2=-28(LC 4)

Max Grav 3=119(LC 1), 2=245(LC 1), 4=72(LC 3)

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; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) Refer to girder(s) for truss to truss connections.
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 2.
- 5) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



April 20,2020



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 106 MANOR AT STONEY CREEK 141030870 2319678 M09 Jack-Open Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inc. Mon Apr 20 09:13:04 2020 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:O6tYZO2CNJ4NCrTjAk8MhwzhFnV-1esZ3_qDfAvwj35Oj?L0PHzTc9dDvgRkBXcOjkzOt_D 6-0-0 2-3-8 2-3-8 0-10-8 Scale = 1:21.5 6.00 12 2-8-6x8 = 3 1-0-0 0-8-1 3x4 II 3x4 = 6-0-0 Plate Offsets (X,Y)--[3:0-1-12,0-0-14], [3:0-4-0,Edge], [6:0-0-0,0-1-12] LOADING (psf) SPACING-DEFL. **PLATES** GRIP in (loc) I/defI L/d 25.0 Plate Grip DOL **TCLL** 1.15 TC 0.38 Vert(LL) -0.07 5-6 >981 240 MT20 197/144 **TCDL** 10.0 Lumber DOL 1.15 BC 0.48 Vert(CT) -0.14 5-6 >527 180 **BCLL** 0.0 Rep Stress Incr YES WB 0.00 Horz(CT) 0.05 n/a n/a 5 Code IRC2018/TPI2014 FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

BCDL

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

10.0

2-7: 2x6 SPF No.2

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

Max Horz 2=85(LC 8) Max Uplift 4=-39(LC 8)

Max Grav 4=166(LC 1), 2=333(LC 1), 5=105(LC 3)

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

TOP CHORD 2-3=-355/0 **BOT CHORD** 2-7=-55/265

NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60

Matrix-AS

- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) Refer to girder(s) for truss to truss connections.
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4.
- 5) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 6) 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.



Weight: 18 lb

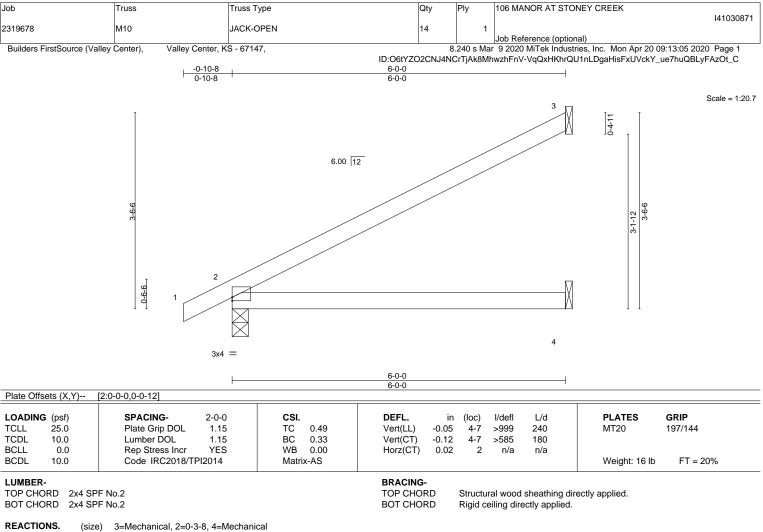
Structural wood sheathing directly applied.

Rigid ceiling directly applied.



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





Max Horz 2=85(LC 8)

Max Uplift 3=-49(LC 8), 2=-1(LC 8)

Max Grav 3=188(LC 1), 2=333(LC 1), 4=109(LC 3)

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; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) Refer to girder(s) for truss to truss connections.
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 2.
- 5) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 6) 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.







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 106 MANOR AT STONEY CREEK 141030872 2319678 M10A Jack-Open Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inc. Mon Apr 20 09:13:06 2020 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:O6tYZO2CNJ4NCrTjAk8MhwzhFnV-z1_KUgiTBo9eyNEnrQOUUi2nUyK7Nax1er5VoczOt_B 6-0-0 0-10-8 6-0-0 Scale = 1:20.7 6.00 12 9-9-0 6-0-0 6-0-0 Plate Offsets (X,Y)--[2:0-0-0,0-0-12] SPACING-DEFL. **PLATES** GRIP LOADING (psf) 2-0-0 (loc) I/defI L/d Plate Grip DOL **TCLL** 25.0 1.15 TC 0.49 Vert(LL) -0.05 4-7 >999 240 MT20 197/144 **TCDL** 10.0 Lumber DOL 1.15 ВС 0.33 Vert(CT) -0.124-7 >585 180 **BCLL** 0.0 Rep Stress Incr YES WB 0.00 Horz(CT) 0.02 n/a n/a Code IRC2018/TPI2014 FT = 20% BCDL 10.0 Matrix-AS Weight: 16 lb LUMBER-**BRACING-**TOP CHORD 2x4 SPF No.2 TOP CHORD Structural wood sheathing directly applied. BOT CHORD 2x4 SPF No.2 **BOT CHORD** Rigid ceiling directly applied.

REACTIONS.

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

Max Horz 2=85(LC 8)

Max Uplift 3=-49(LC 8), 2=-1(LC 8)

Max Grav 3=188(LC 1), 2=333(LC 1), 4=109(LC 3)

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; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) Refer to girder(s) for truss to truss connections.
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 2.
- 5) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 6) 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.





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 106 MANOR AT STONEY CREEK 141030873 2319678 M11 Jack-Open Girder Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inc. Mon Apr 20 09:13:06 2020 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:O6tYZO2CNJ4NCrTjAk8MhwzhFnV-z1_KUgiTBo9eyNEnrQOUUi2k7yCLNaN1er5VoczOt_B 6-0-0 2-11-4 3-0-12 2x4 || 3 Scale = 1:20.4 6.00 12 9-9-0 9 10 5 LUS26 LUS26 4x6 3x4 6-0-0 Plate Offsets (X,Y)--[1:0-1-0,0-1-8] SPACING-**PLATES** GRIP LOADING (psf) 2-0-0 CSI. DEFL. (loc) I/defl L/d Plate Grip DOL **TCLL** 25.0 1.15 TC 0.70 Vert(LL) -0.13 5-8 >518 240 MT20 197/144 TCDL 10.0 Lumber DOL 1.15 ВС 0.89 Vert(CT) -0.24 5-8 >290 180 **BCLL** 0.0 Rep Stress Incr NO WB 0.04 Horz(CT) 0.02 n/a n/a Code IRC2018/TPI2014 Matrix-MP FT = 20% **BCDL** 10.0 Weight: 22 lb **BRACING-**

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x4 SPF No.2 **BOT CHORD** 2x6 SPF 2100F 1.8E **WEBS**

2x4 SPF No.2

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

Max Horz 1=76(LC 8)

Max Uplift 1=-17(LC 8), 5=-64(LC 8) Max Grav 1=942(LC 1), 5=1056(LC 1)

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; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) Refer to girder(s) for truss to truss connections.
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 5.
- 5) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 6) Use Simpson Strong-Tie LUS26 (4-10d Girder, 4-10d Truss, Single Ply Girder) or equivalent spaced at 2-0-0 oc max. starting at 2-0-12 from the left end to 4-0-12 to connect truss(es) to front face of bottom chord.
- 7) Fill all nail holes where hanger is in contact with lumber.
- 8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-2=-70, 2-3=-20, 4-6=-20 Concentrated Loads (lb)

Vert: 9=-736(F) 10=-736(F)



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

Rigid ceiling directly applied or 6-9-9 oc bracing.

April 20,2020



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

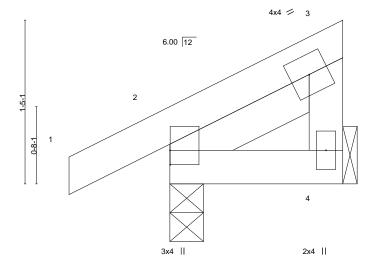


Job Truss Truss Type Qty 106 MANOR AT STONEY CREEK 141030874 2319678 M12 Monopitch Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inc. Mon Apr 20 09:13:07 2020 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147,

ID:O6tYZO2CNJ4NCrTjAk8MhwzhFnV-RDYii0j5y5HUaXpzP7vj0vb3?MlL61BAtVq3K3zOt_A 1-6-0 0-10-8

1-6-0

Scale = 1:10.0



1-6-0

Plate Offs	Plate Offsets (X,Y) [2:Edge,0-0-0]											
LOADING	\(\(\text{i}\)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.05	Vert(LL)	-0.00	7	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.01	Vert(CT)	-0.00	7	>999	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	2	n/a	n/a		
BCDL	10.0	Code IRC2018/TP	12014	Matri	x-MP						Weight: 7 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 1-4-8

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

Max Horz 2=34(LC 7)

Max Uplift 4=-10(LC 5), 2=-9(LC 8) Max Grav 4=41(LC 1), 2=142(LC 1)

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

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) Refer to girder(s) for truss to truss connections.
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 2.
- 5) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

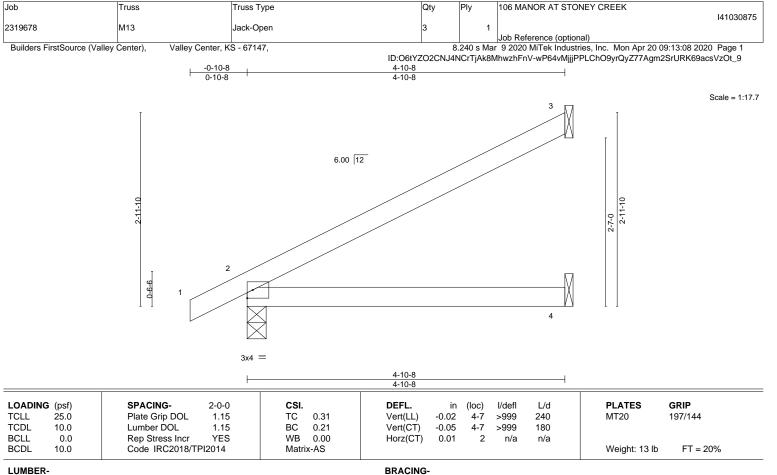


Structural wood sheathing directly applied or 1-6-0 oc purlins,

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

except end verticals.





TOP CHORD

BOT CHORD

Structural wood sheathing directly applied.

Rigid ceiling directly applied.

LUMBER-BOT CHORD

REACTIONS.

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

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

Max Horz 2=70(LC 8)

Max Uplift 3=-40(LC 8), 2=-2(LC 8)

Max Grav 3=150(LC 1), 2=283(LC 1), 4=89(LC 3)

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; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) Refer to girder(s) for truss to truss connections.
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 2.
- 5) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 6) 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.



April 20,2020







Job Truss Truss Type Qty 106 MANOR AT STONEY CREEK 141030876 2319678 V01 Valley Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inc. Mon Apr 20 09:13:09 2020 Page 1

Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:O6tYZO2CNJ4NCrTjAk8MhwzhFnV-OcgS6hkMUjXCpqzMWYxB5KgL7APgaxhTKpJ9PxzOt_8

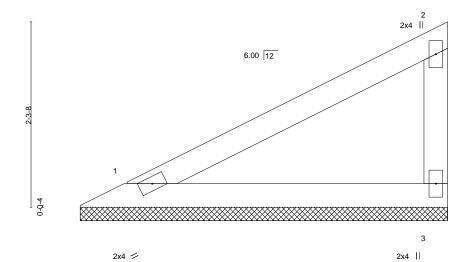
Structural wood sheathing directly applied or 4-7-0 oc purlins,

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

except end verticals.

4-7-0

Scale = 1:14.2



LOADING (psf) SPACING-2-0-0 CSI. DEFL. I/defI L/d **PLATES** GRIP (loc) TCLL 25.0 Plate Grip DOL 1.15 TC Vert(LL) 999 MT20 197/144 0.27 n/a n/a **TCDL** 10.0 Lumber DOL 1.15 ВС 0.14 Vert(CT) n/a 999 n/a **BCLL** 0.0 Rep Stress Incr YES WB 0.00 Horz(CT) -0.00 3 n/a n/a Code IRC2018/TPI2014 BCDL 10.0 Matrix-P Weight: 12 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

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

1=4-6-8, 3=4-6-8 (size) Max Horz 1=56(LC 5) Max Uplift 1=-4(LC 8), 3=-15(LC 8) Max Grav 1=171(LC 1), 3=171(LC 1)

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; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Gable requires continuous bottom chord bearing.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.
- 5) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



April 20,2020



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 106 MANOR AT STONEY CREEK 141030877 2319678 V02 Valley Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inc. Mon Apr 20 09:13:09 2020 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147,

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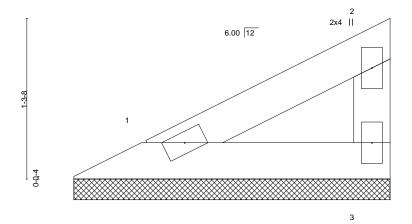
Structural wood sheathing directly applied or 2-7-0 oc purlins,

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

except end verticals.

2-7-0 2-7-0

Scale = 1:9.3



2x4 / 2x4 ||

LOADING (psf) SPACING-2-0-0 CSI. DEFL. I/defI L/d **PLATES** GRIP (loc) TCLL Plate Grip DOL 1.15 TC 0.05 Vert(LL) 999 MT20 197/144 n/a n/a **TCDL** 10.0 Lumber DOL 1.15 ВС 0.03 Vert(CT) n/a 999 n/a **BCLL** 0.0 Rep Stress Incr YES WB 0.00 Horz(CT) -0.00 3 n/a n/a Code IRC2018/TPI2014 BCDL 10.0 Matrix-P Weight: 6 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

REACTIONS. 1=2-6-8, 3=2-6-8 (size) Max Horz 1=27(LC 5)

Max Uplift 1=-2(LC 8), 3=-7(LC 8) Max Grav 1=81(LC 1), 3=81(LC 1)

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

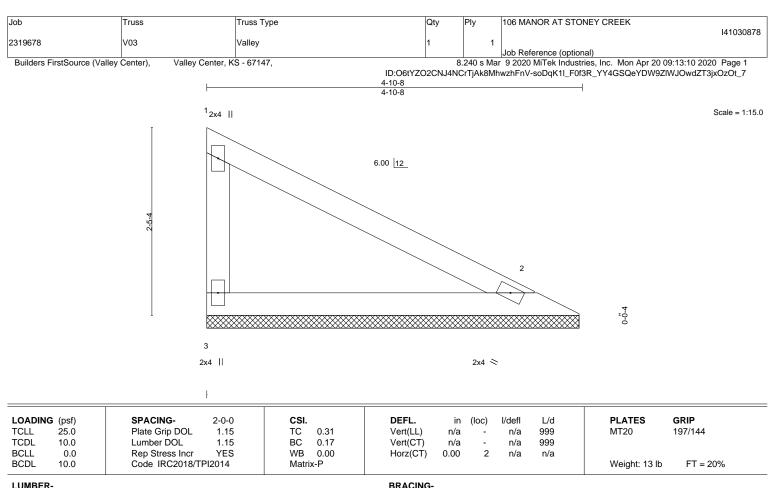
NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Gable requires continuous bottom chord bearing.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.
- 5) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



April 20,2020





TOP CHORD

BOT CHORD

LUMBER-

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

WEBS 2x4 SPF No.2

REACTIONS.

3=4-10-0, 2=4-10-0 (size) Max Horz 3=-61(LC 6) Max Uplift 3=-17(LC 9), 2=-4(LC 9) Max Grav 3=184(LC 1), 2=184(LC 1)

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; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Gable requires continuous bottom chord bearing.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 2.
- 5) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



Structural wood sheathing directly applied or 4-10-8 oc purlins,

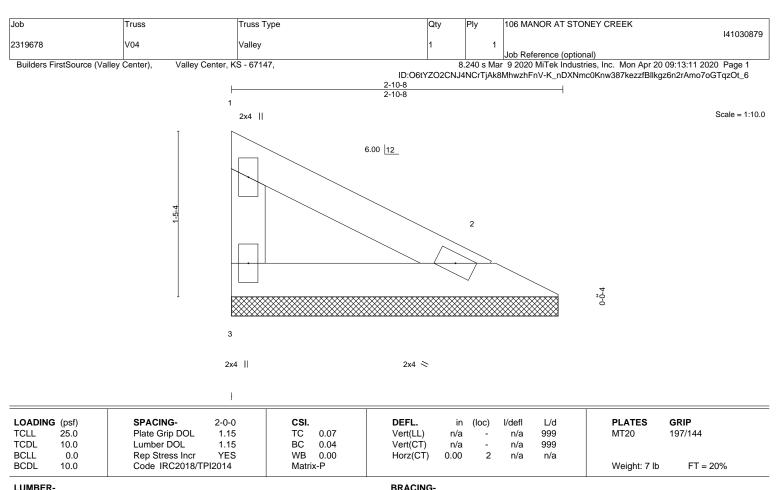
Rigid ceiling directly applied or 10-0-0 oc bracing

except end verticals.









TOP CHORD

BOT CHORD

LUMBER-

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

WEBS 2x4 SPF No.2

REACTIONS.

3=2-10-0, 2=2-10-0 (size) Max Horz 3=-31(LC 4) Max Uplift 3=-8(LC 9), 2=-2(LC 9) Max Grav 3=94(LC 1), 2=94(LC 1)

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; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Gable requires continuous bottom chord bearing.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 2.
- 5) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



Structural wood sheathing directly applied or 2-10-8 oc purlins,

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

except end verticals.





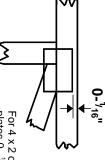


Symbols

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



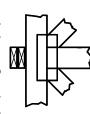
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

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



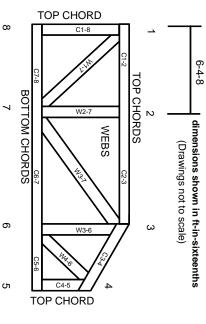
Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only

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
- 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.