

RE: 400279 Lot 62 MN MiTek USA, Inc. 16023 Swingley Ridge Rd Chesterfield, MO 63017 314-434-1200

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

Design Code: IRC2018/TPI2014 Wind Code: N/A Roof Load: 45.0 psf

Design Program: MiTek 20/20 8.2 Wind Speed: 115 mph Floor Load: N/A psf

This package includes 78 individual, dated Truss Design Drawings and 0 Additional Drawings.

No.	Seal#	Truss Name	Date	No.	Seal#	Truss Name	Date
1	138965452	A1	5/6/2020	27	138965478	G4	5/6/2020
2	138965453	A2	5/6/2020	28	138965479	G5	5/6/2020
3	138965454	A3	5/6/2020	29	138965480	G6	5/6/2020
4	138965455	A4	5/6/2020	30	138965481	G7	5/6/2020
5	138965456	B1	5/6/2020	31	138965482	H1	5/6/2020
6	138965457	B2	5/6/2020	32	138965483	H2	5/6/2020
7	138965458	C1	5/6/2020	33	138965484	H3	5/6/2020
8	138965459	C2	5/6/2020	34	138965485	J1	5/6/2020
9	138965460	C3	5/6/2020	35	138965486	J2	5/6/2020
10	138965461	C4	5/6/2020	36	138965487	J3	5/6/2020
11	138965462	C5	5/6/2020	37	138965488	J4	5/6/2020
12	138965463	C6	5/6/2020	38	138965489	J5	5/6/2020
13	138965464	D1	5/6/2020	39	138965490	J6	5/6/2020
14	138965465	D2	5/6/2020	40	138965491	J6A	5/6/2020
15	138965466	D3	5/6/2020	41	138965492	J7	5/6/2020
16	138965467	D4	5/6/2020	42	138965493	J8	5/6/2020
17	138965468	D5	5/6/2020	43	138965494	J9	5/6/2020
18	138965469	D6	5/6/2020	44	138965495	J10	5/6/2020
19	138965470	E1	5/6/2020	45	138965496	J11	5/6/2020
20	138965471	E2	5/6/2020	46	138965497	J12	5/6/2020
21	138965472	E3	5/6/2020	47	138965498	J13	5/6/2020
22	138965473	E4	5/6/2020	48	138965499	J14	5/6/2020
23	138965474	E5	5/6/2020	49	138965500	J15	5/6/2020
24	138965475	G1	5/6/2020	50	138965501	J16	5/6/2020
25	138965476	G2	5/6/2020	51	138965502	J17	5/6/2020
26	138965477	G3	5/6/2020	52	138965503	J18	5/6/2020

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

based on the parameters provided by Wheeler - Waverly.

Truss Design Engineer's Name: Garcia, Juan

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

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





RE: 400279 - Lot 62 MN

Site Information:

Project Customer: Project Name: Lot/Block: Address: City, County:

No.	Seal#	Truss Name	Date
53	138965504	J19	5/6/2020
54	138965505	J20	5/6/2020
55	138965506	J21	5/6/2020
56	138965507	J22	5/6/2020
57	138965508	J23	5/6/2020
58	138965509	J24	5/6/2020
59	138965510	J25	5/6/2020
60	138965511	K1	5/6/2020
61	138965512	K2	5/6/2020
62	138965513	K3	5/6/2020
63	138965514	K4	5/6/2020
64	138965515	K5	5/6/2020
65	138965516	K6	5/6/2020
66	138965517	LAY1	5/6/2020
67	138965518	LAY2	5/6/2020
68	138965519	LAY3	5/6/2020
69	138965520	LAY4	5/6/2020
70	138965521	LAY5	5/6/2020
71	138965522	R1	5/6/2020
72	138965523	V1	5/6/2020
73	138965524	V2	5/6/2020
74	138965525	V3	5/6/2020
75	138965526	V4	5/6/2020
76	138965527	V5	5/6/2020
77	138965528	V6	5/6/2020
78	138965529	V7	5/6/2020

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

Subdivision:

State:



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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.





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62	138965513	K3	5/6/2020
63	138965514	K4	5/6/2020
64	138965515	K5	5/6/2020
65	138965516	K6	5/6/2020
66	138965517	LAY1	5/6/2020
67	138965518	LAY2	5/6/2020
68	138965519	LAY3	5/6/2020
69	138965520	LAY4	5/6/2020
70	138965521	LAY5	5/6/2020
71	138965522	R1	5/6/2020
72	138965523	V1	5/6/2020
73	138965524	V2	5/6/2020
74	138965525	V3	5/6/2020
75	138965526	V4	5/6/2020
76	138965527	V5	5/6/2020
77	138965528	V6	5/6/2020
78	138965529	V7	5/6/2020

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

Subdivision:

State:





I	2-0-0 3-6-8		8-0-0		12-5-8	14-0-0	16-0-0	
Plate Offsets (X,Y)	<u>2-0-0</u> <u>1-6-8</u> [3:0-2-2,0-2-11], [4:0-6-0),0-2-6], [6:0-6-0	<u>4-5-8</u>),0-2-6], [7:0-2-2,0-2-11]		4-5-8	1-6-8	2-0-0	
LOADING (psf) TCLL 25.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr Code IRC2018/T	2-0-0 1.15 1.15 NO Pl2014	CSI. TC 0.52 BC 0.55 WB 0.14 Matrix-S	DEFL. ir Vert(LL) -0.14 Vert(CT) -0.26 Horz(CT) 0.14 Wind(LL) 0.11	12 >999 12 >721	L/d 360 240 n/a 240	PLATES MT20 Weight: 120 lb	GRIP 197/144 FT = 10%
BODE 10.0		112014	Matrix-0	VVIIId(LL) 0.11	12 >333	240	Weight. 120 lb	11 = 1078
				BRACING- TOP CHORD BOT CHORD	2-0-0 oc purlins	sheathing directly (5-9-15 max.): 4-6. ctly applied or 6-0		oc purlins, except
Max He	e) 2=1121/0-3-8, 8=11 orz 2=32(LC 29) plift 2=-173(LC 4), 8=-1							1110
TOP CHORD 2-3=-			less except when shown. 4, 5-6=-4258/624, 6-7=-32				IN ATE OF	MISSO
BOT CHORD 3-13=	-423/3148, 12-13=-420/	,	19/3195, 7-11=-422/3148 , 6-12=-160/1147, 6-11=0			111		
 Top chords connected Bottom chords connected Bottom chords connected as 2) All loads are conside ply connections have 3) Unbalanced roof live 4) Wind: ASCE 7-16; V MWFRS (envelope) grip DOL=1.60 5) Provide adequate dr. 6) This truss has been will fit between the b 8) Provide mechanical joint 8. 9) This truss is designe referenced standard 10) Graphical purlin rep 11) Hanger(s) or other 3-6-8, 71 lb down a 45 lb up at 11-0-0, 5-0-0, 41 lb down a 	ected as follows: 2x4 - 1 follows: 2x4 - 1 row at 0 ared equally applied to a a been provided to distri loads have been consi ult=115mph (3-second g gable end zone; cantilev ainage to prevent water designed for a 10.0 psf n designed for a live load ottom chord and any oth connection (by others) of a din accordance with the ANSI/TPI 1. bresentation does not de connection device(s) sh and 45 lb down and 45 at 7-0-0, 41 lb down at 5	vs staggered at row at 0-9-0 oc. II plies, except if Joute only loads dered for this de Just) Vasd=91m ver left and right ponding. Joottom chord liv d of 20.0psf on t ier members. f truss to bearin a 2018 Internation pict the size or all be provided at Ib down and 44 Bo-0-0, and 41 lb	0-9-0 oc, 2x4 - 1 row at 0 f noted as front (F) or back noted as (F) or (B), unless	(B) face in the LOAD C s otherwise indicated. 6.0psf; h=25ft; Cat. II; E t and right exposed; Lur any other live loads. as where a rectangle 3- inding 173 lb uplift at join tions R502.11.1 and R8 n along the top and/or b intrated load(s) 65 lb do' vn and 45 lb up at 3-0-0 down and 64 lb up at 3- lb down and 64 lb up at	xp C; Enclosed; nber DOL=1.60 pla 6-0 tall by 2-0-0 wi nt 2 and 173 lb upli 02.10.2 and 0ttom chord. wn and 45 lb up at , and 71 lb down at 6-8, 41 lb down at	ate de ift at	PROCESSION	MBER 0162101 VALENG SOUTH SECONSECONSECONSECONSECONSECONSECONSECON
Continued on page 2 LOAD CASE(S) Stand	tard							
WARNING - Verify Design valid for use or a truss system. Before building design. Braci is always required for fabrication, storage, de	design parameters and REAL nly with MiTek® connectors. The use, the building designer mung indicated is to prevent buck stability and to prevent collaps elivery, erection and bracing of	his design is based of st verify the applicate ling of individual trus with possible person trusses and truss so	ND INCLUDED MITEK REFEREI only upon parameters shown, and ilify of design parameters and pr ss web and/or chord members or onal injury and property damage. stems, see ANSUTPI1 et, Suite 312, Alexandria, VA 22	d is for an individual building co roperly incorporate this design ly. Additional temporary and p For general guidance regardi Quality Criteria, DSB-89 and	omponent, not into the overall permanent bracing ng the	onent	16023 Swingle Chesterfield, 1	

[lob	Truss	Truss Type	Qty	Ply	Lot 62 MN
						138965452
	100279	A1	HIP GIRDER	1	2	
					2	Job Reference (optional)
	Wheeler Lumber, Wave	erly, KS 66871			8.240 s J	ul 14 2019 MiTek Industries, Inc. Fri Oct 18 10:30:34 2019 Page 2

ID:0wpcF2OVQmpO8KfbvhbxsjzTP7M-E1LafyqRQDuPGljPU6nTYa1sUkiovYaoyrCCIBySCbZ

LOAD CASE(S) Standard

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

Uniform Loads (plf) Vert: 1-4=-70, 4-6=-70, 6-9=-70, 2-14=-20, 3-7=-20, 8-10=-20

Concentrated Loads (lb) Vert: 4=-16(F) 6=-16(F) 13=-203(F) 11=-203(F) 15=-16(F) 16=-16(F) 17=-16(F) 18=-16(F) 19=-41(F) 20=-41(F) 21=-41(F) 22=-41(F) 21=-41(F) 22=-41(F) 21=-41(F) 22=-41(F) 21=-41(F) 22=-41(F) 22=-41(F)





L	2-0-0 5-6-8		10-5-8	1	14-0-0	16-0-0	
۱ 	2-0-0 3-6-8		4-11-0	1	3-6-8	2-0-0	
ate Offsets (X,Y) [3:0-7-3,0-2-8], [6:0-7-3,0-2-8]	1					
DADING (psf)	SPACING- 2-0-0	CSI.	DEFL. ir	(loc)	l/defl L/d	PLATES	GRIP
CLL 25.0	Plate Grip DOL 1.15	TC 0.61	Vert(LL) -0.10	11	>999 360	MT20	197/144
DL 10.0	Lumber DOL 1.15	BC 0.60	Vert(CT) -0.19	3-11	>972 240		
CLL 0.0 *	Rep Stress Incr YES	WB 0.09	Horz(CT) 0.18	7	n/a n/a		
CDL 10.0	Code IRC2018/TPI2014	Matrix-S	Wind(LL) 0.07	3-11	>999 240	Weight: 58 lb	FT = 10%
JMBER-			BRACING-				
OP CHORD 2x6 SPF	F No.2 *Except*		TOP CHORD	Structur	al wood sheathing dir	ectly applied or 4-4-9	oc purlins, except
4-5: 2x4	SPF No.2			2-0-0 oc	purlins (4-6-1 max.):	4-5.	
OT CHORD 2x4 SPF	⁻ No.2		BOT CHORD	Rigid ce	iling directly applied o	or 6-0-0 oc bracing.	
/EBS 2x3 SPF	F No.2 *Except*			-			
3-12,6-9	9: 2x4 SPF No.2						

REACTIONS. (lb/size) 2=789/0-3-8, 7=789/0-3-8 Max Horz 2=-47(LC 13) Max Uplift 2=-93(LC 4), 7=-93(LC 5)

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

2-3=-362/65, 3-4=-1554/171, 4-5=-1452/172, 5-6=-1554/166, 6-7=-362/59 3-11=-109/1446, 10-11=-105/1452, 6-10=-103/1446 TOP CHORD

BOT CHORD

NOTES-

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

2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=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 93 lb uplift at joint 2 and 93 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.



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<u> </u>	2-0-0 2-0-0	7-6-8 5-6-8	8-5-8 0-11-0	<u>14-0-0</u> 5-6-8	<u> </u>		
Plate Offsets (X,Y)	[2:0-1-12,0-1-8], [3:0-3-8,0-0-3], [6:0-3-8	3,0-2-13], [7:0-0-0,0-1-2], [7:0-2-12,Edge]				
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 0.89 BC 0.61 WB 0.09 Matrix-S	DEFL. ir Vert(LL) -0.20 Vert(CT) -0.38 Horz(CT) 0.33 Wind(LL) 0.15	3-10 >915 360 3-10 >485 240	PLATES GRIP MT20 197/144 Weight: 58 lb FT = 10%		
4-5: 2x4 BOT CHORD 2x4 SPI WEBS 2x3 SPI	TOP CHORD 2x6 SPF No.2 *Except* TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except 4-5: 2x4 SPF No.2 2x4 SPF No.2 BOT CHORD 2x4 SPF No.2 WEBS 2x3 SPF No.2 *Except* BOT CHORD Rigid ceiling directly applied or 10-0 oc bracing. WEDGE WEDGE Verder Verder						
REACTIONS. (Ib/size) 2=769/0-3-8, 7=693/Mechanical Max Horz 2=65(LC 8) Max Uplift 2=-111(LC 8), 7=-84(LC 9)							
TOP CHORD 2-3=-3 BOT CHORD 3-10=	Comp./Max. Ten All forces 250 (lb) or 354/81, 3-4=-1225/110, 4-5=-1133/142, -72/1134, 9-10=-38/1121, 6-9=-41/112 -190/256	5-6=-1212/108, 6-7=-397/			JUAN GARCIA		
 Wind: ASCE 7-16; Vi MWFRS (envelope) (grip DOL=1.60 Provide adequate dra This truss has been of * This truss has been will fit between the bo Refer to girder(s) for Provide mechanical of joint 7. 	loads have been considered for this de ult=115mph (3-second gust) Vasd=91m gable end zone; cantilever left and right ainage to prevent water ponding. designed for a 10.0 psf bottom chord liv a designed for a live load of 20.0psf on to ottom chord and any other members. truss to truss connections. connection (by others) of truss to bearing	ph; TCDL=6.0psf; BCDL= exposed ; end vertical left e load nonconcurrent with he bottom chord in all area g plate capable of withstan	t and right exposed; Lurr any other live loads. as where a rectangle 3-6 nding 111 lb uplift at join	ber DOL=1.60 plate	NUMBER E-2000162101 SS/ONAL ENGINE UNAN GARCIA ICENSED 16952		
standard ANSI/TPI 1	d in accordance with the 2018 Internatio esentation does not depict the size or th			02.10.2 and referenced	16952		

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to preven 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 **ANSUTP11** Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

October 18,2019





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 WEDGE Left: 2x3 SPF No.2

REACTIONS. (lb/size) 2=531/0-3-8, 6=452/Mechanical Max Horz 2=116(LC 5) Max Uplift 2=-93(LC 8), 6=-61(LC 8)

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

- 2-3=-766/156, 3-4=-496/73 TOP CHORD
- BOT CHORD 2-7=-178/652

WEBS 3-7=-303/177, 4-7=-16/320, 4-6=-426/78

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) 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 4) 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 93 lb uplift at joint 2 and 61 lb uplift at joint 6

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 FMIS 0 F

October 18,2019





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 0.07	Vert(LL) -0.00 7 n/r 120	MT20 197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.04	Vert(CT) -0.00 7 n/r 120	
BCLL 0.0 *	Rep Stress Incr YES	WB 0.04	Horz(CT) -0.00 8 n/a n/a	
BCDL 10.0	Code IRC2018/TPI2014	Matrix-R		Weight: 32 lb FT = 10%
LUMBER-			BRACING-	

TOP CHORD

BOT CHORD

LUMBER-

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

REACTIONS. All bearings 7-5-0.

(lb) -Max Horz 12=-128(LC 6)

Max Uplift All uplift 100 lb or less at joint(s) 12, 8 except 11=-105(LC 8), 9=-103(LC 9) Max Grav All reactions 250 lb or less at joint(s) 12, 8, 10, 11, 9

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 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) 12, 8 except (it=lb) 11=105, 9=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.



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

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

except end verticals.

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TOP CHORD

BOT CHORD

LUMBER-

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

REACTIONS. (lb/size) 7=304/Mechanical, 5=383/0-3-8 Max Horz 7=-125(LC 4)

Max Uplift 7=-30(LC 9), 5=-51(LC 9)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 1-2=-261/70, 2-3=-272/67, 3-5=-329/83

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=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) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 7, 5.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



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

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

except end verticals.

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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. All plates are 2x4 MT20 unless otherwise indicated.

Gable requires continuous bottom chord bearing.

6) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).

- 7) Gable studs spaced at 2-0-0 oc.
- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

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

10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 20, 21, 22, 18, 17, 16 except (jt=lb) 24=221, 14=172, 23=218, 15=202.

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



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BRACING-

TOP CHORD

BOT CHORD

WEBS

LUMBER-

TOP CHORD 2x4 SPF No.2 BOT CHORD 2x4 SPF No.2 WEBS 2x4 SPF No.2 *Except* 3-8,3-7: 2x3 SPF No.2, 2-9: 2x6 SPF No.2

REACTIONS. (lb/size) 6=761/Mechanical, 9=843/0-3-8 Max Horz 9=406(LC 8) Max Uplift 6=-186(LC 8), 9=-25(LC 8) Max Grav 6=822(LC 2), 9=897(LC 15)

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

TOP CHORD 2-3=-891/4, 3-4=-527/39, 2-9=-777/68

BOT CHORD 8-9=-303/675, 7-8=-303/675, 6-7=-104/346

WEBS 3-7=-442/262, 4-7=-86/567, 4-6=-708/216

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 exposed; Lumber DOL=1.60 plate grip DOL=1.60

2) Provide adequate drainage to prevent water ponding.

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

* 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 4) will fit between the bottom chord and any other members, with BCDL = 10.0psf.

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

6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 9 except (jt=lb) 6=186.

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.



Structural wood sheathing directly applied or 5-3-4 oc purlins,

5-6, 4-6

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

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

1 Row at midpt

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OADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d	PLATES GRIP
TCLL 25.0	Plate Grip DOL 1.15	TC 0.15	Vert(LL) 0.00 2 n/r 120	MT20 197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.07	Vert(CT) 0.00 2 n/r 120	
BCLL 0.0 *	Rep Stress Incr YES	WB 0.03	Horz(CT) -0.00 6 n/a n/a	
BCDL 10.0	Code IRC2018/TPI2014	Matrix-R		Weight: 25 lb FT = 10%

I OP CHORE wood sneatning directly applied or 5-0-0 oc purlins, BOT CHORD 2x4 SPF No.2 except end verticals. WEBS 2x3 SPF No.2 *Except* BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. 5-6: 2x4 SPF No.2 OTHERS 2x4 SPF No.2

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REACTIONS. All bearings 5-0-0.

- Max Horz 9=200(LC 5) (lb) -
 - Max Uplift All uplift 100 lb or less at joint(s) 6, 7 except 9=-105(LC 4), 8=-185(LC 8) Max Grav All reactions 250 lb or less at joint(s) 9, 6, 7, 8

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) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 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.
- 7) * 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.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6, 7 except (jt=lb) 9=105, 8=185.
- 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.



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

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

5) Gable requires continuous bottom chord bearing.

6) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).

- 7) Gable studs spaced at 2-0-0 oc.
- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members. 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 16, 10, 14, 12

except (it=lb) 15=129, 11=127.

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.



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 Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0pst; BCDL=6.0pst; h=25tt; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 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) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



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- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 9, 5.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and
- referenced standard ANSI/TPI 1.

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







1-9=-489/86, 2-3=-350/66, 4-5=-537/57 TOP CHORD

BOT CHORD 8-9=-259/264, 7-8=-104/252, 6-7=-112/377

WFBS 1-8=-44/390, 2-8=-454/60, 2-7=0/408, 3-7=-311/71, 3-6=-349/98, 4-6=-18/374

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); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60

2) Provide adequate drainage to prevent water ponding.

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

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

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

6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 9, 5.

7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and

referenced standard ANSI/TPI 1.

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



JUAN GARCIA

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Plate Offsets (X,Y)	[2:0-9-13,Edge]	1		
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 0.54	Vert(LL) -0.13 5-6 >999 360 MT20	197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.57	Vert(CT) -0.23 5-6 >613 240	
BCLL 0.0 *	Rep Stress Incr NO	WB 0.83	Horz(CT) 0.00 5 n/a n/a	
BCDL 10.0	Code IRC2018/TPI2014	Matrix-S	Wind(LL) 0.08 5-6 >999 240 Weight: 200	lb FT = 10%
LUMBER-			BRACING-	

TOP CHORD	2x4 SPF No.2 *Except* 2-3: 2x6 SPF No.2	TOP CHORD		directly applied or 6-0-0 oc purlins,
BOT CHORD	2-3. 2x0 SPF N0.2 2x6 SP 2400F 2.0E	BOT CHORD	Rigid ceiling directly applie	2-0-0 oc purlins (6-0-0 max.): 1-2, 3-4.
WEBS	2x4 SPF No.2	WEBS	1 Row at midpt	1-7
WEB3	2X4 SFF N0.2	WEBS	T Row at mopt	1-7
REACTIONS.	(lb/size) 7=3010/Mechanical, 5=2927/Mechanical			
	Max Horz 7=-347(LC 23)			
	Max Uplift 7=-438(LC 4), 5=-485(LC 5)			
	Max Grav $7=3144(LC 2), 5=2955(LC 2)$			
	Max 01av 1=01++(L0 2), 0=2000(L0 2)			
FORCES. (lb) - Max. Comp./Max. Ten All forces 250 (lb) or less except when shown.			
TOP CHORD	2-3=-2430/359, 3-4=-1774/243, 4-5=-1819/362			
BOT CHORD	6-7=-266/576			
WEBS	2-7=-2708/438, 2-6=-534/4294, 3-6=-1851/394, 4-6=-388/2353			
NOTES-				
1) 2-ply truss to	o be connected together with 10d (0.131"x3") nails as follows:			
Top chords	connected as follows: 2x4 - 1 row at 0-9-0 oc, 2x6 - 2 rows staggered at 0-9-0	OC.		ALL GAD
Bottom chor	rds connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.			I JAN GAACIA
Webs conne	ected as follows: 2x4 - 1 row at 0-9-0 oc.			CENS
2) All loads are	e considered equally applied to all plies, except if noted as front (F) or back (B)	face in the LOAD	CASE(S) section. Ply to	· · · · · · · · · · · · · · · · · · ·
ply connecti	ons have been provided to distribute only loads noted as (F) or (B), unless oth	erwise indicated.		2 / 1
Wind: ASCE	E 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0p	osf; h=25ft; Cat. II; I	Exp C; Enclosed;	S 1
MWFRS (er	nvelope) gable end zone; cantilever left and right exposed ; end vertical left an	d right exposed; Lu	mber DOL=1.60 plate	= 16952
grip DOL=1.	.60			
4) Provide ade	quate drainage to prevent water ponding.			= =
5) This truss ha	as been designed for a 10.0 psf bottom chord live load nonconcurrent with any	/ other live loads.		-0. L M.
6) * This truss	has been designed for a live load of 20.0psf on the bottom chord in all areas v	where a rectangle 3	-6-0 tall by 2-0-0 wide	ANSAS
مسلم الشائل النبي	an the better should and any other members with DCDI 40 0net	5	-	

will fit between the bottom chord and any other members, with BCDL = 10.0psf.

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

 Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 7=438, 5=485.

Continued on page 2

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Job	Truss	Truss Type	Qty	Ply	Lot 62 MN	
					138965469	
400279	D6	ROOF SPECIAL GIRDER	1	2		
				-	Job Reference (optional)	
Wheeler Lumber, Waverly, KS 66871 8.240 s Jul 14 2019 MiTek Industries, Inc. Fri Oct 18 10:30:54 2019 Page 2						
		ID:eIVztmttrvqeWtykiiM9UhzAKds-euY8rn3_jMPZfqFfJ89LosHAoX9bQlkYy2GS1ySCbF				

NOTES-

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.

a) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
b) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1081 lb down and 77 lb up at 1-11-12, 1084 lb down and 232 lb up at 3-11-12, 974 lb down and 63 lb up at 5-11-12, and 1004 lb down and 63 lb up at 7-11-12, and 937 lb down and 196 lb up at 9-11-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

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

Vert: 1-2=-70, 2-3=-70, 3-4=-70, 5-7=-20 Concentrated Loads (lb)

Vert: 9=-1028(B) 11=-1048(B) 12=-940(B) 13=-938(B) 15=-937(B)





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	3-9-8	6-10-0	11-6-13			18-0-0 18 ₇ 3 ₇ 8	
	3-9-8	3-0-7	4-8-13	1		6-5-3 0- ¹ 3-8	
Plate Offsets (X,Y)	[2:0-1-6,0-2-12], [6:Edge,0-2-8],	[11:0-2-8,0-1-8], [12:0	0-0-0,0-2-12]				
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL.	in (loc)	l/defl L	L/d PLATES	GRIP
TCLL 25.0	Plate Grip DOL 1.15	5 TC (0.70 Vert(LL) -0	.07 7-8	>999 3	60 MT20	197/144
TCDL 10.0	Lumber DOL 1.15	BC (0.56 Vert(CT) -0	.15 7-8	>999 2	40	
BCLL 0.0 *	Rep Stress Incr YES	S WB (0.56 Horz(CT) 0	.04 7	n/a r	n/a	
BCDL 10.0	Code IRC2018/TPI2014	Matrix-S	S Wind(LL) 0	.05 10	>999 2	40 Weight: 73 lb	FT = 10%

LUMBER-BRACING-TOP CHORD 2x4 SPF No.2 TOP CHORD Structural wood sheathing directly applied or 4-5-2 oc purlins, BOT CHORD 2x4 SPF No.2 *Except* except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 5-6. 4-10: 2x3 SPF No.2 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. WEBS 2x3 SPF No.2 *Except* WEBS 1 Row at midpt 5-7 2-12: 2x6 SP DSS

REACTIONS. (lb/size) 7=806/0-3-8, 12=888/0-3-8 Max Horz 12=241(LC 5) Max Uplift 7=-135(LC 5), 12=-134(LC 8)

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

2-3=-1172/155, 3-4=-1506/258, 4-5=-865/134, 2-12=-788/150 TOP CHORD

BOT CHORD 11-12=-217/955, 4-9=-48/366, 8-9=-260/1346, 7-8=-147/706

```
WEBS
                3-11=-395/134, 9-11=-220/976, 3-9=-52/405, 4-8=-725/238, 5-8=-30/478, 5-7=-866/128
```

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) 7=135, 12=134

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

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



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October 18,2019





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Max Uplift 8=-251(LC 8), 13=-76(LC 8)

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

2-3=-1173/57, 3-4=-1502/209, 4-6=-840/46, 2-13=-788/97 TOP CHORD

- BOT CHORD 12-13=-373/957, 4-10=-100/374, 9-10=-447/1336, 8-9=-221/696
- WEBS 3-12=-398/189, 10-12=-385/983, 3-10=-75/395, 4-9=-725/256, 6-9=-21/476, 6-8=-893/283

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 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 13 except (jt=lb) 8=251.

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



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L OADING (ps	sf) SPACING-	2-0-0 CSI	.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
CLL 25	.0 Plate Grip DOL	1.15 TC	0.65	Vert(LL)	-0.07	11-12	>999	360	MT20	197/144
CDL 10	.0 Lumber DOL	1.15 BC	0.44	Vert(CT)	-0.15	11-12	>999	240		
BCLL 0	0.0 * Rep Stress Incr	YES WB	0.66	Horz(CT)	0.02	9	n/a	n/a		
BCDL 10	0.0 Code IRC2018/TP	PI2014 Mat	rix-S	Wind(LL)	0.03	13	>999	240	Weight: 87 lb	FT = 10%
UMBER-			l	BRACING-						
TOP CHORD 2x4 SPF No.2				TOP CHOR	RD.	Structural wood sheathing directly applied or 4-6-1 oc purlins,				
SOT CHORD	2x4 SPF No.2 *Except*					except	end verti	cals.		
	4-13,6-11: 2x3 SPF No.2			BOT CHOR	RD	Rigid co	eiling dire	ectly applied of	or 10-0-0 oc bracing,	Except:
	2x3 SPF No.2 *Except*					6-0-0 o	c bracing	j: 13-14.	0.	-
VEBS										

REACTIONS. (10/size) 9=929/0-3-8, 15=882/0-3-8 Max Horz 15=385(LC 5) Max Uplift 9=-264(LC 8), 15=-102(LC 8)

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

- TOP CHORD 2-3=-1176/97, 3-4=-1000/128, 4-6=-432/44, 2-15=-803/139
- BOT CHORD 14-15=-286/952, 6-10=-124/593, 9-10=-85/296
- WEBS 12-14=-264/948, 10-12=-239/883, 4-10=-591/200, 6-9=-805/250

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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 9=264, 15=102.

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



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REACTIONS. (lb/size) 11=1019/0-3-8, 18=969/0-3-8 Max Horz 18=385(LC 5) Max Uplift 11=-273(LC 8), 18=-126(LC 8)

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

- 2-3=-1050/65, 3-4=-870/62, 4-5=-1530/131, 5-6=-1189/146, 6-8=-472/48, 2-18=-808/79 TOP CHORD
- BOT CHORD 17-18=-306/807, 16-17=-504/2181, 6-14=0/292, 8-12=-136/699, 11-12=-80/332
- WEBS 3-17=-14/614, 4-17=-1487/226, 4-16=-874/199, 14-16=-286/1333, 5-14=-363/86,
 - - 12-14=-258/1054, 6-12=-725/216, 8-11=-904/259

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 arip DOL=1.60
- 2) Provide adequate drainage to prevent water ponding.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 11=273, 18=126.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 7) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 60 lb down and 42 lb up at 1-3-8 on top chord, and 5 lb down and 3 lb up at 1-3-8 on bottom chord. The design/selection of such connection device(s) is the responsibility of others
- 9) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)
 - Vert: 1-2=-70, 2-3=-70, 3-4=-70, 4-9=-70, 9-10=-70, 15-18=-20, 13-14=-20, 11-12=-20

Continued on page 2

🔺 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not besign valid for dise only with with every connectors. This design is based only upon parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members 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/TPI Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



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Job	Truss	Truss Type	Qty	Ply	Lot 62 MN
					138965475
400279	G1	Roof Special Girder	1	1	
					Job Reference (optional)
Wheeler Lumber, Waverly, KS 66871				8.240 s Ju	ul 14 2019 MiTek Industries, Inc. Fri Oct 18 10:31:00 2019 Page 2

ID:eIVztmttrvqeWtykiiM9UhzAKds-T1vP6r8IICAjNliP0aFZb36JaDXg?9WdxuVaghySCb9

LOAD CASE(S) Standard Concentrated Loads (lb)

Vert: 17=3(F)





WEBS

1 Row at midpt

6-8, 5-8

WEBS 2x3 SPF No.2 *Except* 5-8: 2x4 SPF No.2, 2-12: 2x6 SP 2400F 2.0E

REACTIONS. (lb/size) 8=1019/0-3-8, 12=973/0-3-8 Max Horz 12=409(LC 8) Max Uplift 8=-313(LC 8), 12=-86(LC 8) Max Grav 8=1043(LC 2), 12=996(LC 2)

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

- TOP CHORD 2-3=-1427/52, 3-4=-1212/67, 4-5=-1171/0, 6-8=-372/194, 2-12=-897/91
- BOT CHORD 11-12=-403/1177 10-11=-436/1709 8-10=-255/993
- WEBS 3-11=0/661, 4-11=-744/51, 4-10=-750/189, 5-10=0/601, 5-8=-1161/298

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 exposed; Lumber DOL=1.60 plate grip DOL=1.60

2) Provide adequate drainage to prevent water ponding.

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

* 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 4) will fit between the bottom chord and any other members, with BCDL = 10.0psf.

5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 12 except (jt=lb) 8=313.

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

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



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WAL ENGINE

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October 18,2019



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MITEK 16023 Swingley Ridge Rd Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Lot 62 MN	
					138965479	
400279	G5	Roof Special Girder	1	2		
				2	Job Reference (optional)	
Wheeler Lumber,	Waverly, KS 66871			8.240 s J	ul 14 2019 MiTek Industries, Inc. Fri Oct 18 10:31:04 2019 Page 2	
		ID:eIVztmttrvqeWtykiiM9UhzAKds-Lp9vyCBGMQq9sM0AFQJVIvHyxqwdxw?DsWTopSySCb5				

NOTES-

11) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 3109 lb down and 458 lb up at 23-10-7, 507 lb down and 94 lb up at 25-11-4, 507 lb down and 81 lb up at 27-11-4, 507 lb down at 29-11-4, 507 lb down at 31-11-4, and 504 lb down and 69 lb up at 33-11-4, and 505 lb down and 68 lb up at 35-11-4 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: 1-3=-70, 3-4=-70, 4-6=-70, 6-8=-70, 2-8=-20

Concentrated Loads (lb)

Vert: 9=-507(B) 17=-2990(B) 18=-507(B) 19=-507(B) 20=-507(B) 21=-504(B) 22=-505(B)




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.



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE. Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building designe. 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/TPI Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.





LOAD CASE(S) Standard

Continued on page 2

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October 18,2019

Job	Truss	Truss Type	Qty	Ply	Lot 62 MN
400070	07				I38965481
400279	G7	Roof Special Girder	1	1	
					Job Reference (optional)
Wheeler Lumber, Wave	erly, KS 66871			8.240 s Ju	ul 14 2019 MiTek Industries, Inc. Fri Oct 18 10:31:06 2019 Page 2
		ID:eIV	ztmttrvgeV	VtykiiM9UI	nzAKds-IBGgNuCWu2ws5g9ZMqMzrKMGReXAPujVJqyvtLySCb3

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, 4-6=-70, 6-7=-70, 7-8=-70, 8-9=-70, 10-16=-20 Concentrated Loads (lb)

Vert: 17=-288(B)

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to preven 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 **ANSUTPTI Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.





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MiTek 16023 Swingley Ridge Rd Chesterfield, MO 63017



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); 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, with BCDL = 10.0psf.

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

7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 12, 8.

8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and

referenced standard ANSI/TPI 1.

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



🔺 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSUTPIT Quality Criteria**, **DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

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Continued on page 2

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16023 Swingley Ridge Rd Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Lot 62 MN
					138965484
400279	H3	Roof Special Girder	1	1	
					Job Reference (optional)
Wheeler Lumber, Wave	erly, KS 66871			8.240 s Ju	ul 14 2019 MiTek Industries, Inc. Fri Oct 18 10:31:09 2019 Page 2

ID:eIVztmttrvqeWtykiiM9UhzAKds-imyo?wFOAzIRz7u81zvgSy_oYrcLcE5y?oAZUgySCb0

LOAD CASE(S) Standard

Uniform Loads (plf)

Vert: 1-2=-70, 2-3=-70, 3-4=-70, 4-6=-70, 6-7=-70, 8-13=-20 Concentrated Loads (lb) Vert: 12=3(B)

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and 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, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.





			2-9-3		4	4-10-10	
		I	2-9-3		1	2-1-7	
Plate Offsets (X,Y)	[2:0-0-0,0-1-7], [2:0-2-6	6,0-4-11], [6:0-2-0),0-0-8]				
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc) l/defl L/	/d PLATES	GRIP

LUMBER TOP CHO		PF No.2				BRACING- TOP CHOF		Structu	ıral wood	sheathing d	lirectly applied or 4-10-	10 oc purlins,
BCDL	10.0	Code IRC2018/T	PI2014	Matri	x-R	Wind(LL)	0.01	7	>999	240	Weight: 16 lb	FT = 10%
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.00	Horz(CT)	0.01	5	n/a	n/a		
TCDL	10.0	Lumber DOL	1.15	BC	0.26	Vert(CT)	-0.03	7	>999	240		
TCLL	25.0	Plate Grip DOL	1.15	TC	0.20	Vert(LL)	-0.01	6	>999	360	MT20	197/144
LOADING	j (pst)	SPACING-	2-0-0	USI.		DEFL.	In	(IOC)	i/defi	L/a	PLATES	GRIP

BOT CHORD

except end verticals.

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

BOT CHORD 2x4 SPF No.2 *Except* 6-7: 2x3 SPF No.2 WEBS 2x3 SPF No.2

WEDGE

Left: 2x3 SPF No.2

REACTIONS. (lb/size) 5=191/Mechanical, 2=322/0-4-9 Max Horz 2=65(LC 5) Max Uplift 5=-41(LC 8), 2=-101(LC 4)

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) All bearings are assumed to be SPF No.2 crushing capacity of 425 psi.

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

- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5 except (it=lb) 2=101.
- 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) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 67 lb down and 27 lb up at 2-1-12, and 67 lb down and 27 lb up at 2-1-12 on top chord, and at 2-1-12, and at 2-1-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 9) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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

Vert: 1-4=-70, 2-7=-20, 5-6=-20



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October 18,2019



🔺 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSUTPIT Quality Criteria**, **DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



Plate Off	sets (X,Y)	[2:0-0-6,0-0-2], [2:0-4-11	,0-0-5]	1	2-0-0			1	1-6-8	1		
	u ,	SPACING-	2-0-0	CSI.	0.40	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL TCDL	25.0 10.0	Plate Grip DOL Lumber DOL	1.15 1.15	TC BC	0.10 0.16	Vert(LL) Vert(CT)	-0.00 -0.01	6 6		360 240	MT20	197/144
BCLL BCDL	0.0 * 10.0	Rep Stress Incr Code IRC2018/T	YES PI2014	WB Matri	0.00 x-R	Horz(CT) Wind(LL)	0.00 0.01	5 6	n/a >999	n/a 240	Weight: 12 lb	FT = 10%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x4 SPF No.2 BOT CHORD 2x4 SPF No.2 *Except* 6-7: 2x3 SPF No.2

WEDGE Left: 2x3 SPF No.2

REACTIONS. (lb/size) 4=86/Mechanical, 2=244/0-3-8, 5=61/Mechanical Max Horz 2=74(LC 8) Max Uplift 4=-39(LC 8), 2=-30(LC 8) Max Grav 4=86(LC 1), 2=244(LC 1), 5=76(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) 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.



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Structural wood sheathing directly applied or 3-6-8 oc purlins.

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

October 18,2019

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MiTek 16023 Swingley Ridge Rd Chesterfield, MO 63017



Plate Off	sets (X,Y)	[2:0-0-6,0-0-2], [2:0-4-11,0	-0-5]									
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	тс	0.05	Vert(LL)	-0.00	2	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.02	Vert(CT)	-0.00	2	>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/TPI	2014	Matri	x-P	Wind(LL)	0.00	2	****	240	Weight: 5 lb	FT = 10%

BRACING-TOP CHORD

BOT CHORD

LUMBER-

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

Left: 2x3 SPF No.2

REACTIONS. (lb/size) 3=29/Mechanical, 2=147/0-3-8, 4=14/Mechanical Max Horz 2=39(LC 8) Max Uplift 3=-25(LC 8), 2=-33(LC 4) Max Grav 3=29(LC 1), 2=147(LC 1), 4=28(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) 3, 2.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



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Structural wood sheathing directly applied or 1-5-7 oc purlins.

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

October 18,2019







				5-0-0	
LOADIN	G (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d	PLATES GRIP
TCLL	25.0	Plate Grip DOL 1.15	TC 0.39	Vert(LL) -0.03 2-4 >999 360	MT20 197/144
TCDL	10.0	Lumber DOL 1.15	BC 0.23	Vert(CT) -0.06 2-4 >933 240	
BCLL	0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT) -0.00 4 n/a n/a	
BCDL	10.0	Code IRC2018/TPI2014	Matrix-P	Wind(LL) 0.00 2 **** 240	Weight: 14 lb FT = 10%

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

2x3 SPF No.2

REACTIONS. 4=206/Mechanical, 2=293/0-3-8 (lb/size) Max Horz 2=84(LC 5) Max Uplift 4=-45(LC 8), 2=-81(LC 4)

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.

TIS * PROTI JUAN GARCIA NUMBER E-2000162101 IGO VIIIIIIIIIIII WAL ENGINE October 18,2019

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16023 Swingley Ridge Rd Chesterfield, MO 63017

BRACING-TOP CHORD

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

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



	I		6-0-0		1
LOADING (psf) TCLL 25.0	SPACING- 2-0-0 Plate Grip DOL 1.15	CSI. TC 0.61	(/	l/defl L/d >999 360	PLATES GRIP MT20 197/144
TCDL 10.0 BCLL 0.0 *	Lumber DOL 1.15 Rep Stress Incr YES	BC 0.35 WB 0.00	- ()	>526 240 n/a n/a	
BCDL 10.0	Code IRC2018/TPI2014	Matrix-P	Wind(LL) 0.00 2	**** 240	Weight: 17 lb FT = 10%

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

WEBS

REACTIONS. 4=252/Mechanical, 2=337/0-3-8 (lb/size) Max Horz 2=98(LC 5) Max Uplift 4=-55(LC 8), 2=-88(LC 4)

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.

JUAN GARCIA NUMBER E-2000162101 SIONAL SIONAL UNIT SUAN GARCI ICENSEC 1695 PROTOSOL GIT

October 18,2019

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

BRACING-TOP CHORD

BOT CHORD

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



Plate Offse	ets (X,Y) [2:0-0-6,0-1-4], [5:0-0-0,0)-1-4]				5-2-11				1	
LOADING		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.34	Vert(LL)	-0.03	4-5	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.23	Vert(CT)	-0.05	4-5	>999	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.00	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code IRC2018/TF	PI2014	Matri	x-R	Wind(LL)	0.01	4-5	>999	240	Weight: 16 lb	FT = 10%

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

- WEBS 2x3 SPF No.2
- REACTIONS. (Ib/size) 5=365/0-5-3, 4=208/Mechanical Max Horz 5=86(LC 7) Max Uplift 5=-120(LC 4), 4=-43(LC 8)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-5=-322/154

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 except (jt=lb) 5=120.
- 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) 59 lb down and 28 lb up at 2-11-5, and 94 lb down and 63 lb up at 3-6-6 on top chord, and 2 lb down and 1 lb up at 2-11-5, and 11 lb down at 3-6-6 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: 8=1(F)



October 18,2019



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BRACING-TOP CHORD BOT CHORD

Structural wood sheathing directly applied or 5-3-4 oc purlins, except end verticals.

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



				5-3-4 5-2-11				
Plate Offsets (X,Y)	[2:0-0-6,0-1-4], [5:0-0-0,0-1-4]			02.11			-	
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 0.34	Vert(LL)	-0.03 4-5	>999	360	MT20	197/144
CDL 10.0	Lumber DOL 1.15	BC 0.23	Vert(CT)	-0.05 4-5	>999	240		
CLL 0.0 *	Rep Stress Incr NO	WB 0.00	Horz(CT)	0.00 4	n/a	n/a		
3CDL 10.0	Code IRC2018/TPI2014	Matrix-R	Wind(LL)	0.01 4-5	>999	240	Weight: 16 lb	FT = 10%

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

WEBS 2x3 SPF No.2 BRACING-TOP CHORD BOT CHORD

Structural wood sheathing directly applied or 5-3-4 oc purlins, except end verticals. Rigid ceiling directly applied or 10-0-0 oc bracing

- REACTIONS. (lb/size) 5=365/0-5-3, 4=208/Mechanical Max Horz 5=86(LC 5) Max Uplift 5=-120(LC 4), 4=-43(LC 8)
- FORCES. (Ib) Max. Comp./Max. Ten. All forces 250 (Ib) or less except when shown. TOP CHORD 2-5=-322/154

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=120.
- 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) 94 lb down and 63 lb up at 3-6-6 on top chord, and 11 lb down at 3-6-6 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



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October 18,2019



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			3-4-10 3-4-10				
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 0.15 BC 0.10 WB 0.00 Matrix-P	DEFL. in Vert(LL) -0.01 Vert(CT) -0.01 Horz(CT) -0.00 Wind(LL) 0.00	2-4 >9 2-4 >9 3 I	defl L/d 999 360 999 240 n/a n/a	PLATES MT20 Weight: 9 lb	GRIP 197/144 FT = 10%

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

REACTIONS. (lb/size) 3=100/Mechanical, 2=226/0-3-8, 4=32/Mechanical Max Horz 2=58(LC 4) Max Uplift 3=-53(LC 8), 2=-66(LC 4) Max Grav 3=100(LC 1), 2=226(LC 1), 4=64(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) 3, 2.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

TIS * PROTI JUAN GARCIA NUMBER E-2000162101 3 3 E ONAL 1111 16952 BORNSES VIIIIIIIIIIII GIT

October 18,2019

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BRACING-TOP CHORD BOT CHORD

Structural wood sheathing directly applied or 3-4-10 oc purlins. Rigid ceiling directly applied or 10-0-0 oc bracing.



LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in	(loc)	l/defl L/d	PLATES GRIP
TCLL 25.0	Plate Grip DOL 1.15	TC 0.07	Vert(LL) -0.00	()	>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: 5 lb FT = 10%

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

BRACING-TOP CHORD

Structural wood sheathing directly applied or 1-7-2 oc purlins, except end verticals. BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 5=158/0-3-8, 3=32/Mechanical, 4=11/Mechanical Max Horz 5=41(LC 8) Max Uplift 5=-25(LC 8), 3=-25(LC 8)

Max Grav 5=158(LC 1), 3=32(LC 1), 4=27(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.



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🙏 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSUTPIT Quality Criteria**, **DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.





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 0.55	Vert(LL) -0.06	4-5	>999 360	MT20 197/144
CDL 10.0	Lumber DOL 1.15	BC 0.35	Vert(CT) -0.12	4-5	>609 240	
CLL 0.0 *	Rep Stress Incr NO	WB 0.00	Horz(CT) -0.00	4	n/a n/a	
CDL 10.0	Code IRC2018/TPI2014	Matrix-R	Wind(LL) 0.05	4-5	>999 240	Weight: 20 lb FT = 10%

TOP CHORD

BOT CHORD

LUMBER-

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

REACTIONS. (lb/size) 5=418/0-5-9, 4=255/Mechanical Max Horz 5=157(LC 22)

Max Uplift 5=-103(LC 8), 4=-116(LC 5)

FORCES. (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) or less except when shown. TOP CHORD 2-5=-367/135

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) except (jt=lb) 5=103. 4=116.
- 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) 95 lb down and 57 lb up at 2-6-1, and 72 lb down and 34 lb up at 2-6-15, and 87 lb down and 73 lb up at 4-10-15 on top chord, and 4 lb down at 2-6-1, and 11 Ib down and 18 lb up at 2-6-15, and 18 lb down and 19 lb up at 4-10-15 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)





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

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

except end verticals.

October 18,2019



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	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	0.37	Vert(LL)	-0.03	4-5	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.23	Vert(CT)	-0.06	4-5	>999	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.00	Horz(CT)	-0.00	4	n/a	n/a		
BCDL	10.0	Code IRC2018/TF	912014	Matri	x-R	Wind(LL)	0.03	4-5	>999	240	Weight: 17 lb	FT = 10%

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

WEBS 2x3 SPF No.2

BRACING-TOP CHORD BOT CHORD

Structural wood sheathing directly applied or 5-2-3 oc purlins, except end verticals. Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 5=344/0-7-14, 4=207/Mechanical

Max Horz 5=149(LC 5) Max Uplift 5=-75(LC 8), 4=-76(LC 5)

Max Grav 5=344(LC 1), 4=219(LC 31)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-5=-302/100

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, 4.

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

7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 88 lb down and 53 lb up at 2-0-15, and 79 lb down and 59 lb up at 2-9-1 on top chord, and 6 lb down and 11 lb up at 2-0-15, and 10 lb down and 18 lb up at 2-9-1 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: 8=1(B) 9=1(F)



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BRACING-

TOP CHORD

BOT CHORD

	JM	DE	
LU	IIV	вь	

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

WEBS 2x3 SPF No.2

REACTIONS. 5=187/0-3-8, 3=67/Mechanical, 4=24/Mechanical (lb/size) Max Horz 5=97(LC 8) Max Uplift 3=-70(LC 8), 4=-6(LC 8) Max Grav 5=187(LC 1), 3=78(LC 15), 4=45(LC 3)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 4.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



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Structural wood sheathing directly applied or 2-5-14 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. 10/03/2015 BEFORE USE Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSUTPIT Quality Criteria**, **DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.





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 0.14	Vert(LL)	-0.01	4-5	>999	360	MT20	197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.09	Vert(CT)	-0.01	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/TPI2014	Matrix-R	Wind(LL)	0.01	4-5	>999	240	Weight: 11 lb	FT = 10%

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

2x3 SPF No.2

REACTIONS. 5=222/0-3-8, 3=97/Mechanical, 4=35/Mechanical (lb/size) Max Horz 5=88(LC 8) Max Uplift 3=-59(LC 8) Max Grav 5=222(LC 1), 3=107(LC 13), 4=61(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); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.

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

- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3.
- 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.

TIS * PROM JUAN GARCIA NUMBER E-2000162101 1695 PROFILESSIO VIIIIIIIIIIII NAL ENGINITION October 18,2019

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BRACING-TOP CHORD BOT CHORD

Structural wood sheathing directly applied or 3-4-0 oc purlins, except end verticals. Rigid ceiling directly applied or 10-0-0 oc bracing.



BRACING-

TOP CHORD

BOT CHORD

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

WEBS 2x3 SPF No.2

REACTIONS. 5=150/0-3-8, 3=16/Mechanical, 4=8/Mechanical (lb/size) Max Horz 5=58(LC 8) Max Uplift 3=-36(LC 8), 4=-12(LC 8) Max Grav 5=150(LC 1), 3=27(LC 15), 4=22(LC 3)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 4.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



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Structural wood sheathing directly applied or 1-3-7 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 MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSUTPIT Quality Criteria**, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



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 0.08	Vert(LL)	-0.00	4-5	>999	360	MT20	197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.06	Vert(CT)	-0.00	4-5	>999	240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT)	-0.00	3	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014	Matrix-R	Wind(LL)	0.00	4-5	>999	240	Weight: 8 lb	FT = 10%

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

BRACING-TOP CHORD

BOT CHORD

Structural wood sheathing directly applied or 2-9-3 oc purlins, except end verticals. Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (Ib/size) 5=198/0-3-8, 3=77/Mechanical, 4=27/Mechanical Max Horz 5=64(LC 8) Max Uplift 5=-26(LC 8), 3=-47(LC 8) Max Grav 5=198(LC 1), 3=77(LC 1), 4=49(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.



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WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE. Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building designe. 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/TPI Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

MITEK° 16023 Swingley Ridge Rd Chesterfield, MO 63017



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

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 4.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



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late Offse	ets (X,Y)	[2:0-0-13,0-1-4], [5:0-0-0	,0-1-4]			1						
OADING	(psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.07	Vert(LL)	-0.00	5	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.03	Vert(CT)	-0.00	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/T	PI2014	Matri	x-R	Wind(LL)	0.00	5	>999	240	Weight: 6 lb	FT = 10%

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

BRACING-TOP CHORD S

BOT CHORD

Structural wood sheathing directly applied or 1-9-13 oc purlins, except end verticals. Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 5=165/0-5-8, 3=42/Mechanical, 4=15/Mechanical Max Horz 5=61(LC 8) Max Uplift 5=-10(LC 8), 3=-40(LC 8), 4=-2(LC 8) Max Grav 5=165(LC 1), 3=49(LC 15), 4=32(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, 4.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



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WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE. Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building designe. 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/TPI Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.





			<u>3-5-4</u> <u>3-4-10</u>	l
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 0.25	Vert(LL) -0.01 4-5 >999 360	MT20 197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.08	Vert(CT) -0.01 4-5 >999 240	
BCLL 0.0 *	Rep Stress Incr NO	WB 0.00	Horz(CT) -0.01 3 n/a n/a	Weight: 11 lb FT = 10%
BCDL 10.0	Code IRC2018/TPI2014	Matrix-R	Wind(LL) 0.01 4-5 >999 240	

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

2x3 SPF No.2

5=162/0-5-9, 3=39/Mechanical, 4=11/Mechanical REACTIONS. (lb/size) Max Horz 5=96(LC 12) Max Uplift 5=-88(LC 12), 3=-65(LC 12), 4=-3(LC 19) Max Grav 5=162(LC 1), 3=39(LC 1), 4=47(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, 4.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and
- referenced standard ANSI/TPI 1.
- 7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 36 lb down and 14 lb up at -1-8-7, and 36 lb down and 14 lb up at -1-8-7 on top chord. The design/selection of such connection device(s) is the responsibility of others.
- 8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
- Concentrated Loads (lb) Vert: 1=-54(F=-27, B=-27)
- Trapezoidal Loads (plf)
- - Vert: 1=-0(F=35, B=35)-to-2=-32(F=19, B=19), 2=-2(F=34, B=34)-to-3=-60(F=5, B=5), 5=-0(F=10, B=10)-to-4=-17(F=1, B=1)



Structural wood sheathing directly applied or 3-5-4 oc purlins,

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

except end verticals.





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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 0.08	Vert(LL)	-0.00	4-5	>999	360	MT20	197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.03	Vert(CT)	-0.00	4-5	>999	240		
BCLL 0.0 *	Rep Stress Incr NO	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: 8 lb	FT = 10%

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

BRACING-TOP CHORD BOT CHORD

Structural wood sheathing directly applied or 2-6-5 oc purlins, except end verticals. Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 5=81/0-4-9, 3=29/Mechanical, 4=9/Mechanical Max Horz 5=61(LC 12)

Max Uplift 5=-105(LC 6), 3=-39(LC 12)

Max Grav 5=81(LC 1), 3=29(LC 1), 4=32(LC 3)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3 except (jt=lb) 5=105.
- 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) 16 lb down and 6 lb up at -1-2-14, and 16 lb down and 6 lb up at -1-2-14 on top chord. The design/selection of such connection device(s) is the responsibility of others
- 8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
 - Concentrated Loads (lb)

Vert: 1=-24(F=-12, B=-12)

- Trapezoidal Loads (plf)
 - Vert: 1=0(F=35, B=35)-to-6=-16(F=27, B=27), 6=0(F=35, B=35)-to-2=-7(F=31, B=31), 2=-7(F=31, B=31)-to-3=-50(F=10, F B=10), 5=-2(F=9, B=9)-to-4=-14(F=3, B=3)

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Wind(LL)

BRACING-

TOP CHORD

BOT CHORD

4

5

0.00

>999

240

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

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

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

With PROM

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BCDL

LUMBER-

WEBS

BOT CHORD

REACTIONS.

10.0

TOP CHORD 2x4 SPF No.2

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

Matrix-S

2) Provide adequate drainage to prevent water ponding.

- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * 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 4) will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.

2x6 SP 2400F 2.0E

Max Horz 1=51(LC 5)

2x4 SPF No.2

- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 4.
- 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) 34 lb down and 59 lb up at 2-5-4 on top chord, and 986 lb down and 38 lb up at 0-7-12, and 3 lb down and 2 lb up at 1-10-8 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)

Code IRC2018/TPI2014

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

(lb/size) 1=842/0-3-8, 4=308/Mechanical

Max Uplift 1=-37(LC 8), 4=-71(LC 5) Max Grav 1=860(LC 2), 4=308(LC 1)

Vert: 1-2=-70, 2-3=-70, 1-4=-20 Concentrated Loads (lb) Vert: 5=1(F) 6=-945(B)



FT = 10%

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Weight: 11 lb

October 18,2019







GRIP	PLATES	L/d	l/defl	(loc)	in	DEFL.		CSI.	2-0-0	SPACING-	G (psf)	LOADING
197/144	MT20	360	>999	5	-0.00	Vert(LL)	0.08	TC	1.15	Plate Grip DOL	25.0	TCLL
		240	>999	5	-0.00	Vert(CT)	0.02	BC	1.15	Lumber DOL	10.0	TCDL
		n/a	n/a	3	0.00	Horz(CT)	0.00	WB	NO	Rep Stress Incr	0.0 *	BCLL
FT = 10%	Weight: 6 lb	240	>999	5	0.00	Wind(LL)	x-R	Matri	PI2014	Code IRC2018/TF	10.0	BCDL
	Weight: 6 lb			5		- (-)						

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

Structural wood sheathing directly applied or 1-8-7 oc purlins, except end verticals. Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (Ib/size) 5=75/0-4-9, 3=20/Mechanical, 4=6/Mechanical Max Horz 5=46(LC 7) Max Uplift 5=-103(LC 6), 3=-13(LC 8)

Max Grav 5=75(LC 1), 3=20(LC 1), 4=23(LC 3)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3 except (jt=lb) 5=103.
- 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) 8 lb down and 3 lb up at -1-2-14 , and 8 lb down and 3 lb up at -1-2-14 on top chord. The design/selection of such connection device(s) is the responsibility of others
- 8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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

- Concentrated Loads (Ib)
- Vert: 1=-13(F=-6, B=-6)

Trapezoidal Loads (plf)

Vert: 1=0(F=35, B=35)-to-2=-23(F=24, B=24), 2=-23(F=24, B=24)-to-3=-50(F=10, B=10), 5=-6(F=7, B=7)-to-4=-14(F=3, B=3)



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LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in	(loc)	l/defl L/d	PLATES GRIP
TCLL 25.0	Plate Grip DOL 1.15	TC 0.07	Vert(LL) -0.00	5	>999 360	MT20 197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.01	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: 5 lb FT = 10%

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

BRACING-TOP CHORD

Structural wood sheathing directly applied or 1-3-8 oc purlins, except end verticals. BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (Ib/size) 5=150/0-3-8, 3=17/Mechanical, 4=7/Mechanical Max Horz 5=35(LC 8) Max Uplift 5=-26(LC 8), 3=-18(LC 8) Max Grav 5=150(LC 1), 3=17(LC 1), 4=21(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.



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2x4 ||

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 0.03	Vert(LL) -0.00 1	n/r 120	MT20 197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.02	Vert(CT) 0.00 1	n/r 120	
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT) -0.00 4	n/a n/a	
BCDL 10.0	Code IRC2018/TPI2014	Matrix-P			Weight: 5 lb FT = 10%

TOP CHORD

BOT CHORD

LUMBER-

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

REACTIONS. 4=59/1-6-0, 2=93/1-6-0 (lb/size) Max Horz 2=35(LC 5) Max Uplift 4=-15(LC 8), 2=-17(LC 8)

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.

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

7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 2.

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



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

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

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		1-6-0 ¹									
LOADIN	u /	SPACING- 2-0-			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	Matr	ix-P	Wind(LL)	0.00	2	****	240	Weight: 5 lb	FT = 10%

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

REACTIONS. 4=57/Mechanical, 2=94/0-3-8 (lb/size) Max Horz 2=35(LC 5)

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

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.

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October 18,2019

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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.



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 0.19	Vert(LL) -0.00 4-5 >999 360	MT20 197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.04	Vert(CT) -0.00 4-5 >999 240	
BCLL 0.0 *	Rep Stress Incr NO	WB 0.00	Horz(CT) -0.00 4 n/a n/a	
BCDL 10.0	Code IRC2018/TPI2014	Matrix-R	Wind(LL) -0.00 4-5 >999 240	Weight: 10 lb FT = 10%

BRACING-

TOP CHORD

BOT CHORD

0 40 7

except end verticals.

Structural wood sheathing directly applied or 2-10-7 oc purlins,

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

LUMBER-

 TOP CHORD
 2x4 SPF No.2

 BOT CHORD
 2x4 SPF No.2

 WEBS
 2x4 SPF No.2 *Except*

 3-4: 2x3 SPF No.2

REACTIONS. (lb/size) 5=132/0-5-3, 4=22/Mechanical

Max Horz 5=83(LC 7) Max Uplift 5=-111(LC 6), 4=-36(LC 12) Max Grav 5=132(LC 1), 4=41(LC 3)

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

NOTES-

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4 except (jt=lb) 5=111.
- 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) 28 lb down and 10 lb up at -1-6-15, and 28 lb down and 10 lb up at -1-6-15 on top chord. The design/selection of such connection device(s) is the responsibility of others.
- 8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
 - Concentrated Loads (lb)
 - Vert: 1=-43(F=-21, B=-21)
 - Trapezoidal Loads (plf)
 - Vert: 1=0(F=35, B=35)-to-2=-30(F=20, B=20), 2=-2(F=34, B=34)-to-3=-49(F=10, B=10), 5=0(F=10, B=10)-to-4=-14(F=3, B=3)



F MIS

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October 18,2019



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		3-0-0			1		
OADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in	(loc)	l/defl	L/d	PLATES GRIP
TCLL 25.0	Plate Grip DOL 1.15	TC 0.10	Vert(LL) -0.00	2-4	>999	360	MT20 197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.07	Vert(CT) -0.01	2-4	>999	240	
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT) -0.00	4	n/a	n/a	
BCDL 10.0	Code IRC2018/TPI2014	Matrix-P	Wind(LL) 0.00	2	****	240	Weight: 9 lb FT = 10%

TOP CHORD

BOT CHORD

LUMBER-

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

WEBS 2x3 SPF No.2

REACTIONS. 4=110/Mechanical, 2=208/0-3-8 (lb/size) Max Horz 2=54(LC 5) Max Uplift 4=-24(LC 8), 2=-70(LC 4)

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.

TIS * PROTI JUAN GARCIA NUMBER E-2000162101 SIONAL SIONAL UNIT SIGNAL SICENSEC 169F NAL ENGINE October 18,2019

1117 11 MIS

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

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

except end verticals.

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dol	Truss	Truss Type	Qty	Ply	Lot 62 MN
					138965511
400279	K1	Roof Special Girder	1	2	
				~	Job Reference (optional)
Wheeler Lumber, Wave	rly, KS 66871			8.240 s Ju	Il 14 2019 MiTek Industries, Inc. Fri Oct 18 10:31:32 2019 Page 2

ID:eIVztmttrvqeWtykiiM9UhzAKds-XBrVqnXqm1CADg9Zulq4upRi_6SGVeuKItFHnqySCaf

LOAD CASE(S) Standard

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

Uniform Loads (plf) Vert: 1-6=-70, 6-8=-70, 2-8=-20 Concentrated Loads (lb)

Vert: 9=-507(F) 14=-2907(F) 15=-507(F) 16=-507(F) 17=-507(F)

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5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 16=201, 10=160.

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



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F	<u>9-6-11</u> 9-6-11	<u>16-0-13</u> 6-6-3		<u>22-7-0</u> 6-6-3	29-6-0	
Plate Offsets (X,Y)	[2:Edge,0-2-0], [2:0-2-12,0-1-6], [6:0-3-1		:0-2-5,0-1-8], [10:0-2-		6-11-0	
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 0.62 BC 0.74 WB 0.46 Matrix-S	Vert(CT) -0.3 Horz(CT) 0.4	in (loc) l/defl L/d 19 13-14 >999 360 39 13-14 >885 240 07 9 n/a n/a 07 11-13 >999 240	PLATES MT20 Weight: 112 lb	GRIP 197/144 FT = 10%
BOT CHORD 2x4 SI WEBS 2x3 SI	PF No.2 PF No.2 PF No.2 *Except* -9: 2x6 SPF No.2		BRACING- TOP CHORD BOT CHORD WEBS	except end verticals, ar	ing directly applied or 3-6-8 d d 2-0-0 oc purlins (3-5-8 ma plied or 10-0-0 oc bracing. 3-14	
Max H	te) 14=1384/0-3-8, 9=1384/0-5-8 Horz 14=166(LC 7) Jplift 14=-144(LC 8), 9=-110(LC 9)					110.
TOP CHORD 2-3= 2-14	. Comp./Max. Ten All forces 250 (lb) or -763/104, 3-4=-1926/182, 4-5=-1950/259 =-576/135, 7-9=-1322/148	9, 5-6=-1949/259, 6-7=-17			NATE OF	MISSO
WEBS 4-13	4=-257/1802, 11-13=-199/1668, 10-11=- =0/346, 4-11=-149/475, 5-11=-564/229, (=-220/967	,	7/150,			JAN RCIA
2) Wind: ASCE 7-16; \	e loads have been considered for this de Vult=115mph (3-second gust) Vasd=91m) gable end zone: cantilever left and right	ph; TCDL=6.0psf; BCDL=			· · · ·	MBER 0162101

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) 14=144, 9=110.

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

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



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	6-2-11 6-2-11	+ 12-5-11 + 6-3-0	<u>18-10-0</u> 6-4-4		25-1-0 6-3-0	29-6 4-5	-0
Elate Offsets (X,Y) LOADING (psf) TCLL 25.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	[2:Edge,0-5-8], [2:0-6-3, Plate Grip DOL Lumber DOL Rep Stress Incr Code IRC2018/T	0-1-7], [2:0-1-7,0-0-11], [3:0-3-0,0-2-7], [2-0-0 CSI. 1.15 TC 0.94 1.15 BC 0.84 NO WB 0.64 PI2014 Matrix-S	DEFL. Vert(LL) - Vert(CT) - Horz(CT)	in (loc) 0.21 11-13 0.37 11-13 0.07 9	J-2-5,0-1-8], [10:0-2-2 l/defl L/d >999 360 >934 240 n/a n/a >999 240	PLATES MT20 Weight: 121 lb	GRIP 197/144 FT = 10%
3-6 BOT CHORD 2x6 WEBS 2x3	4 SPF No.2 *Except* 5: 2x4 SPF 2100F 1.8E 5 SPF No.2 3 SPF No.2 *Except* 9: 2x6 SPF No.2		BRACING- TOP CHORD BOT CHORD	2-0-0 oc	al wood sheathing dir purlins (3-4-14 max.) iling directly applied o		nd verticals, and
ÌMa	/size) 2=1769/0-3-8, 9=18 ax Horz 2=111(LC 7) ax Uplift 2=-414(LC 8), 9=-40					NINTE OF	MISSO
TOP CHORD 2 7 BOT CHORD 2 WEBS 3	-3=-3124/787, 3-4=-3794/10 -9=-1741/415 -14=-726/2643, 13-14=-724/	rces 250 (lb) or less except when showr 05, 4-5=-3570/948, 5-6=-3572/949, 6-7= 2630, 11-13=-1016/3792, 10-11=-477/19 2, 4-13=-496/281, 4-11=-271/95, 5-11=- 542	2431/622, 954, 9-10=-136/448			* GAI	MAN RCIA
2) Wind: ASCE 7-1 MWFRS (envelo grip DOL=1.60	ope) gable end zone; cantilev	gust) Vasd=91mph; TCDL=6.0psf; BCDL /er left and right exposed ; end vertical le					AL ENGLIT
 4) This truss has b 5) * This truss has will fit between t 6) Provide mechan 	been designed for a live load he bottom chord and any oth	bottom chord live load nonconcurrent wit d of 20.0psf on the bottom chord in all ar	eas where a rectangl	e 3-6-0 tall by		UCI 16	GARCIA
referenced stand 8) Graphical purlin 9) Hanger(s) or oth 7-0-0, 95 lb dow up at 15-0-0, 95 down and 65 lb down at 7-0-0, 1 down at 19-0-0, design/selection	dard ANSI/TPI 1. representation does not dep ter connection device(s) shal n and 65 lb up at 9-0-0, 95 l 5 lb down and 65 lb up at 17 up at 23-0-0, and 87 lb down 28 lb down at 9-0-0, 28 lb do , 28 lb down at 21-0-0, and 2 of such connection device(s	e 2018 International Residential Code se ict the size or the orientation of the purlin Il be provided sufficient to support conce b down and 65 lb up at 11-0-0, 95 lb do -0-0, 95 lb down and 65 lb up at 19-0-0, n and 67 lb up at 25-1-0 on top chord, a sown at 11-0-0, 28 lb down at 13-0-0, 28 28 lb down at 23-0-0, and 190 lb down at b) is the responsibility of others. Id to the face of the truss are noted as from the second second second second second second second second b) is the responsibility of others.	n along the top and/o ntrated load(s) 93 lb wn and 65 lb up at 1 95 lb down and 65 ll nd 216 lb down and lb down at 15-0-0, 2 nnd 108 lb up at 25-0	r bottom chord down and 65 l 3-0-0, 95 lb dd o up at 21-0-0 155 lb up at 6 28 lb down at	I. b up at own and 65 lb i, and 95 lb -2-11, 28 lb 17-0-0, 28 lb	PROFILE STO	NGAS BUILD
Design valid for u a truss system. E building design. is always require fabrication, stora	use only with MiTek® connectors. The Before use, the building designer mut Bracing indicated is to prevent buck d for stability and to prevent collapse ge, delivery, erection and bracing of	NOTES ON THIS AND INCLUDED MITEK REFERT is design is based only upon parameters shown, a st verify the applicability of design parameters and ling of individual truss web and/or chord members of with possible personal injury and property damage trusses and truss systems, see ANSI/TPI ute, 218 N. Lee Street, Suite 312, Alexandria, VA 2	nd is for an individual build properly incorporate this de only. Additional temporary e. For general guidance re 1 Quality Criteria, DSB-8	ing component, no esign into the over and permanent bu garding the	ot all racing	16023 Swingley Chesterfield, M	

dof	Truss	Truss Type	Qty	Ply	Lot 62 MN
					138965516
400279	K6	Hip Girder	1	1	
					Job Reference (optional)
Wheeler Lumber, Wave	rly, KS 66871			8.240 s Ju	ul 14 2019 MiTek Industries, Inc. Fri Oct 18 10:31:38 2019 Page 2

8.240 s Jul 14 2019 MiTek Industries, Inc. Fri Oct 18 10:31:38 2019 Page 2 ID:eIVztmttrvqeWtykiiM9UhzAKds-MLCm4qbbLtyKxbcjEZwU84himXTKvNdDgpib?UySCaZ

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-3=-70, 3-6=-70, 6-7=-70, 7-8=-70, 2-9=-20 Concentrated Loads (lb)

Vert: 6=-27(B) 14=-216(B) 5=-27(B) 11=-15(B) 10=-190(B) 15=-27(B) 16=-27(B) 17=-27(B) 18=-27(B) 19=-27(B) 20=-27(B) 21=-27(B) 22=-27(B) 23=-15(B) 24=-15(B) 25=-15(B) 25=-15(B)

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8-9-2

8-9-2 Plate Offsets (X,Y)--[4:Edge,0-3-0], [5:0-0-0,0-0-0], [6:0-0-0,0-0-0] LOADING (psf) SPACING-DEFL. PLATES GRIP 2-0-0 CSI. in (loc) l/defl L/d Plate Grip DOL TCLL 25.0 1.15 тс 0.04 Vert(LL) n/a n/a 999 MT20 197/144 TCDL 10.0 Lumber DOL 1.15 BC 0.03 Vert(CT) n/a n/a 999 BCLL 0.0 Rep Stress Incr YES WВ 0.03 Horz(CT) 0.00 7 n/a n/a BCDL Code IRC2018/TPI2014 FT = 10% 10.0 Matrix-P Weight: 33 lb LUMBER-BRACING-

TOP CHORD

BOT CHORD

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

REACTIONS. All bearings 8-9-2.

(lb) -Max Horz 1=-117(LC 4)

Max Uplift All uplift 100 lb or less at joint(s) 1, 7, 10, 9 except 11=-124(LC 8), 8=-125(LC 9) Max Grav All reactions 250 lb or less at joint(s) 1, 7, 11, 10, 9, 8

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) All plates are 2x4 MT20 unless otherwise indicated.

4) Gable requires continuous bottom chord bearing.

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

* 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) All bearings are assumed to be SPF No.2 crushing capacity of 425 psi.

8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 7, 10, 9 except (jt=lb) 11=124, 8=125.

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

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

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



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REACTIONS. All bearings 18-6-10.

(lb) -Max Horz 1=210(LC 5)

Max Uplift All uplift 100 lb or less at joint(s) 1, 10, 15, 16, 17, 18 except 13=-124(LC 9), 12=-124(LC 9), 11=-122(LC 9)

Max Grav All reactions 250 lb or less at joint(s) 1, 10, 14, 15, 16, 17, 18, 13, 12, 11

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) All plates are 2x4 MT20 unless otherwise indicated.

4) Gable requires continuous bottom chord bearing.

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

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

7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 10, 15, 16, 17, 18 except (jt=lb) 13=124, 12=124, 11=122.

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



11111

October 18,2019

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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 0.14	Vert(LL)	n/a	-	n/a	999	MT20	197/144
CDL 10.0	Lumber DOL 1.15	BC 0.03	Vert(CT)	n/a	-	n/a	999		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.06	Horz(CT)	0.00	5	n/a	n/a		
3CDL 10.0	Code IRC2018/TPI2014	Matrix-P						Weight: 37 lb	FT = 10%

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

TOP CHORD BOT CHORD

2-0-0 oc purlins: 1-5, except end verticals. Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 5-6.

REACTIONS. All bearings 7-5-3.

(lb) -Max Horz 10=-134(LC 6)

Max Uplift All uplift 100 lb or less at joint(s) 10, 5, 9, 8, 6 except 7=-120(LC 6) Max Grav All reactions 250 lb or less at joint(s) 10, 5, 7, 9, 8, 6

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) Provide adequate drainage to prevent water ponding.

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

4) Gable requires continuous bottom chord bearing.

- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 10, 5, 9, 8, 6 except (jt=lb) 7=120.
- 8) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 5, 6.
- 9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

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



11111 FMIS 0

October 18,2019

Scale = 1:27.6



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Job	Truss	Truss Type	Qty	Ply	Lot 62 MN	
400279	LAY4	Lay-In Gable	1	1		138965520
	Vaverly, KS 66871			8.240 s J	Job Reference (optiona ul 14 2019 MiTek Indust	I) ries, Inc. Fri Oct 18 10:31:41 2019 Page 1
			9-12	rqeWtykiiN ∟	19UhzAKds-mwuvjseTeo	Kvo2LHvhUBliJNrliO6sFfMmwFcpySCaW
		0-2-6 4	-7-6	1		
		2x4				Scale = 1:37.9
			2 2x ³ 4 ^β .θβ <u>12</u> 3	3		
		5 4	2x4	11		
			-12	4		
			-12			
LOADING (psf) TCLL 25.0	SPACING-2-0-Plate Grip DOL1.1	5 TC 0.31	DEFL. in Vert(LL) n/a	-	l/defl L/d n/a 999	PLATES GRIP MT20 197/144
TCDL 10.0 BCLL 0.0 *	Lumber DOL 1.1 Rep Stress Incr YE	WB 0.07	Vert(CT) n/a Horz(CT) 0.00	- 3	n/a 999 n/a n/a	
BCDL 10.0	Code IRC2018/TPI2014	Matrix-P				Weight: 26 lb FT = 10%
LUMBER- TOP CHORD 2x4 SP BOT CHORD 2x4 SP WEBS 2x4 SP OTHERS 2x4 SP	F No.2 F No.2		BRACING- TOP CHORD BOT CHORD	except e	al wood sheathing dire nd verticals. iling directly applied or	ctly applied or 4-9-12 oc purlins, 10-0-0 oc bracing.
Max Ho Max Up) 5=50/4-9-12, 3=94/4-9-12, prz 5=-260(LC 4) olift 5=-138(LC 6), 3=-125(LC 7 rav 5=131(LC 5), 3=256(LC 4),	, 4=-302(LC 9)				
FORCES. (lb) - Max. TOP CHORD 2-3=-3 WEBS 2-4=-3 NOTES- 1) Wind: ASCE 7-16; V MWFRS (envelope) grip DOL=1.60 2) Gable requires contii 3) This truss has been will fit between the bi 5) Provide mechanical i 5=138, 3=125, 4=303	Comp./Max. Ten All forces 25 314/249 285/336 ult=115mph (3-second gust) Va gable end zone; cantilever left a huous bottom chord bearing. designed for a 10.0 psf bottom r o designed for a 10.0 psf bottom r o designed for a live load of 20.0 bottom chord and any other men connection (by others) of truss t 2.	0 (Ib) or less except when shown. sd=91mph; TCDL=6.0psf; BCDL=6.0psf nd right exposed ; end vertical left and r shord live load nonconcurrent with any o upsf on the bottom chord in all areas who	ight exposed; Lurr ther live loads. ere a rectangle 3-6 100 lb uplift at join	ber DOL 5-0 tall by t(s) excel	=1.60 plate 2-0-0 wide ot (jt=lb)	JUAN GARCIA * NUMBER E-2000162101
referenced standard	ANSI/TPI 1.					16952 DOT MANSAS

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16023 Swingley Ridge Rd Chesterfield, MO 63017



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.
- * 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 4) 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) 9, 5, 8, 7 except (it=lb) 6=105.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



October 18,2019



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Job Trus 400279 R1 Wheeler Lumber, Waverly,		Roof Special Girder	Qty		Lot 62 MN		138965522
Wheeler Lumber, Waverly,			1	2			136965522
, , , , , , , , , , , , , , , , , , ,	, KS 66871			8.240 s	Job Reference (or Jul 14 2019 MiTek I	otional) ndustries, Inc. Fri Oct 18 10:	31:42 2019 Page 1
	6.00	+ 2-1-11 + 9-5-10 2-1-11 + 7-3-14 12 6x6 ≠	ID:eIVztmttrvqeW			P6SIQCwUTO?QIwrTW8w_r	
	0.00	6X6 >>					Scale: 5/10 -1
	10-8-14 9-8-0	° / 2x4 8x8 =	8.00 12 4x9 > 3 3 11 12 = 6 13 = 14 8x8 = 12			0-10-0	
		2-1-11 9-5-10 2-1-11 7-3-14		17-0-0 7-6-6			
	· • • • • •	<u>5:0-3-0,0-2-0], [6:0-3-8,0-4-8], [7:0</u>	· •				CDID
TCLL 25.0 P TCDL 10.0 L BCLL 0.0 * R	SPACING-2-0-0Plate Grip DOL1.15Lumber DOL1.15Rep Stress IncrNOCode IRC2018/TPI2014	CSI. TC 0.64 BC 0.53 WB 0.49 Matrix-S	DEFL. in Vert(LL) -0.11 Vert(CT) -0.19 Horz(CT) 0.01 Wind(LL) 0.04	6-7 6-7 5	l/defl L/d >999 360 >999 240 n/a n/a >999 240	PLATES MT20 Weight: 241 lb	GRIP 197/144 FT = 10%
LUMBER- TOP CHORD 2x4 SPF No.2 BOT CHORD 2x6 SP 2400F WEBS 2x4 SPF No.2 4-5: 2x8 SP DS REACTIONS. (lb/size)	2.0E *Except*		BRACING- TOP CHORD BOT CHORD WEBS	except e	end verticals. alling directly appli	g directly applied or 5-5-5 or ed or 10-0-0 oc bracing. 3-7, 1-8	purlins,
Max Horz 8=-3 Max Uplift 8=-8	-382(LC 6) -82(LC 9)	////) -					HIIII.
TOP CHORD 1-2=-862/128 BOT CHORD 7-8=-217/306 WEBS 2-7=-158/674 NOTES- 1) 2-ply truss to be connected to Top chords connected as follows: 2) All loads are considered equ ply connections have been p 3) Unbalanced roof live loads h 4) Wind: ASCE 7-16; Vult=115fr	8, 2-3=-1036/85, 3-4=-408 6, 6-7=0/3297, 5-6=0/1789 4, 3-7=-3200/0, 3-6=0/305 together with 10d (0.131": ollows: 2x4 - 1 row at 0-9-0 s follows: 2x6 - 2 rows sta : 2x4 - 1 row at 0-9-0 oc. ually applied to all plies, e: provided to distribute only have been considered for 5mph (3-second gust) Vas	1, 1-7=-43/3659, 4-6=0/1514 x3") nails as follows: 0 oc, 2x8 - 2 rows staggered at 0-9 ggered at 0-9-0 oc. xcept if noted as front (F) or back of loads noted as (F) or (B), unless of	(B) face in the LOAD C otherwise indicated. .0psf; h=25ft; Cat. II; E	xp C; En	closed;	GAF PPO E-2000	BER 162101
 5) This truss has been designe 6) * This truss has been design will fit between the bottom cf 7) Provide mechanical connect 8) This truss is designed in acc referenced standard ANSI/TI 9) Hanger(s) or other connection 1-11-4, 824 lb down and 169 11-11-4, and 745 lb down at connection device(s) is the reference 	ned for a live load of 20.0p shord and any other memb tion (by others) of truss to cordance with the 2018 In IPI 1. on device(s) shall be prov 9 Ib up at 3-11-4, 745 Ib of t 13-11-4, and 737 Ib dow	nord live load nonconcurrent with a osf on the bottom chord in all areas bers, with BCDL = 10.0psf. bearing plate capable of withstan ternational Residential Code section ided sufficient to support concentr down at 5-11-4, 745 lb down at 7- <i>n</i> and 93 lb up at 15-11-4 on bott	s where a rectangle 3-6 ding 100 lb uplift at joir ons R502.11.1 and R8/ ated load(s) 787 lb dov -11-4, 745 lb down at 9	nt(s) 8. 02.10.2 a wn and 20 9-11-4, 74	nd)6 lb up at 45 lb down at	LICE	GARCIA NSED 952
LOAD CASE(S) Standard 1) Dead + Roof Live (balanced) Continued on page 2	d): Lumber Increase=1.15,	Plate Increase=1.15					October 18,201



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Job	Truss	Truss Type	Qty	Ply	Lot 62 MN
					138965522
400279	R1	Roof Special Girder	1	2	
				2	Job Reference (optional)
Wheeler Lumber, Wave	erly, KS 66871			8.240 s J	ul 14 2019 MiTek Industries, Inc. Fri Oct 18 10:31:42 2019 Page 2
		ID:eIVzt	mttrvgeWt	ykiiM9Uhz	AKds-E7SHwCe5P6SIQCwUTO?QIwrTW8w_rD0pbQgp8FySCaV

LOAD CASE(S) Standard

Uniform Loads (plf)

Vert: 1-2=-70, 2-4=-70, 5-8=-20 Concentrated Loads (lb)

Vert: 7=-741(F) 9=-747(F) 10=-745(F) 12=-745(F) 13=-745(F) 14=-745(F) 15=-745(F) 16=-737(F)

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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 0.25	Vert(LL) n/a	-	n/a	999	MT20	197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.13	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%

LUMBER-

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

REACTIONS. (lb/size) 1=165/4-3-2, 3=165/4-3-2 Max Horz 1=98(LC 5)

Max Uplift 1=-14(LC 8), 3=-48(LC 8)

Max Grav 1=165(LC 1), 3=178(LC 15)

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.



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BRACING-TOP CHORD BOT CHORD

Structural wood sheathing directly applied or 4-3-2 oc purlins, except end verticals. Rigid ceiling directly applied or 10-0-0 oc bracing.



LUMBER-

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

2x3 SPF No.2 OTHERS 2x3 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. (lb/size) 1=46/6-9-2, 4=142/6-9-2, 5=367/6-9-2 Max Horz 1=164(LC 5) Max Uplift 1=-23(LC 4), 4=-38(LC 5), 5=-142(LC 8)

Max Grav 1=86(LC 16), 4=158(LC 15), 5=381(LC 15)

FORCES. (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) or less except when shown. 2-5=-299/191 WEBS

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, 4 except (jt=lb) 5 = 142

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



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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 0.30 BC 0.18 WB 0.10 Matrix-S	DEFL. i Vert(LL) n/. Vert(CT) n/. Horz(CT) -0.00	a - n/a 999	PLATES GRIP MT20 197/144 Weight: 29 lb FT = 10%
BOT CHORD 2x4 SF WEBS 2x3 SF	PF No.2 PF No.2 PF No.2 PF No.2		BRACING- TOP CHORD BOT CHORD	Structural wood sheathing d except end verticals. Rigid ceiling directly applied	irectly applied or 6-0-0 oc purlins, or 10-0-0 oc bracing.

REACTIONS. (lb/size) 1=171/9-3-2, 4=122/9-3-2, 5=488/9-3-2 Max Horz 1=230(LC 5) Max Uplift 4=-45(LC 5), 5=-189(LC 8) Max Grav 1=225(LC 16), 4=186(LC 15), 5=608(LC 15)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. WEBS 2-5=-393/232

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) 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, with BCDL = 10.0psf.

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=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.



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Plate Offsets (X,Y)	[5:Edge,0-2-8]				
LOADING (psf) TCLL 25.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING-2-0-0Plate Grip DOL1.15Lumber DOL1.15Rep Stress IncrYESCode IRC2018/TPI2014	CSI. TC 0.50 BC 0.15 WB 0.19 Matrix-S	DEFL. ir Vert(LL) n/z Vert(CT) n/z Horz(CT) -0.00	a - n/a 999 a - n/a 999	PLATES GRIP MT20 197/144 Weight: 40 lb FT = 10%
LUMBER- TOP CHORD 2x4 SP BOT CHORD 2x4 SP WEBS 2x3 SP OTHERS 2x3 SP	PF No.2 PF No.2		BRACING- TOP CHORD BOT CHORD	Structural wood sheathing except end verticals. Rigid ceiling directly applie	directly applied or 6-0-0 oc purlins, ad or 10-0-0 oc bracing.
(Ib) - Max H Max U	earings 11-9-2. orz 1=297(LC 5) plift All uplift 100 lb or less at joint(s) 1, 8) rav All reactions 250 lb or less at joint(15)		,		
TOP CHORD 1-2=-	Comp./Max. Ten All forces 250 (lb) or 264/180 331/186, 2-7=-283/185	less except when shown			
MWFRS (envelope) grip DOL=1.60 2) Gable requires conti 3) This truss has been will fit between the b 5) Provide mechanical 6=154, 7=138.	fult=115mph (3-second gust) Vasd=91m gable end zone; cantilever left and right nuous bottom chord bearing. 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 ed in accordance with the 2018 Internation ANSI/TPI 1.	exposed ; end vertical le e load nonconcurrent with he bottom chord in all are th BCDL = 10.0psf. g plate capable of withsta	ft and right exposed; Lur h any other live loads. eas where a rectangle 3- anding 100 lb uplift at joi	nber DOL=1.60 plate 6-0 tall by 2-0-0 wide nt(s) 1, 5 except (jt=lb)	16952 BORNALENO

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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. 10/03/2015 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSUTPIT Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



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 0.54	Vert(LL)	n/a -	n/a 999	MT20 197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.29	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: 17 lb FT = 10%

LUMBER-

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

WEBS 2x3 SPF No.2

REACTIONS. 1=236/5-10-0, 3=236/5-10-0 (lb/size) Max Horz 1=139(LC 5) Max Uplift 1=-20(LC 8), 3=-68(LC 8) Max Grav 1=236(LC 1), 3=254(LC 15)

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.



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BRACING-TOP CHORD BOT CHORD

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



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 0.13 BC 0.07 WB 0.00 Matrix-P	DEFL. in Vert(LL) n/a Vert(CT) n/a Horz(CT) -0.00	(loc) - - 3	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20 Weight: 9 lb	GRIP 197/144 FT = 10%
LUMBER-			BRACING-					

TOP CHORD 2x4 SPF No.2

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

REACTIONS. (Ib/size) 1=124/3-4-0, 3=124/3-4-0 Max Horz 1=73(LC 5)

Max Uplift 1=-10(LC 8), 3=-36(LC 8)

Max Grav 1=124(LC 1), 3=133(LC 15)

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) Gable requires continuous bottom chord bearing.

- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



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BRACING-TOP CHORD

Structural wood sheathing directly applied or 3-4-0 oc purlins, except end verticals. Rigid ceiling directly applied or 10-0-0 oc bracing.



BRACING-

TOP CHORD

BOT CHORD

BCDL

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

10.0

WEBS 2x3 SPF No.2

REACTIONS. 1=97/2-9-0, 3=97/2-9-0 (lb/size) Max Horz 1=57(LC 5) Max Uplift 1=-8(LC 8), 3=-28(LC 8) Max Grav 1=97(LC 1), 3=105(LC 15)

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

Code IRC2018/TPI2014

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

Matrix-P

2) Gable requires continuous bottom chord bearing.

- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



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Weight: 7 lb

Structural wood sheathing directly applied or 2-9-0 oc purlins,

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

except end verticals

FT = 10%

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