

RE: 400686 Lot 108 MN MiTek USA, Inc. 16023 Swingley Ridge Rd Chesterfield, MO 63017 314-434-1200

General Truss Engineering Criteria & Design Loads (Individual Truss Design Drawings Show Special Loading Conditions):

Design Code: IRC2018/TPI2014 Wind Code: N/A Roof Load: 45.0 psf Design Program: MiTek 20/20 8.4 Wind Speed: 115 mph Floor Load: N/A psf

This package includes 49 individual, dated Truss Design Drawings and 0 Additional Drawings.

No.	Seal#	Truss Name	Date	No.	Seal#	Truss Name	Date
1	143085918	A1	10/6/2020	NO. 27	J43085944	D1	10/6/2020
2	143085919	A2	10/6/2020	28	143085945	D2	10/6/2020
3	143085920	A3	10/6/2020	29	143085946	E1	10/6/2020
4	143085921	A4	10/6/2020	30	143085947	E2	10/6/2020
5	143085922	B1	10/6/2020	31	143085948	E3	10/6/2020
6	143085923	B1 B2	10/6/2020	32	143085949	J1	10/6/2020
7	143085923	B2 B3	10/6/2020	32 33	143085950	J2	10/6/2020
8	143085925	вз В4	10/6/2020		143085950		10/6/2020
o 9		Б4 В5	10/6/2020	34 35	143085951	J3	
	143085926	-				J4	10/6/2020
10	143085927	B6	10/6/2020	36	143085953	J5	10/6/2020
11	143085928	B7	10/6/2020	37	143085954	J6	10/6/2020
12	143085929	B8	10/6/2020	38	143085955	J7	10/6/2020
13	143085930	B9	10/6/2020	39	143085956	J8	10/6/2020
14	l43085931	B10	10/6/2020	40	143085957	LAY1	10/6/2020
15	143085932	B11	10/6/2020	41	143085958	V1	10/6/2020
16	143085933	B12	10/6/2020	42	143085959	V2	10/6/2020
17	143085934	C1	10/6/2020	43	143085960	V3	10/6/2020
18	143085935	C2	10/6/2020	44	l43085961	V4	10/6/2020
19	143085936	C3	10/6/2020	45	143085962	V5	10/6/2020
20	143085937	C4	10/6/2020	46	143085963	V6	10/6/2020
21	143085938	C5	10/6/2020	47	143085964	V7	10/6/2020
22	143085939	C5A	10/6/2020	48	143085965	V8	10/6/2020
23	143085940	C6	10/6/2020	49	143085966	V9	10/6/2020
24	143085941	C7	10/6/2020				
25	143085942	C8	10/6/2020				
26	143085943	C9	10/6/2020				
-							

The truss drawing(s) referenced above have been prepared by MiTek USA, Inc under my direct supervision

based on the parameters provided by Wheeler - Waverly.

Truss Design Engineer's Name: Garcia, Juan

My license renewal date for the state of Kansas is April 30, 2022. Kansas COA: E-943

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





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General Truss Engineering Criteria & Design Loads (Individual Truss Design Drawings Show Special Loading Conditions):

Design Code: IRC2018/TPI2014 Wind Code: N/A Roof Load: 45.0 psf Design Program: MiTek 20/20 8.4 Wind Speed: 115 mph Floor Load: N/A psf

This package includes 49 individual, dated Truss Design Drawings and 0 Additional Drawings.

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2	143085919	A2	10/6/2020	28	143085945	D2	10/6/2020
3	143085920	A3	10/6/2020	29	143085946	E1	10/6/2020
4	143085921	A4	10/6/2020	30	143085947	E2	10/6/2020
5	143085922	B1	10/6/2020	31	143085948	E3	10/6/2020
6	143085923	B2	10/6/2020	32	143085949	J1	10/6/2020
7	143085924	B3	10/6/2020	33	143085950	J2	10/6/2020
8	143085925	B4	10/6/2020	34	I43085951	J3	10/6/2020
9	143085926	B5	10/6/2020	35	143085952	J4	10/6/2020
10	143085927	B6	10/6/2020	36	I43085953	J5	10/6/2020
11	143085928	B7	10/6/2020	37	143085954	J6	10/6/2020
12	143085929	B8	10/6/2020	38	143085955	J7	10/6/2020
13	143085930	B9	10/6/2020	39	I43085956	J8	10/6/2020
14	I43085931	B10	10/6/2020	40	l43085957	LAY1	10/6/2020
15	143085932	B11	10/6/2020	41	I43085958	V1	10/6/2020
16	143085933	B12	10/6/2020	42	I43085959	V2	10/6/2020
17	143085934	C1	10/6/2020	43	143085960	V3	10/6/2020
18	143085935	C2	10/6/2020	44	I43085961	V4	10/6/2020
19	143085936	C3	10/6/2020	45	l43085962	V5	10/6/2020
20	143085937	C4	10/6/2020	46	I43085963	V6	10/6/2020
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23	143085940	C6	10/6/2020	49	143085966	V9	10/6/2020
24	I43085941	C7	10/6/2020				
25	143085942	C8	10/6/2020				
26	143085943	C9	10/6/2020				

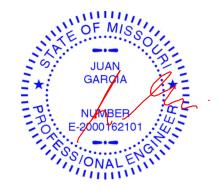
The truss drawing(s) referenced above have been prepared by

MiTek USA, Inc under my direct supervision based on the parameters provided by Wheeler - Waverly.

Truss Design Engineer's Name: Garcia, Juan

My license renewal date for the state of Missouri is December 31, 2020. Missouri COA: 001193

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





Scale = 1:31.3

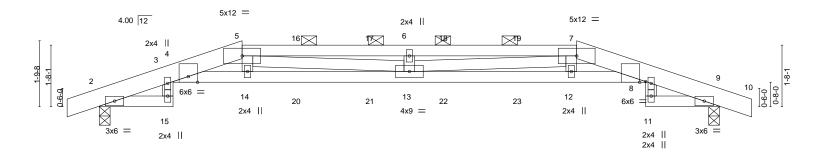


Plate Offsets (X,Y) [8:0		8-5-0 4-6-8		12-11-8 4-6-8		4-10-0 16-10 1-10-8 2-0-0	
LOADING (psf) TCLL 25.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr NO Code IRC2018/TPI2014	CSI. TC 0.74 BC 0.50 WB 0.18 Matrix-S	DEFL. i Vert(LL) -0.3 Vert(CT) -0.5 Horz(CT) 0.2 Wind(LL) 0.2	0 13 > 4 13 > 5 9	/defl L/d 6668 360 •370 240 n/a n/a •760 240	PLATES MT20 Weight: 120 lt	GRIP 197/144 D FT = 10%
5-7: 2x4 S BOT CHORD 2x4 SPF N	SPF 2100F 1.8E		BRACING- TOP CHORD BOT CHORD	2-0-0 oc p	ourlins (6-0-0 max.)	irectly applied or 6-0-0): 5-7. or 10-0-0 oc bracing.) oc purlins, except
Max Horz Max Uplif	2=0-3-8, 9=0-3-8 2=28(LC 8) t 2=-299(LC 4), 9=-302(LC 5) y 2=1210(LC 1), 9=1205(LC 1)					NE OF	MISS
TOP CHORD 2-3=-468 7-8=-514 BOT CHORD 4-14=-11	mp./Max. Ten All forces 250 (lb) or 8/130, 3-4=-74/384, 4-5=-5173/1159, 49/1146, 8-9=-524/136 121/5117, 13-14=-1131/5210, 12-13= 0/465, 5-13=-332/1430, 6-13=-413/18	5-6=-6532/1458, 6-7=-653	,				
Top chords connected Bottom chords connect Webs connected as foll 2) All loads are considered ply connections have b 3) Unbalanced roof live loads	cted together with 10d (0.131"x3") na as follows: 2x6 - 2 rows staggered at ed as follows: 2x4 - 1 row at 0-9-0 oc lows: 2x4 - 1 row at 0-9-0 oc. d equally applied to all plies, except if een provided to distribute only loads ads have been considered for this de	0-9-0 oc, 2x4 - 1 row at 0-9 noted as front (F) or back noted as (F) or (B), unless of sign.	(B) face in the LOAD otherwise indicated.			E-2000	ABER D162101
 MWFRS (envelope) gal grip DOL=1.60 5) Provide adequate drain 6) This truss has been des 7) * This truss has been d will fit between the bottom 	=115mph (3-second gust) Vasd=91m ble end zone; cantilever left and right signed for a 10.0 psf bottom chord liv esigned for a live load of 20.0psf on t om chord and any other members. nnection (by others) of truss to bearin	exposed ; end vertical left e load nonconcurrent with a he bottom chord in all area	and right exposed; Lu any other live loads. s where a rectangle 3	-6-0 tall by 2	1.60 plate 2-0-0 wide	AN UC	GARCIA
2=299, 9=302. 9) This truss is designed in referenced standard AN	n accordance with the 2018 Internation	onal Residential Code section	ons R502.11.1 and R	302.10.2 and	d		NSA9 NOT

Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



October 6,2020

Job	Truss	Truss Type	Qty	Ply	Lot 108 MN
					I43085918
400686	A1	HIP GIRDER	1	2	
				_	Job Reference (optional)
Wheeler Lumber,	Waverly, KS 66871		8	.420 s Aug	g 25 2020 MiTek Industries, Inc. Tue Oct 6 06:58:22 2020 Page 2
			ID:pq50?Ycap6Wp	LXoTu4wf	Y2za1nE-QJEQujShjDQZdgxXnuAV9VbG10yxo3UtRLpyhfyWCqV

NOTES-

11) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 97 lb down and 60 lb up at 3-10-8, 97 lb down and 60 lb up at 5-5-0, 97 lb down and 60 lb up at 7-5-0, 97 lb down and 60 lb up at 7-5-0, 97 lb down and 60 lb up at 3-10-8, 12 lb down and 60 lb up at 11-5-0, and 97 lb down and 60 lb up at 12-11-8 on top chord, and 195 lb down and 68 lb up at 3-10-8, 12 lb down at 5-5-0, 12 lb down at 9-5-0, 12 lb down at 9-5-0, and 12 lb down at 11-5-0, and 195 lb down and 68 lb up at 12-10-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

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

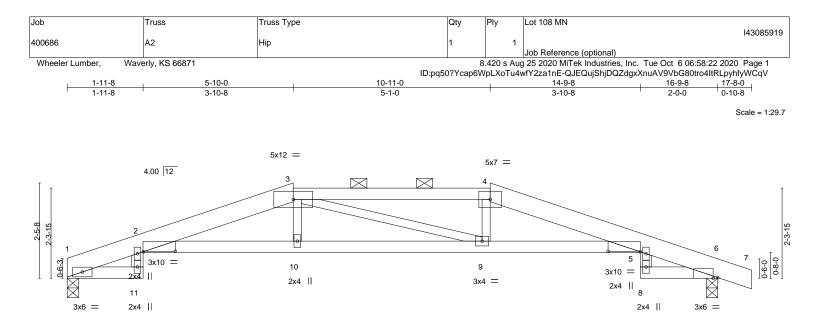
Uniform Loads (plf)

Vert: 1-5=-70, 5-7=-70, 7-10=-70, 2-15=-20, 4-8=-20, 9-11=-20

Concentrated Loads (lb)

Vert: 5=-65(F) 7=-65(F) 14=-195(F) 12=-195(F) 16=-65(F) 17=-65(F) 18=-65(F) 19=-65(F) 20=-4(F) 21=-4(F) 22=-4(F) 23=-4(F) 23=-4(F





<u>1-11-8</u> 1-11-8	5-10-0		<u>10-11-0</u> 5-1-0		+		14-9-8 3-10-8	16-9-8	———————————————————————————————————————
	[2:0-9-15,0-0-2], [5:0-9-15,0-0-2],	6:0-1-7,Edge]	3-1-0				5-10-0	2-0-0	
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 0.73	Vert(LL)	-0.26	` 1Ó	>775	360	MT20	197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.83	Vert(CT)	-0.47	9-10	>425	240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.12	Horz(CT)	0.32	6	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014	Matrix-S	Wind(LL)	0.19	10	>999	240	Weight: 56 lb	FT = 10%

LUMBER-		BRACING-	
TOP CHORD	2x6 SPF 1650F 1.4E *Except*	TOP CHORD	Structural wood sheathing directly applied or 4-0-8 oc purlins, except
	3-4: 2x4 SPF No.2		2-0-0 oc purlins (3-7-11 max.): 3-4.
BOT CHORD	2x4 SPF No.2	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	2x3 SPF No.2		

REACTIONS. (size) 1=0-3-8, 6=0-3-8 Max Horz 1=-42(LC 9) Max Uplift 1=-128(LC 4), 6=-173(LC 5) Max Grav 1=733(LC 1), 6=809(LC 1)

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

 TOP CHORD
 1-2=-353/80, 2-3=-2129/349, 3-4=-2086/337, 4-5=-2128/325, 5-6=-353/76

BOT CHORD 2-10=-308/2086, 9-10=-303/2088, 5-9=-251/2085

NOTES-

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

2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; 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) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.

6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=128, 6=173.

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.

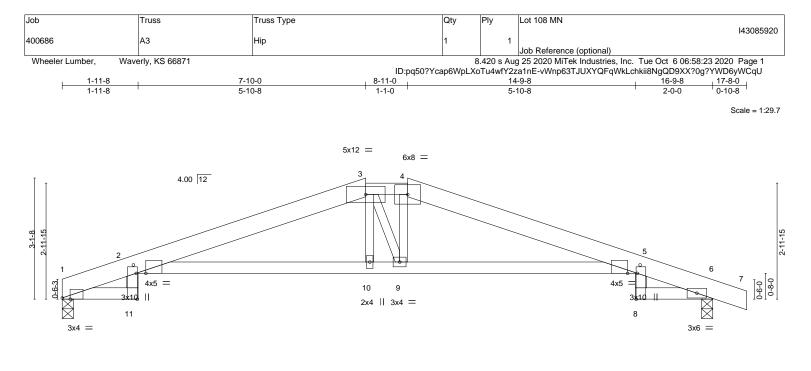
8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



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16023 Swingley Ridge Rd Chesterfield, MO 63017



1-11-8	7-10-0	8-11-0	<u>14-9-8</u> 5-10-8	16-9-8
	[1:0-2-7,Edge], [2:0-3-0,Edge], [2:0-10-	10,Edge], [5:0-3-0,Edge], [5:0-10-10,E		
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 YES Code IRC2018/TPI2014	CSI. DEFI TC 1.00 Vert(BC 0.82 Vert(WB 0.09 Horz: Matrix-S Wind	LL) -0.26 5-9 >755 360 CT) -0.50 5-9 >400 240 (CT) 0.33 6 n/a n/a	PLATES GRIP MT20 197/144 Weight: 58 lb FT = 10%
3-4: 2x4 BOT CHORD 2x4 SP WEBS 2x3 SP	F No.2 *Except* 4 SPF No.2 F No.2 F No.2 *Except* 8: 2x4 SPF No.2		CING- CHORD Structural wood sheathing 2-0-0 oc purlins (3-11-3 ma CHORD Rigid ceiling directly applie	ax.): 3-4.
Max He Max U	e) 1=0-3-8, 6=0-3-8 orz 1=-54(LC 9) plift 1=-112(LC 4), 6=-157(LC 5) rav 1=740(LC 1), 6=816(LC 1)			OF MISSIN
TOP CHORD 1-2=- BOT CHORD 2-10=	Comp./Max. Ten All forces 250 (lb) o 308/80, 2-3=-1718/218, 3-4=-1637/220, -167/1631, 9-10=-165/1636, 5-9=-133/ 98/273	, 4-5=-1719/201, 5-6=-304/68		JUAN GARCIA
 Wind: ASCE 7-16; V MWFRS (envelope) grip DOL=1.60 Provide adequate dr 4) This truss has been 5) * This truss has been will fit between the b 	loads have been considered for this de ult=115mph (3-second gust) Vasd=91m gable end zone; cantilever left and right ainage to prevent water ponding. designed for a 10.0 psf bottom chord liv n designed for a live load of 20.0psf on i ottom chord and any other members. connection (by others) of truss to bearin	nph; TCDL=6.0psf; BCDL=6.0psf; h=2 exposed ; end vertical left and right e re load nonconcurrent with any other I the bottom chord in all areas where a	xposed; Lumber DOL=1.60 plate ive loads. rectangle 3-6-0 tall by 2-0-0 wide	NUMBER E-2000162101

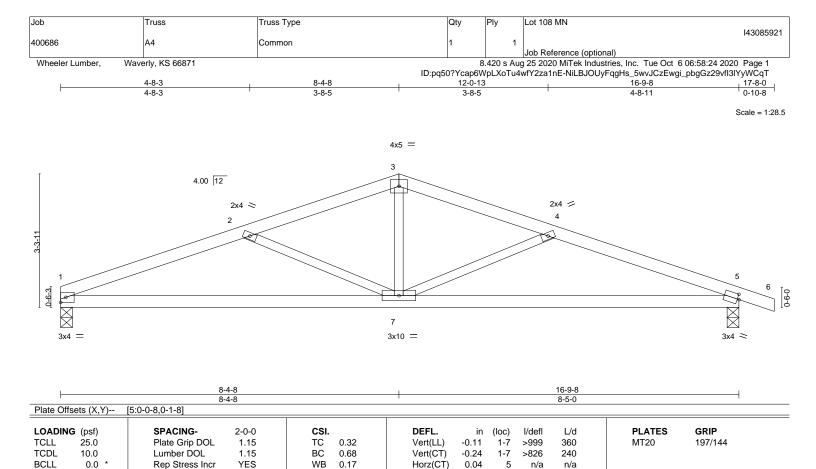
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=112, 6=157.

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.







Wind(LL)

BRACING-

TOP CHORD

BOT CHORD

0.04

7 >999 240

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

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

Weight: 49 lb

11 1111

0

MIS

FT = 10%

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BCDL

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

10.0

REACTIONS. (size) 1=0-3-8, 5=0-3-8 Max Horz 1=-56(LC 9)

Max Uplift 1=-108(LC 4), 5=-153(LC 5) Max Grav 1=740(LC 1), 5=816(LC 1)

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

Code IRC2018/TPI2014

1-2=-1535/261, 2-3=-1182/138, 3-4=-1182/141, 4-5=-1533/252 TOP CHORD

BOT CHORD 1-7=-238/1396, 5-7=-186/1393

WEBS 3-7=-5/477, 4-7=-381/195, 2-7=-385/200

NOTES-

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

2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60

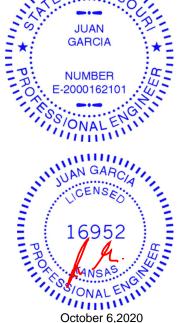
Matrix-S

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

4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.

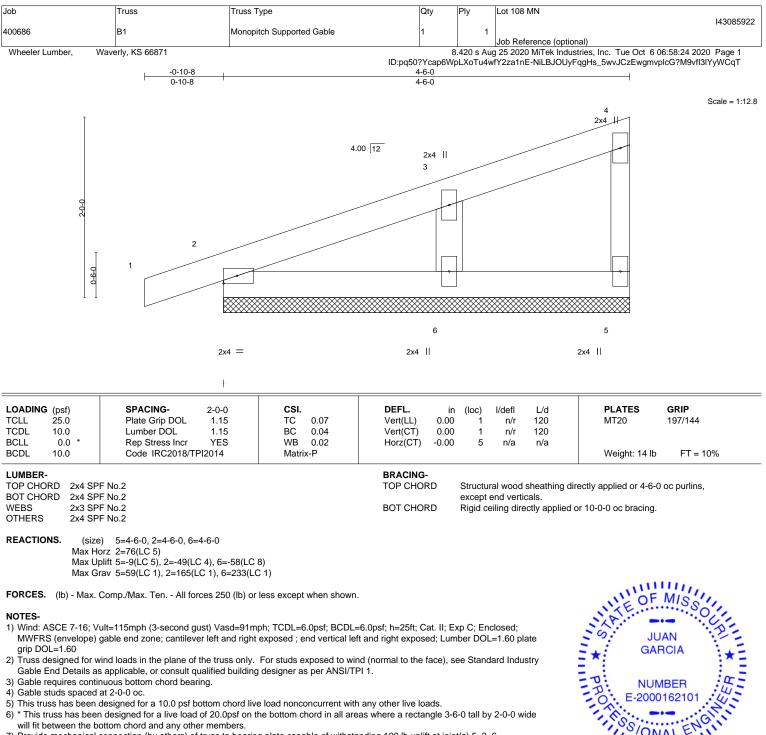
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=108. 5=153.

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.



October 6,2020

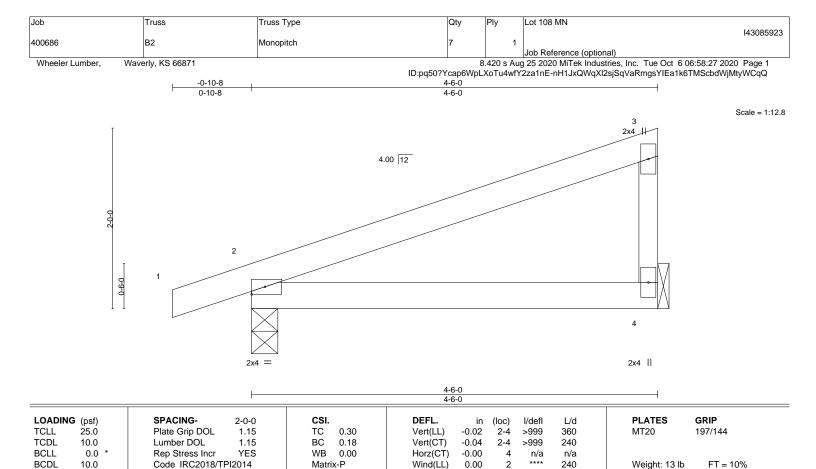




- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 2, 6.
- 8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.







BRACING-

TOP CHORD

BOT CHORD

	18.4		- D
L.(JM	БС	:ĸ-

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

WEBS 2x3 SPF No.2

REACTIONS. (size) 4=Mechanical, 2=0-3-8 Max Horz 2=76(LC 5)

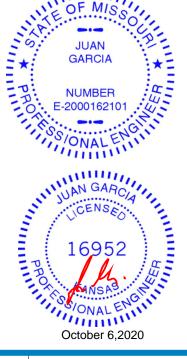
Max Uplift 4=-40(LC 8), 2=-78(LC 4)

Max Grav 4=183(LC 1), 2=271(LC 1)

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

NOTES-

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; 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) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 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) 4, 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.



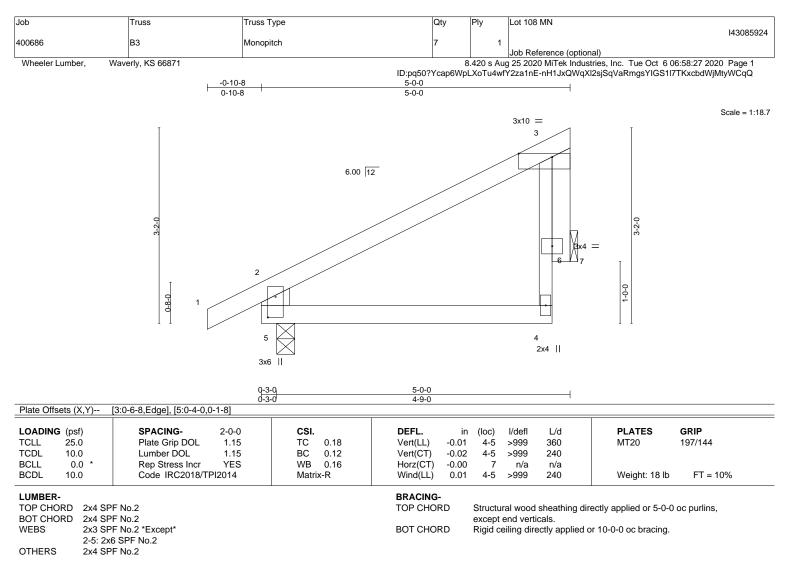
11111

Structural wood sheathing directly applied or 4-6-0 oc purlins,

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

except end verticals.





REACTIONS. (size) 5=0-3-8, 7=Mechanical Max Horz 5=90(LC 5) Max Uplift 5=-39(LC 8), 7=-60(LC 8)

Max Grav 5=297(LC 1), 7=174(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-5=-265/80

NOTES-

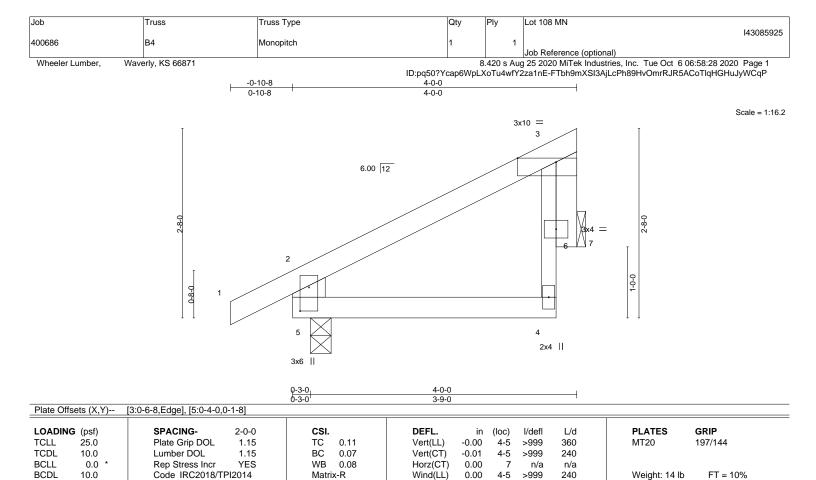
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 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) 5, 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.



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BRACING-

TOP CHORD

BOT CHORD

TOP CHORD
BOT CHORD

LUMBER-

RD 2x4 SPF No.2 2x3 SPF No.2 *Except* WEBS 2-5: 2x6 SPF No.2

2x4 SPF No.2

OTHERS 2x4 SPF No.2

REACTIONS. (size) 5=0-3-8, 7=Mechanical Max Horz 5=77(LC 5) Max Uplift 5=-37(LC 8), 7=-45(LC 8)

Max Grav 5=254(LC 1), 7=127(LC 1)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; 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) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.

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) 5.7.
- 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.



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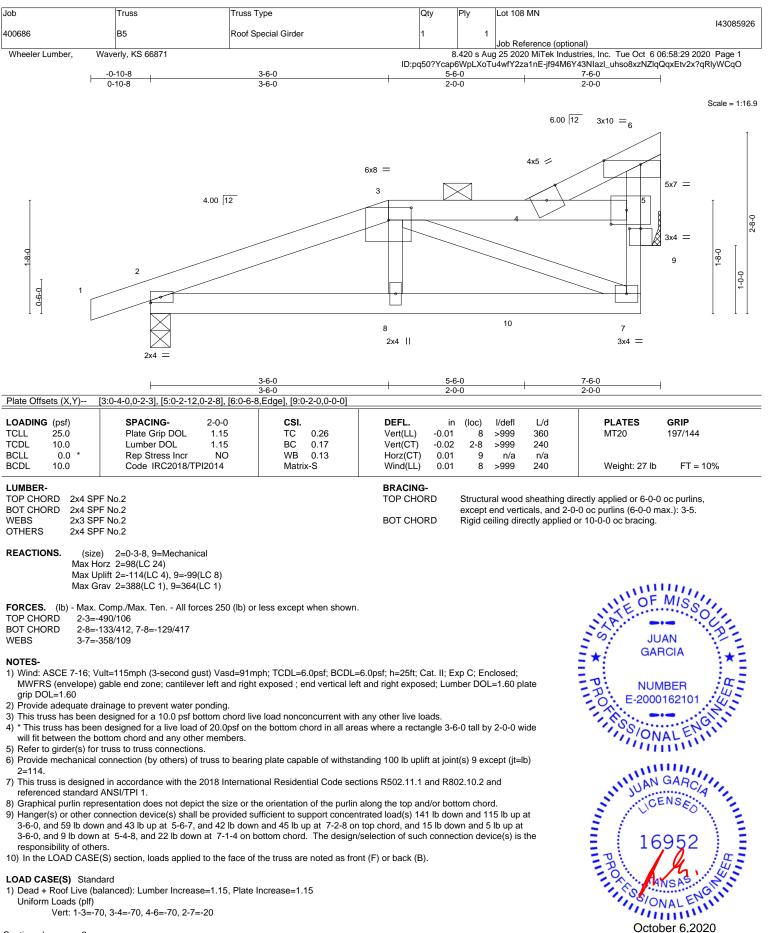
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Structural wood sheathing directly applied or 4-0-0 oc purlins,

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

except end verticals





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16023 Swingley Ridge Rd Chesterfield, MO 63017

Continued on page 2

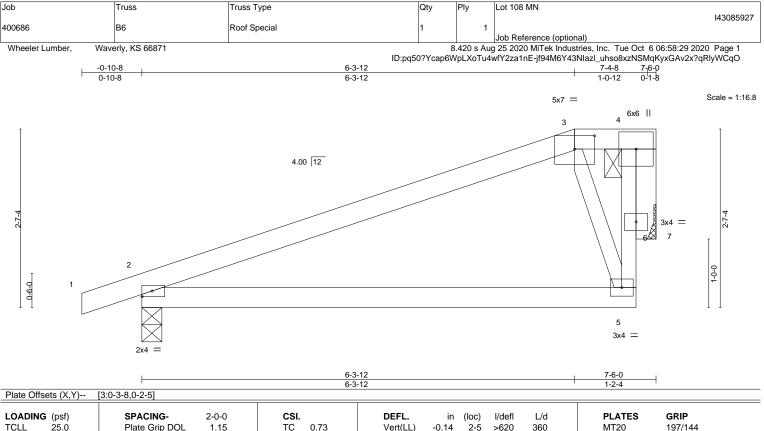
Job	Truss	Truss Type	Qty	Ply	Lot 108 MN
					143085926
400686	B5	Roof Special Girder	1	1	
					Job Reference (optional)
Wheeler Lumber, Wav	erly, KS 66871		8	.420 s Aug	25 2020 MiTek Industries, Inc. Tue Oct 6 06:58:29 2020 Page 2

ID:pq50?Ycap6WpLXoTu4wfY2za1nE-jf94M6Y43NIazI_uhso8xzNZlqQqxEtv2x?qRlyWCqO

LOAD CASE(S) Standard

Concentrated Loads (Ib) Vert: 5=-33(B) 7=-15(B) 8=5(B) 10=-3(B)





LUMBER TOP CHO		PF No.2				BRACING- TOP CHOF		Structu	Iral wood	sheathing	directly applied or 6-0-0) oc purlins,
BCLL BCDL	0.0 * 10.0	Rep Stress Incr Code IRC2018/T	YES PI2014	WB Matrix	0.05 k-P	Horz(CT) Wind(LL)	0.01 0.00	7 5	n/a >999	n/a 240	Weight: 23 lb	FT = 10%
TCDL	10.0	Lumber DOL	1.15	BC	0.54	Vert(CT)	-0.28	2-5	>310	240		
TCLL	25.0	Plate Grip DOL	1.15	TC	0.73	Vert(LL)	-0.14	2-5	>620	360	MT20	197/144
LOADING	G (psf)	SPACING-	2-0-0	CSI.	ļ	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP

BOT CHORD

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

REACTIONS. (size) 2=0-3-8, 7=Mechanical Max Horz 2=81(LC 4) Max Uplift 2=-94(LC 4), 7=-67(LC 4)

Max Grav 2=404(LC 1), 7=294(LC 1)

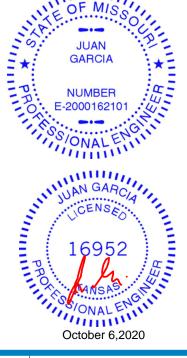
FORCES. (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) or less except when shown. TOP CHORD 5-6=-52/285, 4-6=-52/285 WEBS 4-7=-301/69

NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; 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) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 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) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



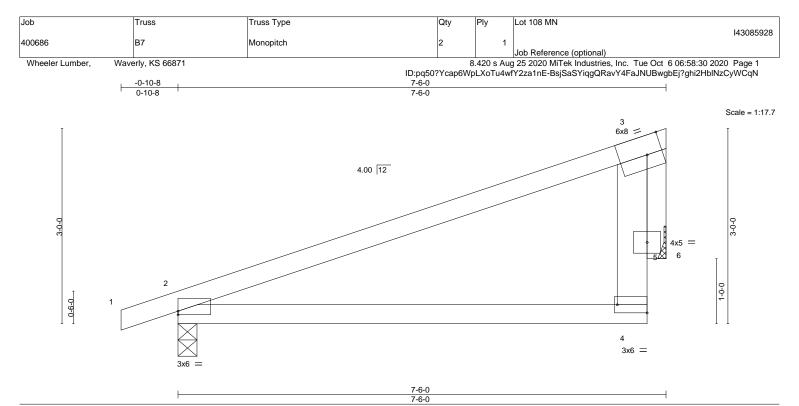
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except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 3-4.

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





OADING (psf)	SPACING- 2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL 1.15	TC 0.57	Vert(LL)	-0.04	2-4	>999	360	MT20	197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.36	Vert(CT)	-0.10	2-4	>858	240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.16	Horz(CT)	0.00	6	n/a	n/a		
3CDL 10.0	Code IRC2018/TPI2014	Matrix-R	Wind(LL)	0.03	2-4	>999	240	Weight: 24 lb	FT = 10%

TOP CHORD

BOT CHORD

LUMBER-

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

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

Max Horz 2=90(LC 4) Max Uplift 2=-91(LC 4), 6=-69(LC 8) Max Grav 2=403(LC 1), 6=283(LC 1)

FORCES. (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) or less except when shown. TOP CHORD 2-3=-331/25

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; 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) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 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) 2, 6.
- 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.



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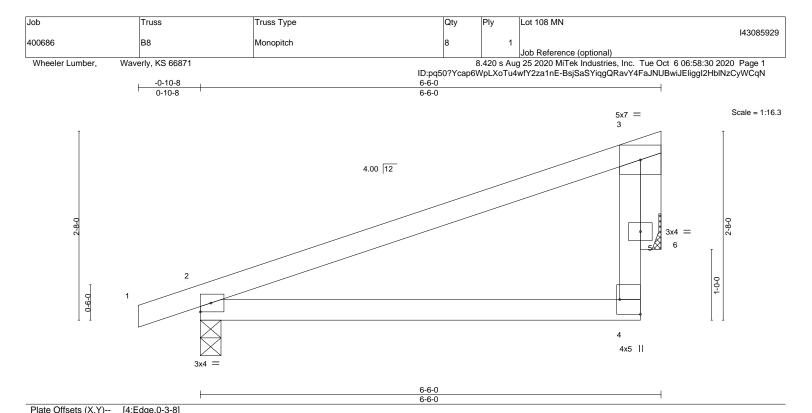
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Structural wood sheathing directly applied or 6-0-0 oc purlins,

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

except end verticals.





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 0.40	Vert(LL)	-0.03	2-4	>999	360	MT20	197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.25	Vert(CT)	-0.06	2-4	>999	240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.25	Horz(CT)	-0.00	6	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014	Matrix-R	Wind(LL)	0.02	2-4	>999	240	Weight: 20 lb	FT = 10%

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

OTHERS 2x4 SPF No.2 REACTIONS. (size) 2=0-3-8, 6=Mechanica

(size) 2=0-3-8, 6=Mechanical Max Horz 2=78(LC 5) Max Uplift 2=-85(LC 4), 6=-60(LC 8)

Max Grav 2=359(LC 1), 6=245(LC 1)

FORCES. (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) or less except when shown. TOP CHORD 2-3=-271/20

NOTES-

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; 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) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 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) 2, 6.
- 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.



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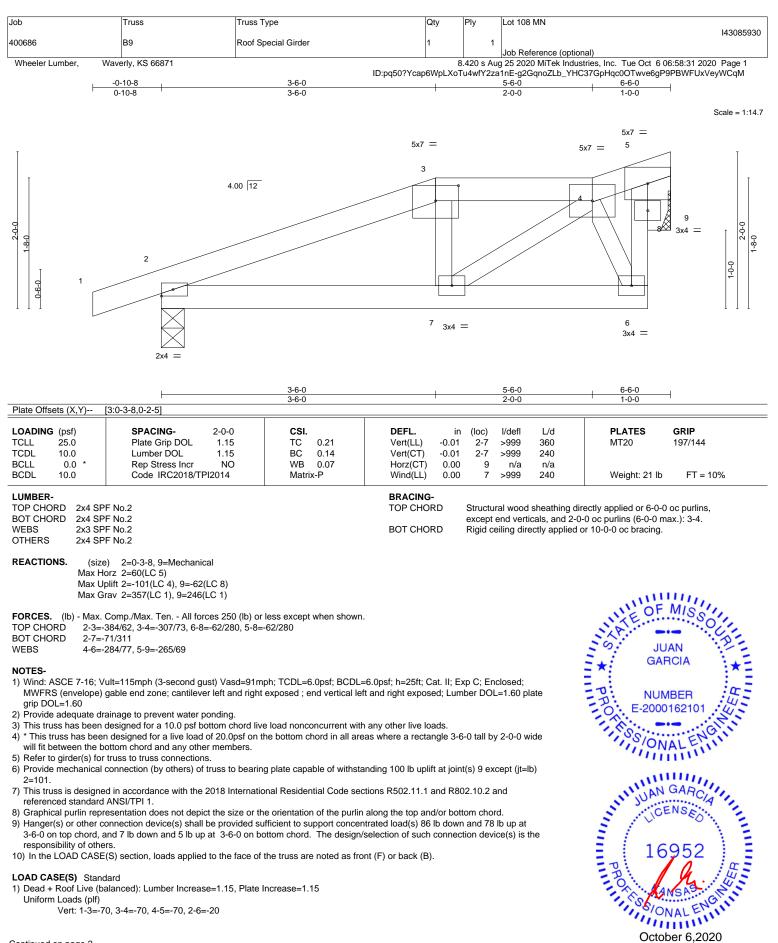
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Structural wood sheathing directly applied or 6-0-0 oc purlins,

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

except end verticals.





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, 4-5=-70, 2-6=-20

Continued on page 2

🗼 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not besign value to be only with with ever connectors. This besign is based only upon parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601 MiTek

October 6,2020

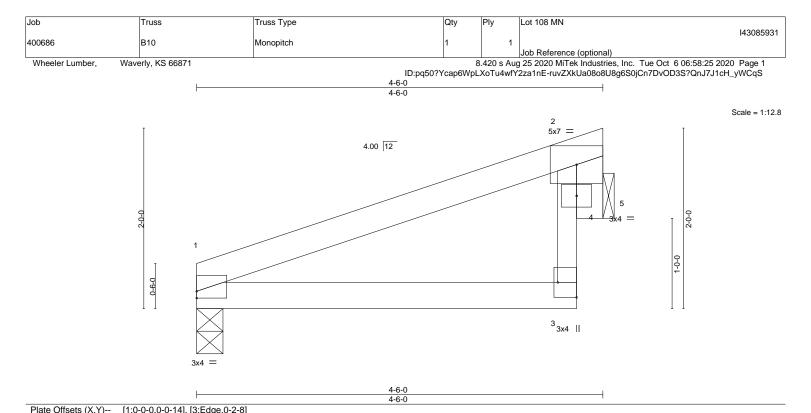
16023 Swingley Ridge Rd Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Lot 108 MN
400686	B9	Roof Special Girder	1	1	143085930
	50				Job Reference (optional)
Wheeler Lumber, Wave	erly, KS 66871		8	.420 s Aug	25 2020 MiTek Industries, Inc. Tue Oct 6 06:58:31 2020 Page 2

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LOAD CASE(S) Standard Concentrated Loads (Ib) Vert: 7=5(F)





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 0.22	Vert(LL)	-0.01 1-3	>999	360	MT20	197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.13	Vert(CT)	-0.02 1-3	>999	240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.14	Horz(CT)	0.00	i n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014	Matrix-R	Wind(LL)	0.00 1-3	>999	240	Weight: 12 lb	FT = 10%

TOP CHORD

BOT CHORD

LUMBER-

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

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

Max Horz 1=58(LC 5) Max Uplift 1=-26(LC 4), 5=-41(LC 8)

Max Grav 1=192(LC 1), 5=164(LC 1)

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

NOTES-

 Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; 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) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 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.



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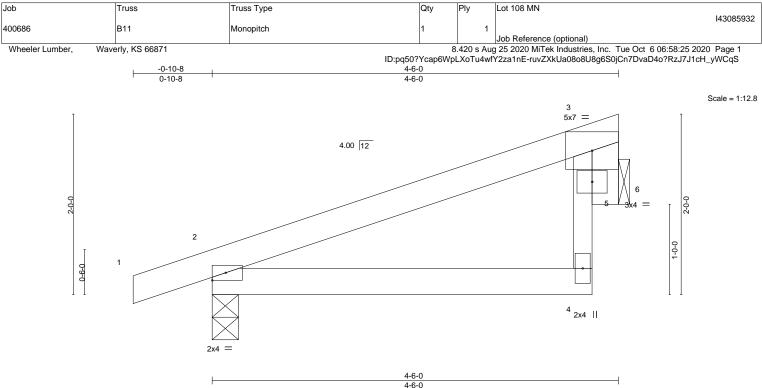
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Structural wood sheathing directly applied or 4-6-0 oc purlins,

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

except end verticals.





			•			4-6-0						
LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.20	Vert(LL)	-0.01	2-4	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.11	Vert(CT)	-0.01	2-4	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.13	Horz(CT)	0.00	6	n/a	n/a		
BCDL	10.0	Code IRC2018/TP	12014	Matri	x-R	Wind(LL)	0.00	2-4	>999	240	Weight: 13 lb	FT = 10%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

 TOP CHORD
 2x4 SPF No.2

 BOT CHORD
 2x4 SPF No.2

 WEBS
 2x3 SPF No.2

 OTHERS
 2x4 SPF No.2

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

Max Horz 2=60(LC 5)

Max Uplift 2=-74(LC 4), 6=-38(LC 8) Max Grav 2=272(LC 1), 6=156(LC 1)

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

NOTES-

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; 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) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.

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) 2, 6.
- 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.

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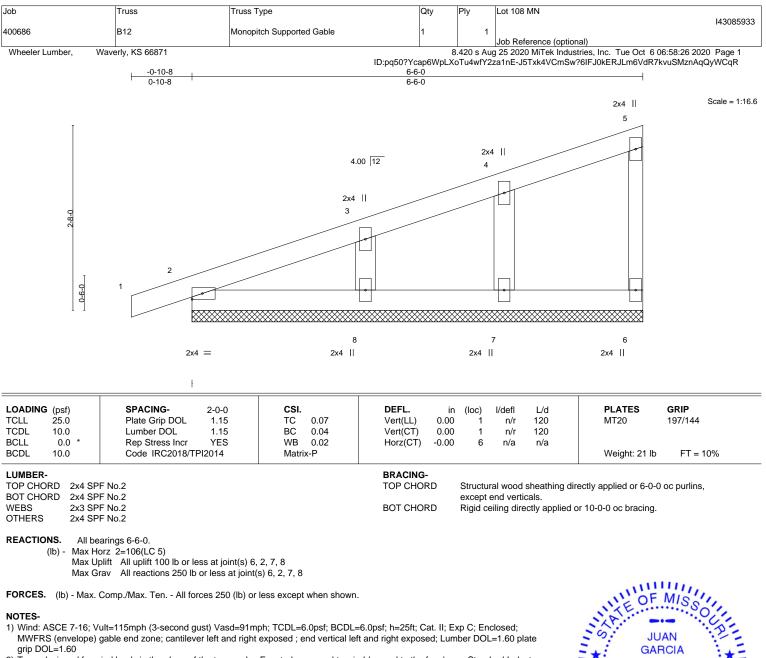
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Structural wood sheathing directly applied or 4-6-0 oc purlins,

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

except end verticals.

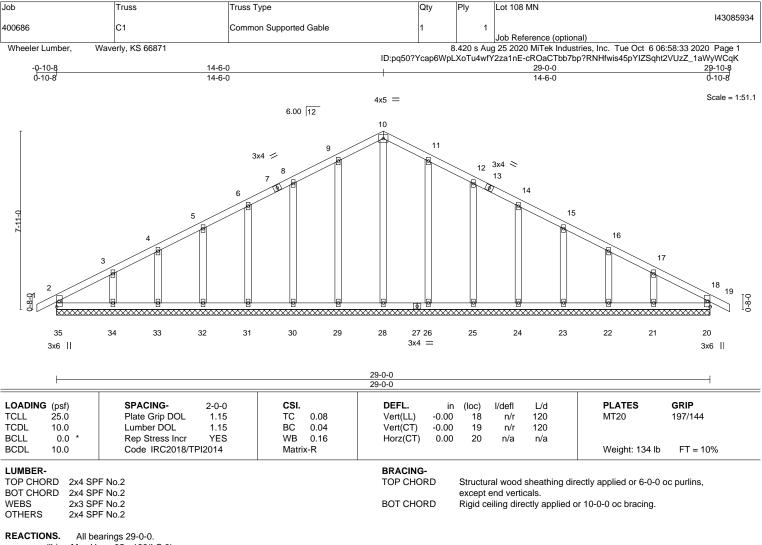
16023 Swingley Ridge Rd Chesterfield, MO 63017



- 2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 3) Gable requires continuous bottom chord bearing.
- 4) Gable studs spaced at 2-0-0 oc.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6, 2, 7, 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.





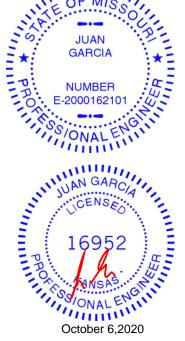


- Max Horz 35=-122(LC 9) (lb) -
 - Max Uplift All uplift 100 lb or less at joint(s) 35, 20, 29, 30, 31, 32, 33, 34, 26, 25, 24, 23, 22, 21 Max Grav All reactions 250 lb or less at joint(s) 35, 20, 28, 29, 30, 31, 32, 33, 34, 26, 25, 24, 23, 22, 21

FORCES. (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) 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=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) All plates are 2x4 MT20 unless otherwise indicated.
- 5) Gable requires continuous bottom chord bearing.
- 6) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 7) Gable studs spaced at 2-0-0 oc.
- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads. 9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide
- will fit between the bottom chord and any other members.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 35, 20, 29, 30, 31, 32, 33, 34, 26, 25, 24, 23, 22, 21,
- 11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

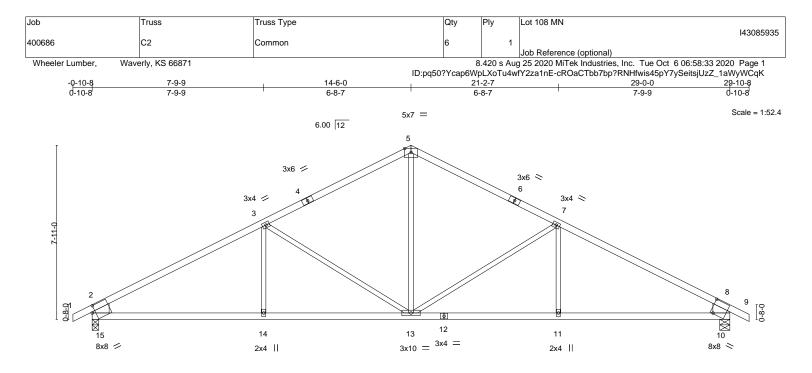


ALLIN

OF MIS

6

MiTek 16023 Swingley Ridge Rd Chesterfield, MO 63017



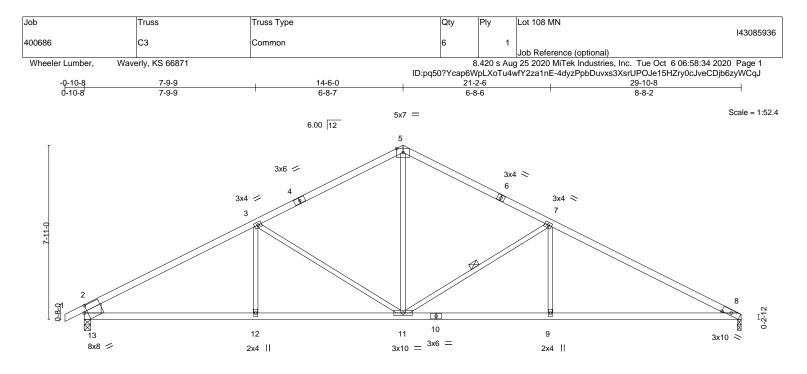
—	7-9-9	<u> </u>	21-2		<u> </u>	
Plate Offsets (X,Y)	[10:0-1-8,0-7-10], [15:0-1-13,0-3-8]	0-0-7	0-0-	-1	7-9-9	
LOADING (psf) TCLL 25.0 TCDL 10.0 BCLL 0.0 BCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2018/TPI2014	CSI. TC 0.82 BC 0.81 WB 0.91 Matrix-S	DEFL. in Vert(LL) -0.18 1 Vert(CT) -0.35 1 Horz(CT) 0.08 Wind(LL) 0.10 1	3-14 >975 240 10 n/a n/a	MT20 1	RIP 97/144 FT = 10%
BOT CHORD 2x4 SF WEBS 2x3 SF	PF 2100F 1.8E PF No.2 PF No.2 *Except* -10: 2x10 SP DSS		e	Structural wood sheathing except end verticals. Rigid ceiling directly applied	directly applied or 3-9-12 oc	purlins,
Max H Max U Max G	e) 15=0-3-8, 10=0-5-8 lorz 15=-120(LC 6) lplift 15=-186(LC 8), 10=-186(LC 9) Grav 15=1359(LC 1), 10=1359(LC 1)				OF MI	
TOP CHORD 2-3=-	Comp./Max. Ten All forces 250 (lb) o -2002/246, 3-5=-1456/229, 5-7=-1456/2 =-1252/230		/230,		NATE	0,0
	5=-232/1657, 13-14=-232/1657, 11-13= =-63/735, 7-13=-586/227, 7-11=0/261, 3					A
 2) Wind: ASCE 7-16; W MWFRS (envelope) grip DOL=1.60 3) This truss has been 4) * This truss has bee will fit between the b 	e loads have been considered for this d /ult=115mph (3-second gust) Vasd=91r gable end zone; cantilever left and righ designed for a 10.0 psf bottom chord lin in designed for a live load of 20.0psf on pottom chord and any other members. connection (by others) of truss to beari	nph; TCDL=6.0psf; BCDL=6.0ps t exposed ; end vertical left and ve load nonconcurrent with any the bottom chord in all areas wi	right exposed; Lumb other live loads. here a rectangle 3-6-0	er DOL=1.60 plate 0 tall by 2-0-0 wide	P NUMBE E-2000162	• 41.

5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 15=186, 10=186.

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.



16023 Swingley Ridge Rd Chesterfield, MO 63017



	7-9-9	14-6-0	21-		29-10-8	
	7-9-9	6-8-7	6-8	3-6	8-8-2	I
Plate Offsets (X,Y)	[8:0-5-0,0-1-7], [13:0-1-13,0-3-8]	T			1	
LOADING (psf) TCLL 25.0	SPACING- 2-0-0 Plate Grip DOL 1.15	CSI. TC 0.89	DEFL. in Vert(LL) -0.18	()	/d PLATES 60 MT20	GRIP 197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.87	Vert(CT) -0.42		40	101/111
BCLL 0.0 *	Rep Stress Incr YES	WB 0.91	Horz(CT) 0.09		n/a	
BCDL 10.0	Code IRC2018/TPI2014	Matrix-S	Wind(LL) 0.11	8-9 >999 24	40 Weight: 100 lb	FT = 10%
BOT CHORD 2x4 SP WEBS 2x3 SP	PF 2100F 1.8E PF No.2 PF No.2 *Except* x10 SP DSS		BRACING- TOP CHORD BOT CHORD WEBS		athing directly applied, except e applied or 10-0-0 oc bracing. 7-11	end verticals.
Max H Max U	e) 13=0-3-8, 8=0-2-0 (req. 0-2-1) orz 13=126(LC 12) plift 13=-189(LC 8), 8=-170(LC 9) rav 13=1413(LC 1), 8=1321(LC 1)					90.
FORCES. (lb) - Max.	Comp./Max. Ten All forces 250 (lb) o	r less except when shown.			NE OF	MISS
	2111/251, 3-5=-1561/244, 5-7=-1581/2		304/233			
	3=-246/1752, 11-12=-246/1752, 9-11=-1	,				
WEBS 3-12=	=0/265, 3-11=-588/226, 5-11=-89/883, 7	7-11=-873/270, 7-9=0/348			JUA	
NOTES-					GAR	
	e loads have been considered for this de	esign.			= 4	· · · · · · · · · · · · · · · · · · ·
MWFRS (envelope)	'ult=115mph (3-second gust) Vasd=91n gable end zone; cantilever left and righ				E-20001	• 41.
grip DOL=1.60	designed for a 10.0 psf bottom chord liv	in load papeopourrant with a	ny other live leads			

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

4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.

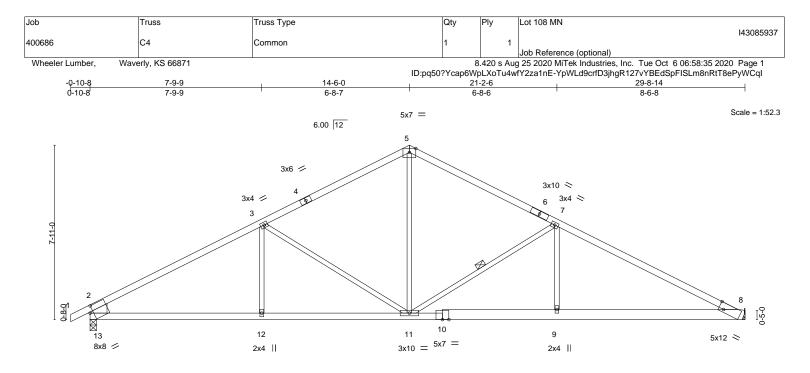
5) WARNING: Required bearing size at joint(s) 8 greater than input bearing size.

 Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 13=189, 8=170.

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.







—	7-9-9	<u>14-6-0</u> 6-8-7		1-2-6	<u> </u>			
Plate Offsets (X,Y)	[8:0-2-11,Edge], [13:0-1-13,0-3-8]	6-8-7	t t	0-8-0	8-0-8			
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 YES Code IRC2018/TPI2014	CSI. TC 0.86 BC 0.86 WB 0.92 Matrix-S	Vert(LL) -0.17 Vert(CT) -0.34 Horz(CT) 0.07	n (loc) l/defl L/d 7 11-12 >999 360 4 11-12 >999 240 7 8 n/a n/a 7 11-12 >999 240	PLATES MT20 Weight: 108 lb	GRIP 197/144 FT = 10%		
BRACING- TOP CHORD 2x4 SPF 2100F 1.8E BOT CHORD 2x4 SPF No.2 *Except* 8-10: 2x6 SPF No.2 BOT CHORD 2x3 SPF No.2 *Except* BOT CHORD 2-13: 2x10 SP DSS Structural wood sheathing directly applied or 2-4-4 oc purlins, except end verticals.								
REACTIONS. (size) 13=0-3-8, 8=Mechanical Max Horz 13=-95(LC 6) Max Uplift 13=-27(LC 8), 8=-19(LC 9) Max Grav 13=1408(LC 1), 8=1316(LC 1)								
TOP CHORD 2-3= BOT CHORD 12-1	BOT CHORD 12-13=-32/1743, 11-12=-32/1743, 9-11=0/2025, 8-9=0/2023							
 2) Wind: ASCE 7-16; \ MWFRS (envelope) 3) This truss has been 	e loads have been considered for this de /ult=115mph (3-second gust) Vasd=91n ; cantilever left and right exposed ; end designed for a 10.0 psf bottom chord liven designed for a live load of 20.0psf on	nph; TCDL=6.0psf; BCDL= vertical left and right expos ve load nonconcurrent with	ed; Lumber DOL=1.60 any other live loads.	plate grip DOL=1.60	PP. NUM E-2000	• 41.		

will fit between the bottom chord and any other members.

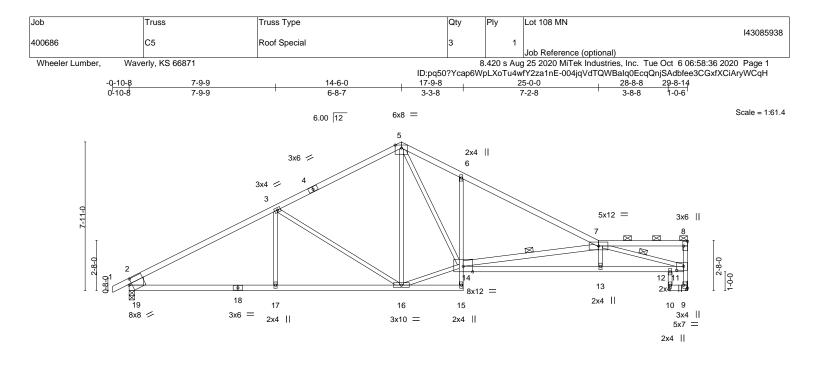
5) Refer to girder(s) for truss to truss connections.

6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 13, 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.



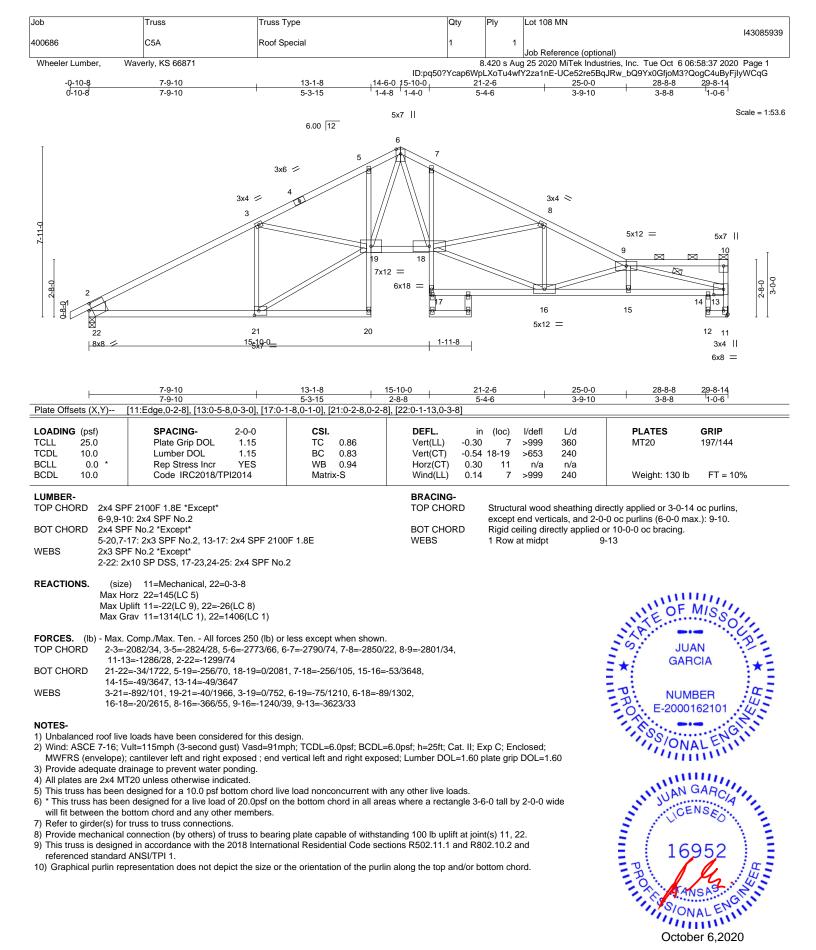




	7-9-9	14-6-0 6-8-7	17-9-8	25-0-0 7-2-8	28-8-8 29-8-14				
Plate Offsets (X,Y) [8:Edge,0-2-8], [9:Edge,0-2-8], [11:0-4-8,0-2-8], [19:0-1-13,0-3-8]									
LOADING (psf) TCLL 25.0 TCDL 10.0 BCLL 0.0 BCDL 10.0	SPACING-2-0-0Plate Grip DOL1.15Lumber DOL1.15Rep Stress IncrYESCode IRC2018/TPI2014	CSI. TC 0.86 BC 0.86 WB 0.99 Matrix-S	Vert(LL) -0.28 Vert(CT) -0.57 Horz(CT) 0.21	n (loc) I/defl L/d 13-14 >999 360 13-14 >612 240 9 n/a n/a 13-14 >999 240	PLATES MT20 Weight: 119 lb	GRIP 197/144 FT = 10%			
7-8: 2x BOT CHORD 2x4 SF 6-15: 2 WEBS 2x3 SF	2F 2100F 1.8E *Except* 4 SPF No.2 2F No.2 *Except* 2X3 SPF No.2, 11-14: 2x4 SPF 2100F 1.8 2F No.2 *Except* 2x4 SPF No.2, 2-19: 2x10 SP DSS	3E	BRACING- TOP CHORD BOT CHORD WEBS	except end verticals, and	ng directly applied or 3-1-0 d 2-0-0 oc purlins (6-0-0 m olied or 10-0-0 oc bracing, 7-14, 7-11	ax.): 7-8.			
Max H Max U	e) 9=Mechanical, 19=0-3-8 lorz 19=145(LC 5) plift 9=-22(LC 9), 19=-26(LC 8) rav 9=1314(LC 1), 19=1406(LC 1)				INTE OF	MISSO			
FORCES. (lb) - Max. Comp./Max. Ten All forces 250 (lb) or less except when shown. TOP CHORD 2-3=-2097/36, 3-5=-1548/65, 5-6=-2196/122, 6-7=-2249/37, 9-11=-1288/28, 2-19=-1297/72 BOT CHORD 17-19=-37/1741, 16-17=-37/1741, 6-14=-460/157, 13-14=-49/3758, 12-13=-42/3763, 4-14=-42/376									
WEBS 3-17=	11-12=-42/3763 3-17=0/266, 3-16=-585/112, 14-16=0/1355, 5-14=-103/1416, 7-14=-1867/66, 7-11=-3768/23								
 Wind: ASCE 7-16; V MWFRS (envelope) Provide adequate dr This truss has been This truss has been This truss has bee Refer to girder(s) for Provide mechanical This truss is designer referenced standard 	a loads have been considered for this de /ult=115mph (3-second gust) Vasd=91m ; cantilever left and right exposed ; end v rainage to prevent water ponding. designed for a 10.0 psf bottom chord liv n designed for a live load of 20.0psf on t bottom chord and any other members. r truss to truss connections. connection (by others) of truss to bearin ed in accordance with the 2018 Internation I ANSI/TPI 1. resentation does not depict the size or th	ph; TCDL=6.0psf; BCDL= ertical left and right expose e load nonconcurrent with he bottom chord in all are g plate capable of withsta anal Residential Code sec	sed; Lumber DOL=1.60 n any other live loads. nas where a rectangle 3- anding 100 lb uplift at join ctions R502.11.1 and R8	Exp C; Enclosed; plate grip DOL=1.60 6-0 tall by 2-0-0 wide ht(s) 9, 19. 02.10.2 and ttom chord.	PROFILE SOLO	ALENGIN BARCIA 952 WALENGIN VALENGIN			

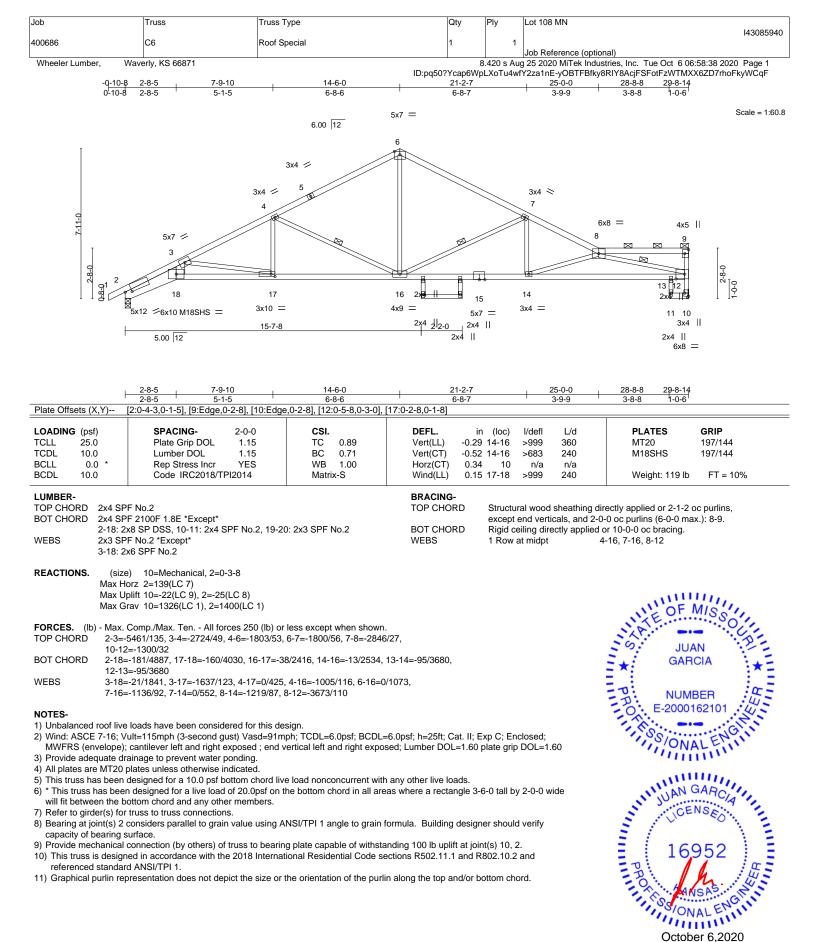
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

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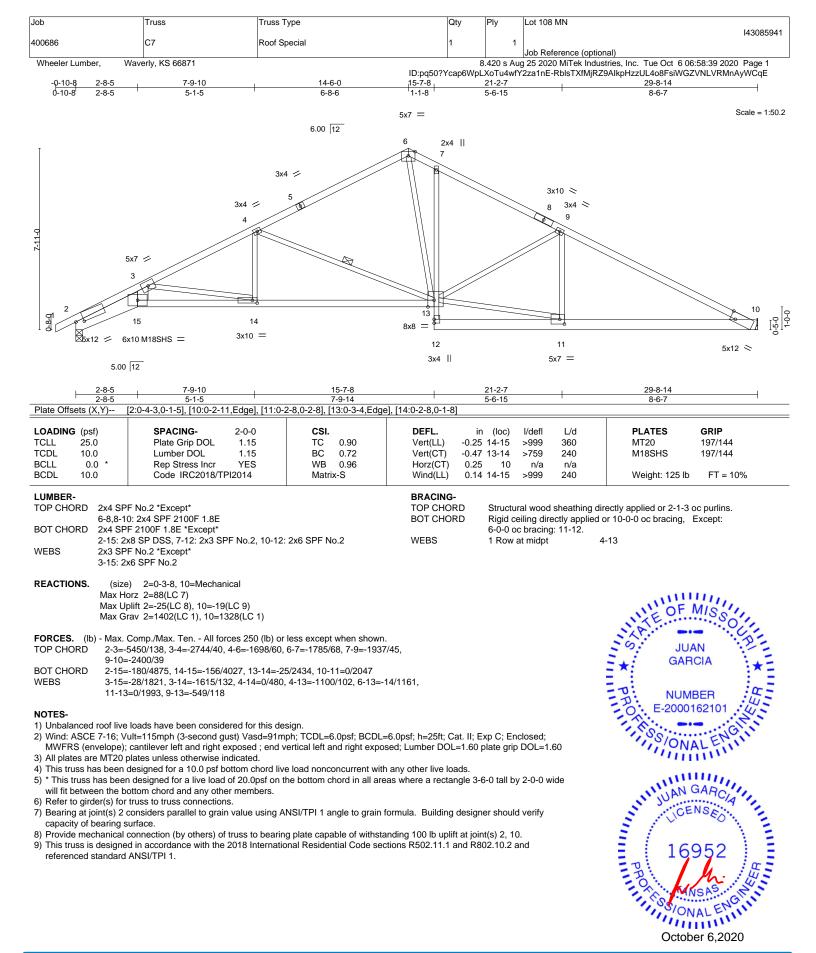
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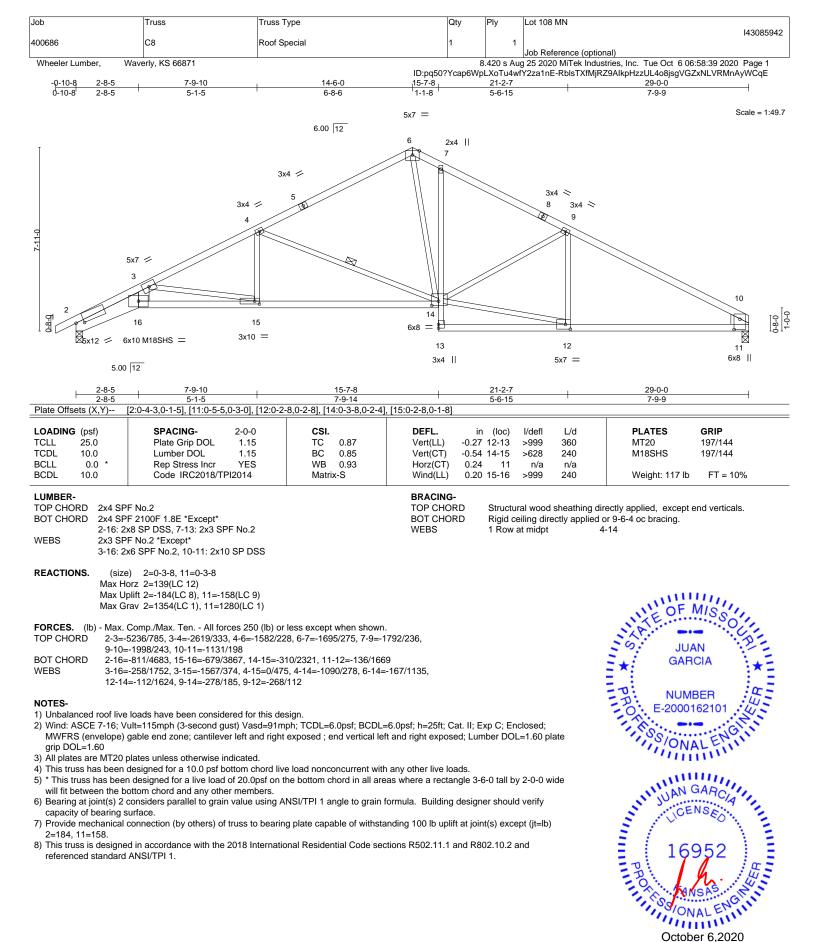
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October 6,2020

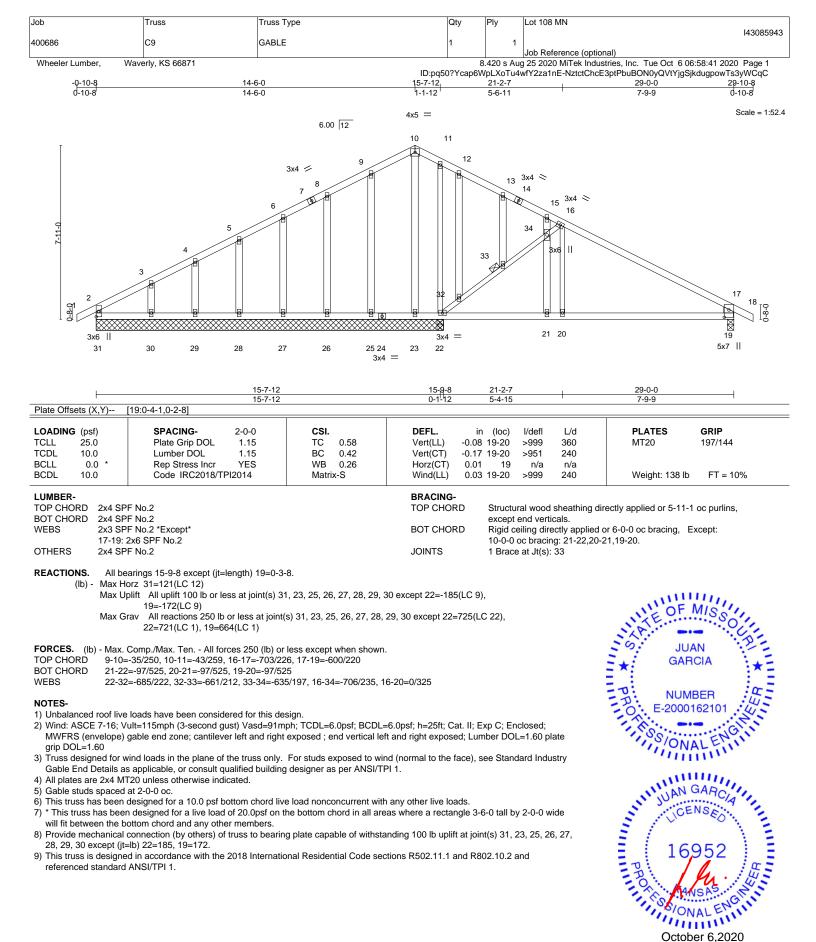




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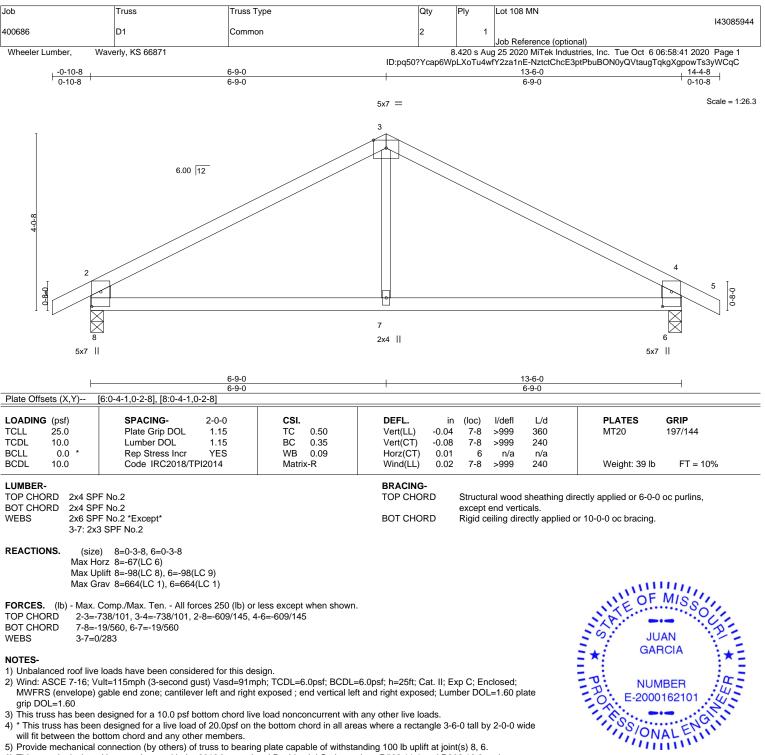


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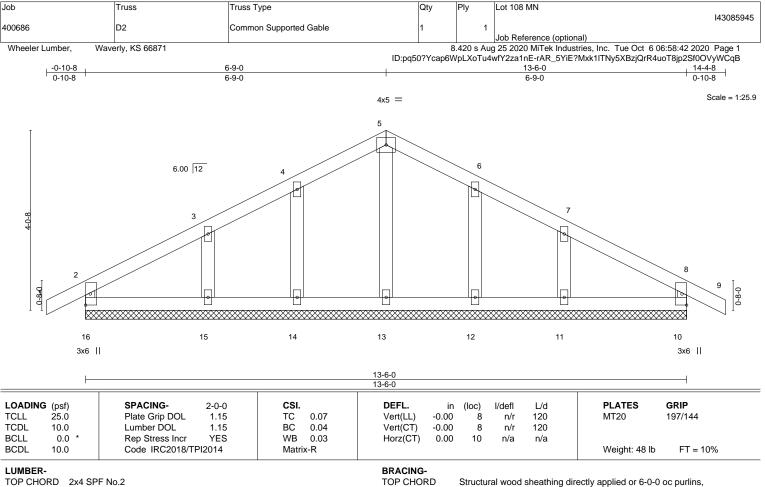


6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



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16023 Swingley Ridge Rd Chesterfield, MO 63017



BOT CHORD

except end verticals.

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

BOT CHORD 2x4 SPF No.2 WFBS 2x3 SPF No.2 OTHERS 2x4 SPF No.2

REACTIONS. All bearings 13-6-0.

(lb) -Max Horz 16=-65(LC 6)

- Max Uplift All uplift 100 lb or less at joint(s) 16, 10, 14, 15, 12, 11
- Max Grav All reactions 250 lb or less at joint(s) 16, 10, 13, 14, 15, 12, 11

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

NOTES-

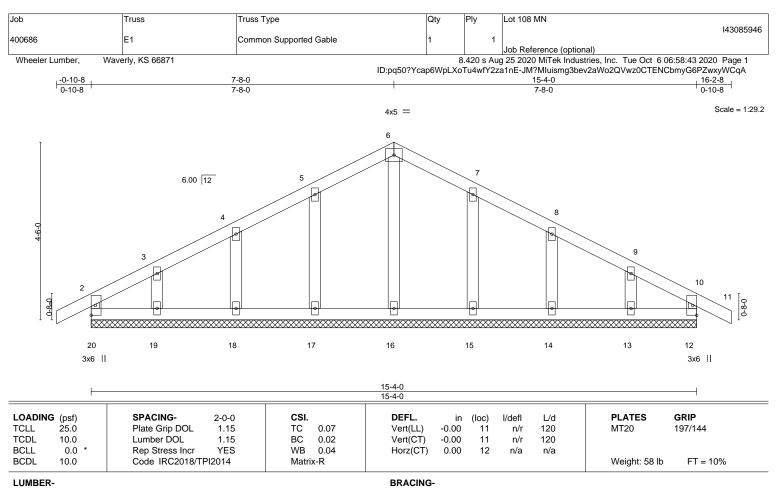
- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) All plates are 2x4 MT20 unless otherwise indicated.
- 5) Gable requires continuous bottom chord bearing.
- 6) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 7) Gable studs spaced at 2-0-0 oc.
- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide
- will fit between the bottom chord and any other members.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 16, 10, 14, 15, 12.11.
- 11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



ALLIN

October 6,2020





TOP CHORD

BOT CHORD

LUMBER-

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

REACTIONS. All bearings 15-4-0.

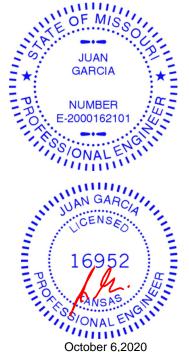
Max Horz 20=-71(LC 6) (lb) -

- Max Uplift All uplift 100 lb or less at joint(s) 20, 12, 17, 18, 19, 15, 14, 13
- Max Grav All reactions 250 lb or less at joint(s) 20, 12, 16, 17, 18, 19, 15, 14, 13

FORCES. (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) 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=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) All plates are 2x4 MT20 unless otherwise indicated.
- 5) Gable requires continuous bottom chord bearing.
- 6) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 7) Gable studs spaced at 2-0-0 oc.
- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide
- will fit between the bottom chord and any other members. 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 20, 12, 17, 18, 19. 15. 14. 13.
- 11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



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

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

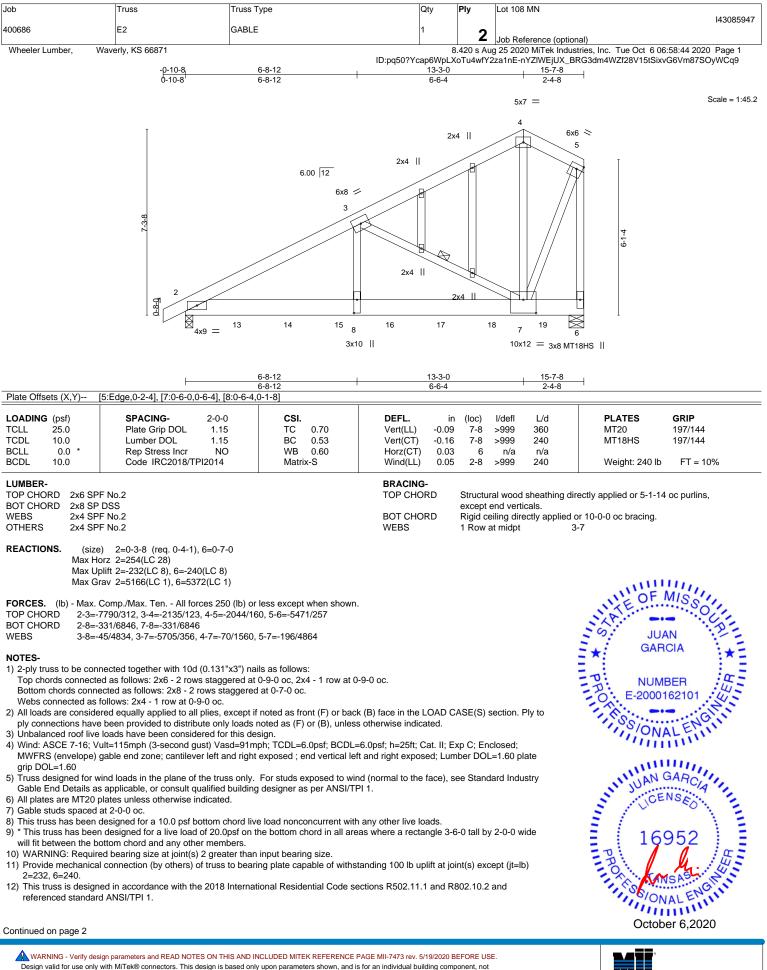
except end verticals.

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 Satisfies
 Ansi/TPH Qu

 Safety Information
 available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



October 6,2020



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16023 Swingley Ridge Rd Chesterfield, MO 63017

MiTek

Job	Truss	Truss Type	Qty	y I	Ply	Lot 108 MN
400686	E2	GABLE	1		~	143085947
100000		0.022			2	Job Reference (optional)
Wheeler Lumber,	Vaverly, KS 66871	8.420 s Aug 25 2020 MiTek Industries, Inc. Tue Oct 6 06:58:44 2020 Page 2				
		ID:pq50?Ycap6WpLXoTu4wfY2za1nE-nYZIWEjUX_BRG3dm4WZf28V15tSixvG6Vm87SOyWCq9				

NOTES-

13) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1308 lb down and 39 lb up at 2-0-12, 1306 lb down and 42 lb up at 4-0-12, 1294 lb down and 42 lb up at 6-0-12, 1294 lb down and 42 lb up at 10-0-12, and 1294 lb down and 42 lb up at 12-0-12, and 1296 lb down and 39 lb up at 14-0-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

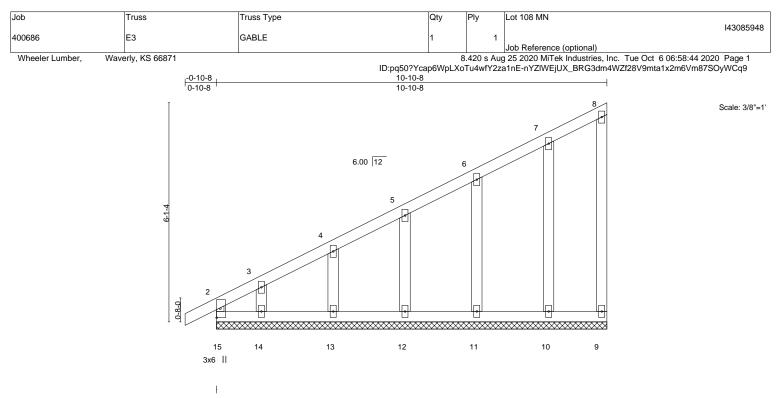
1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf) Vert: 1-4=-70, 4-5=-70, 2-6=-20

Concentrated Loads (lb)

Vert: 13=-1308(F) 14=-1306(F) 15=-1294(F) 16=-1294(F) 17=-1294(F) 18=-1294(F) 19=-1296(F)





LUMBER-				BRACING- TOP CHOR		Ctructu	rol wood	abaathing di	rectly applied or 6-0-0	oo purling
3CDL 10.0	Code IRC2018/TPI20	014 Mati	ix-R						Weight: 50 lb	FT = 10%
BCLL 0.0 *	Rep Stress Incr	YES WB	0.06	Horz(CT)	-0.00	9	n/a	n/a		
TCDL 10.0	Lumber DOL	1.15 BC	0.06	Vert(CT)	-0.00	1	n/r	120		
TCLL 25.0	Plate Grip DOL	1.15 TC	0.14	Vert(LL)	0.00	2	n/r	120	MT20	197/144
LOADING (psf)	SPACING- 2	2-0-0 CSI .		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP

TOP CHORD	ZX4 SPF NO.Z
BOT CHORD	2x4 SPF No.2
WEBS	2x3 SPF No.2 *Except*
	8-9: 2x4 SPF No.2
OTHERS	2x4 SPF No.2

BRACING-TOP CHORD BOT CHORD

Structural wood sneatning directly applied or 6-0-0 oc purifies except end verticals. Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 10-10-8.

(lb) - Max Horz 15=246(LC 5)

Max Uplift All uplift 100 lb or less at joint(s) 15, 9, 10, 11, 12, 13 except 14=-112(LC 8) Max Grav All reactions 250 lb or less at joint(s) 15, 9, 10, 11, 12, 13, 14

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

NOTES-

 Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60

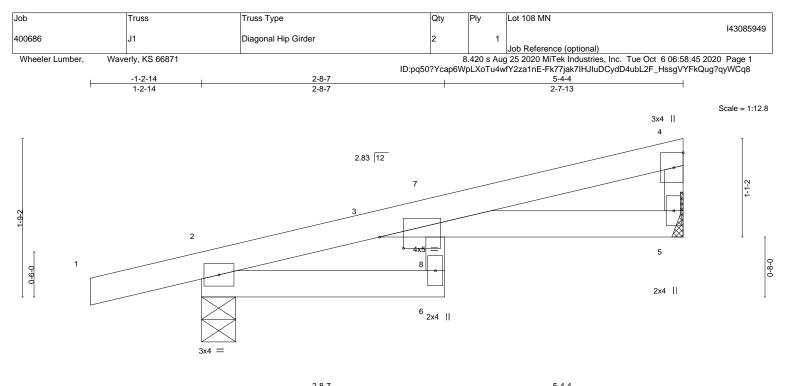
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.

- 3) All plates are 2x4 MT20 unless otherwise indicated.
- 4) Gable requires continuous bottom chord bearing.
- 5) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 6) Gable studs spaced at 2-0-0 oc.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 15, 9, 10, 11, 12, 13 except (jt=lb) 14=112.
- 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



October 6,2020





	L		2-8-7		I	5-4-4			
			2-8-7			2-7-13			
Plate Offsets (X,Y)	3:0-3-3,0-1-8]								
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 0.50	Vert(LL)	-0.06 6 >944	360	MT20	197/144	

Vert(CT)

Horz(CT)

Wind(LL)

BRACING-

TOP CHORD

BOT CHORD

-0.13

0.04

0.06

6 >475

5

6 >999

n/a

except end verticals

240

n/a

240

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

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

Weight: 15 lb

FT = 10%

LUMBER-	
---------	--

TCDL

BCLL

BCDL

TOP CHORD2x4 SPF No.2BOT CHORD2x4 SPF No.2WEBS2x3 SPF No.2

10.0

10.0

0.0

REACTIONS. (size) 5=Mechanical, 2=0-4-9 Max Horz 2=52(LC 5)

Max Holz 2=52(LC 3)Max Uplift 5=-40(LC 8), 2=-102(LC 4)Max Grav 5=219(LC 1), 2=349(LC 1)

Lumber DOL

Rep Stress Incr

Code IRC2018/TPI2014

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

NOTES-

 Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60

BC

WB

Matrix-S

0.28

0.02

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

1.15

NO

- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 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) 5 except (jt=lb) 2=102.
- 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) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 67 lb down and 31 lb up at 2-7-6, and 67 lb down and 31 lb up at 2-7-6 on top chord, and 0 lb down at 2-7-3, and 0 lb down at 2-7-3 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

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

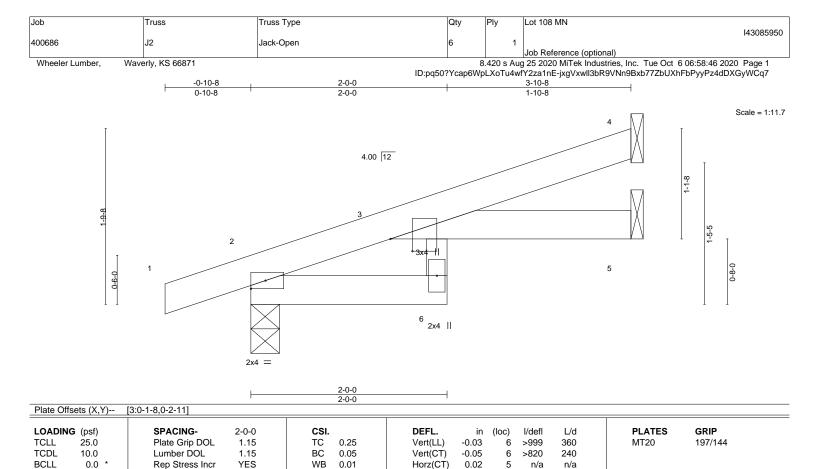
LOAD CASE(S) Standard

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

Uniform Loads (plf) Vert: 1-4=-70, 2-6=-20, 3-5=-20



16023 Swingley Ridge Rd Chesterfield, MO 63017



Wind(LL)

BRACING-

TOP CHORD

BOT CHORD

0.03

6 >999

240

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

Structural wood sheathing directly applied or 3-10-8 oc purlins.

Weight: 11 lb

11111

0

MIS

FT = 10%

LUMBER-
TOP CHORD

BCDL

TOP CHORD2x4 SPF No.2BOT CHORD2x4 SPF No.2WEBS2x3 SPF No.2

10.0

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

Max Horz 2=65(LC 4)

Max Uplift 4=-52(LC 8), 2=-65(LC 4)

Max Grav 4=135(LC 1), 2=252(LC 1), 5=48(LC 3)

Code IRC2018/TPI2014

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

NOTES-

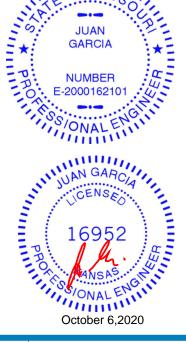
 Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60

Matrix-P

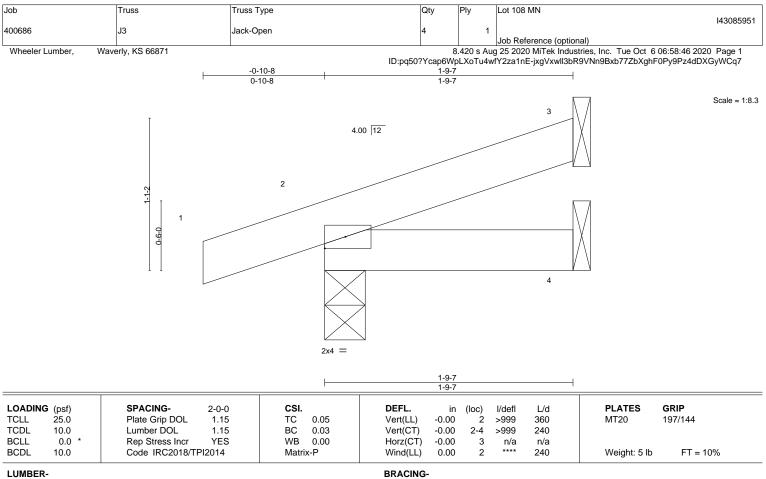
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.

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) 4, 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.



16023 Swingley Ridge Rd Chesterfield, MO 63017



TOP CHORD

BOT CHORD

LUMBER-

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

REACTIONS.

3=Mechanical, 2=0-3-8, 4=Mechanical (size) Max Horz 2=37(LC 4)

Max Uplift 3=-27(LC 8), 2=-56(LC 4)

Max Grav 3=45(LC 1), 2=158(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=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; 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) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 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) 3, 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.

The American JUAN GARCIA NUMBER F -2000162101 PROPERTY IN GARON MUNUTI I JOIT mini October 6,2020

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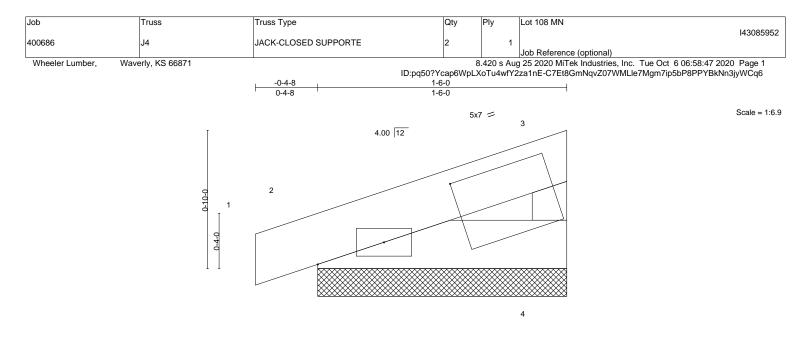
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MIS

Structural wood sheathing directly applied or 1-9-7 oc purlins.

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

MiTek 16023 Swingley Ridge Rd Chesterfield, MO 63017



2x4 =

ł

Plate Offsets (X,Y)-- [3:0-10-14,0-2-8]

CADING (psf) CLL 25.0 CDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING-2-0-0Plate Grip DOL1.15Lumber DOL1.15Rep Stress IncrYESCodeIRC2018/TPI2014	CSI. TC 0.03 BC 0.02 WB 0.00 Matrix-P	DEFL. in Vert(LL) -0.00 Vert(CT) 0.00 Horz(CT) -0.00	1	l/defl n/r n/r n/a	L/d 120 120 n/a	PLATES MT20 Weight: 4 lb	GRIP 197/144 FT = 10%
LUMBER- TOP CHORD 2x4 SF	' 'F No.2		BRACING- TOP CHORD	Structu	ral wood	sheathing di	rectly applied or 1-6	-0 oc purlins,

BOT CHORD

except end verticals.

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

TOP CHORD2x4 SPF No.2BOT CHORD2x4 SPF No.2WEBS2x3 SPF No.2

REACTIONS. (size) 4=1-6-0, 2=1-6-0

Max Horz 2=24(LC 5) Max Uplift 4=-12(LC 8), 2=-28(LC 4) Max Grav 4=59(LC 1), 2=93(LC 1)

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

NOTES-

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 3) Gable requires continuous bottom chord bearing.
- 4) Gable studs spaced at 2-0-0 oc.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 2.
- 8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

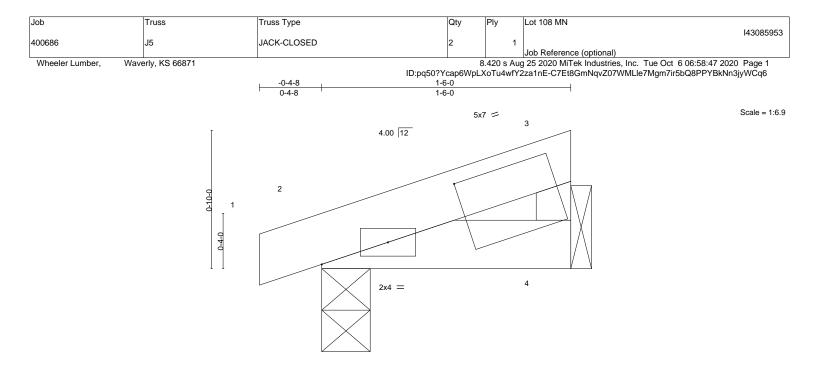


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0

MIS

16023 Swingley Ridge Rd Chesterfield, MO 63017



1-6-0

in (loc)

-0.00

-0.00

-0.00

0.00

l/defl

n/a ****

except end verticals

2 >999

2 >999

4

2

L/d

360

240

n/a

240

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

DEFL.

Vert(LL)

Vert(CT)

Horz(CT)

Wind(LL)

BRACING-

TOP CHORD

BOT CHORD

WEBS 2x3 SPF No.2 **REACTIONS.** (size) 4=Mechanical, 2=0-3-8

2x4 SPF No.2

2x4 SPF No.2

Plate Offsets (X,Y)-- [3:0-10-14,0-2-8]

LOADING (psf)

25.0

10.0

10.0

0.0

TCLL

TCDL

BCLL

BCDL

LUMBER-

TOP CHORD

BOT CHORD

Max Horz 2=24(LC 5) Max Uplift 4=-12(LC 8), 2=-30(LC 4)

Max Uplift 4=-12(LC 8), 2=-30(LC 4) Max Grav 4=57(LC 1), 2=94(LC 1)

SPACING-

Plate Grip DOL

Rep Stress Incr

Code IRC2018/TPI2014

Lumber DOL

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

NOTES-

 Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60

CSI.

тс

BC

WB

Matrix-P

0.02

0.02

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

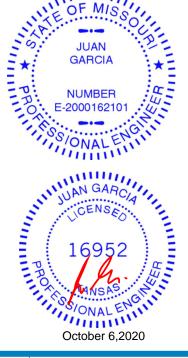
1.15

YES

3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.

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) 4, 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.



PLATES

Weight: 4 lb

MT20

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

GRIP

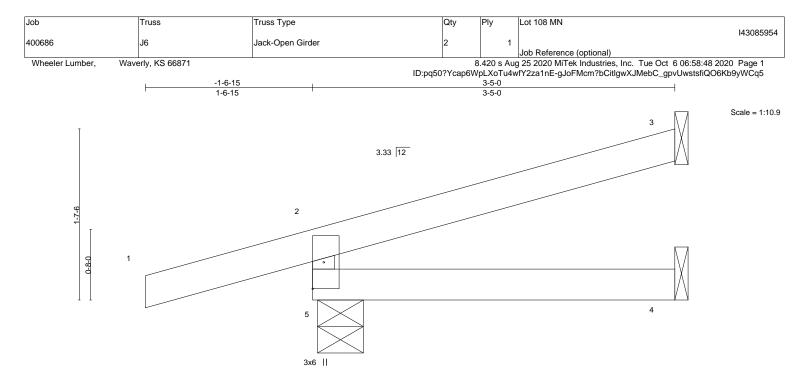
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197/144

FT = 10%

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSITPTI Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

16023 Swingley Ridge Rd Chesterfield, MO 63017



						3-4-7						
LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.26	Vert(LL)	-0.01	`4-Ś	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.07	Vert(CT)	-0.01	4-5	>999	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.00	Horz(CT)	-0.00	3	n/a	n/a		
BCDL	10.0	Code IRC2018/T	PI2014	Matri	x-R	Wind(LL)	0.00	4-5	>999	240	Weight: 10 lb	FT = 10%

LUMBER-

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

2x3 SPF No.2

BRACING-TOP CHORD BOT CHORD 3-5-0

Structural wood sheathing directly applied or 3-5-0 oc purlins, except end verticals. Rigid ceiling directly applied or 10-0-0 oc bracing.

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

Max Horz 5=58(LC 12)

Max Uplift 5=-83(LC 4), 3=-53(LC 12), 4=-2(LC 19) Max Grav 5=176(LC 1), 3=38(LC 1), 4=45(LC 3)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; 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) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 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) 5, 3, 4.
- 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) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 39 lb down and 14 lb up at -1-6-15, and 39 lb down and 14 lb up at -1-6-15 on top chord. The design/selection of such connection device(s) is the responsibility of others.

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

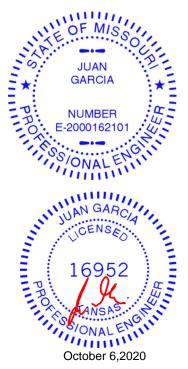
1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15

Concentrated Loads (lb)

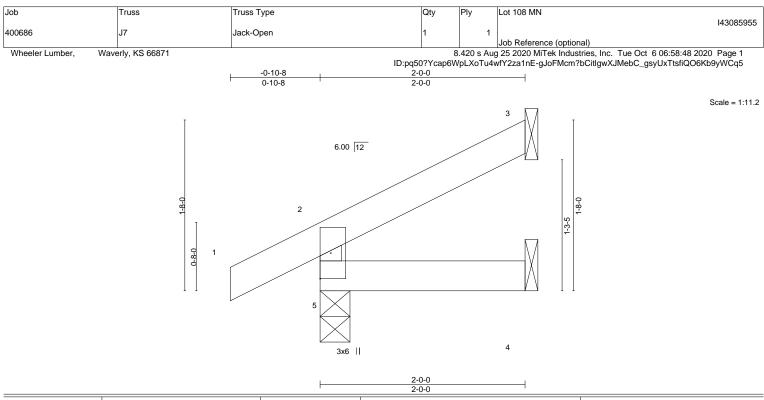
Vert: 1=-60(F=-30, B=-30)

Trapezoidal Loads (plf)

Vert: 1=0(F=35, B=35)-to-2=-42(F=14, B=14), 2=-2(F=34, B=34)-to-3=-60(F=5, B=5), 5=-0(F=10, B=10)-to-4=-17(F=1, B=1)







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 0.07 Vert(LL)	-0.00 5	>999	360	MT20	197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.03 Vert(CT)	-0.00 4-5	>999	240		
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-R Wind(LL	0.00 5	>999	240	Weight: 6 lb	FT = 10%

LUMBER-

TOP CHORD2x4 SPF No.2BOT CHORD2x4 SPF No.2WEBS2x3 SPF No.2

WEBS 2x3 SPF No.2

BRACING-TOP CHORD

Structural wood sheathing directly applied or 2-0-0 oc purlins, except end verticals. Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 5=0-3-8, 3=Mechanical, 4=Mechanical Max Horz 5=50(LC 8)

Max Uplift 5=-25(LC 8), 3=-33(LC 8)

Max Grav 5=171(LC 1), 3=50(LC 1), 4=35(LC 3)

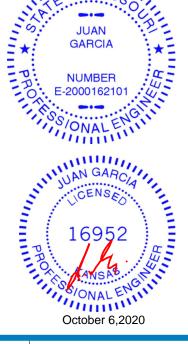
FORCES. (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) or less except when shown.

NOTES-

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; 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) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.

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

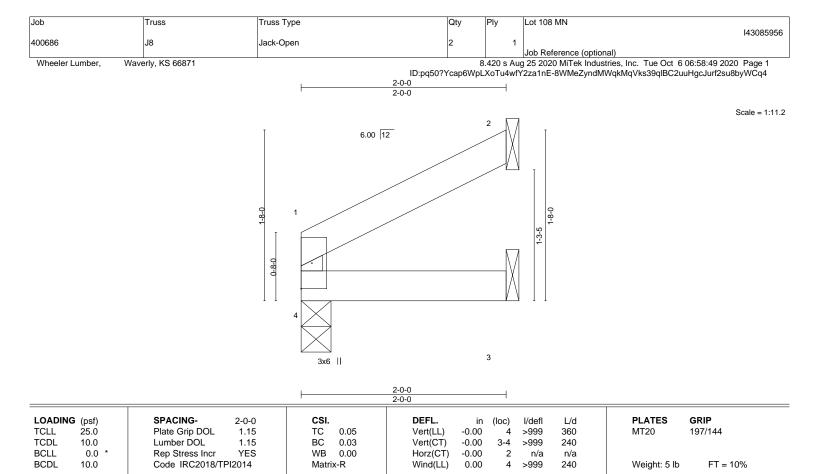
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 3.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



FMIS

0





BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

WFBS 2x3 SPF No.2

REACTIONS. (size) 4=0-3-8, 2=Mechanical, 3=Mechanical Max Horz 4=33(LC 8) Max Uplift 2=-37(LC 8)

Max Grav 4=85(LC 1), 2=62(LC 1), 3=37(LC 3)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; 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) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.

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) 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.

Wint PROM JUAN GARCIA NUMBER F -2000162101 160 JGIT mini October 6,2020

MIS

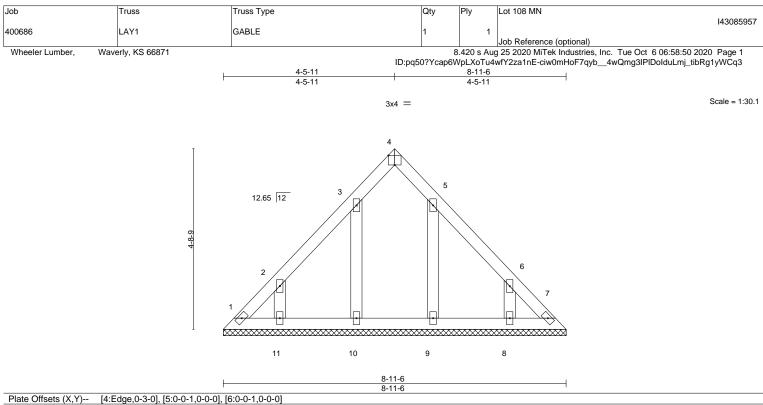
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Structural wood sheathing directly applied or 2-0-0 oc purlins,

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

except end verticals.





LOADING (psf) TCLL 25.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING-2-0-0Plate Grip DOL1.15Lumber DOL1.15Rep Stress IncrYESCodeIRC2018/TPI2014	CSI. TC 0.04 BC 0.03 WB 0.03 Matrix-P	DEFL. Vert(LL) Vert(CT) Horz(CT)	in n/a n/a 0.00	(loc) - - 7	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20 Weight: 33 lb	GRIP 197/144 FT = 10%
LUMBER-			BRACING-						

TOP CHORD

BOT CHORD

LUMBER-

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

REACTIONS. All bearings 8-11-6.

(lb) -Max Horz 1=-116(LC 4)

Max Uplift All uplift 100 lb or less at joint(s) 1, 7, 10, 9 except 11=-121(LC 8), 8=-122(LC 9) Max Grav All reactions 250 lb or less at joint(s) 1, 7, 11, 10, 9, 8

FORCES. (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) 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=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60

3) All plates are 2x4 MT20 unless otherwise indicated.

4) Gable requires continuous bottom chord bearing.

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

6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide

will fit between the bottom chord and any other members.

7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 7, 10, 9 except (jt=lb) 11=121, 8=122.

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



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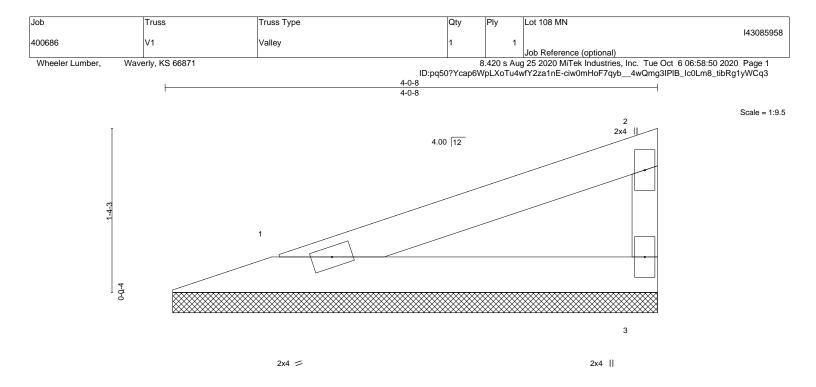
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Structural wood sheathing directly applied or 6-0-0 oc purlins.

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

October 6,2020

MiTek 16023 Swingley Ridge Rd Chesterfield, MO 63017



L OADING (psf) TCLL 25.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING-2-0-0Plate Grip DOL1.15Lumber DOL1.15Rep Stress IncrYESCode IRC2018/TPI2014	CSI. TC 0.16 BC 0.09 WB 0.00 Matrix-P	DEFL. Vert(LL) n/ Vert(CT) n/ Horz(CT) -0.0	a -	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES GRIP MT20 197/144 Weight: 9 lb FT = 10%
LUMBER- TOP CHORD 2x4 SP BOT CHORD 2x4 SP			BRACING- TOP CHORD		ural wood t end verti	•	rectly applied or 4-0-8 oc purlins,

BOT CHORD

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

REACTIONS. (size) 1=3-11-12, 3=3-11-12 Max Horz 1=45(LC 5) Max Uplift 1=-22(LC 4), 3=-29(LC 8) Max Grav 1=135(LC 1), 3=135(LC 1)

2x3 SPF No.2

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

NOTES-

WEBS

 Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; 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.

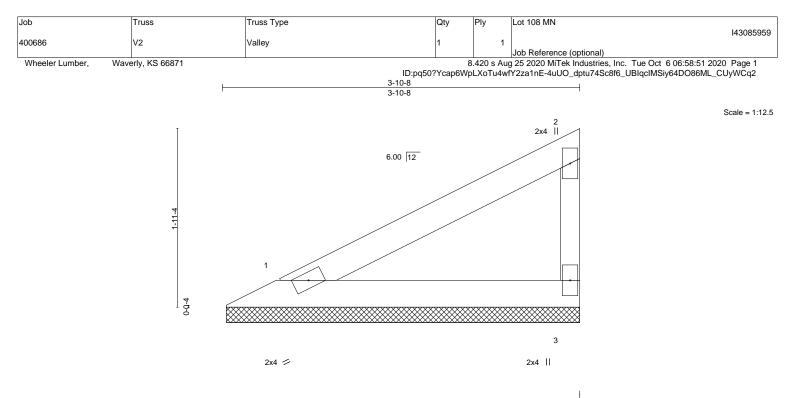
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 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.



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OADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL 1.15	TC 0.18	Vert(LL) n/a	-	n/a	999	MT20	197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.10	Vert(CT) n/a	-	n/a	999		
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-P					Weight: 10 lb	FT = 10%

TOP CHORD

BOT CHORD

LUMBER-TOP CHORD 2x4 SPF No.2

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

REACTIONS. (size) 1=3-10-0, 3=3-10-0 Max Horz 1=66(LC 5) Max Uplift 1=-18(LC 8), 3=-35(LC 8) Max Grav 1=141(LC 1), 3=141(LC 1)

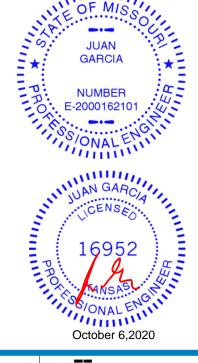
FORCES. (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) or less except when shown.

NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; 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) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 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.



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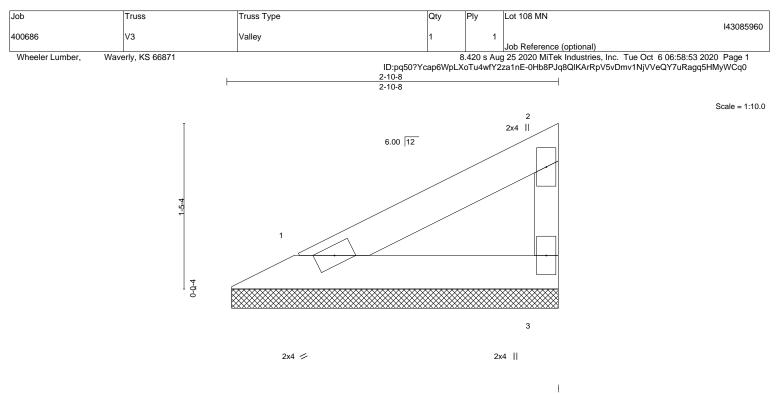
MiTek 16023 Swingley Ridge Rd Chesterfield, MO 63017

Structural wood sheathing directly applied or 3-10-8 oc purlins,

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

except end verticals.





LOADING (psf) TCLL 25.0 TCDL 10.0 3CLL 0.0 3CDL 10.0	SPACING-2-0-0Plate Grip DOL1.15Lumber DOL1.15Rep Stress IncrYESCode IRC2018/TPI2014	CSI. TC 0.08 BC 0.04 WB 0.00 Matrix-P	DEFL. Vert(LL) Vert(CT) Horz(CT)	in n/a n/a -0.00	(loc) - - 3	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20 Weight: 7 lb	GRIP 197/144 FT = 10%
LUMBER- TOP CHORD 2x4 SF	°F No.2		BRACING- TOP CHOR		Structu	ral wood	sheathing di	rectly applied or 2-1	0-8 oc purlins,

BOT CHORD

except end verticals.

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

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

REACTIONS. (size) 1=2-10-0, 3=2-10-0 Max Horz 1=45(LC 5) Max Uplift 1=-12(LC 8), 3=-24(LC 8) Max Grav 1=96(LC 1), 3=96(LC 1)

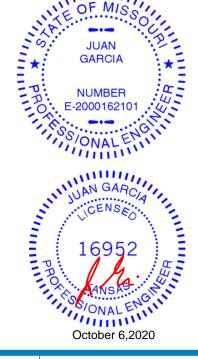
FORCES. (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) or less except when shown.

NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60

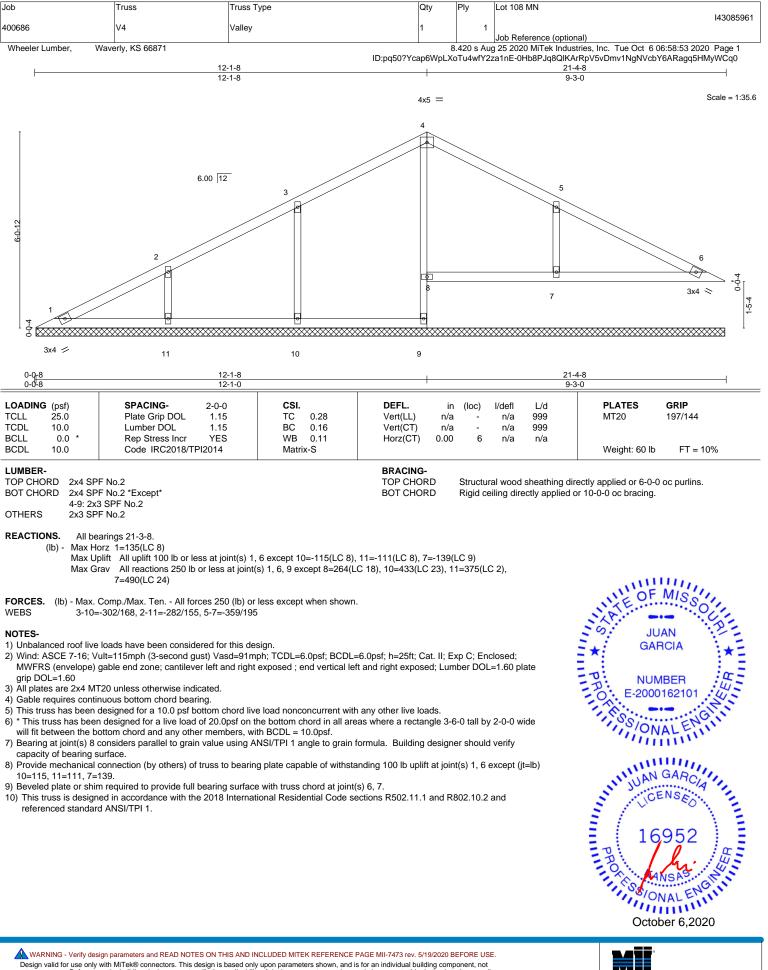
2) Gable requires continuous bottom chord bearing.

- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 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.



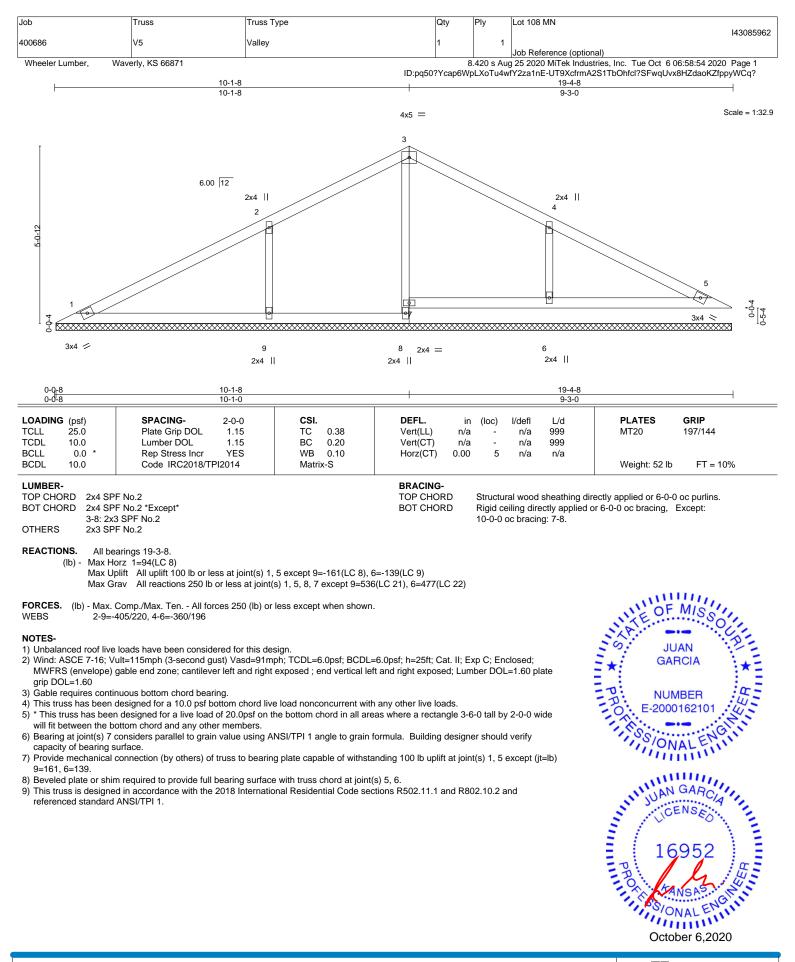
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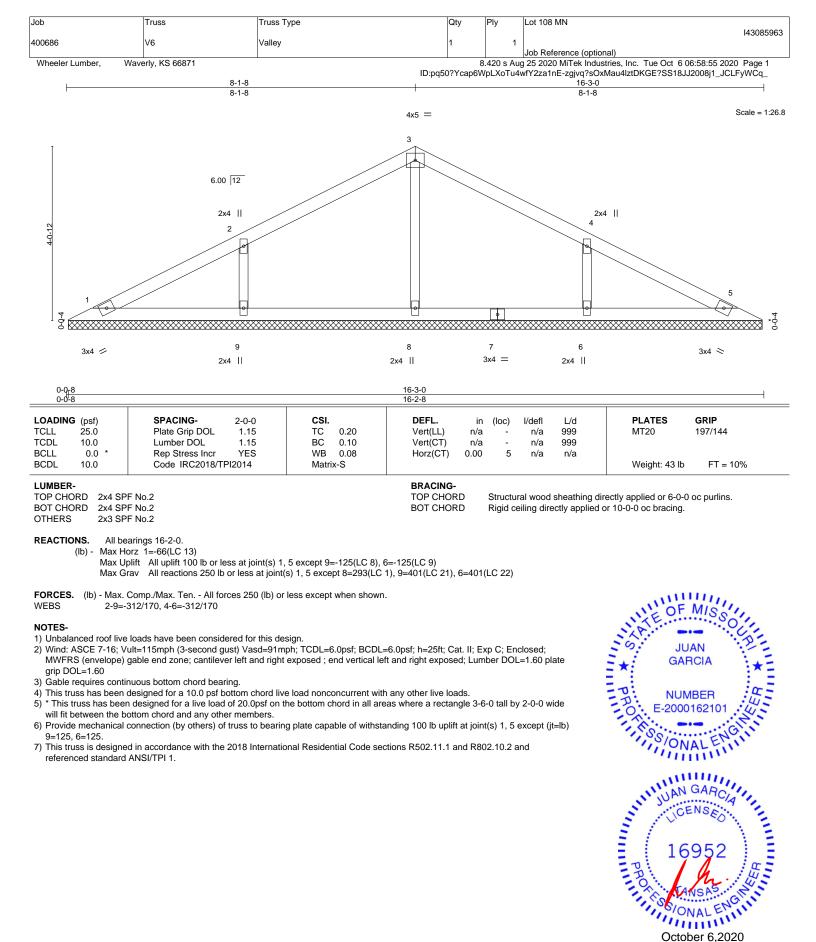


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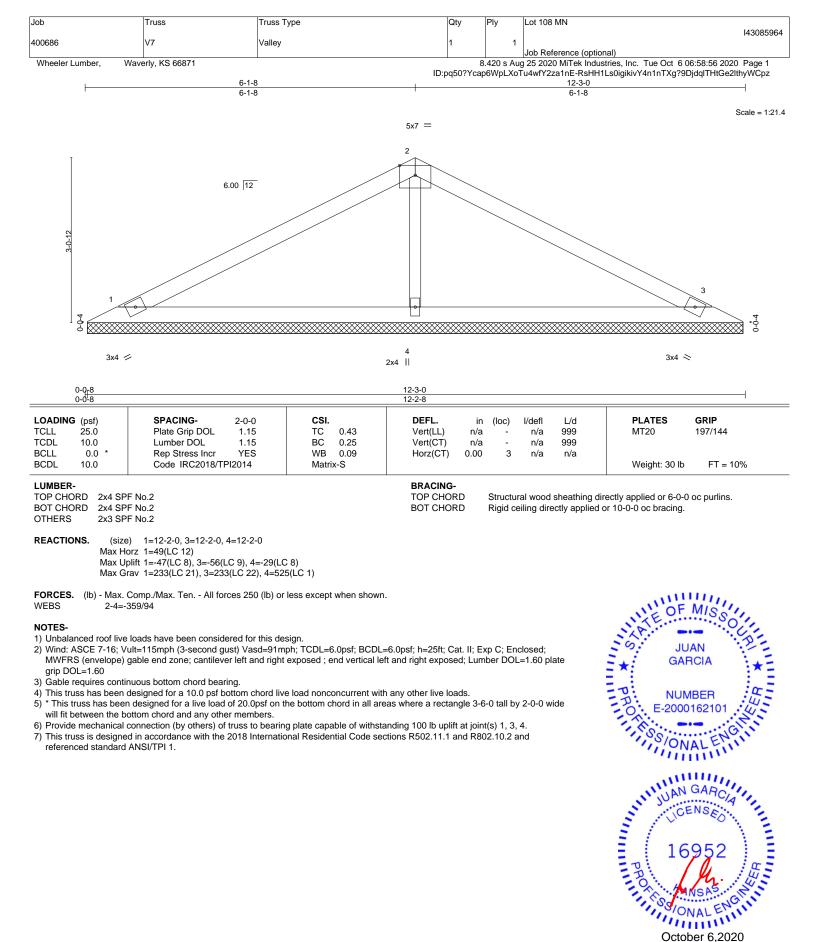


👠 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see <u>ANS/TPH1</u> Quality Criteria, DSB-89 and BCSI Building Component
 Satisfies
 Ansi/TPH Qu

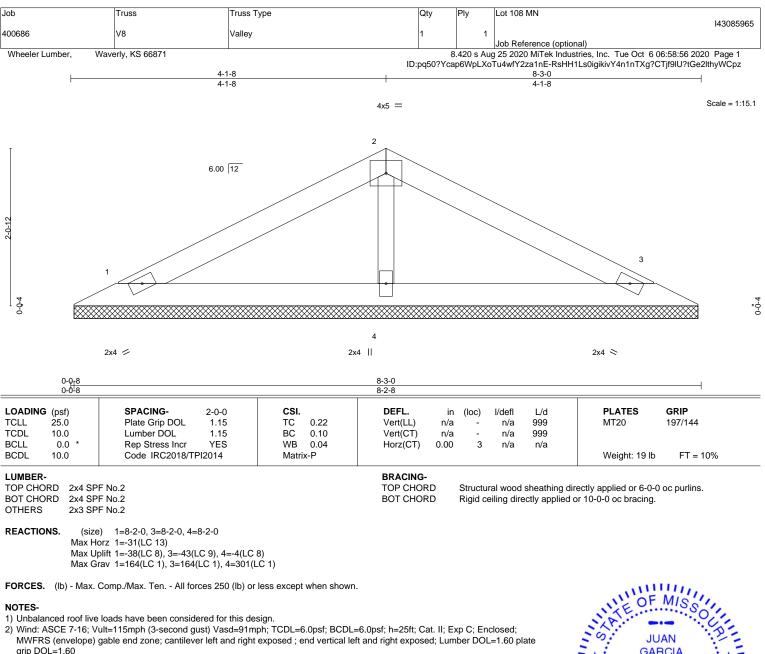
 Safety Information
 available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



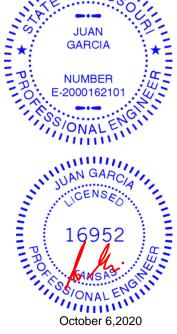
October 6,2020



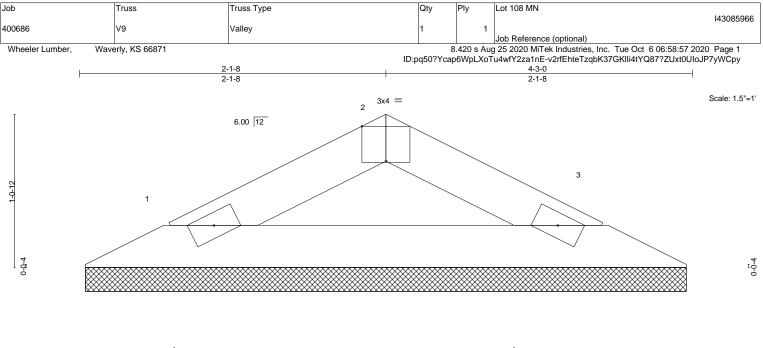




- 3) Gable requires continuous bottom chord bearing.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
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- 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.







2x4 🖉

2x4 📚

Structural wood sheathing directly applied or 4-3-0 oc purlins.

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

0- <u>0-8</u> 0-0-8		<u>4-3-0</u> 4-2-8						
	[2:0-2-0,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 0.04	Vert(LL)	n/a -	n/a	999	MT20	197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.09	Vert(CT)	n/a -	n/a	999		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT)	0.00 3	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014	Matrix-P	. ,				Weight: 9 lb	FT = 10%

TOP CHORD

BOT CHORD

LUMBER-

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

REACTIONS. (size) 1=4-2-0, 3=4-2-0 Max Horz 1=13(LC 12) Max Uplift 1=-17(LC 8), 3=-17(LC 9) Max Grav 1=135(LC 1), 3=135(LC 1)

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

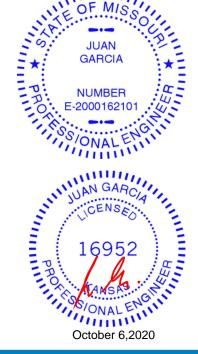
NOTES-

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=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60

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