

RE: 210303 Lot 102 MN

Site Information:

Customer: Project Name: 210303 Lot/Block: Address: City:

Model: Subdivision: State:

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 42 individual, dated Truss Design Drawings and 0 Additional Drawings.

No.	Seal#	Truss Name	Date	No.	Seal#	Truss Name	Date
1	142923357	A1	2/23/2021	21	142923377	H7	2/23/2021
2	142923358	A2	2/23/2021	22	142923378	H8	2/23/2021
3	142923359	B1	2/23/2021	23	142923379	H9	2/23/2021
4	142923360	B2	2/23/2021	24	142923380	J1	2/23/2021
5	142923361	C1	2/23/2021	25	142923381	J2	2/23/2021
6	142923362	C2	2/23/2021	26	142923382	J3	2/23/2021
7	142923363	D1	2/23/2021	27	142923383	J4	2/23/2021
8	142923364	D2	2/23/2021	28	142923384	J5	2/23/2021
9	142923365	E1	2/23/2021	29	142923385	R1	2/23/2021
10	142923366	E2	2/23/2021	30	142923386	V1	2/23/2021
11	142923367	E3	2/23/2021	31	142923387	V2	2/23/2021
12	142923368	G1	2/23/2021	32	142923388	V3	2/23/2021
13	142923369	G2	2/23/2021	33	142923389	V4	2/23/2021
14	142923370	G3	2/23/2021	34	142923390	V5	2/23/2021
15	142923371	H1	2/23/2021	35	I42923391	V6	2/23/2021
16	142923372	H2	2/23/2021	36	142923392	V7	2/23/2021
17	142923373	H3	2/23/2021	37	142923393	V8	2/23/2021
18	142923374	H4	2/23/2021	38	142923394	V9	2/23/2021
19	142923375	H5	2/23/2021	39	142923395	V10	2/23/2021
20	142923376	H6	2/23/2021	40	142923396	V11	2/23/2021

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.





RE: 210303 - Lot 102 MN

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

Site Informatio	on:	
-----------------	-----	--

Projec Lot/Bl Addre	lock:	Project Name: 21	0303	Subdivision:
City, C	County:			State:
No. 41 42	Seal# I42923397 I42923398	Truss Name V12 V13	Date 2/23/2021 2/23/2021	



RE: 210303 Lot 102 MN

Site Information:

Customer: Project Name: 210303 Lot/Block: Address: City:

Model: Subdivision: State:

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 42 individual, dated Truss Design Drawings and 0 Additional Drawings.

No.	Seal#	Truss Name	Date	No.	Seal#	Truss Name	Date
1	142923357	A1	2/23/2021	21	142923377	H7	2/23/2021
2	142923358	A2	2/23/2021	22	142923378	H8	2/23/2021
3	142923359	B1	2/23/2021	23	142923379	H9	2/23/2021
4	142923360	B2	2/23/2021	24	142923380	J1	2/23/2021
5	142923361	C1	2/23/2021	25	142923381	J2	2/23/2021
6	142923362	C2	2/23/2021	26	142923382	J3	2/23/2021
7	142923363	D1	2/23/2021	27	142923383	J4	2/23/2021
8	142923364	D2	2/23/2021	28	142923384	J5	2/23/2021
9	142923365	E1	2/23/2021	29	142923385	R1	2/23/2021
10	142923366	E2	2/23/2021	30	142923386	V1	2/23/2021
11	142923367	E3	2/23/2021	31	142923387	V2	2/23/2021
12	142923368	G1	2/23/2021	32	142923388	V3	2/23/2021
13	142923369	G2	2/23/2021	33	142923389	V4	2/23/2021
14	142923370	G3	2/23/2021	34	142923390	V5	2/23/2021
15	142923371	H1	2/23/2021	35	142923391	V6	2/23/2021
16	142923372	H2	2/23/2021	36	142923392	V7	2/23/2021
17	142923373	H3	2/23/2021	37	142923393	V8	2/23/2021
18	142923374	H4	2/23/2021	38	142923394	V9	2/23/2021
19	142923375	H5	2/23/2021	39	142923395	V10	2/23/2021
20	142923376	H6	2/23/2021	40	142923396	V11	2/23/2021
			2,20,2021	10	1.2020000	• • •	2,20,2021

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, 2022. 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.



Garcia, Juan

February 23, 2021

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

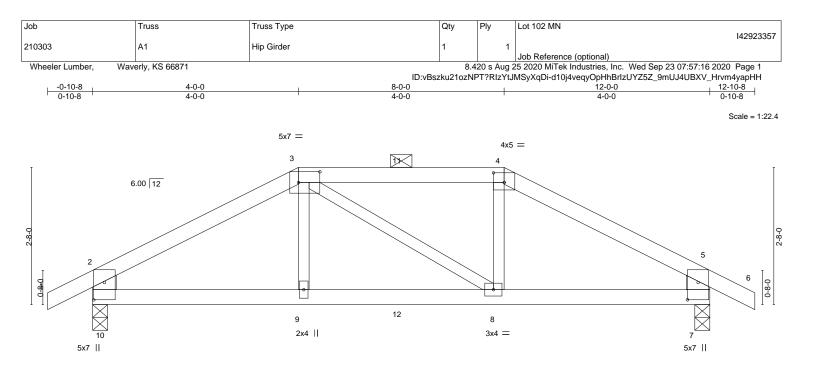


RE: 210303 - Lot 102 MN

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

Site Informatio	on:	
-----------------	-----	--

Projec Lot/Bl Addre	lock:	Project Name: 21	0303	Subdivision:
City, C	County:			State:
No. 41 42	Seal# I42923397 I42923398	Truss Name V12 V13	Date 2/23/2021 2/23/2021	



	L	4-0-0		I		8-0-0					12-0-0	
	1	4-0-0		1		4-0-0		1			4-0-0	I
Plate Offse	ets (X,Y)	[3:0-5-0,0-2-8], [4:0-2-8,0	-2-4], [7:0-4-1,	,0-2-8], [10:0-4	1-1,0-2-8]							
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	0.71	Vert(LL)	-0.07	8-9	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.67	Vert(CT)	-0.13	8-9	>999	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.10	Horz(CT)	0.02	7	n/a	n/a		
BCDL	10.0	Code IRC2018/TF	PI2014	Matrix-	S	Wind(LL)	0.06	8-9	>999	240	Weight: 39 lb	FT = 10%

BRACING-

BOT CHORD

LUMBER-

TOP CHORD	2x4 SPF No.2
BOT CHORD	2x4 SPF No.2
WEBS	2x3 SPF No.2 *Except*
	2-10,5-7: 2x6 SP DSS

REACTIONS. (size) 10=0-3-8, 7=0-3-8 Max Horz 10=50(LC 7) Max Uplift 10=-201(LC 8), 7=-201(LC 9) Max Grav 10=899(LC 1), 7=899(LC 1)

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

TOP CHORD 2-3=-1231/277, 3-4=-1024/269, 4-5=-1232/276, 2-10=-806/214, 5-7=-806/213

BOT CHORD 9-10=-219/1012, 8-9=-219/1023, 7-8=-196/1013

WEBS 3-9=0/271, 4-8=-5/279

NOTES-

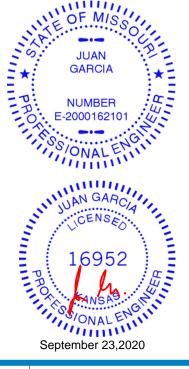
- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber 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) 10=201, 7=201.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 9) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 79 lb down and 74 lb up at 4-0-0, and 86 lb down and 74 lb up at 6-0-0, and 79 lb down and 74 lb up at 8-0-0 on top chord, and 220 lb down and 76 lb up at 4-0-0, and 31 lb down at 6-0-0, and 220 lb down and 76 lb up at 7-11-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 10) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)
 - Vert: 1-2=-70, 2-3=-70, 3-4=-70, 4-5=-70, 5-6=-70, 7-10=-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 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



Structural wood sheathing directly applied or 4-3-4 oc purlins, except end verticals, and 2-0-0 oc purlins (5-0-4 max.): 3-4.

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



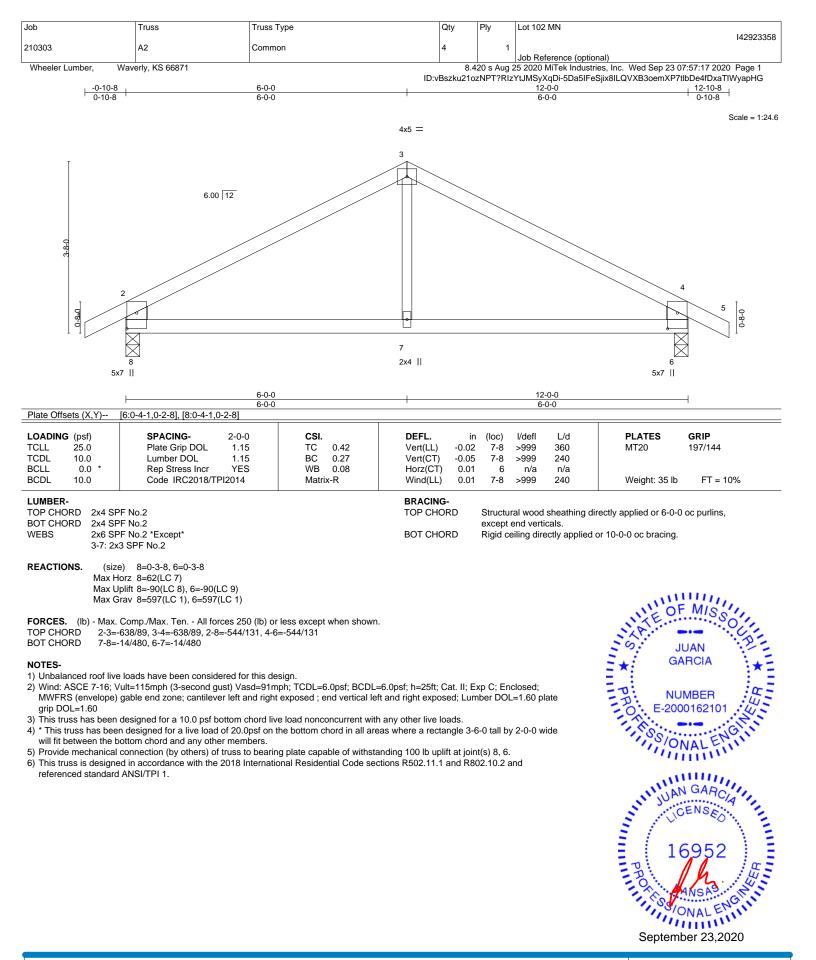
Job	Truss	Truss Type	Qty	Ply	Lot 102 MN
					142923357
210303	A1	Hip Girder	1	1	
					Job Reference (optional)
Wheeler Lumber, Wave	erly, KS 66871		8.4	20 s Aug 2	25 2020 MiTek Industries, Inc. Wed Sep 23 07:57:16 2020 Page 2

8.420 s Aug 25 2020 MiTek Industries, Inc. Wed Sep 23 07:57:16 2020 Page 2 ID:vBszku21ozNPT?RIzYtJMSyXqDi-d10j4veqyOpHhBrIzUYZ5Z_9mUJ4UBXV_Hrvm4yapHH

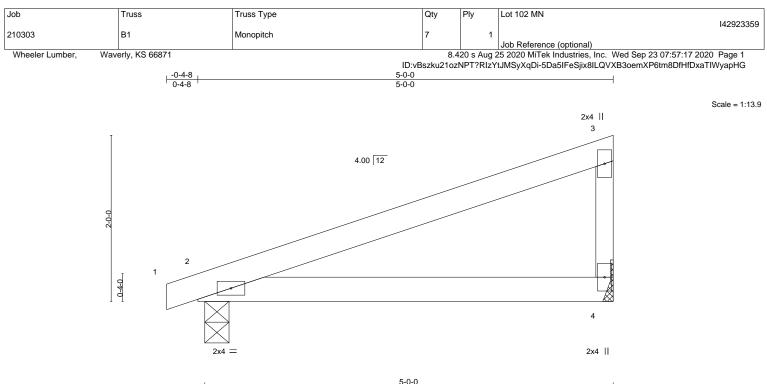
LOAD CASE(S) Standard Concentrated Loads (Ib)

Vert: 3=-46(F) 4=-46(F) 9=-220(F) 8=-220(F) 11=-46(F) 12=-25(F)









				4-11-0						
LOADING (psf) TCLL 25.0	SPACING- Plate Grip DOL	2-0-0 1.15	CSI. TC 0.42	DEFL. Vert(LL)	in -0.03	(loc) 2-4	l/defl >999	L/d 360	PLATES MT20	GRIP 197/144
TCDL 10.0 BCLL 0.0 *	Lumber DOL Rep Stress Incr	1.15 YES	BC 0.23 WB 0.00	Vert(CT) Horz(CT)	-0.06 -0.00	2-4 4	>933 n/a	240 n/a		101/111
BCDL 10.0	Code IRC2018/T		Matrix-P	Wind(LL)	0.00	2	****	240	Weight: 13 lb	FT = 10%

LUMBER-

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

/EBS 2x3 SPF No.2

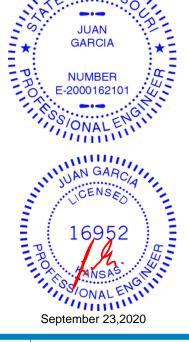
REACTIONS. (size) 4=Mechanical, 2=0-3-8 Max Horz 2=76(LC 5) Max Uplift 4=-45(LC 8), 2=-58(LC 4)

Max Grav 4=212(LC 1), 2=252(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.



MIS

0

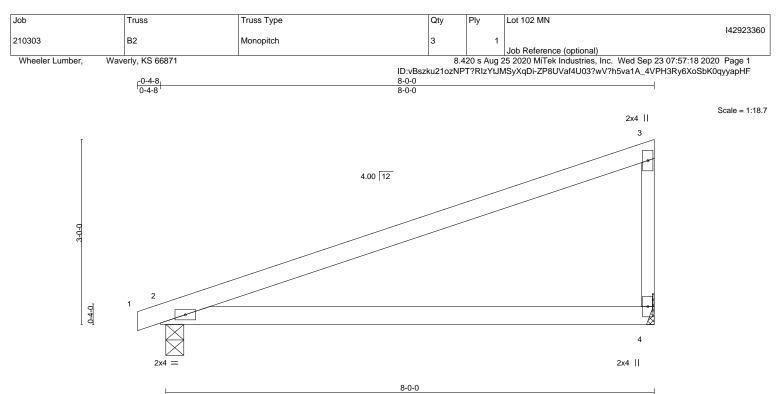
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and property incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



BRACING-TOP CHORD Sti

Structural wood sheathing directly applied or 5-0-0 oc purlins, except end verticals. Bigid exiling directly applied or 10.0.0 oc bracing

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



	1		7-11-0	I
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d	PLATES GRIP
TCLL 25.0	Plate Grip DOL 1.15	TC 0.77	Vert(LL) -0.17 2-4 >553 360	MT20 197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.42	Vert(CT) -0.34 2-4 >276 240	W120 197/144
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT) -0.00 4 n/a n/a	Weight: 21 lb FT = 10%
BCDL 10.0	Code IRC2018/TPI2014	Matrix-P	Wind(LL) 0.00 2 **** 240	

LUMBER-

 TOP CHORD
 2x4 SPF 2100F 1.8E

 BOT CHORD
 2x4 SPF 2100F 1.8E

 WEBS
 2x3 SPF No.2

BRACING-TOP CHORD

BOT CHORD

Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals. Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=Mechanical, 2=0-3-8 Max Horz 2=121(LC 5) Max Uplift 4=-74(LC 8), 2=-79(LC 4) Max Grav 4=348(LC 1), 2=386(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 3-4=-270/121

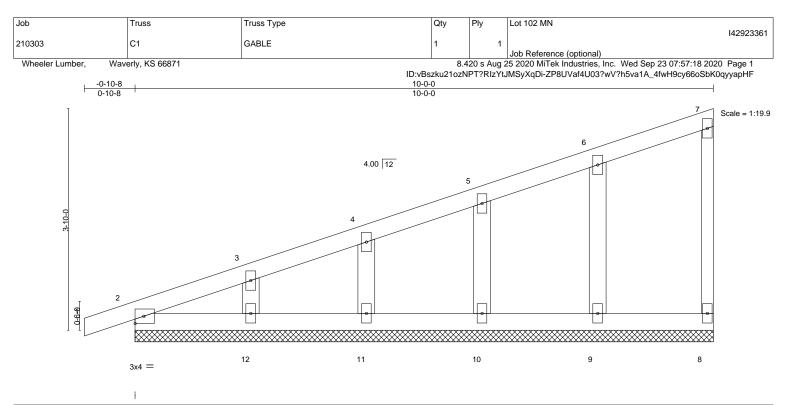
NOTES-

- 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.

MI

0

16023 Swingley Ridge Rd Chesterfield, MO 63017



Grip DOL 1.15 er DOL 1.15	TC 0.09	Vert(LL) C	0.00 1	n/r 1	20 M	Г20 19	7/144
DOI 4.45						120 10	7/144
er DOL 1.15	BC 0.03	Vert(CT) C	0.00 1	n/r 1	20		
stress Incr YES	WB 0.03	Horz(CT) -0	0.00 8	n/a r	n/a		
IRC2018/TPI2014	Matrix-S				We	eight: 35 lb	FT = 10%

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

TOP CHORD BOT CHORD

Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals. Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 10-0-0.

(lb) -Max Horz 2=158(LC 5)

Max Uplift All uplift 100 lb or less at joint(s) 8, 2, 12, 11, 10, 9

Max Grav All reactions 250 lb or less at joint(s) 8, 2, 12, 11, 10, 9

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) 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.

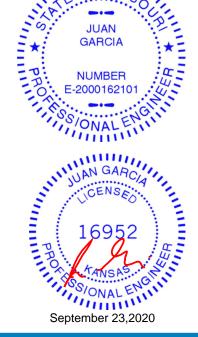
5) Gable studs spaced at 2-0-0 oc.

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

* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide 7) will fit between the bottom chord and any other members.

8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 8, 2, 12, 11, 10, 9. 9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and

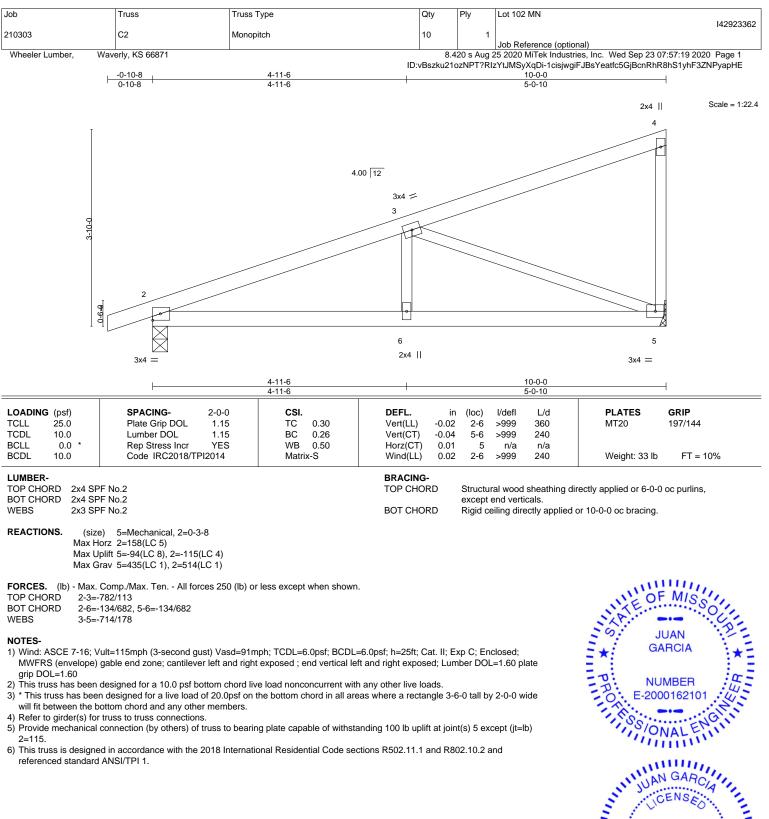
referenced standard ANSI/TPI 1.



1111 MIS

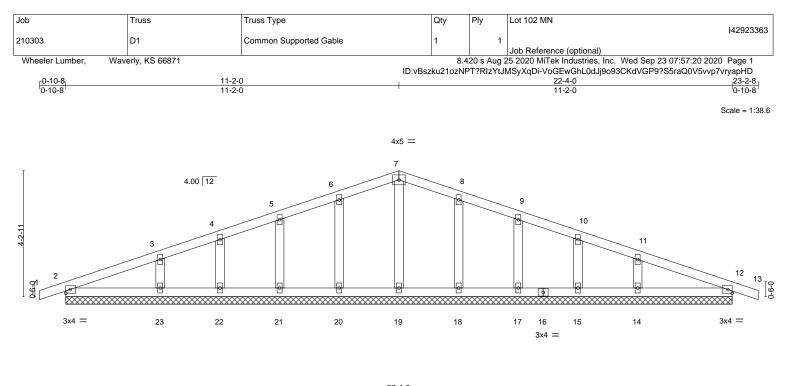
0







16023 Swingley Ridge Rd Chesterfield, MO 63017



<u>22-4-0</u> 22-4-0										
OADING (psf)	SPACING- 2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP	
CLL 25.0	Plate Grip DOL 1.15	TC 0.09	Vert(LL)	0.00	13	n/r	120	MT20	197/144	
CDL 10.0	Lumber DOL 1.15	BC 0.06	Vert(CT)	0.00	13	n/r	120			
BCLL 0.0 *	Rep Stress Incr YES	WB 0.03	Horz(CT)	0.00	12	n/a	n/a			
BCDL 10.0	Code IRC2018/TPI2014	Matrix-S	. ,					Weight: 77 lb	FT = 10%	

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 22-4-0.

Max Horz 2=-71(LC 9) (lb) -

- Max Uplift All uplift 100 lb or less at joint(s) 2, 20, 21, 22, 23, 18, 17, 15, 14, 12
- Max Grav All reactions 250 lb or less at joint(s) 2, 19, 20, 21, 22, 18, 17, 15, 12 except 23=275(LC 21), 14=275(LC 22)
- FORCES. (lb) Max. Comp./Max. Ten. All forces 250 (lb) or less except when shown.

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=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) 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.

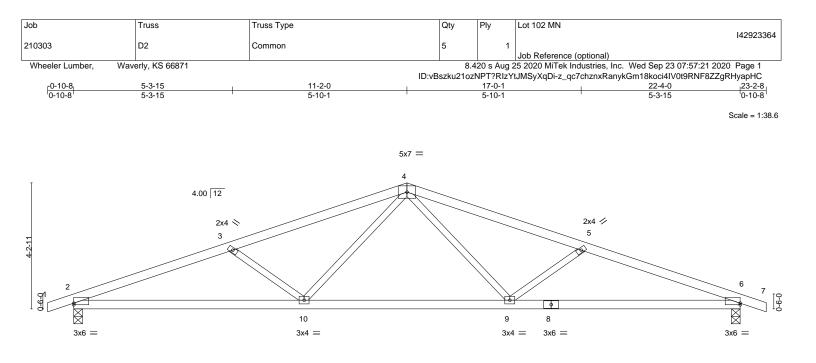
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 20, 21, 22, 23, 18, 17, 15, 14, 12.
- 10) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 2, 12.
- 11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



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

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

MiTek 16023 Swingley Ridge Rd Chesterfield, MO 63017



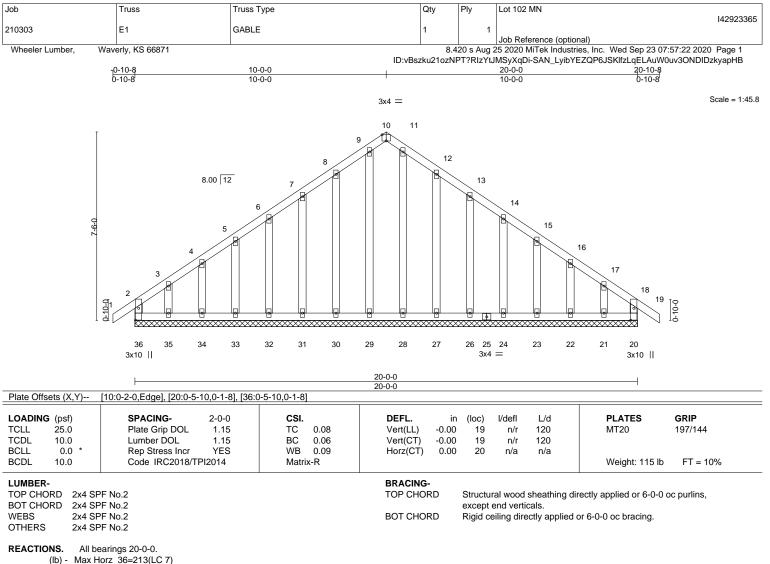
 	7-8-10 7-8-10		<u>14-7-6</u> 6-10-12		<u>22-4-0</u> 7-8-10	
Plate Offsets (X,Y)	[2:0-0-0,0-0-10], [6:0-0-0,0-0-10]		0-10-12		7-6-10	
LOADING (psf) TCLL 25.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2018/TPI2014	CSI. TC 0.47 BC 0.69 WB 0.19 Matrix-S	DEFL. in Vert(LL) -0.12 Vert(CT) -0.25 Horz(CT) 0.07 Wind(LL) 0.08	9-10 >999 6-9 >999 6 n/a	L/d PLATES 360 MT20 240 n/a 240 Weight: 68 lb	GRIP 197/144 FT = 10%
BOT CHORD 2x4 SF	PF No.2 PF No.2 PF No.2 PF No.2		BRACING- TOP CHORD BOT CHORD		heathing directly applied or 3-7-2 ttly applied or 10-0-0 oc bracing.	? oc purlins.
Max H Max U	e) 2=0-3-8, 6=0-3-8 lorz 2=-71(LC 13) Jplift 2=-189(LC 4), 6=-189(LC 5) Grav 2=1063(LC 1), 6=1063(LC 1)					
TOP CHORD 2-3= BOT CHORD 2-10	Comp./Max. Ten All forces 250 (lb) o -2232/355, 3-4=-1909/259, 4-5=-1909/2 =-333/2049, 9-10=-127/1406, 6-9=-280/ -59/541, 5-9=-418/221, 4-10=-58/541, 3	60, 5-6=-2232/355 2049			NA PERSON	MISSOUTH
 Wind: ASCE 7-16; MWFRS (envelope) grip DOL=1.60 This truss has been 	e loads have been considered for this de /ult=115mph (3-second gust) Vasd=91n gable end zone; cantilever left and righ designed for a 10.0 psf bottom chord liv en designed for a live load of 20.0psf on	nph; TCDL=6.0psf; BCDL=6. t exposed ; end vertical left a ve load nonconcurrent with a	nd right exposed; Lun ny other live loads.	nber DOL=1.60 plat	te NU	ARCIA

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)

2=189, 6=189.6) 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



- (ID) Max Horz 36=213(LC 7) Max Uplift All uplift 100 lb or lease at isint(s) (
 - Max Uplift
 All uplift 100 lb or less at joint(s) 36, 20, 34, 33, 32, 31, 30, 27, 26, 24, 23, 22 except 35=-133(LC 8), 21=-120(LC 9)

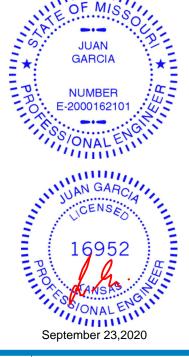
 Max Grav
 All reactions 250 lb or less at joint(s) 36, 20, 35, 34, 33, 32, 31, 30, 29, 28, 27, 26, 24, 23, 22,
 - 21

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

NOTES

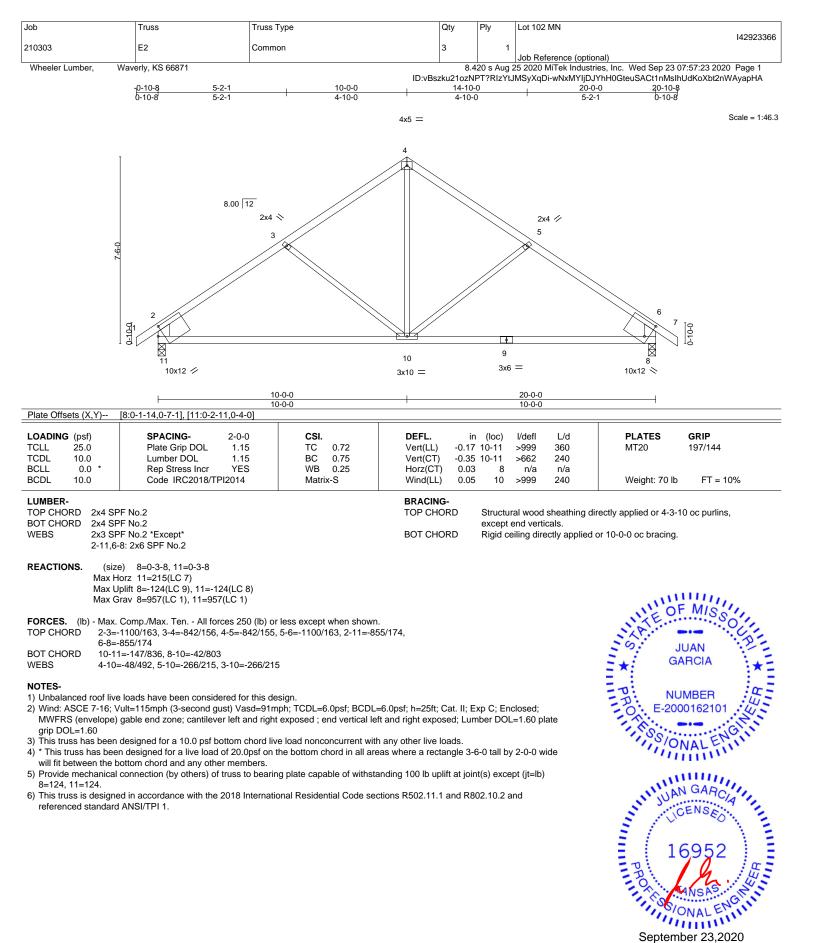
1) Unbalanced roof live loads have been considered for this design.

- 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 1-4-0 oc.
- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 9) * 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) 36, 20, 34, 33, 32, 31, 30, 27, 26, 24, 23, 22 except (jt=lb) 35=133, 21=120.
- 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

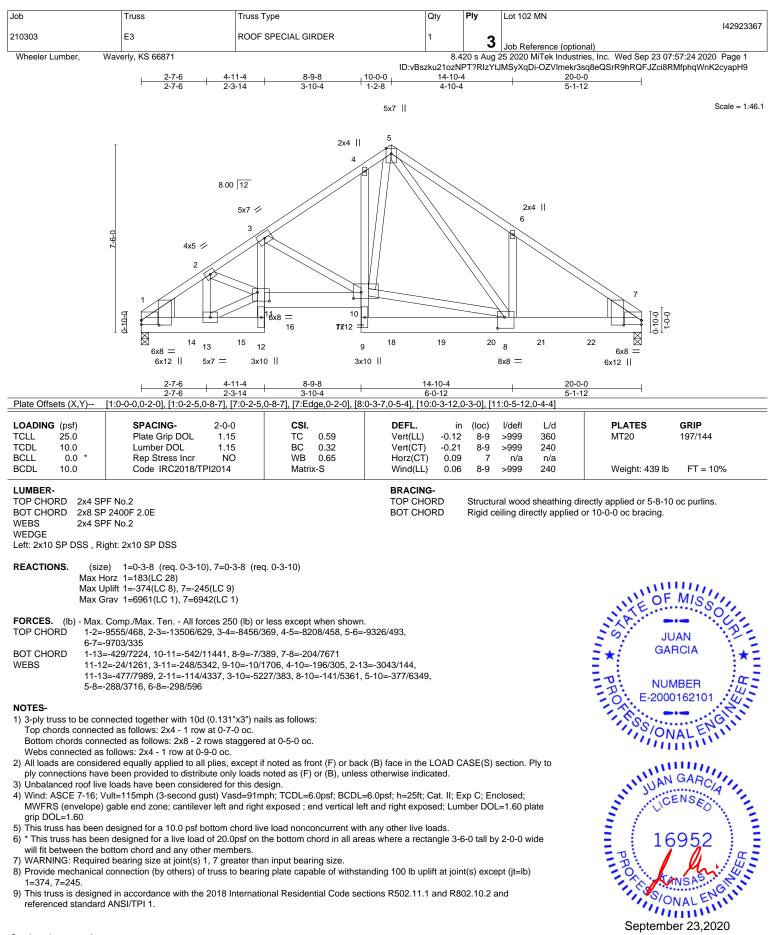




WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, 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/TP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

September 23,2020





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

16023 Swingley Ridge Rd Chesterfield, MO 63017

MiTek

[Job	Truss	Truss Type	Qty	Ply	Lot 102 MN
	210303	E3	ROOF SPECIAL GIRDER	4	_	142923367
	210303	ES	ROOF SPECIAL GIRDER	1	3	Job Reference (optional)
	Wheeler Lumber, Wave	erly, KS 66871		8.4	20 s Aug 2	25 2020 MiTek Industries, Inc. Wed Sep 23 07:57:24 2020 Page 2
			ID:vBs	zku21ozNl	PT?RIzYtJ	MSyXqDi-OZVImekr3sq8eQSrR9hRQFJZci8RMfphqWnK2cyapH9

NOTES-

10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1338 lb down and 188 lb up at 2-0-0, 1351 lb down and 35 lb up at 4-0-0, 1363 lb down and 44 lb up at 6-0-0, 1363 lb down and 44 lb up at 8-0-0, 1351 lb down and 35 lb up at 10-0-0, 1351 lb down and 35 lb up at 12-0-0, 1338 lb down and 36 lb up at 14-0-0, and 1338 lb down and 36 lb up at 14-0-0, and 1338 lb down and 36 lb up at 16-0-0, and 1338 lb down and 36 lb up at 18-0-0 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

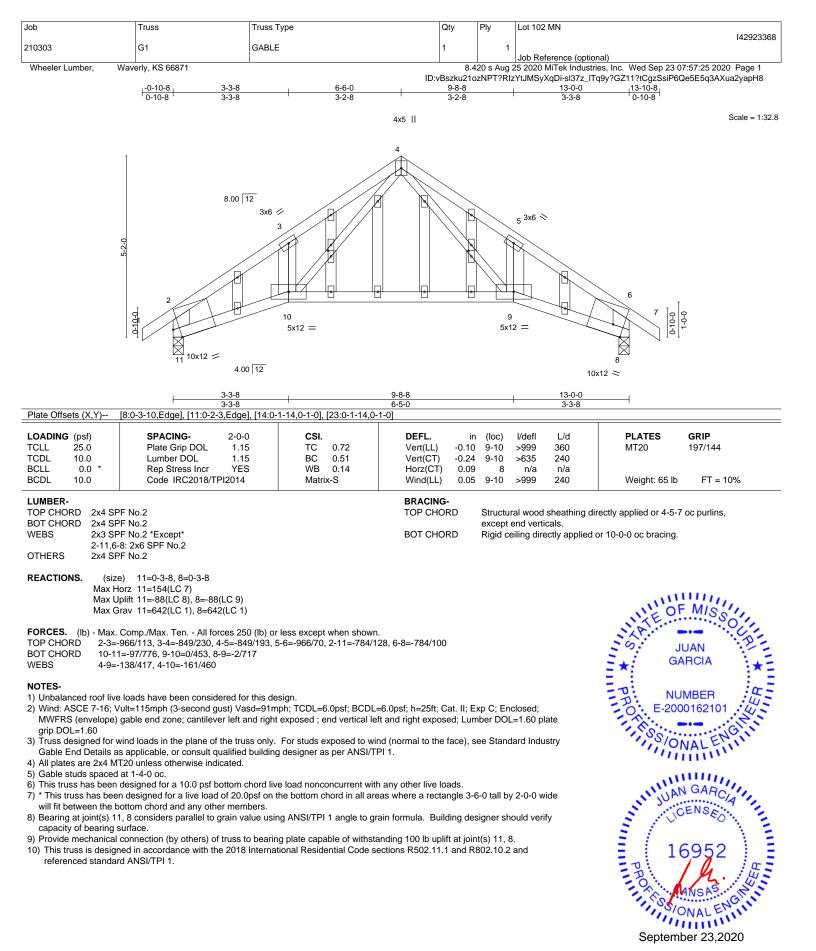
Uniform Loads (plf)

Vert: 1-5=-70, 5-7=-70, 1-12=-20, 10-11=-20, 7-9=-20

Concentrated Loads (lb)

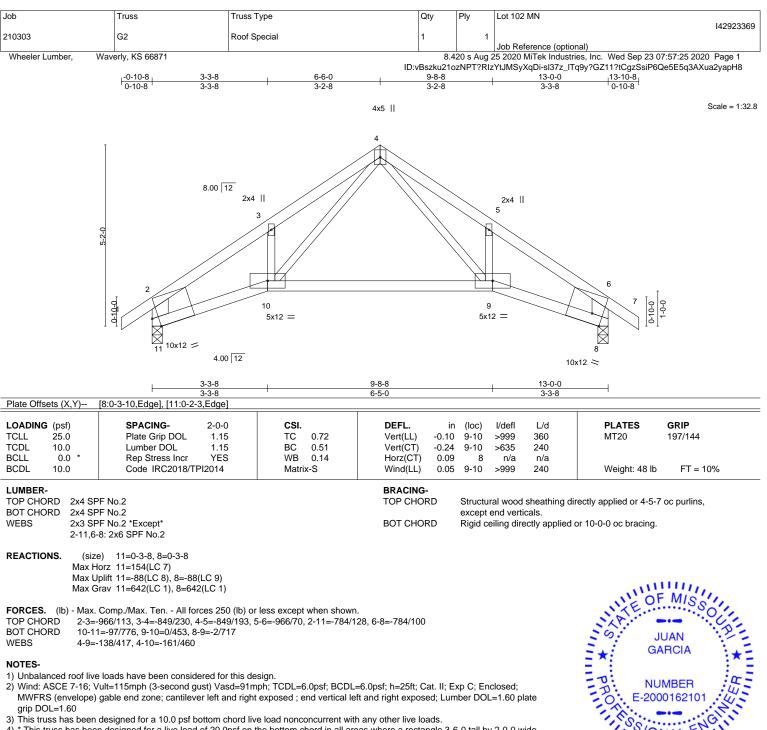
Vert: 14=-1338(B) 15=-1351(B) 16=-1363(B) 17=-1363(B) 18=-1351(B) 19=-1351(B) 20=-1338(B) 21=-1338(B) 22=-1338(B) 22=-1338(B) 21=-1338(B) 22=-1338(B) 23=-1338(B) 22=-1338(B) 23=-1338(B) 23=-1338(B)





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/TP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601 Milek[®]

16023 Swingley Ridge Rd Chesterfield, MO 63017



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) 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.

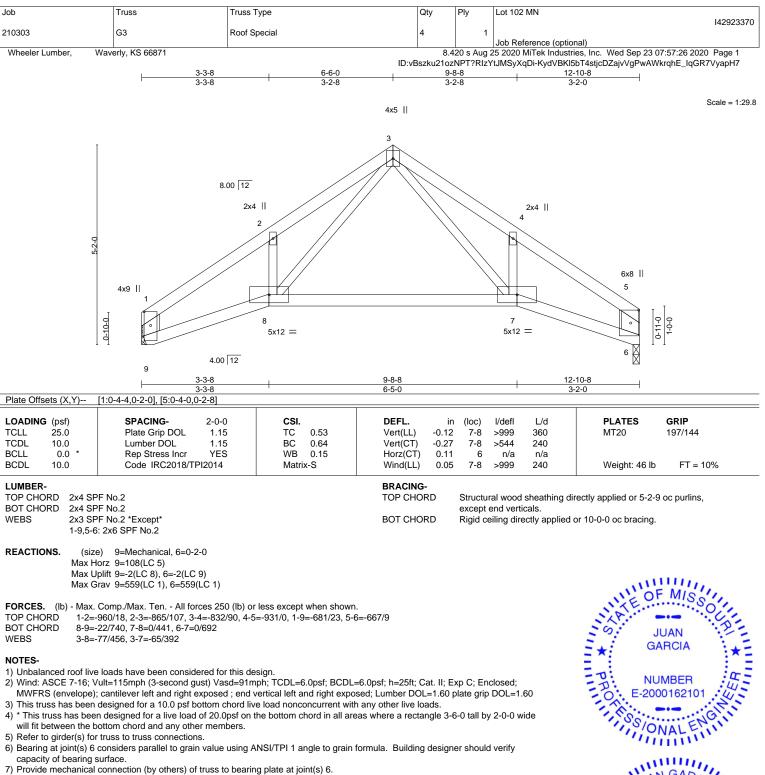
5) Bearing at joint(s) 11, 8 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.

6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 11, 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.



E-2000162101

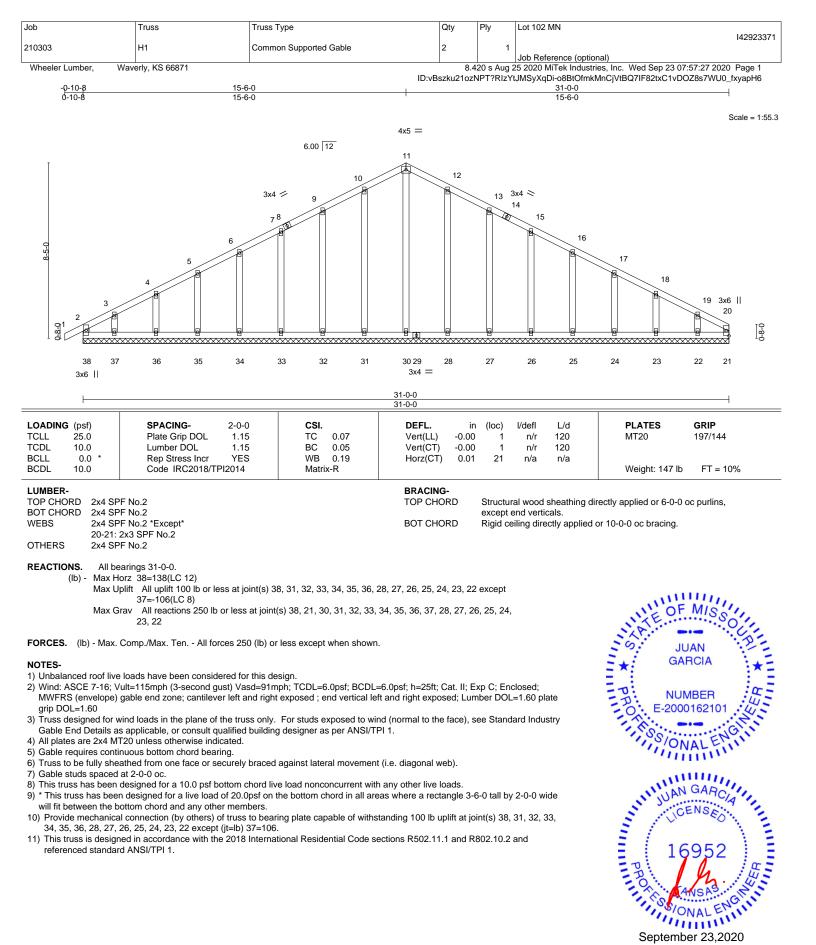




- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 9, 6.
- 9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



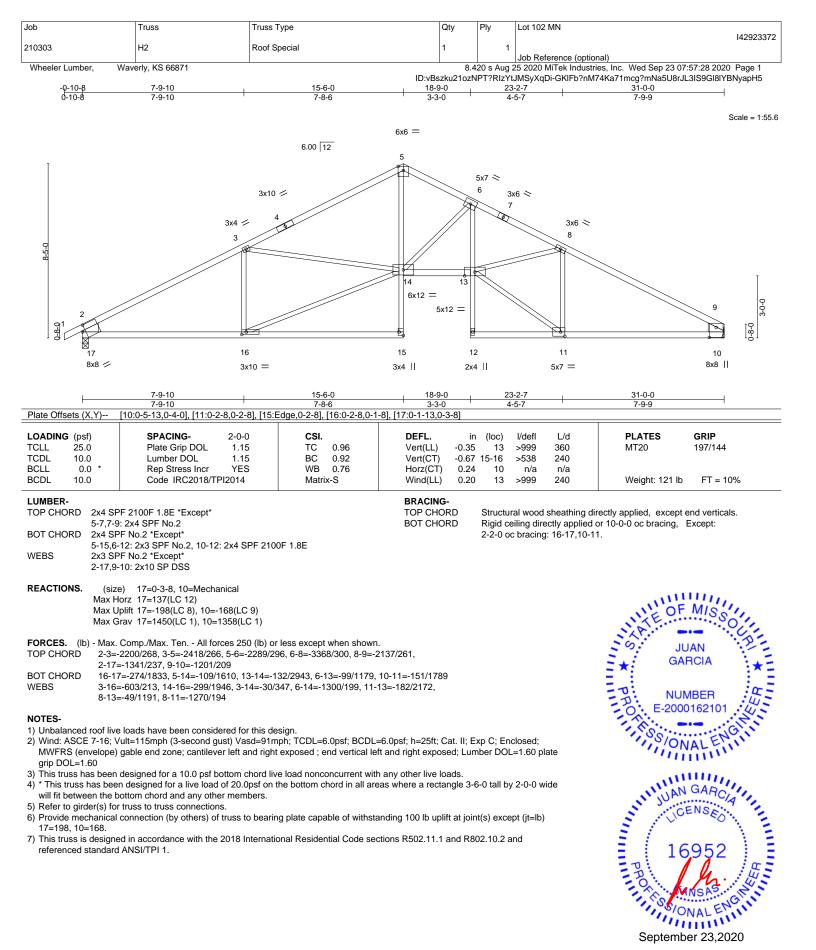




WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, 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 system. See MSI/TP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

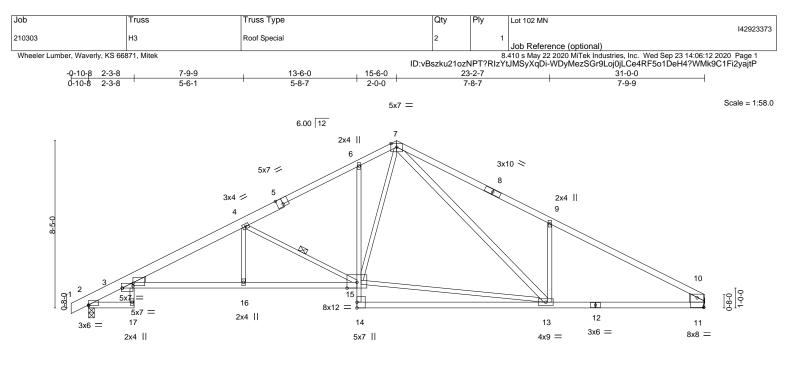
MiTek

16023 Swingley Ridge Rd Chesterfield, MO 63017



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 system. See MSI/TP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601 MiTek

16023 Swingley Ridge Rd Chesterfield, MO 63017



	<u>2-3-8</u> 2-3-8	7-9-9		13-6-0		3-2-7 9-8-7			<u>31-0-0</u> 7-9-9	
Plate Offsets (X)-2-14], [3:0-6-8	3,0-1-6], [5:0-3-8,Edge], [1		5-0-1			1-3-3	
LOADING (psf TCLL 25.0 TCDL 10.0 BCLL 0.0 BCDL 10.0	Ó D O *	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr Code IRC2018/TF	2-0-0 1.15 1.15 YES Pl2014	CSI. TC 0.79 BC 0.72 WB 0.49 Matrix-S	DEFL. Vert(LL) Vert(CT) Horz(CT) Wind(LL)	in (loc -0.34 13-1 -0.79 13-1 0.34 1 0.16 3-1	4 >999 4 >462 1 n/a	L/d 360 240 n/a 240	PLATES MT20 Weight: 136 lb	GRIP 197/144 FT = 10%
BOT CHORD WEBS	5-7: 2x4 SF 2x4 SPF No 3-17,6-14: 2 2x3 SPF No 7-13: 2x4 S	000F 1.8E *Except* YF No.2, 1-5: 2x6 SP 5.2 *Except* 2x3 SPF No.2, 3-15,1 5.2 *Except* IPF No.2, 10-11: 2x10	1-12: 2x4 SPF	2100F 1.8E	BRACING- TOP CHOR BOT CHOR WEBS	exce D Rigi 6-0-	ept end verti	cals. ectly applied o : 2-17.	ectly applied or 3-3-12 r 10-0-0 oc bracing, E 15	•
REACTIONS.	(lb/size) Max Horz	2=1455/0-3-8, 11=13 2=106(LC 5) 2=-21(LC 8), 11=-15(NILE OF A	AISSOUT
FORCES. (Ib) TOP CHORD	2-3=-809/		5=-2012/31, 5-	less except when shown. 6=-1943/58, 6-7=-1824/10						
BOT CHORD WEBS	3-16=-57/	2687, 15-16=-57/268 04, 4-15=-1168/116, 1	37, 12-13=0/18		/724,				P	• 41.
2) Wind: ASCE	7-16; Vult=		ust) Vasd=91m	sign. ph; TCDL=6.0psf; BCDL= rertical left and right expos				60	SS/ONA	LENGINI

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.

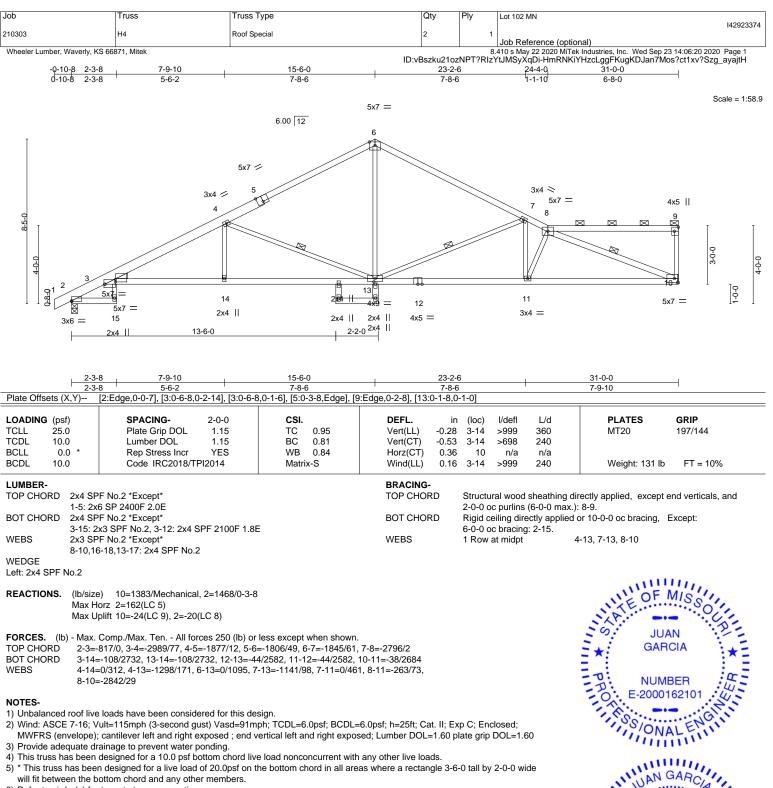
5) Refer to girder(s) for truss to truss connections.

6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 21 lb uplift at joint 2 and 15 lb uplift at joint 11.

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.



Kitek Nitek 16023 Swingley Ridge Rd Chesterfield, MO 63017



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

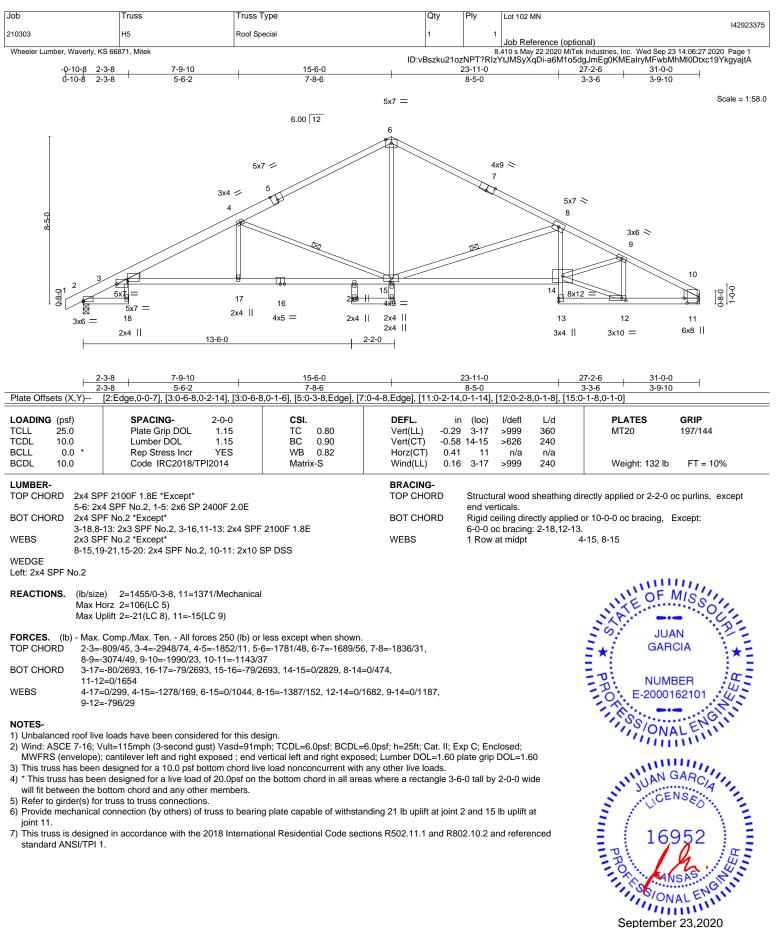
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 24 lb uplift at joint 10 and 20 lb uplift at joint 2.

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

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

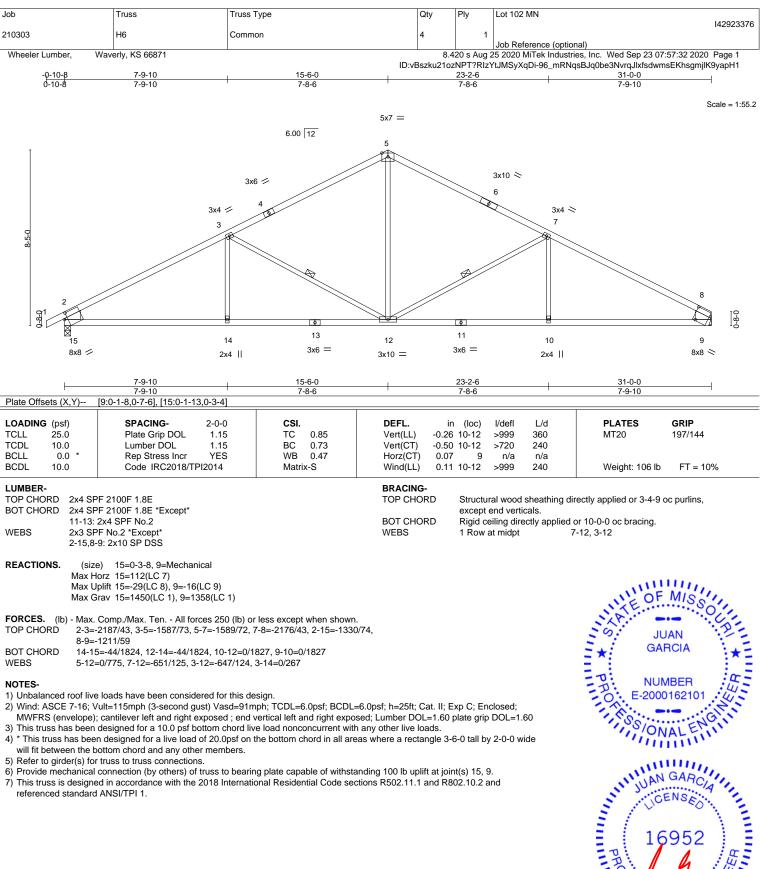






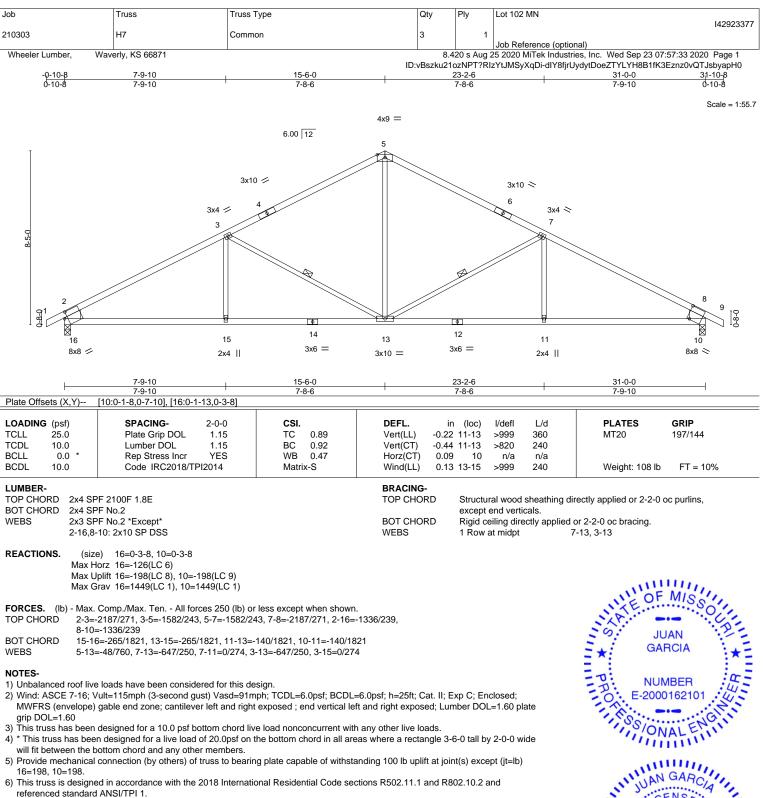
September 23,2020





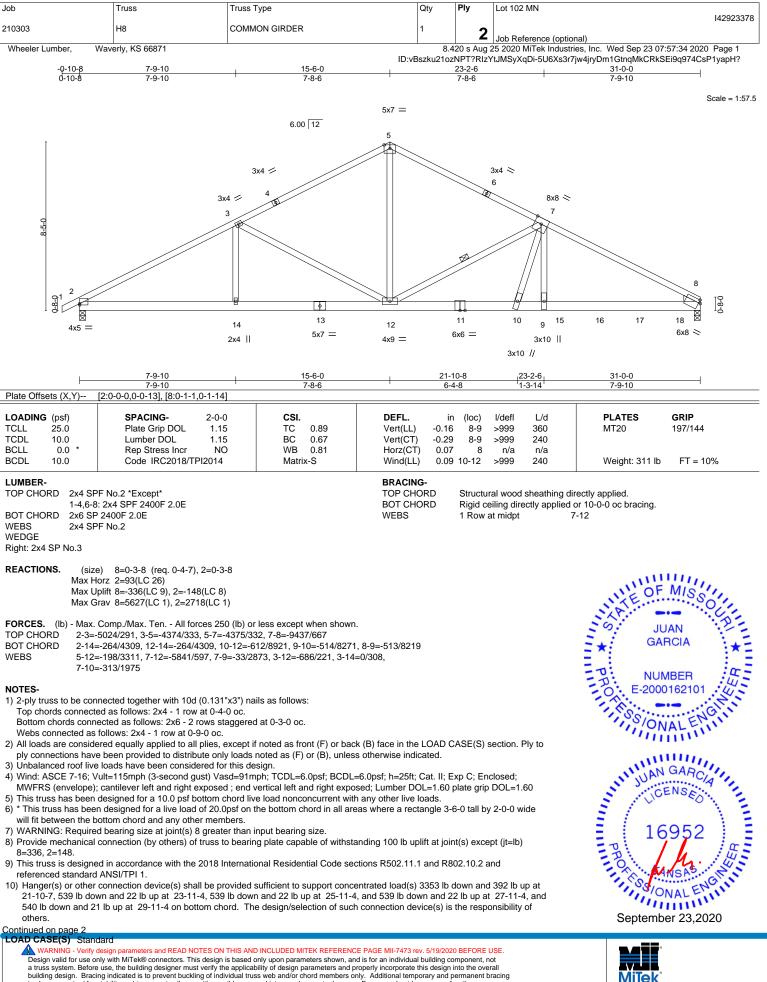


MiTek 16023 Swingley Ridge Rd Chesterfield, MO 63017









WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITER REFERENCE PAGE MIT-74/3 rev. 5/19/2020 BEFORE USE. Design valid for use only with MITER® 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

16023 Swingley Ridge Rd Chesterfield, MO 63017

russ	Truss Type	Qty	Ply	Lot 102 MN
				142923378
18	COMMON GIRDER	1	ົ	
			2	Job Reference (optional)
ly, KS 66871		8.4	20 s Aug 2	5 2020 MiTek Industries, Inc. Wed Sep 23 07:57:34 2020 Page 2
	18	18 COMMON GIRDER	18 COMMON GIRDER 1	18 COMMON GIRDER 1 2

ID:vBszku21ozNPT?RIzYtJMSyXqDi-5U6Xs3r7jw4jryDm1GtnqMkCRkSEi9q974CsP1yapH?

LOAD CASE(S) Standard

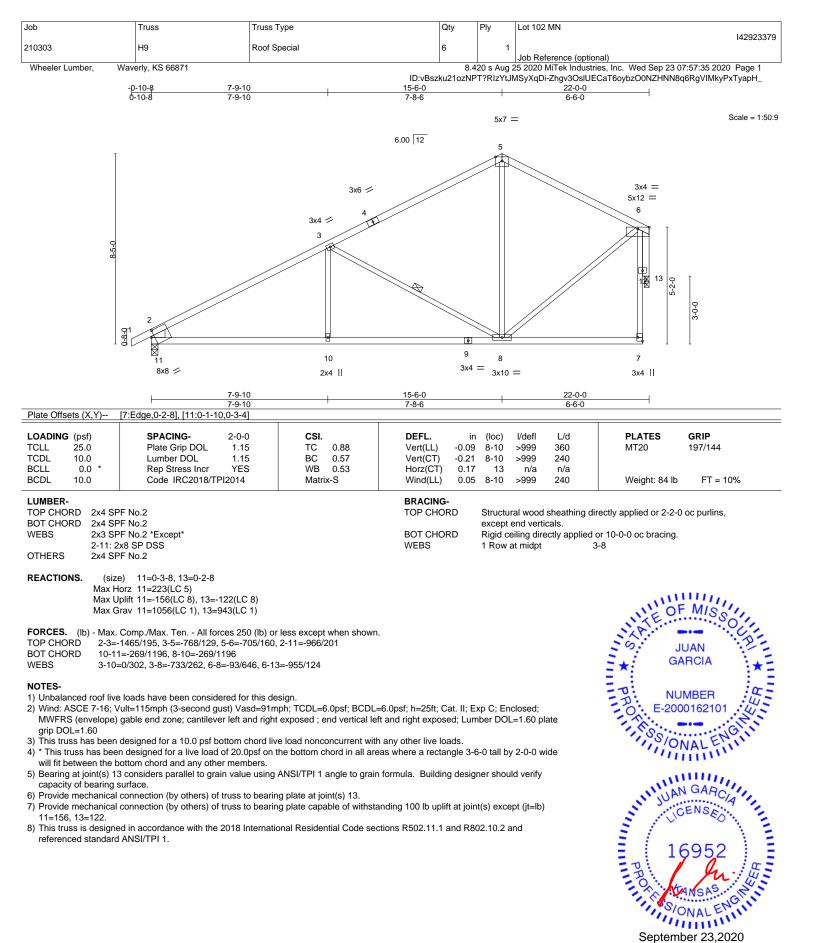
1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf) Vert: 1-5=-70, 5-8=-70, 2-8=-20

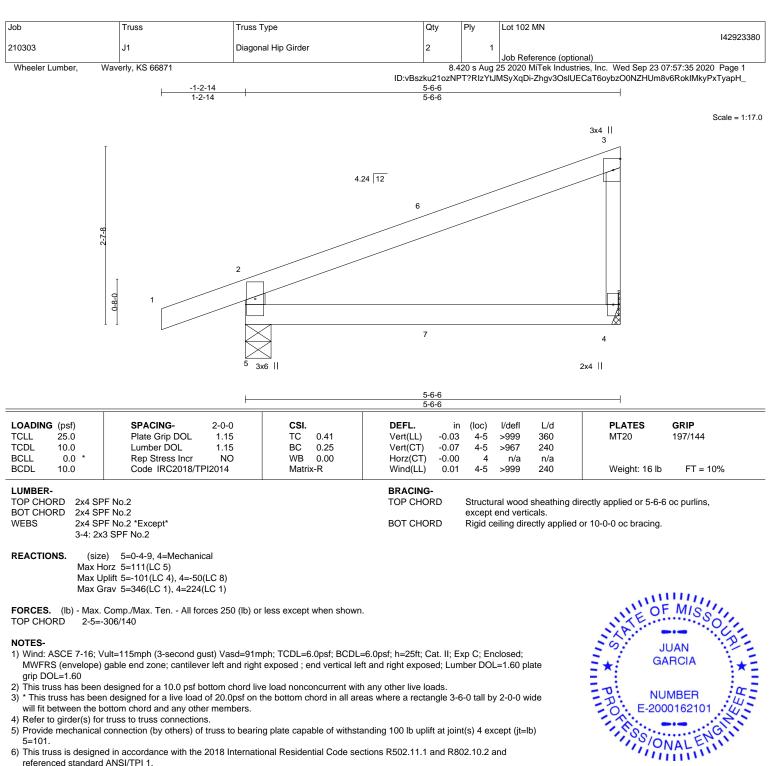
Concentrated Loads (lb)

Vert: 10=-3353(B) 15=-539(B) 16=-539(B) 17=-539(B) 18=-540(B)









7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 69 lb down and 36 lb up at 2-9-8, and 69 lb down and 36 lb up at 2-9-8 on top chord, and 3 lb down and 1 lb up at 2-9-8, and 3 lb down and 1 lb up at 2-9-8 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

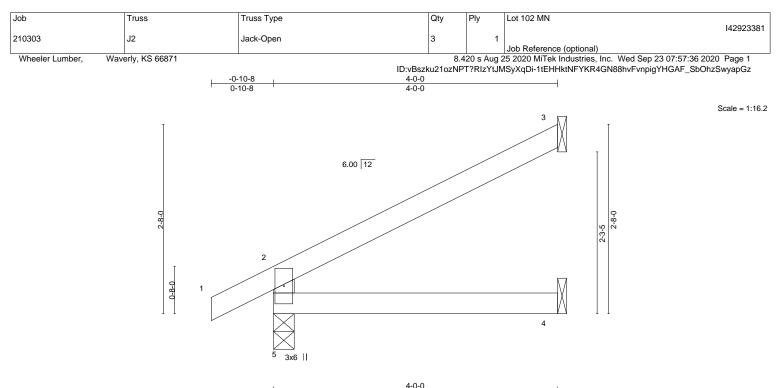
8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)
 - Vert: 1-2=-70, 2-3=-70, 4-5=-20 Concentrated Loads (lb) Vert: 7=2(F=1, B=1)







				4-0-0								
	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	4-5	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.13	Vert(CT)	-0.02	4-5	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.01	3	n/a	n/a		
BCDL	10.0	Code IRC2018/T	PI2014	Matri	x-R	Wind(LL)	0.01	4-5	>999	240	Weight: 11 lb	FT = 10%

LUMBER-

TOP CHORD2x4 SPF No.2BOT CHORD2x4 SPF No.2WEBS2x4 SPF No.2

BRACING-TOP CHORD

BOT CHORD

Structural wood sheathing directly applied or 4-0-0 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=89(LC 8)

Max Uplift 5=-30(LC 8), 3=-66(LC 8) Max Grav 5=252(LC 1), 3=116(LC 1), 4=71(LC 3)

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

NOTES-

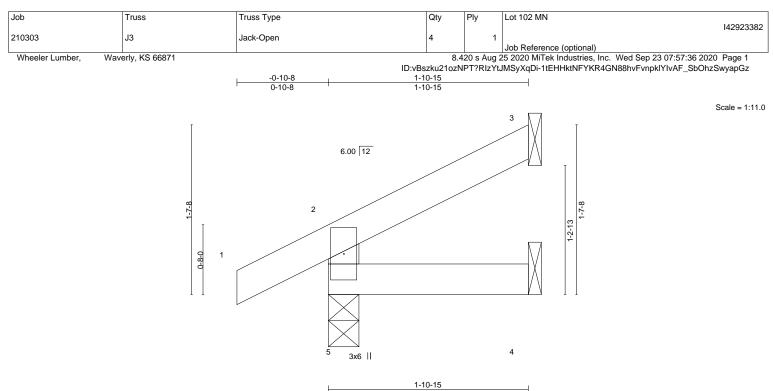
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a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



MIS

0





	' <u>1-10-15</u>										
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 0.07	Vert(LL) -0.00	5	>999	360	MT20 197/144			
TCDL	10.0	Lumber DOL 1.15	BC 0.02	Vert(CT) -0.00	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 CHORD 2x4 SPF No.2 BOT CHORD 2x4 SPF No.2 WEBS

2x4 SPF No.2

BRACING-TOP CHORD

BOT CHORD

Structural wood sheathing directly applied or 1-10-15 oc purlins, except end verticals. Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. 5=0-3-8, 3=Mechanical, 4=Mechanical (size) Max Horz 5=48(LC 8)

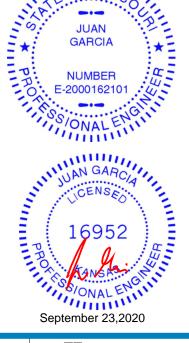
Max Uplift 5=-26(LC 8), 3=-30(LC 8)

Max Grav 5=171(LC 1), 3=44(LC 1), 4=31(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.
- * 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 3) 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.

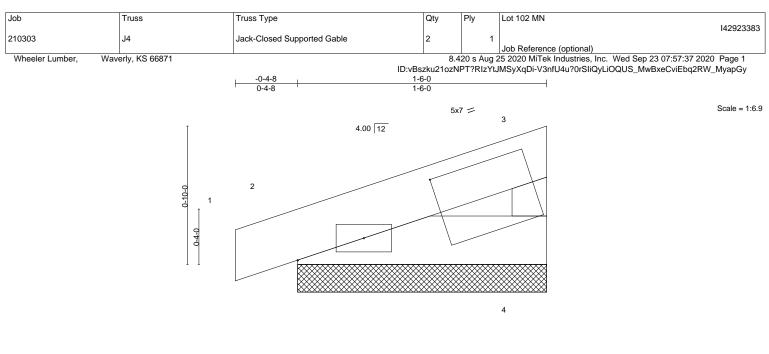


11111

0

MIS





2x4 =

	ł	

Plate Offsets (X,Y)	[3:0-10-14,0-2-8]	1					Т	
LOADING (psf) TCLL 25.0 TCDL 10.0	SPACING-2-0-0Plate Grip DOL1.15Lumber DOL1.15	CSI. TC 0.03 BC 0.02	Vert(LL) -0.00 Vert(CT) 0.00	(loc) 1 1	l/defl n/r n/r	L/d 120 120		8 RIP 97/144
BCLL 0.0 * BCDL 10.0	Rep Stress Incr YES Code IRC2018/TPI2014	WB 0.00 Matrix-P	Horz(CT) -0.00	4	n/a	n/a	Weight: 4 lb	FT = 10%
LUMBER- TOP CHORD 2x4 SP	BRACING- TOP CHORD	Structu	ural wood	sheathing di	irectly applied or 1-6-0 c	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)

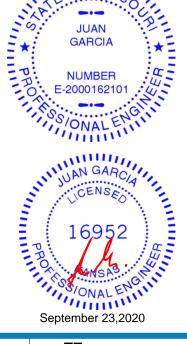
(size) 4=1-6-0, 2=1-6-0 Max Horz 2=24(LC 5) Max Uplift 4=-12(LC 8), 2=-28(LC 4)

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-

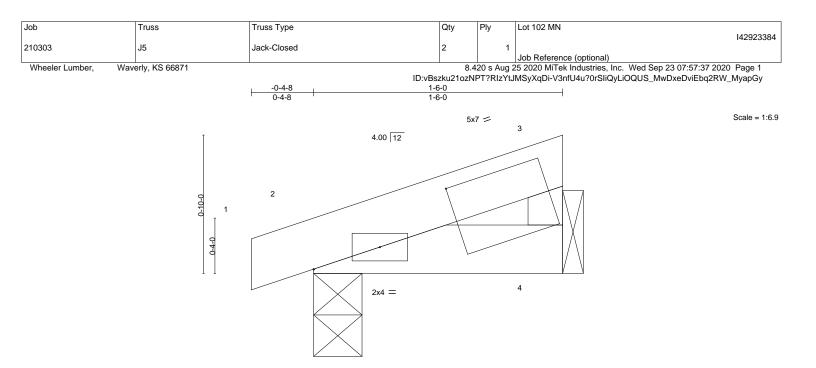
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Truss designed for wind loads in the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



FMIS

0





		1	1-6-0	
		I.	1-6-0	
Plate Offsets (X,Y)	[3:0-10-14,0-2-8]			

LOADING	G (psf)	SPACING- 2-0	-0 CSI .		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL 1.1	5 TC	0.02	Vert(LL)	-0.00	2	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL 1.1	5 BC	0.02	Vert(CT)	-0.00	2	>999	240		
BCLL	0.0 *	Rep Stress Incr YE	S WB	0.00	Horz(CT)	-0.00	4	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014	1 Mati	ix-P	Wind(LL)	0.00	2	****	240	Weight: 4 lb	FT = 10%
LUMBER	-		1		BRACING					I	

TOP CHORD

BOT CHORD

LUMBER-

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

Max Grav 4=57(LC 1), 2=94(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) 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 MIS

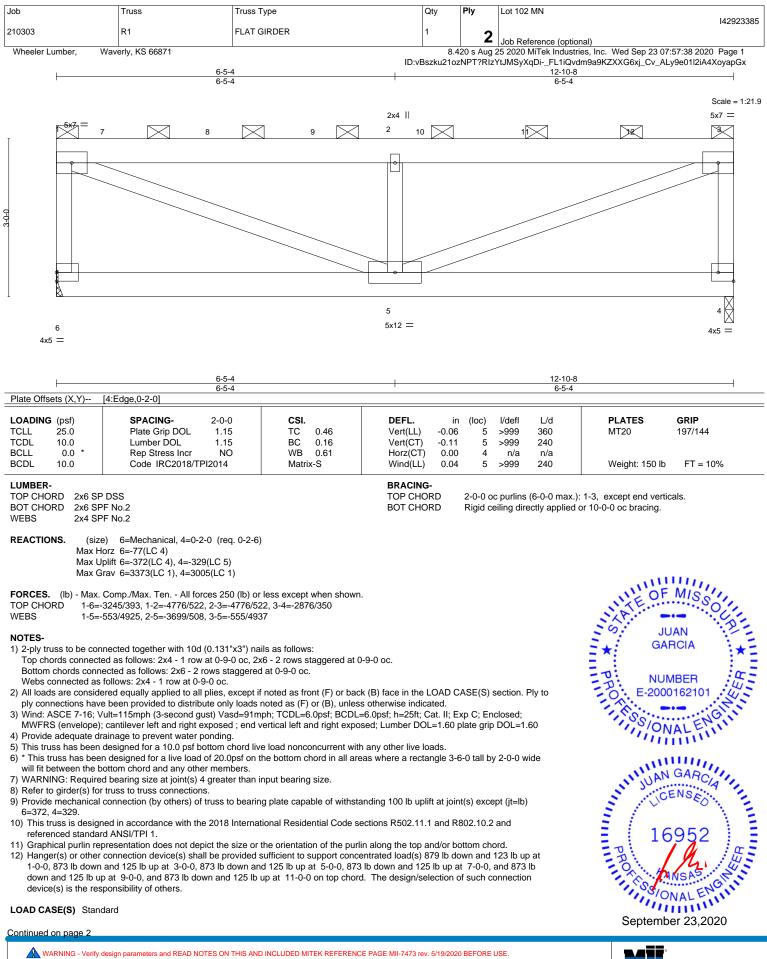
0

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

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

except end verticals.

MiTek 16023 Swingley Ridge Rd Chesterfield, MO 63017



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITER REFERENCE PAGE MIT-74/3 rev. 5/19/2020 BEFORE USE. Design valid for use only with MITER® 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

Mitek° 16023 Swingley Ridge Rd Chesterfield, MO 63017

Γ	lob	Truss	Truss Type	Qty	Ply	Lot 102 MN
						142923385
	210303	R1	FLAT GIRDER	1	2	
					2	Job Reference (optional)
	Wheeler Lumber, Wave	erly, KS 66871		8.4	20 s Aug 2	25 2020 MiTek Industries, Inc. Wed Sep 23 07:57:38 2020 Page 2

ID:vBszku21ozNPT?RIzYtJMSyXqDi-_FL1iQvdm9a9KZXXG6xj_Cv_ALy9e01l2iA4XoyapGx

LOAD CASE(S) Standard

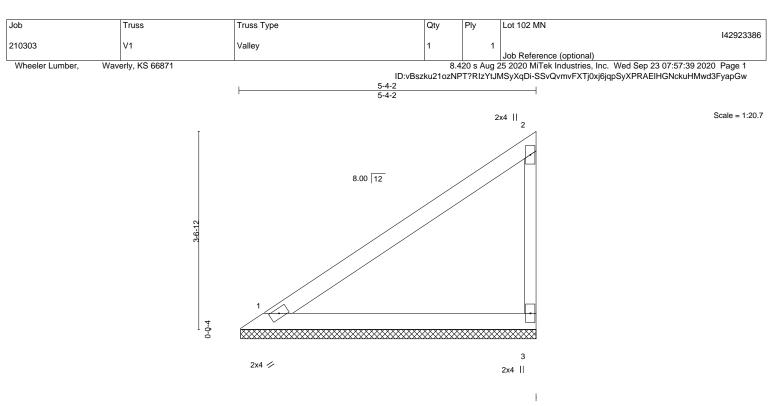
1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15

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

Concentrated Loads (lb)

Vert: 7=-879 8=-873 9=-873 10=-873 11=-873 12=-873





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	0.44	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.23	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/T	PI2014	Matri	x-P						Weight: 15 lb	FT = 10%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

WEBS 2x3 SPF No.2

REACTIONS. 1=5-3-12, 3=5-3-12 (size) Max Horz 1=126(LC 5) Max Uplift 1=-18(LC 8), 3=-62(LC 8) Max Grav 1=214(LC 1), 3=230(LC 15)

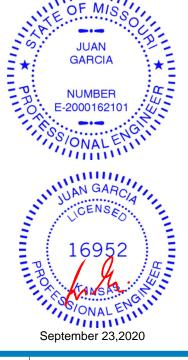
FORCES. (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) or less except when shown.

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.



1111

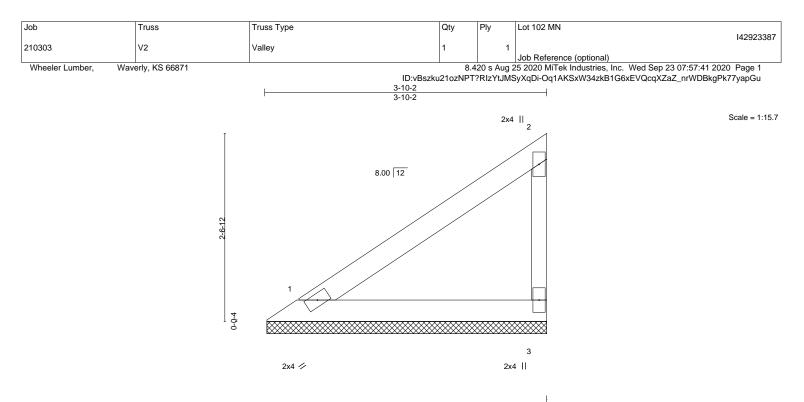
0

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

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

except end verticals.





LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. ir	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL 1.15	TC 0.19	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: 11 lb	FT = 10%

BOT CHORD

LUMBER-

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

REACTIONS. 1=3-9-12, 3=3-9-12 (size) Max Horz 1=86(LC 7)

Max Uplift 1=-12(LC 8), 3=-42(LC 8)

Max Grav 1=147(LC 1), 3=157(LC 15)

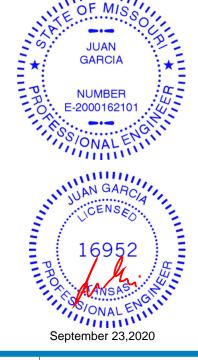
FORCES. (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) or less except when shown.

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.



11 1111

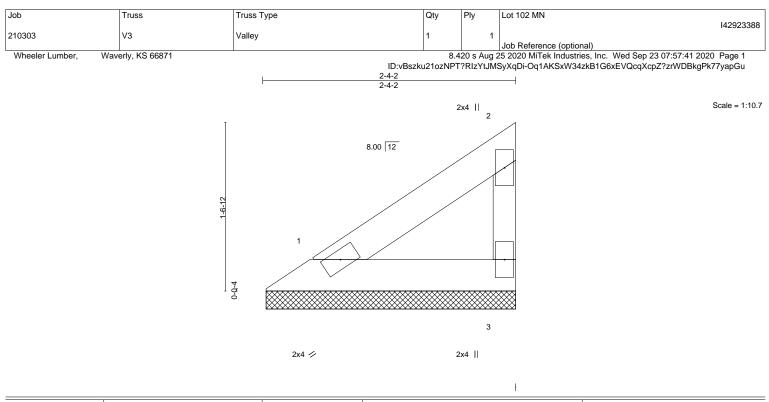
0

Structural wood sheathing directly applied or 3-10-2 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 0.05 BC 0.03 WB 0.00 Matrix-P	Vert(LL) n/a - Vert(CT) n/a -	defl L/d n/a 999 n/a 999 n/a n/a	PLATES GRIP MT20 197/144 Weight: 6 lb FT = 10%
LUMBER-			BRACING-		

BOT CHORD

LUMBER-

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

REACTIONS. 1=2-3-12, 3=2-3-12 (size) Max Horz 1=47(LC 5) Max Uplift 1=-7(LC 8), 3=-23(LC 8)

Max Grav 1=79(LC 1), 3=85(LC 15)

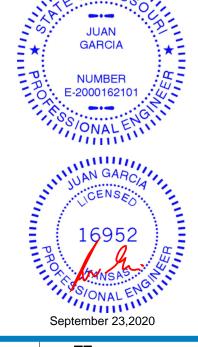
FORCES. (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) or less except when shown.

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.



11111 MIS

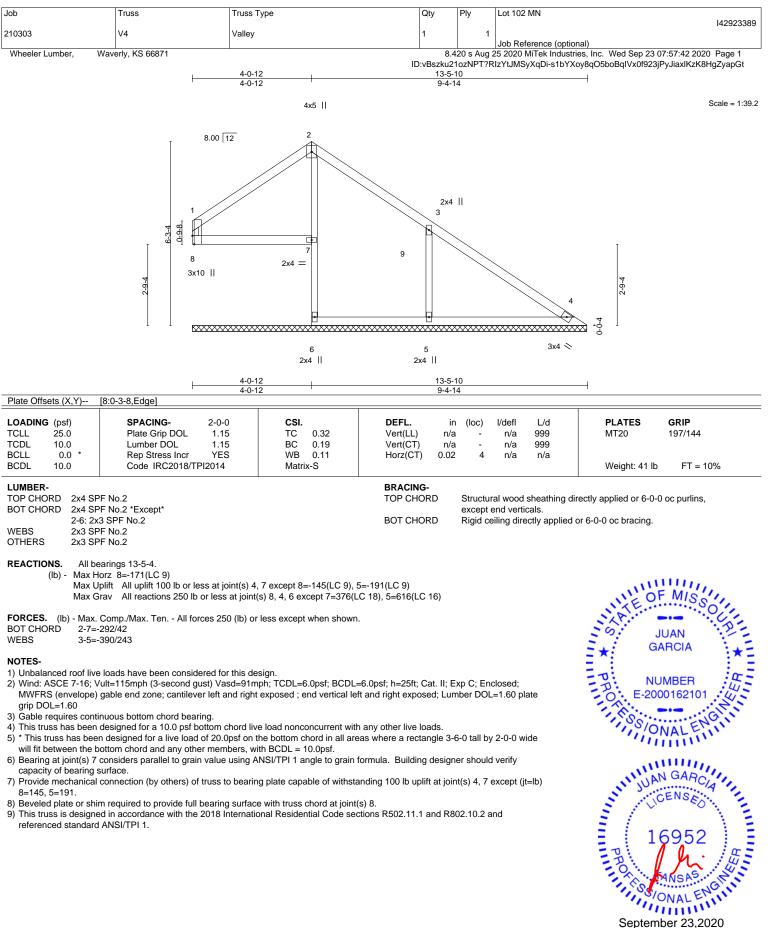
0

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

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

except end verticals.





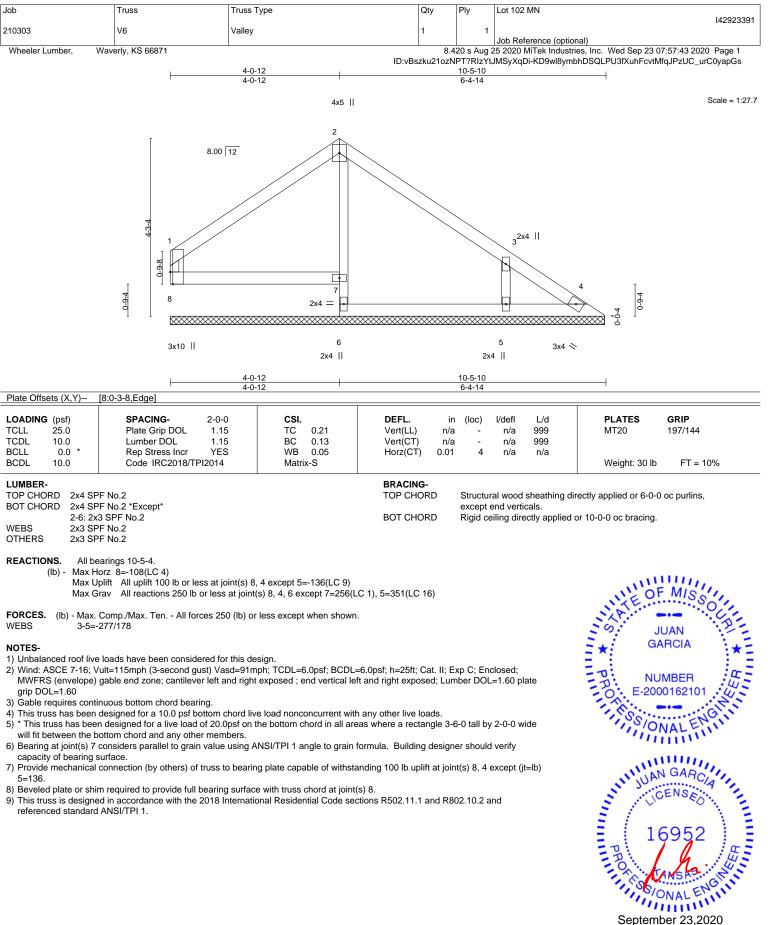
September 23,2020



Job	Truss	Truss Type	Qty	Ply	Lot 102 MN	14292339
210303	V5	Valley	1	1	Job Reference (option	al)
Wheeler Lumber,	Waverly, KS 66871				25 2020 MiTek Industrie	es, Inc. Wed Sep 23 07:57:43 2020 Page 1 DSQLPU3fXuhFcvmMfpJPkUC_urC0yapGs
	 	4-0-12 4-0-12	11-	<u>11-10</u> 10-14		
			7-1	10-14		Seela - 1:22
		4x5				Scale = 1:32
		2				
	8.00 1					
			\mathbf{i}			
				2x4	11	
				3	11	
	0-9-8-			ß	<	
	. ٩ ↓	7		>	\sim	Ī
	8 3x10	2x4 =				4
	す 3x10				4	1-0-1 4-0-1
			*****		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	
		6		5	3x4 ≷	
		2x4		4		
		4-0-12 4-0-12		<u>11-10</u> 10-14		
Plate Offsets (X,Y)	[8:0-3-8,Edge]	4*0*12		10-14		
LOADING (psf)	SPACING- 2-0-0		DEFL. in	(loc)	l/defl L/d	PLATES GRIP
TCLL 25.0 TCDL 10.0	Plate Grip DOL 1.15 Lumber DOL 1.15		Vert(LL) n/a Vert(CT) n/a		n/a 999 n/a 999	MT20 197/144
BCLL 0.0 * BCDL 10.0	Rep Stress Incr YES Code IRC2018/TPI2014		Horz(CT) 0.02		n/a n/a	Weight: 35 lb FT = 10%
			BRACING			
	PF No.2		BRACING- TOP CHORD			ectly applied or 6-0-0 oc purlins,
	PF No.2 *Except* x3 SPF No.2		BOT CHORD		end verticals. eiling directly applied o	r 10-0-0 oc bracing.
	PF No.2 PF No.2					,
(lb) - Max I	earings 11-11-4. Horz 8=-131(LC 4)					
	Jplift All uplift 100 lb or less at jo Grav All reactions 250 lb or less					OF MISSIN
	. Comp./Max. Ten All forces 250					NATE.
BOT CHORD 2-7=	-262/23					JUAN D
	-317/201					
NOTES- 1) Unbalanced roof liv	e loads have been considered for	this design.				-
	Vult=115mph (3-second gust) Vas) gable end zone; cantilever left a					NUMBER
grip DOL=1.60		in light exposed , the vehical i	en and right exposed, Ean			
) This truss has beer	tinuous bottom chord bearing. n designed for a 10.0 psf bottom c					SONAL ENUI
	en designed for a live load of 20.0 bottom chord and any other mem		reas where a rectangle 3-6	6-0 tall by	y 2-0-0 wide	
Bearing at joint(s) 7	considers parallel to grain value		formula. Building design	er should	d verify	MILLION
	l connection (by others) of truss to	bearing plate capable of withs	tanding 100 lb uplift at joir	nt(s) 4, 7	except (jt=lb)	WAN GARCIA
8=106, 5=156. Beveled plate or sh	im required to provide full bearing	surface with truss chord at join	t(s) 8.			CENSED
	ed in accordance with the 2018 Ir			02.10.2 a	and	$= \frac{1}{2} \int \frac{1}{2} $
TETETETICEU Standal						16952
						P 1. H
						POR HANSIA H
						SOMAL ENGIN
						1111111
						September 23,2020

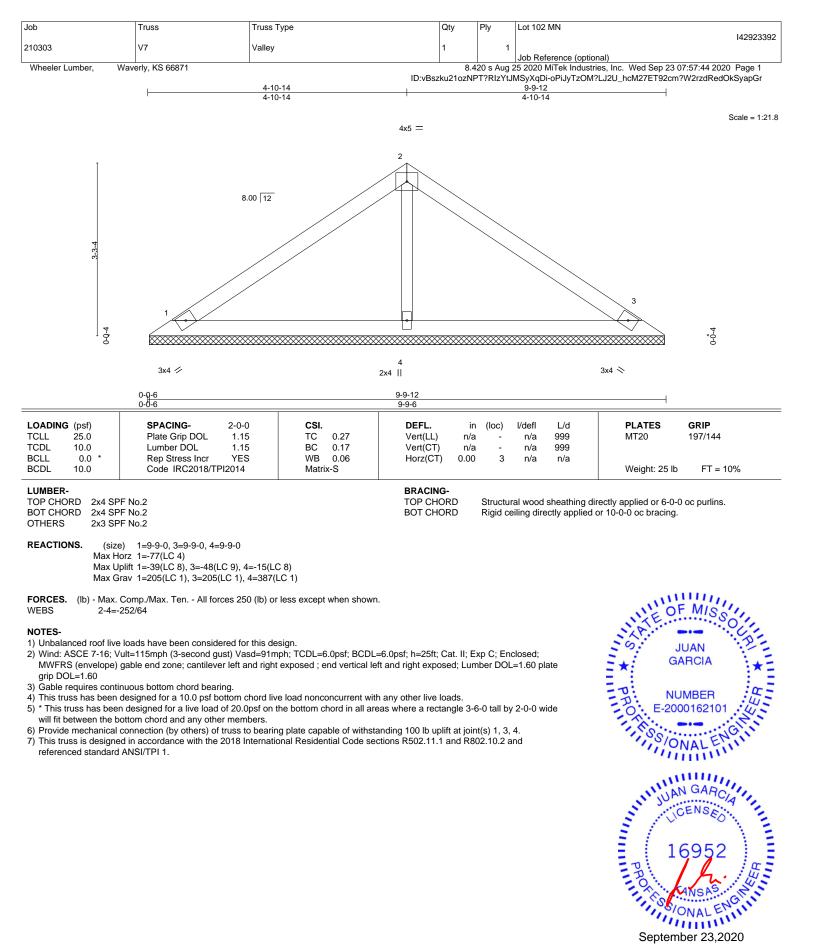
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, 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 16023 Swingley Ridge Rd Chesterfield, MO 63017

September 23,2020



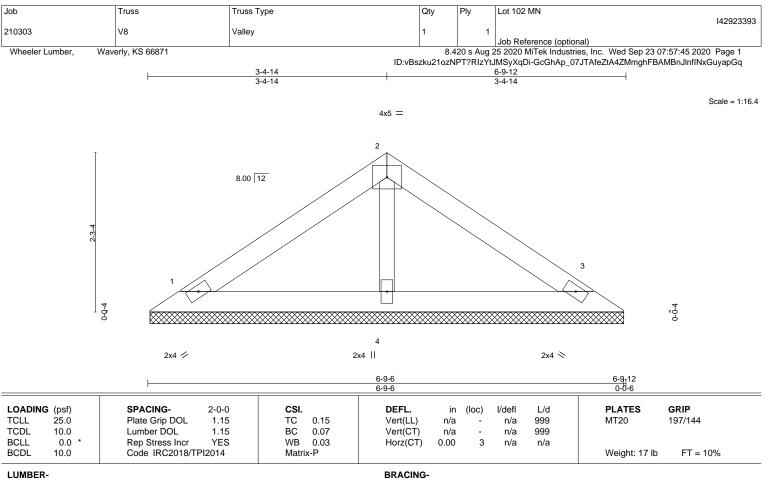
September 23,2020





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 preven tbuckling 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 sand 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

NiTek 16023 Swingley Ridge Rd Chesterfield, MO 63017



BOT CHORD

LUMBER-

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

OTHERS 2x3 SPF No.2

REACTIONS. 1=6-9-0, 3=6-9-0, 4=6-9-0 (size) Max Horz 1=-51(LC 4) Max Uplift 1=-33(LC 8), 3=-39(LC 9) Max Grav 1=148(LC 1), 3=148(LC 1), 4=230(LC 1)

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

NOTES-

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

2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=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

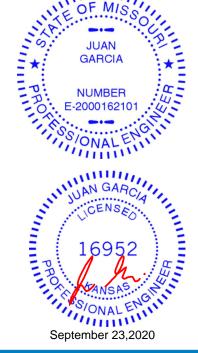
3) Gable requires continuous bottom chord bearing.

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

* 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 5) 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) 1, 3.

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

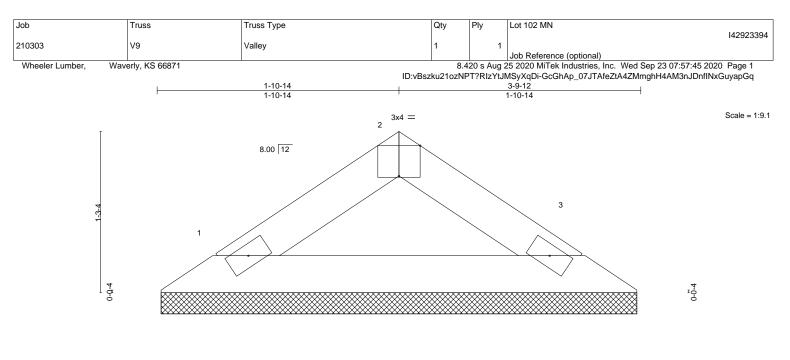


11

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

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





2x4 1/

2x4 📎

Structural wood sheathing directly applied or 3-9-12 oc purlins.

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

					<u>3-9-6</u> 3-9-6					<u>3-9-</u> 12 0-0-6	
Plate Offsets (X,Y)	[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	0.03	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC	0.08	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/TPI	2014	Matri	x-P						Weight: 8 lb	FT = 10%

TOP CHORD

BOT CHORD

LUMBER-

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

REACTIONS. 1=3-9-0, 3=3-9-0 (size) Max Horz 1=-25(LC 4) Max Uplift 1=-15(LC 8), 3=-15(LC 9) Max Grav 1=128(LC 1), 3=128(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

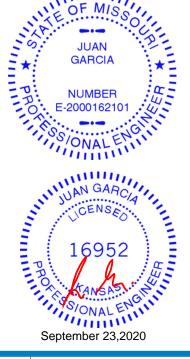
3) Gable requires continuous bottom chord bearing.

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

* 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 5) 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) 1, 3.

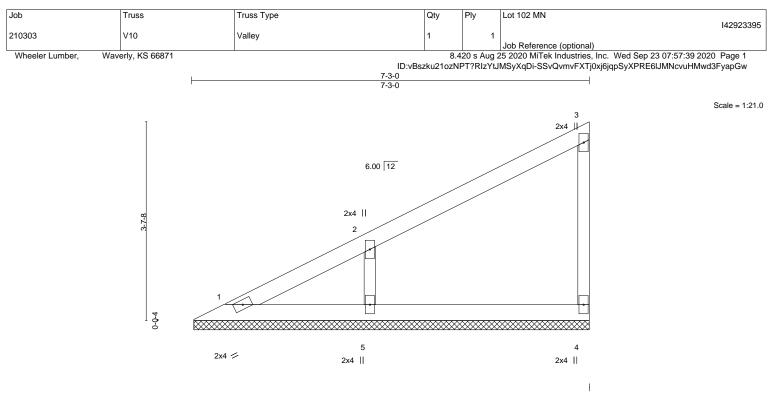
7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



11111

0





_OADING (psf)	SPACING- 2-0-0	CSI.	DEFL.	n (loc)	l/defl L/	d PLATES	GRIP
TCLL 25.0	Plate Grip DOL 1.15	TC 0.19	Vert(LL) n	a -	n/a 99	9 MT20	197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.10	Vert(CT) n	a -	n/a 99	9	
3CLL 0.0 *	Rep Stress Incr YES	WB 0.05	Horz(CT) -0.0	0 4	n/a n/	a	
BCDL 10.0	Code IRC2018/TPI2014	Matrix-P				Weight: 20 lb	FT = 10%

BOT CHORD

LUMBER-

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

REACTIONS. (size) 1=7-2-8, 4=7-2-8, 5=7-2-8 Max Horz 1=136(LC 5)

Max Uplift 4=-26(LC 8), 5=-113(LC 8) Max Grav 1=82(LC 16), 4=141(LC 1), 5=378(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. 2-5=-294/164WEBS

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

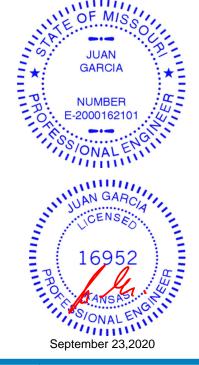
2) Gable requires continuous bottom chord bearing.

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) 4 except (jt=lb) 5 = 113

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.

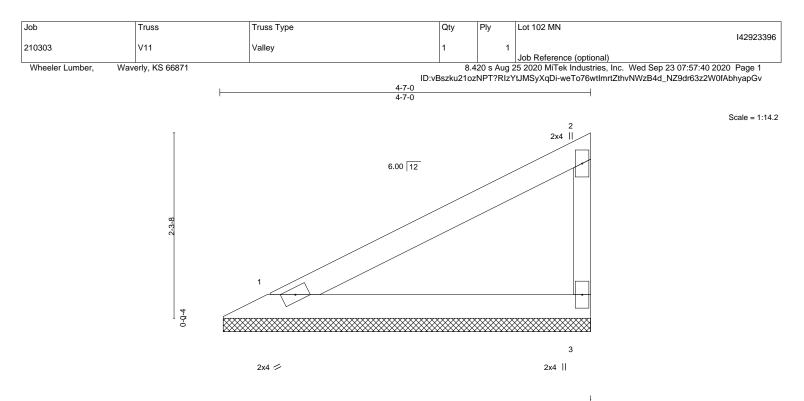


Structural wood sheathing directly applied or 6-0-0 oc purlins,

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 0.27	Vert(LL) n/a	- n/a	999	MT20	197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.15	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: 12 lb	FT = 10%

BOT CHORD

LUMBER-

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

REACTIONS. 1=4-6-8, 3=4-6-8 (size) Max Horz 1=80(LC 5)

Max Uplift 1=-22(LC 8), 3=-42(LC 8) Max Grav 1=173(LC 1), 3=173(LC 1)

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

NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=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.



11 1111 MIS

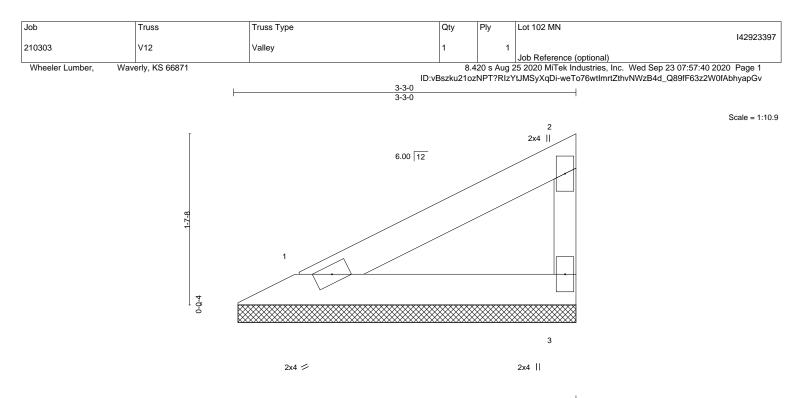
0

Structural wood sheathing directly applied or 4-7-0 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 0.11	Vert(LL)	n/a -	n/a 999	MT20	197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.06	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: 8 lb	FT = 10%

BOT CHORD

LUMBER-

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

REACTIONS. 1=3-2-8, 3=3-2-8 (size) Max Horz 1=53(LC 5)

Max Uplift 1=-15(LC 8), 3=-28(LC 8) Max Grav 1=113(LC 1), 3=113(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.

Wint PROM JUAN GARCIA NUMBER E-2000162101 8 3 E ONAL 1111 16952 Bonoscone September 23,2020 September 23,2020

11 1111 MIS

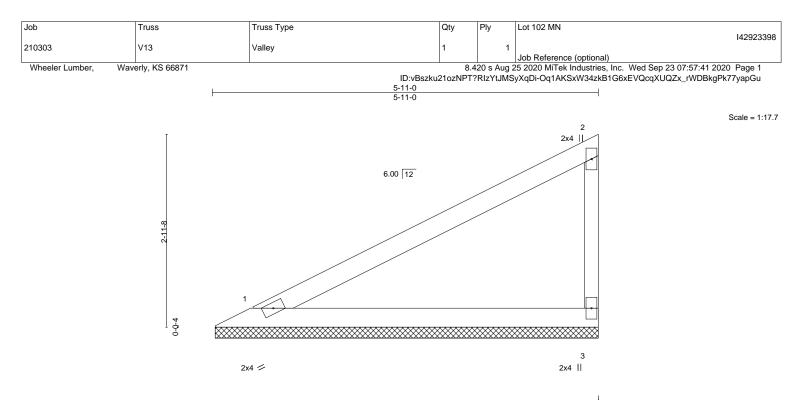
0

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

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

except end verticals.





OADING (psf)	SPACING- 2-0-0	CSI.	DEFL.	in (loc)	l/defl L/c	PLATES	GRIP
CLL 25.0	Plate Grip DOL 1.15	TC 0.52	Vert(LL)	n/a -	n/a 999	MT20	197/144
CDL 10.0	Lumber DOL 1.15	BC 0.28	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	1	
BCDL 10.0	Code IRC2018/TPI2014	Matrix-P				Weight: 15 lb	FT = 10%

BOT CHORD

LUMBER-

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

REACTIONS. 1=5-10-8, 3=5-10-8 (size) Max Horz 1=108(LC 5)

Max Uplift 1=-30(LC 8), 3=-57(LC 8) Max Grav 1=233(LC 1), 3=233(LC 1)

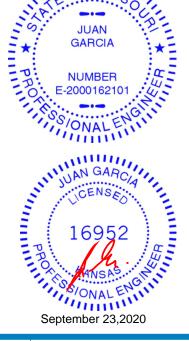
FORCES. (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) or less except when shown.

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.



11 1111 MIS

0

Structural wood sheathing directly applied or 5-11-0 oc purlins,

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

except end verticals.

MiTek 16023 Swingley Ridge Rd Chesterfield, MO 63017

