

- PATT

GAA

1695

November 04, 2020

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

RE: 400712 Lot 93 RR

Site Information:

Customer: Project Name: 400712 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 38 individual, dated Truss Design Drawings and 0 Additional Drawings.

No.	Seal#	Truss Name	Date	No.	Seal#	Truss Name	Date
1	143493297	A1	11/4/2020	21	l43493317	G8	11/4/2020
2	143493298	A2	11/4/2020	22	l43493318	J1	11/4/2020
3	143493299	B1	11/4/2020	23	l43493319	J2	11/4/2020
4	143493300	B2	11/4/2020	24	I43493320	J3	11/4/2020
5	I43493301	C1	11/4/2020	25	l43493321	J4	11/4/2020
6	I43493302	C2	11/4/2020	26	143493322	J5	11/4/2020
7	143493303	C3	11/4/2020	27	143493323	R1	11/4/2020
8	143493304	D1	11/4/2020	28	143493324	R2	11/4/2020
9	143493305	D2	11/4/2020	29	143493325	V1	11/4/2020
10	143493306	E1	11/4/2020	30	143493326	V2	11/4/2020
11	143493307	E2	11/4/2020	31	143493327	V3	11/4/2020
12	143493308	E3	11/4/2020	32	I43493328	V4	11/4/2020
13	143493309	E4	11/4/2020	33	143493329	V5	11/4/2020
14	l43493310	G1	11/4/2020	34	143493330	V6	11/4/2020
15	l43493311	G2	11/4/2020	35	l43493331	V7	11/4/2020
16	l43493312	G3	11/4/2020	36	l43493332	V8	11/4/2020
17	l43493313	G4	11/4/2020	37	143493333	V9	11/4/2020
18	l43493314	G5	11/4/2020	38	143493334	V10	11/4/2020
19	l43493315	G6	11/4/2020				
20	l43493316	G7	11/4/2020				

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.







RE: 400712 Lot 93 RR

Site Information:

Customer: Project Name: 400712 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

MiTek USA, Inc.

314-434-1200

16023 Swingley Ridge Rd Chesterfield, MO 63017

This package includes 38 individual, dated Truss Design Drawings and 0 Additional Drawings.

No.	Seal#	Truss Name	Date	No.	Seal#	Truss Name	Date
1	143493297	A1	11/4/2020	21	143493317	G8	11/4/2020
2	143493298	A2	11/4/2020	22	143493318	J1	11/4/2020
3	143493299	B1	11/4/2020	23	143493319	J2	11/4/2020
4	143493300	B2	11/4/2020	24	143493320	J3	11/4/2020
5	I43493301	C1	11/4/2020	25	l43493321	J4	11/4/2020
6	143493302	C2	11/4/2020	26	l43493322	J5	11/4/2020
7	143493303	C3	11/4/2020	27	l43493323	R1	11/4/2020
8	143493304	D1	11/4/2020	28	143493324	R2	11/4/2020
9	143493305	D2	11/4/2020	29	l43493325	V1	11/4/2020
10	143493306	E1	11/4/2020	30	l43493326	V2	11/4/2020
11	143493307	E2	11/4/2020	31	143493327	V3	11/4/2020
12	143493308	E3	11/4/2020	32	143493328	V4	11/4/2020
13	143493309	E4	11/4/2020	33	143493329	V5	11/4/2020
14	l43493310	G1	11/4/2020	34	143493330	V6	11/4/2020
15	l43493311	G2	11/4/2020	35	l43493331	V7	11/4/2020
16	l43493312	G3	11/4/2020	36	143493332	V8	11/4/2020
17	l43493313	G4	11/4/2020	37	143493333	V9	11/4/2020
18	143493314	G5	11/4/2020	38	143493334	V10	11/4/2020
19	l43493315	G6	11/4/2020				
20	143493316	G7	11/4/2020				

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.



Garcia, Juan

November 04, 2020



	L	4-0-0				8-0-0					12-0-0	
	I	4-0-0		I		4-0-0					4-0-0	
Plate Off	sets (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	-4-1,0-2-8]							
LOADING	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	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	Matri	x-S	Wind(LL)	0.06	8-9	>999	240	Weight: 39 lb	FT = 10%
LUMBER	!-					BRACING-						

BOT CHORD

LUMBER-

LOWIDER	
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 27) 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.

- 2-3=-1231/277, 3-4=-1024/269, 4-5=-1232/276, 2-10=-806/214, 5-7=-806/213 TOP CHORD
- 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 arip 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 201 lb uplift at joint 10 and 201 lb uplift at joint 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.
- 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

- 1) 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/TPH 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.



ſ	lob	Truss	Truss Type	Qty	Ply	Lot 93 RR
						143493297
ŀ	100712	A1	Hip Girder	1	1	
						Job Reference (optional)
	Wheeler Lumber, Wav	erly, KS - 66871,		8	.420 s Oct	9 2020 MiTek Industries, Inc. Wed Nov 4 11:08:38 2020 Page 2

8.420 s Oct 9 2020 MiTek Industries, Inc. Wed Nov 4 11:08:38 2020 Page 2 ID:2ncXplsxOfbjIB6I7Q?gPMzrYWU-G0CDVIYnIg1jLaifQMHVyd_qipCHszdN0YmMIGyMaZd

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)





5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 90 lb uplift at joint 8 and 90 lb uplift at joint 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.



16023 Swingley Ridge Rd Chesterfield, MO 63017



			5-11-0						
LOADING (psf) SPACING- TCLL 25.0 Plate Grip D0 TCDL 10.0 Lumber DOL BCLL 0.0 * Rep Stress In BCDL 10.0 Code IRC20	2-0-0 DL 1.15 1.15 ncr YES 18/TPI2014	CSI. TC 0.64 BC 0.35 WB 0.00 Matrix-P	DEFL. Vert(LL) Vert(CT) Horz(CT) Wind(LL)	in -0.07 -0.13 -0.00 0.00	(loc) 2-4 2-4 4 2	l/defl >999 >526 n/a	L/d 360 240 n/a 240	PLATES MT20 Weight: 16 lb	GRIP 197/144 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
- REACTIONS. 4=Mechanical, 2=0-3-8 (size) Max Horz 2=91(LC 5) Max Uplift 4=-55(LC 8), 2=-65(LC 4) Max Grav 4=257(LC 1), 2=297(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 55 lb uplift at joint 4 and 65 lb uplift at joint 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 WILL PROM JUAN GARCIA NUMBER E-2000162101 8 3 E ONAL 1111 16952 BORNALEN November 4,2020 JGIT

11 1111

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

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

except end verticals.

🛦 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/TPH Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



November 4,2020



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

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x4 SPF 2100F 1.8E BOT CHORD 2x4 SPF 2100F 1.8E WEBS 2x3 SPF No.2

REACTIONS. 4=Mechanical, 2=0-3-8 (size) Max Horz 2=121(LC 7) Max Uplift 4=-74(LC 8), 2=-79(LC 4) Max Grav 4=348(LC 1), 2=386(LC 1)

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

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 74 lb uplift at joint 4 and 79 lb uplift at joint 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

 \cap

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

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

except end verticals.

November 4,2020

MiTek 16023 Swingley Ridge Rd Chesterfield, MO 63017



		- -		1		i						
LOADING	(psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	тс	0.09	Vert(LL)	0.00	Ì Í	n/r	120	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.03	Vert(CT)	0.00	1	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.03	Horz(CT)	-0.00	8	n/a	n/a		
BCDL	10.0	Code IRC2018/TI	PI2014	Matri	x-S						Weight: 35 lb	FT = 10%

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 OTHERS 2x4 SPF No.2

REACTIONS. All bearings 10-0-0.

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

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.



11111 MIS

0





				4-11-6				5	-0-10		
LOADIN TCLL	G (psf) 25.0	SPACING- Plate Grip DOL	2-0-0 1.15	CSI. TC 0.30	DEFL Vert(L	. in L) -0.02	(loc) 2-6	l/defl >999	L/d 360	PLATES MT20	GRIP 197/144
TCDL BCLL	10.0 0.0 *	Lumber DOL Rep Stress Incr	1.15 YES	BC 0.26 WB 0.50	Vert(C Horz(CT) -0.04 CT) 0.01	5-6 5	>999 n/a	240 n/a		
BCDL	10.0	Code IRC2018/	TPI2014	Matrix-S	Wind(LL) 0.02	2-6	>999	240	Weight: 33 lb	FT = 10%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

REACTIONS. (size) 5=Mechanical, 2=0-3-8 Max Horz 2=158(LC 5) Max Uplift 5=-94(LC 8), 2=-115(LC 4)

Max Grav 5=435(LC 1), 2=514(LC 1)

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

TOP CHORD 2-3=-782/113

BOT CHORD 2-6=-134/682, 5-6=-134/682

WEBS 3-5=-714/178

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 except (jt=lb) 2=115.

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.

B JUAN GARCIA NUMBER E-2000162101 SS/ONAL ENGINE 16952 DO 16952

11111

0

MIS

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

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

except end verticals.

Kitek* 16023 Swingley Ridge Rd Chesterfield, MO 63017



LOADING (ps	sf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 25	.0	Plate Grip DOL	1.15	TC	0.29	Vert(LL)	-0.10	5-6	>935	360	MT20	197/144
TCDL 10.	0.0	Lumber DOL	1.15	BC	0.44	Vert(CT)	-0.20	5-6	>473	240		
BCLL 0).0 *	Rep Stress Incr	YES	WB	0.36	Horz(CT)	0.01	5	n/a	n/a		
BCDL 10.	0.0	Code IRC2018/TP	2014	Matrix-	-S	Wind(LL)	-0.01	5-6	>999	240	Weight: 36 lb	FT = 10%
LUMBER-	·		·			BRACING-						
TOP CHORD	2x4 SPF	No.2				TOP CHOR	D	Structu	ral wood :	sheathing dire	ectly applied or 6-0-0	oc purlins,
BOT CHORD	2x4 SPF	No.2						except	end vertic	als.		
WEBS	2x3 SPF	No.2				BOT CHOR	D	Rigid ce	eiling dire	ctly applied o	r 10-0-0 oc bracing.	
OTHERS	2x4 SPF	No.2										

REACTIONS. (size) 5=Mechanical, 2=2-3-8, 6=0-3-8 Max Horz 2=158(LC 5) Max Uplift 5=-112(LC 8), 2=-172(LC 4) Max Grav 5=398(LC 1), 2=349(LC 1), 6=346(LC 3)

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

TOP CHORD 2-3=-619/203 BOT CHORD 2-6=-217/526 5-6=-217/5

BOT CHORD 2-6=-217/526, 5-6=-217/526 WEBS 3-5=-545/271

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
- 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.
 All plates are 2x4 MT20 unless otherwise indicated.

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

8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 5=112, 2=172.

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.







	1			22-4-0						1
	Г —			22-4-0						
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 0.0	.09 Vert(LL)	0.00	13	n/r	120	MT20	197/144
TCDL	10.0	Lumber DOL 1.15	BC 0.0	.06 Vert(CT)	0.00	13	n/r	120		
BCLL	0.0 *	Rep Stress Incr YES	WB 0.0	.03 Horz(CT)	0.00	12	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014	Matrix-S						Weight: 77 lb	FT = 10%
LUMBER-				BRACING-						

BOT CHORD

UMBER-

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 12) (lb) -

- Max Uplift All uplift 100 lb or less at joint(s) 2, 20, 21, 22, 23, 18, 17, 15, 14, 12
- All reactions 250 lb or less at joint(s) 2, 19, 20, 21, 22, 18, 17, 15, 12 except 23=275(LC 21), Max Grav 14=275(LC 22)
- 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) 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) 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 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		14-7-6		22-4-0	
Plate Offset	s (X,Y)	[2:0-0-0,0-0-10], [6:0-0-0,0-0-10]		b-10-12		7-8-10	
LOADING TCLL 2 TCDL 6 BCLL BCDL 7	(psf) 25.0 10.0 0.0 * 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	(loc) I/defl L/d 9-10 >999 360 6-9 >999 240 6 n/a n/a 9-10 >999 240	PLATES MT20 Weight: 68 lb	GRIP 197/144 FT = 10%
LUMBER- TOP CHOR BOT CHOR WEBS	D 2x4 SP D 2x4 SP 2x3 SP	F No.2 F No.2 F No.2		BRACING- TOP CHORD BOT CHORD	Structural wood sheathin Rigid ceiling directly appl	g directly applied or 3-7-2 ied or 10-0-0 oc bracing.	oc purlins.
REACTION	S. (size Max Ho Max Up Max Gr	e) 2=0-3-8, 6=0-3-8 orz 2=71(LC 8) plift 2=-189(LC 4), 6=-189(LC 5) rav 2=1063(LC 1), 6=1063(LC 1)					110.
FORCES. TOP CHOR BOT CHOR WEBS	(lb) - Max. (D 2-3=-2 D 2-10= 4-9=-{	Comp./Max. Ten All forces 250 (2232/355, 3-4=-1909/259, 4-5=-19 -333/2049, 9-10=-127/1406, 6-9=- 59/541, 5-9=-418/221, 4-10=-58/54	o) or less except when shown. 99/260, 5-6=-2232/355 280/2049 1, 3-10=-418/221			ALE OF	MISSOUT
NOTES- 1) Unbalanc 2) Wind: AS MWFRS grip DOL	ced roof live CE 7-16; Vi (envelope) =1.60	loads have been considered for th ult=115mph (3-second gust) Vasd gable end zone; cantilever left and	s design. 91mph; TCDL=6.0psf; BCDL=6.0j right exposed ; end vertical left an	psf; h=25ft; Cat. II; E d right exposed; Lun	xp C; Enclosed; nber DOL=1.60 plate	A GA NU	MBER 0162101

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) 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



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 ocllapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSUTPH 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 systems, see **ANSI/TPH Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



November 4,2020



- 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. (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) 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.



16023 Swingley Ridge Rd Chesterfield, MO 63017

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 **ANSUTPH 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

Job	Truss	Truss Type	Qty	Ply	Lot 93 RR
					143493309
400712	E4	COMMON GIRDER	1	3	
				5	Job Reference (optional)
Wheeler Lumber, Way	verly, KS - 66871,		8	.420 s Oct	9 2020 MiTek Industries, Inc. Wed Nov 4 11:08:47 2020 Page 2
		ID:2ncX	plsxOfbjIB	6l7Q?qPN	IzrYWU-VIEdOqfQARASwyuOSIxcqWsQJRMYTvqi5SSL6FyMaZU

NOTES-

10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1659 lb down and 39 lb up at 2-0-0, 1659 lb down and 39 lb up at 4-0-0, 1583 lb down and 39 lb up at 6-0-0, 1583 lb down and 39 lb up at 8-0-0, 1668 lb down and 39 lb up at 10-0-0, 1665 lb down and 39 lb up at 12-0-0, 1665 lb down and 39 lb up at 12-0-0, 1665 lb down and 39 lb up at 12-0-0, and 1665 lb down and 39 lb up at 16-0-0, and 1578 lb down and 219 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: 1-2=-70, 2-4=-70, 4-6=-70, 7-12=-20

Concentrated Loads (lb)

Vert: 9=-1587(B) 10=-1583(B) 8=-1587(B) 11=-1583(B) 13=-1578(B) 14=-1578(B) 15=-1583(B) 16=-1587(B) 17=-1578(B)

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) 41, 33, 34, 35,

- 36, 37, 38, 39, 31, 30, 29, 28, 27, 26, 25 except (jt=lb) 40=112, 24=103. 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.

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 systems, see **ANSITTPI 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

L	5-9-10 13-9-10		22-2-6	30-2-6	36-0-0
	5-9-10 8-0-0	1	8-4-12	8-0-0	5-9-10
Plate Offsets (X,Y)	[12:0-3-12,Edge], [13:0-2-8,0-2-8], [18:0	-2-8,0-2-8], [19:0-3-12,Ec	dge]		
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 0.92 BC 0.53 WB 0.74 Matrix-S	DEFL. in Vert(LL) -0.26 Vert(CT) -0.43 Horz(CT) 0.08 Wind(LL) 0.11	(loc) I/defl L/d 15-16 >999 360 15-16 >996 240 12 n/a n/a 16-18 >999 240	PLATES GRIP MT20 197/144 Weight: 145 lb FT = 10%
LUMBER- TOP CHORD 2x4 SP BOT CHORD 2x4 SP WEBS 2x3 SP 2-19,10	F No.2 F 2100F 1.8E F No.2 *Except* -12: 2x6 SPF No.2		BRACING- TOP CHORD BOT CHORD WEBS	Structural wood sheathing dir Rigid ceiling directly applied of 1 Row at midpt 9	rectly applied, except end verticals. or 10-0-0 oc bracing.)-15, 3-16
REACTIONS. (size Max He Max U Max G	e) 19=0-3-8, 12=0-5-8 brz 19=-150(LC 9) plift 19=-224(LC 8), 12=-224(LC 9) rav 19=1743(LC 2), 12=1743(LC 2)				NOT MIST
FORCES. (lb) - Max. TOP CHORD 2-3=-: 9-10= BOT CHORD 18-19 WEBS 6-15=	Comp./Max. Ten All forces 250 (lb) or 2882/343, 3-5=-2373/287, 5-6=-2351/43 2882/344, 2-19=-1638/249, 10-12=-16 226/675, 16-18=-383/2516, 15-16=-6 284/1056, 7-15=-500/276, 9-15=-572/2	less except when shown. 11, 6-7=-2351/431, 7-9=-2 38/248 3/1605, 13-15=-233/2516 20, 6-16=-284/1056, 5-16	2373/287, 5, 12-13=-89/598 6=-500/276,		JUAN GARCIA
 NOTES- 1) Unbalanced roof live 2) Wind: ASCE 7-16; V MWFRS (envelope) grip DOL=1.60 3) This truss has been 4) * This truss has been 4) * This truss has been 5) Provide mechanical 19=224, 12=224. 6) This truss is designed 	-body 1000; 1-13-300/210; 3-10-0722 -572/220; 2-18=-157/1925; 10-13=-144 loads have been considered for this de ult=115mph (3-second gust) Vasd=91m gable end zone; cantilever left and right designed for a 10.0 psf bottom chord liv n designed for a live load of 20.0psf on t ottom chord and any other members, wi connection (by others) of truss to bearin d in accordance with the 2018 Internation of the second second second second second second second d in accordance with the 2018 Internation	sign. ph; TCDL=6.0psf; BCDL= exposed ; end vertical lef e load nonconcurrent with he bottom chord in all are th BCDL = 10.0psf. g plate capable of withstama nal Residential Code sec	=6.0psf; h=25ft; Cat. II; E: ft and right exposed; Lum n any other live loads. eas where a rectangle 3-6 anding 100 lb uplift at join	xp C; Enclosed; iber DOL=1.60 plate 6-0 tall by 2-0-0 wide t(s) except (jt=lb) 12 10 2 and	NUMBER B. E-2000162101
referenced standard	ANSI/TPI 1.	nai residential Code sec		12.10.2 anu	CENSED

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

L	5-9-10 13-9-1)	22-2-6	30-2-6	36-0-0	
I	5-9-10 8-0-0	I	8-4-12	8-0-0	5-9-10	1
Plate Offsets (X,Y)	[11:0-3-12,Edge], [12:0-2-8,0-2-8], [17:0	-2-8,0-2-8], [18:0-3-12,Ed	lge]			
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 0.92 BC 0.53 WB 0.70 Matrix-S	DEFL. in Vert(LL) -0.27 1 Vert(CT) -0.43 1 Horz(CT) 0.08 1 Wind(LL) 0.08 1	(loc) I/defl L/d 4-15 >999 360 4-15 >994 240 11 n/a n/a 5-17 >999 240	PLATES MT20 Weight: 144 lb	GRIP 197/144 FT = 10%
LUMBER- TOP CHORD 2x4 SP BOT CHORD 2x4 SP WEBS 2x3 SP 2-18,10	F No.2 F 2100F 1.8E F No.2 *Except* 0-11: 2x6 SPF No.2		BRACING- TOP CHORD BOT CHORD WEBS	Structural wood sheathing dir Rigid ceiling directly applied c 1 Row at midpt 9	ectly applied, except en or 10-0-0 oc bracing. -14, 3-15	nd verticals.
REACTIONS. (size Max H Max U Max G	e) 18=0-3-8, 11=Mechanical orz 18=123(LC 5) plift 18=-31(LC 8), 11=-19(LC 9) rav 18=1744(LC 2), 11=1679(LC 2)					Mich
FORCES. (lb) - Max. TOP CHORD 2-3=- 9-10= BOT CHORD 17-18 WEBS 6-14= 3-15=	Comp./Max. Ten All forces 250 (lb) or 2884/46, 3-5=-2375/55, 5-6=-2353/150, 2890/47, 2-18=-1639/57, 10-11=-1572 3=-107/674, 15-17=-80/2566, 14-15=0/1 117/1074, 7-14=-495/166, 9-14=-586/1 572/109, 2-17=0/1927, 10-12=0/2024	less except when shown. 6-7=-2353/150, 7-9=-237 /45 618, 12-14=0/2530, 11-12 11, 6-15=-117/1073, 5-15	7/55, =-15/514 5=-500/166,		GAF	AN ACIA
NOTES- 1) Unbalanced roof live 2) Wind: ASCE 7-16; V MWFRS (envelope); 3) This truss has been 4) * This truss has been will fit between the b 5) Refer to girder(s) for 6) Provide mechanical	loads have been considered for this de ult=115mph (3-second gust) Vasd=91m cantilever left and right exposed ; end v designed for a 10.0 psf bottom chord liv n designed for a live load of 20.0psf on t ottom chord and any other members, wi truss to truss connections. connection (by others) of truss to bearin	sign. ph; TCDL=6.0psf; BCDL= rertical left and right expose load nonconcurrent with he bottom chord in all are th BCDL = 10.0psf. g plate capable of withsta	6.0psf; h=25ft; Cat. II; Exp sed; Lumber DOL=1.60 pla any other live loads. as where a rectangle 3-6- nding 100 lb uplift at joint(o C; Enclosed; ate grip DOL=1.60 0 tall by 2-0-0 wide s) 18, 11.	P. NUM E-2000	BER 162101

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.

16023 Swingley Ridge Rd Chesterfield, MO 63017

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 0.91 BC 0.80 WB 0.99 Matrix-S	DEFL. Vert(LL) Vert(CT) Horz(CT) Wind(LL)	in (loc) -0.28 16-17 -0.58 16-17 0.31 11 0.15 16-17	l/defl L/d >999 360 >743 240 n/a n/a >999 240	PLATES MT20 Weight: 172 I	GRIP 197/144 b FT = 10%
LUMBER- TOP CHORD 2x4 SI 4-6: 2: BOT CHORD 2x4 SI 2-16: : WEBS 2x3 SI 2-18,1	PF No.2 *Except* x6 SPF No.2, 1-4: 2x8 SP DSS PF No.2 *Except* 2x4 SPF 2100F 1.8E, 5-15: 2x3 SPF No. PF No.2 *Except* 0-11: 2x6 SPF No.2	2	BRACING- TOP CHORE BOT CHORE WEBS) Structur) Rigid ce 1 Row a	al wood sheathing eiling directly applie at midpt	g directly applied, excep ed or 10-0-0 oc bracing. 3-16, 9-13	nt end verticals.
REACTIONS. (siz Max H Max U Max C	te) 1=0-3-8, 11=Mechanical Horz 1=116(LC 5) Jplift 1=-19(LC 8), 11=-19(LC 9) Grav 1=1603(LC 1), 11=1603(LC 1)					INTEO	FMISSO
FORCES. (lb) - Max TOP CHORD 1-2= 7-9= BOT CHORD 2-17 WEBS 3-16 9-13	Comp./Max. Ten All forces 250 (lb) or -860/60, 2-3=-3967/81, 3-5=-2652/57, 5- -2270/53, 9-10=-2774/49, 10-11=-1537/4 =-130/3819, 16-17=-126/3814, 5-16=-45 =-1619/147, 13-16=0/1525, 6-16=-115/1 581/115, 10-12=0/1927	less except when shown. 6=-2598/151, 6-7=-2231/1 I6 8/158, 12-13=-1/2417, 11- 348, 6-13=-124/834, 7-13=	47, 12=-13/447 478/164,			G A NI	
NOTES- 1) Unbalanced roof liv 2) Wind: ASCE 7-16; MWFRS (envelope 3) This truss has beer	e loads have been considered for this de Vult=115mph (3-second gust) Vasd=91m); cantilever left and right exposed ; end v i designed for a 10.0 psf bottom chord liv	sign. ph; TCDL=6.0psf; BCDL= rertical left and right expos e load nonconcurrent with	6.0psf; h=25ft; Cat ed; Lumber DOL= any other live loac	. II; Exp C; End 1.60 plate grip Is.	closed; DOL=1.60	-70 E-20	NAL ENGINE

will fit between the bottom chord and any other members. 5) Refer to girder(s) for truss to truss connections.

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

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

MiTek 16023 Swingley Ridge Rd Chesterfield, MO 63017

2-3-	8 5-9-9 13-9-9		22-2-7	30-7-0	33-2-7 36	<u>6-0-0</u>
Plate Offsets (X,Y)	[1:Edge,0-0-1], [2:0-6-14,Edge], [4:0-4-0	,Edge], [12:Edge,0-3-13],	[15:0-7-4,0-4-0]	0-4-9	2-7-0 2-	-9-10
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 0.76 BC 0.73 WB 0.84 Matrix-S	DEFL. in Vert(LL) -0.35 Vert(CT) -0.63 Horz(CT) 0.40 Wind(LL) 0.15	(loc) l/defl L/d 16-18 >999 360 15-16 >676 240 12 n/a n/a 18-19 >999 240	PLATES 0 MT20 0 M18SHS a Weight: 183 II	GRIP 197/144 197/144 b FT = 10%
LUMBER- TOP CHORD 2x6 SF 6-8: 2x BOT CHORD 2x4 SF 2-17: 2 15-17: WEBS 2x3 SF 2-20: 2	PF No.2 *Except* 4 SPF No.2, 1-4: 2x8 SP DSS, 8-11: 2x4 PF No.2 *Except* 2x6 SPF 1650F 1.4E, 9-14: 2x3 SPF No.2 2x4 SPF 2100F 1.8E PF No.2 *Except* 1x6 SPF No.2, 3-18,9-16,11-12,18-21,22-	23: 2x4 SPF No.2	BRACING- TOP CHORD BOT CHORD WEBS	Structural wood shear except end verticals. Rigid ceiling directly a 1 Row at midpt	thing directly applied or 2-10 applied or 10-0-0 oc bracing. 3-18, 9-16	-2 oc purlins,
REACTIONS. (siz Max H Max U Max C FORCES. (lb) - Max.	e) 1=0-3-8, 12=Mechanical lorz 1=115(LC 5) lplift 1=-19(LC 8), 12=-19(LC 9) srav 1=1685(LC 2), 12=1685(LC 2) Comp./Max. Ten All forces 250 (lb) or	less except when shown.			TIXA.	F MISSOL
TOP CHORD 1-2= 7-9= BOT CHORD 2-19	-932/61, 2-3=-4358/97, 3-5=-2824/48, 5-6 -2770/34, 9-10=-4642/68, 10-11=-2625/2 =-142/4224, 18-19=-140/4227, 16-18=0/1	6=-2783/140, 6-7=-2725/1 5, 11-12=-1592/33 849, 15-16=-30/4263, 9-1	29, 5=0/912,		*	
12-1 WEBS 3-18 9-16	3=-18/451 =-1836/171, 5-18=-462/158, 6-18=-112/1 =-1946/155, 13-15=0/2436, 10-15=-24/19	324, 6-16=-108/1243, 7-10 927, 10-13=-1327/22, 11-1	6=-490/168, 3=0/1860		PO E-20	00162101
NOTES- 1) Unbalanced roof liv. 2) Wind: ASCE 7-16; \ MWFRS (envelope) 3) All plates are MT20 4) All plates are MT20 5) This truss has been 6) * This truss has been will fit between the b 7) Refer to girder(s) fo 8) Provide mechanical	e loads have been considered for this de: /ult=115mph (3-second gust) Vasd=91m; ; cantilever left and right exposed ; end v plates unless otherwise indicated. T20 unless otherwise indicated. designed for a 10.0 psf bottom chord live n designed for a live load of 20.0psf on ti pottom chord and any other members, wir r truss to truss connections. connection (by others) of truss to bearin.	sign. bh; TCDL=6.0psf; BCDL=6 ertical left and right expose b load nonconcurrent with he bottom chord in all area th BCDL = 10.0psf. n plate capable of withstar	5.0psf; h=25ft; Cat. II; Ex ed; Lumber DOL=1.60 p any other live loads. as where a rectangle 3-6 nding 100 lb uplift at ioin	xp C; Enclosed; late grip DOL=1.60 -0 tall by 2-0-0 wide	TINGSIO	NALENIN NGAROIA

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. 16952 November 4,2020

16023 Swingley Ridge Rd Chesterfield, MO 63017

Max Horz 5=111(LC 7)

Max Uplift 5=-101(LC 4), 4=-50(LC 8)

Max Grav 5=346(LC 1), 4=224(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-5=-306/140

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 except (jt=lb) 5 = 101

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) 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)

11111

0

MIS

			4-0-0				
LOADING (psf) S TCLL 25.0 F TCDL 10.0 L BCLL 0.0 * F BCDL 10.0 C	SPACING- 2-0-0 Plate Grip DOL 1.15 Jumber DOL 1.15 Rep Stress Incr YES Code IRC2018/TPI2014	CSI. TC 0.20 BC 0.13 WB 0.00 Matrix-R	DEFL. Vert(LL) -0. Vert(CT) -0. Horz(CT) 0. Wind(LL) 0.	in (loc) 01 4-5 02 4-5 01 3 01 4-5	l/defl L/d >999 360 >999 240 n/a n/a >999 240	PLATES MT20 Weight: 11 lb	GRIP 197/144 FT = 10%

LUMBER-

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

WEBS 2x4 SPF No.2

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

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 properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPH Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

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.

		1-10-15										
LOADING (ps TCLL 25. TCDL 10. BCLL 0. BCDL 10.	sf) 5.0 0.0 0.0 *	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr	2-0-0 1.15 1.15 YES	CSI. TC BC WB	0.07 0.02 0.00	DEFL. Vert(LL) Vert(CT) Horz(CT)	in -0.00 -0.00 -0.00	(loc) 5 5 3	l/defl >999 >999 n/a	L/d 360 240 n/a	PLATES MT20	GRIP 197/144
BCDL 10.	0.0	Code IRC2018/TP	12014	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

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

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. (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) 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.

1111

11 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 properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPH Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

BOT CHORD

- 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- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2018/TPI2014	CSI. TC 0.03 BC 0.02 WB 0.00 Matrix-P	DEFL. in (loc) l/defl L/d PLATES GRIP Vert(LL) -0.00 1 n/r 120 MT20 197/14 Vert(CT) 0.00 1 n/r 120 Horz(CT) Weight: 5 lb F	I4 T = 10%
LUMBER-			BRACING-	

TOP CHORD

BOT CHORD

LUMBER-

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

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

Max Horz 2=35(LC 5) Max Uplift 4=-15(LC 8), 2=-17(LC 8)

Max Grav 4=59(LC 1), 2=93(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) 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.
- * 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 6) 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.

11111 MIS

0

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

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

	1-6-0						
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d PLATES GRIP Vert(LL) -0.00 2 >999 360 MT20 197/144				
TCLL 25.0	Plate Grip DOL 1.15	TC 0.02					
TCDL 10.0 BCLL 0.0 * BCDL 10.0	Lumber DOL 1.15	BC 0.02	Vert(CT) -0.00 2 >999 240				
	Rep Stress Incr YES	WB 0.00	Horz(CT) -0.00 4 n/a n/a				
	Code IRC2018/TPI2014	Matrix-P	Wind(LL) 0.00 2 **** 240 Weight: 5 lb FT = 10%				

LUMBER-

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

REACTIONS. 4=Mechanical, 2=0-3-8 (size) Max Horz 2=35(LC 5) Max Uplift 4=-15(LC 8), 2=-17(LC 8)

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

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

NOTES-

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

🛦 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/TPH 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 BOT CHORD

Structural wood sheathing directly applied or 1-6-0 oc purlins, except end verticals.

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

Job	Truss	Truss Type	Qty	Ply	Lot 93 RR	
					4	43493323
400712	R1	Common Girder	1	2		
				-	Job Reference (optional)	
Wheeler Lumber, Wav	erly, KS - 66871,		8	.420 s Oct	9 2020 MiTek Industries, Inc. Wed Nov 4 11:09:00 2020 P	age 2

8.420 s Oct 9 2020 MiTek Industries, Inc. Wed Nov 4 11:09:00 2020 Page 2 ID:2ncXplsxOfbjIB6I7Q?gPMzrYWU-cFXX6Gpa6Rpb_yOujzgfrGudQhoD0mOc4z5X3?yMaZH

LOAD CASE(S) Standard

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

Uniform Loads (plf) Vert: 1-6=-70, 6-11=-70, 2-11=-20

Concentrated Loads (lb)

Vert: 13=-3956(F) 12=-539(F) 20=-539(F) 21=-539(F) 22=-539(F)

besign valid for use only with with every connectors. This design is based only upon parameters and properly incorporate this design into the overall 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 **ANSUTPI 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

Job	Truss	Truss Type	Qty	Ply	Lot 93 RR	
					1434933	324
400712	R2	FLAT GIRDER	1	2		
				_	Job Reference (optional)	
Wheeler Lumber, W	averly, KS - 66871,		8	.420 s Oct	9 2020 MiTek Industries, Inc. Wed Nov 4 11:09:01 2020 Page 2	

ID:2ncXplsxOfbjIB6I7Q?gPMzrYWU-4R5vKcpCtkxSb6z4GhBuOTRsP55PlENmJdr4cRyMaZG

LOAD CASE(S) Standard

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

Uniform Loads (plf) Vert: 1-4=-70, 5-9=-20

Concentrated Loads (lb)

Vert: 10=-1061 11=-1061 12=-1061 13=-1061 14=-1061 15=-1066

LOADING (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	тс	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	0.05	Horz(CT)	-0.00	4	n/a	n/a		
BCDL 10.0	Code IRC2018/T	PI2014	Matri	k-P						Weight: 19 lb	FT = 10%

BOT CHORD

LUMBER-

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

REACTIONS. (size) 1=6-10-8, 4=6-10-8, 5=6-10-8

Max Horz 1=129(LC 5) Max Uplift 4=-27(LC 8), 5=-110(LC 8)

Max Grav 1=66(LC 16), 4=142(LC 1), 5=368(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. 2-5=-286/159WEBS

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 = 110

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

1111

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 0.23 BC 0.12	Vert(LL) n/a	-	n/a n/a	999 999	MT20	197/144
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%
LUMBER-			BRACING-					

BOT CHORD

LUMBER-

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

WEBS 2x3 SPF No.2 REACTIONS.

1=4-2-8, 3=4-2-8 (size) Max Horz 1=73(LC 5) Max Uplift 1=-20(LC 8), 3=-39(LC 8) Max Grav 1=158(LC 1), 3=158(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.

1111

0

Structural wood sheathing directly applied or 4-3-0 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 *	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES	CSI. TC 0.08 BC 0.04 WB 0.00	DEFL. in (loc) I/defl L/d Vert(LL) n/a - n/a 999 Vert(CT) n/a - n/a 999 Horz(CT) -0.00 3 n/a n/a	PLATES GRIP MT20 197/144
BCDL 10.0	Code IRC2018/TPI2014	Matrix-P		Weight: 7 lb FT = 10%
I UMBER-			BRACING-	

BOT CHORD

LUMBER-

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

WEBS 2x3 SPF No.2

REACTIONS. 1=2-10-8, 3=2-10-8 (size) Max Horz 1=46(LC 5) Max Uplift 1=-13(LC 8), 3=-24(LC 8) Max Grav 1=98(LC 1), 3=98(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.

1111

0

Structural wood sheathing directly applied or 2-11-0 oc purlins,

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

except end verticals.

DADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in	(loc)	l/defl	L/d	PLATES	GRIP
CLL 25.0	Plate Grip DOL 1.15	TC 0.45	Vert(LL) n/a	-	n/a	999	MT20	197/144
CDL 10.0	Lumber DOL 1.15	BC 0.24	Vert(CT) n/a	-	n/a	999		
CLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT) -0.00	3	n/a	n/a		
CDL 10.0	Code IRC2018/TPI2014	Matrix-P					Weight: 14 lb	FT = 10%

BOT CHORD

LUMBER-

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

2x3 SPF No.2 REACTIONS. 1=5-6-8, 3=5-6-8 (size)

Max Horz 1=101(LC 5) Max Uplift 1=-28(LC 8), 3=-53(LC 8)

Max Grav 1=218(LC 1), 3=218(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.

111 MIS

0

Structural wood sheathing directly applied or 5-7-0 oc purlins,

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

except end verticals.

	SPACING 2.0.0	CSI	DEEL	in (loc)	l/dofl	L/d		CPIP
TCU 25.0	Plata Grip DOL 115		Vort(LL) n	III (IUC) /o	n/o	L/U	PLATES MT20	107/144
TOLL 20.0	Plate Glip DOL 1.15	10 0.23	Vert(LL)	/a -	n/a	999	IVI I ZU	197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.12	Vert(CT) n	a -	n/a	999		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.06	Horz(C1) -0.0	0 4	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014	Matrix-P					Weight: 23 lb	FT = 10%
LUMBER-			BRACING-					

BOT CHORD

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

REACTIONS. (size) 1=8-2-8, 4=8-2-8, 5=8-2-8 Max Horz 1=157(LC 5)

Max Uplift 4=-26(LC 5), 5=-127(LC 8)

Max Grav 1=125(LC 16), 4=135(LC 1), 5=423(LC 1)

FORCES. (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) or less except when shown. 2-5=-329/183WEBS

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 = 127

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

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

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

except end verticals.

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.

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) 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.

BOT CHORD

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

TOP CHORD2x4 SPF No.2BOT CHORD2x4 SPF No.2OTHERS2x3 SPF No.2

OTHERS 2x3 SPF No.2 **REACTIONS.** (size) 1=5-3-0, 3=5-3-0, 4=5-3-0

Max Horz 1=-38(LC 4) Max Uplift 1=-24(LC 8), 3=-29(LC 9) Max Grav 1=110(LC 1), 3=110(LC 1), 4=171(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.

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) 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.

FMIS

0

