

RE: 400311 Lot 23 RT 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 112 individual, dated Truss Design Drawings and 0 Additional Drawings.

No.	Seal#	Truss Name	Date	No.	Seal#	Truss Name	Date
1	l41405847	A1	5/22/2020	27	l41405873	H4	5/22/2020
2	l41405848	A2	5/22/2020	28	l41405874	H5	5/22/2020
3	l41405849	A3	5/22/2020	29	l41405875	H6	5/22/2020
4	l41405850	B1	5/22/2020	30	l41405876	H7	5/22/2020
5	l41405851	B2	5/22/2020	31	l41405877	H8	5/22/2020
6	l41405852	B3	5/22/2020	32	l41405878	H9	5/22/2020
7	l41405853	C1	5/22/2020	33	l41405879	J1	5/22/2020
8	l41405854	C2	5/22/2020	34	l41405880	J2	5/22/2020
9	l41405855	C3	5/22/2020	35	l41405881	J3	5/22/2020
10	l41405856	D1	5/22/2020	36	l41405882	J4	5/22/2020
11	l41405857	D2	5/22/2020	37	l41405883	J5	5/22/2020
12	l41405858	D3	5/22/2020	38	l41405884	J6	5/22/2020
13	l41405859	D4	5/22/2020	39	l41405885	J7	5/22/2020
14	I41405860	D5	5/22/2020	40	l41405886	J8	5/22/2020
15	l41405861	D6	5/22/2020	41	l41405887	J9	5/22/2020
16	l41405862	E1	5/22/2020	42	l41405888	J10	5/22/2020
17	l41405863	E2	5/22/2020	43	l41405889	J11	5/22/2020
18	l41405864	E3	5/22/2020	44	l41405890	J12	5/22/2020
19	I41405865	G1	5/22/2020	45	l41405891	J13	5/22/2020
20	I41405866	G2	5/22/2020	46	l41405892	J14	5/22/2020
21	l41405867	G3	5/22/2020	47	l41405893	J15	5/22/2020
22	l41405868	G4	5/22/2020	48	l41405894	J16	5/22/2020
23	l41405869	G5	5/22/2020	49	l41405895	J17	5/22/2020
24	l41405870	H1	5/22/2020	50	l41405896	J18	5/22/2020
25	l41405871	H2	5/22/2020	51	l41405897	J19	5/22/2020
26	141405872	H3	5/22/2020	52	l41405898	J20	5/22/2020

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

based on the parameters provided by Wheeler - Waverly.

Truss Design Engineer's Name: Garcia, Juan

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

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





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Site Information:

Project Name:

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

Subdivision:

State:

	0 1"	T N			0 1"	T N	
NO.	Seal#	I russ Name	Date	NO.	Seal#	Truss Name	Date
53	141405899	J21	5/22/2020	97	141405943	LAY4	5/22/2020
54	I41405900	J22	5/22/2020	98	l41405944	LAY5	5/22/2020
55	l41405901	J23	5/22/2020	99	l41405945	LAY6	5/22/2020
56	I41405902	J24	5/22/2020	100	l41405946	LAY7	5/22/2020
57	I41405903	J25	5/22/2020	101	l41405947	LAY8	5/22/2020
58	I41405904	J26	5/22/2020	102	l41405948	M1	5/22/2020
59	l41405905	J27	5/22/2020	103	l41405949	M2	5/22/2020
60	I41405906	J28	5/22/2020	104	141405950	R1	5/22/2020
61	141405907	J29	5/22/2020	105	141405951	V1	5/22/2020
62	141405908	J30	5/22/2020	106	141405952	V2	5/22/2020
63	141405909	J31	5/22/2020	107	141405953	V3	5/22/2020
64	141405910	.132	5/22/2020	108	141405954	V4	5/22/2020
65	141405911	J33	5/22/2020	109	141405955	V5	5/22/2020
66	141405912	.134	5/22/2020	110	141405956	V6	5/22/2020
67	141405913	135	5/22/2020	111	141405957	V7	5/22/2020
68	141405910	136	5/22/2020	112	1/1/05058	V/8	5/22/2020
60	141405015	137	5/22/2020	112	141403300	VO	5/22/2020
70	141405915	130	5/22/2020				
70	141405910	120	5/22/2020				
71	141403917	J39 144	5/22/2020				
72	141403910	J4 I	5/22/2020				
73	141403919	J4Z	5/22/2020				
74	141405920	J44	5/22/2020				
75	141405921	J45	5/22/2020				
76	141405922	J46	5/22/2020				
//	141405923	J47	5/22/2020				
78	141405924	J48	5/22/2020				
79	141405925	J49	5/22/2020				
80	141405926	J50	5/22/2020				
81	141405927	J51	5/22/2020				
82	141405928	J52	5/22/2020				
83	141405929	J53	5/22/2020				
84	141405930	K1	5/22/2020				
85	141405931	K2	5/22/2020				
86	141405932	K3	5/22/2020				
87	l41405933	K4	5/22/2020				
88	141405934	L1	5/22/2020				
89	l41405935	L2	5/22/2020				
90	l41405936	L3	5/22/2020				
91	l41405937	L4	5/22/2020				
92	l41405938	L5	5/22/2020				
93	l41405939	L6	5/22/2020				
94	l41405940	LAY1	5/22/2020				
95	l41405941	LAY2	5/22/2020				
96	l41405942	LAY3	5/22/2020				



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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

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78	141405924	J48	5/22/2020				
79	141405925	J49	5/22/2020				
80	141405926	J50	5/22/2020				
81	141405927	J51	5/22/2020				
82	141405928	J52	5/22/2020				
83	141405929	J53	5/22/2020				
84	141405930	K1	5/22/2020				
85	141405931	K2	5/22/2020				
86	141405932	K3	5/22/2020				
87	l41405933	K4	5/22/2020				
88	141405934	L1	5/22/2020				
89	l41405935	L2	5/22/2020				
90	l41405936	L3	5/22/2020				
91	l41405937	L4	5/22/2020				
92	l41405938	L5	5/22/2020				
93	l41405939	L6	5/22/2020				
94	l41405940	LAY1	5/22/2020				
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 	<u>5-8-0</u> 5-8-0		<u>10-8-0</u> 5-0-0		<u>16-4-0</u> 5-8-0				
Plate Offsets (X,Y)	[2:0-4-14,0-0-0], [3:0-4-4,0-2-8], [4:0-3-8	,0-2-5], [5:0-4-14,0-0-0],	[7:0-5-2,0-8-10], [7:0-4-6	,0-1-7], [10:0-4-6,0-1-7], [10:0-1-14,0-5-11]				
LOADING (psf) TCLL 25.0 TCDL 10.0 BCLL 0.0 BCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr NO Code IRC2018/TPI2014	CSI. TC 0.98 BC 0.80 WB 0.12 Matrix-S	DEFL. in Vert(LL) -0.24 Vert(CT) -0.43 Horz(CT) 0.04 Wind(LL) 0.20	(loc) l/defl L/4 8-9 >776 360 8-9 >432 244 7 n/a n/4 8-9 >922 244	d PLATES 0 MT20 0 a 0 Weight: 52 lb	GRIP 197/144 FT = 10%			
LUMBER- TOP CHORD 2x4 SP 3-4: 2x BOT CHORD 2x4 SP WEBS 2x3 SP 2-10,5-	F 2400F 2.0E *Except* 4 SPF 2100F 1.8E F 2100F 1.8E F No.2 *Except* 7: 2x10 SP DSS		BRACING- TOP CHORD BOT CHORD	Structural wood shea 2-0-0 oc purlins (4-8- Rigid ceiling directly a	thing directly applied, excep 0 max.): 3-4. applied or 10-0-0 oc bracing.	t end verticals, and			
REACTIONS. (size) 10=0-3-8, 7=0-3-8 Max Horz 10=16(LC 12) Max Uplift 10=-301(LC 4), 7=-301(LC 5) Max Grav 10=1171(LC 1), 7=1171(LC 1)									
FORCES. (lb) - Max. Comp./Max. Ten All forces 250 (lb) or less except when shown. TOP CHORD 2-3=-1976/472, 3-4=-1784/462, 4-5=-1977/472, 2-10=-1028/309, 5-7=-1028/309 BOT CHORD 9-10=-390/1770, 8-9=-390/1783, 7-8=-379/1771 WEBS 3-9=0/341, 4-8=-5/354									
 NOTES- 1) Unbalanced roof live loads have been considered for this design. 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60 3) Provide adequate drainage to prevent water ponding. 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads. 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide 									
 will fit between the bottom chord and any other members. 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 10=301, 7=301. 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and reformanced standard ANS/CEL1 									
 8) Graphical purlin repr 9) Hanger(s) or other c 6-2-0, and 90 lb dow 5-8-0, 38 lb down at chord. The design/s 10) In the LOAD CASE 	 1) Graphical purlin representation device(s) shall be provided sufficient to support concentrated load(s) 90 lb down and 77 lb up at 6-2-0, and 90 lb down and 77 lb up at 8-2-0, and 90 lb down and 77 lb up at 10-2-0 on top chord, and 253 lb down and 100 lb up at 5-8-0, 38 lb down at 6-2-0, as lb down at 8-2-0, and 38 lb down at 10-2-0, and 253 lb down and 100 lb up at 10-8-0 on bottom chord. 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) Stand 1) Dead + Roof Live (b	dard alanced): Lumber Increase=1.15, Plate I	ncrease=1.15			11,55	ONALENGII			

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 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.



Job	Truss	Truss Type	Qty	Ply	Lot 23 RT
					141405847
400311	A1	Hip Girder	1	1	
					Job Reference (optional)
Wheeler Lumber, Wav	erly, KS 66871		8	3.240 s Ma	ar 9 2020 MiTek Industries, Inc. Fri May 22 11:54:04 2020 Page 2

8.240 s Mar 9 2020 MiTek Industries, Inc. Fri May 22 11:54:04 2020 Page 2 ID:M6_qRERj_ax8BApGKEbrTSyOHsj-aQbsrvK9842x6TIQEzLGU37xnCyHE5BIxuWs2xzDyXH

LOAD CASE(S) Standard

Uniform Loads (plf)

Vert: 1-2=-70, 2-3=-70, 3-4=-70, 4-5=-70, 5-6=-70, 7-10=-20

Concentrated Loads (lb) Vert: 9=-253(F) 8=-253(F) 11=-58(F) 12=-58(F) 13=-58(F) 14=-29(F) 15=-29(F) 16=-29(F)

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L	8-2-0						16-4-0		
	8-2-0						8-2-0		1
Plate Offsets (X,	Y) [2:0-0-15,0-2-12], [6:0-0-15,0-2-12], [8:0-	-0-0,0-2-12], [10:0-0-0,0-2-1	12]						
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 0.66 BC 0.51 WB 0.11 Matrix-S	DEFL. Vert(LL) Vert(CT) Horz(CT) Wind(LL)	in -0.09 -0.18 0.03 0.06	(loc) 9 9-10 8 9	l/defl >999 >999 n/a >999	L/d 360 240 n/a 240	PLATES MT20 Weight: 53 lb	GRIP 197/144 FT = 10%
LUMBER- TOP CHORD 2 BOT CHORD 2 WEBS 2	BRACING- TOP CHORE BOT CHORE	כ ס	Structu except Rigid c	ral wood end verti eiling dire	sheathing dire cals. ectly applied o	ectly applied or 5-7-1	4 oc purlins,		
REACTIONS. (size) 10=0-3-8, 8=0-3-8 Max Horz 10=-32(LC 13) Max Uplift 10=-152(LC 4), 8=-152(LC 5) Max Grav 10=792(LC 1), 8=792(LC 1)									
FORCES. (lb) - Max. Comp./Max. Ten All forces 250 (lb) or less except when shown. TOP CHORD 2-3=-1131/211, 3-4=-1002/126, 4-5=-1002/126, 5-6=-1131/211, 2-10=-705 6-8=-705/189 6-8=-705/189 BOT CHORD 9-10=-179/983, 8-9=-153/983								ATE	UAN
WEBS NOTES-	4-9=0/300								
1) Unbalanced ro 2) Wind: ASCE 7	oof live loads have been considered for this des 7-16; Vult=115mph (3-second gust) Vasd=91mp	sign. oh; TCDL=6.0psf; BCDL=6.	0psf; h=25ft; Cat	t. II; Ex	(p C; En	iclosed;		D. E-200	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) 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) 10=152, 8=152.

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.



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 **ANSITPTI Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.





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



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MITEK[®] 16023 Swingley Ridge Rd Chesterfield, MO 63017



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

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

10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 108 lb down and 98 lb up at 8-0-0, and 108 lb down and 98 lb up at 10-0-0 on top chord, and 436 lb down and 157 lb up at 7-0-14 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

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

LOAD CASE(S) Standard

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.



mini

May 22,2020

Job	Truss	Truss Type	Qty	Ply	Lot 23 RT
					141405850
400311	B1	Half Hip Girder	1	1	
					Job Reference (optional)
Wheeler Lumber,	Waverly, KS 66871			8.240 s Ma	ar 9 2020 MiTek Industries, Inc. Fri May 22 11:54:08 2020 Page 2

ID:M6_qRERj_ax8BApGKEbrTSyOHsj-SBrNhHNfClZMb53BTpPCfvledpMrAhyurWU3BjzDyXD

LOAD CASE(S) Standard

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

Vert: 1-2=-70, 2-5=-70, 5-7=-70, 10-12=-20, 8-10=-20 Concentrate Loads (Ib)

Vert: 13=-100(F) 14=-100(F) 15=-436(F) 16=-42 17=-42

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.





🔺 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.



May 22,2020





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	$0_{12} - 0_{12} - 0_{11} - 0_{11} - 0_{12}$	6-	0.0		8-0-0	<u> </u>		
Plate Offsets (X,Y)	[3:0-3-8,0-2-5], [4:0-4-0,0-2-3], [7:0-5-6,0)-1-8], [10:0-5-6,0-1-8]	0-0		1-11-0	0-2-0		
LOADING (psf) TCLL 25.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr NO Code IRC2018/TPI2014	CSI. TC 0.35 BC 0.31 WB 0.03 Matrix-S	DEFL. in Vert(LL) -0.03 Vert(CT) -0.06 Horz(CT) 0.00 Wind(LL) 0.03	(loc) l/defl 8-9 >999 8-9 >999 7 n/a 8-9 >999	L/d 360 240 n/a 240	PLATES MT20 Weight: 27 lb	GRIP 197/144 FT = 10%	
LUMBER- TOP CHORD 2x4 SP BOT CHORD 2x4 SP WEBS 2x3 SP 2-10,5-	F No.2 F No.2 F No.2 *Except* 7: 2x4 SPF No.2		BRACING- TOP CHORD BOT CHORD	Structural wood except end vert Rigid ceiling dire	I sheathing dire icals, and 2-0-0 ectly applied or	ectly applied or 6-0-0) oc purlins (6-0-0 ma · 10-0-0 oc bracing.	oc purlins, ax.): 3-4.	
REACTIONS. (size) 10=0-3-2, 7=0-3-8 Max Horz 10=-11(LC 39) Max Uplift 10=-130(LC 4), 7=-130(LC 5) Max Grav 10=424(LC 1), 7=424(LC 1)								
FORCES. (lb) - Max. Comp./Max. Ten All forces 250 (lb) or less except when shown. TOP CHORD 2-3=-454/119, 3-4=-387/111, 4-5=-454/120, 2-10=-344/120, 5-7=-344/121 BOT CHORD 9-10=-80/387, 8-9=-74/387, 7-8=-78/388							JAN P	
NOTES- 1) Unbalanced roof live 2) Wind: ASCE 7-16; V MWFRS (envelope) grip DOL=1.60 3) Provide adequate dr 4) This truss has been will fit between the b 6) Provide mechanical 10=130, 7=130. 7) This truss is designe	loads have been considered for this des 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 live n designed for a live load of 20.0psf on th ottom chord and any other members. connection (by others) of truss to bearing d in accordance with the 2018 Internatio	sign. bh; TCDL=6.0psf; BCDL=6.0p exposed ; end vertical left and bload nonconcurrent with any bload nonconcurrent with any	sf; h=25ft; Cat. II; Ex I right exposed; Lum other live loads. here a rectangle 3-6 g 100 lb uplift at joint s R502.11.1 and R80	xp C; Enclosed; ber DOL=1.60 p -0 tall by 2-0-0 w :(s) except (jt=lb) ;2.10.2 and	late vide	* PRO E-200	MBER 0162101	
8) Graphical purlin repr	ANSI/TPT1. esentation does not depict the size or th	e orientation of the purlin alon	g the top and/or bott	om chord.		JUN'S JUN	ENSE	

9) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 108 lb down and 99 lb up at 2-1-0, and 54 lb down and 32 lb up at 4-1-0, and 108 lb down and 99 lb up at 6-1-0 on top chord, and 12 lb down and 3 lb up at 2-1-0, and 8 lb down and 0 lb up at 4-1-0, and 12 lb down and 3 lb up at 6-0-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

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

LOAD CASE(S) Standard

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

Vert: 1-2=-70, 2-3=-70, 3-4=-70, 4-5=-70, 5-6=-70, 7-10=-20

Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 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 **ANSITPTI Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



16023 Swingley Ridge Rd Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Lot 23 RT	
					I41405	5853
400311	C1	Hip Girder	1	1	Job Reference (ontional)	
Wheeler Lumber, Wave	erly, KS 66871			8.240 s Ma	r 9 2020 MiTek Industries, Inc. Fri May 22 11:54:11 2020 Page 2	2

ID:M6_qRERj_ax8BApGKEbrTSyOHsj-tmWWJIQYUDxxSYnm9xzvHYwIt0TWNGOKYUiko2zDyXA

LOAD CASE(S) Standard

Concentrated Loads (lb) Vert: 9=2(F) 8=2(F) 12=0(F)

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		0_2-0	4-1-0				8-0-0		8 ₁ 2-0	
Plate Offsets (X	(.Y)	<u>0-2-0</u> [2:0-0-7.0-1-4], [4:0-0-7.0-1-4], [6:0-0	<u>3-11-0</u> -0.0-1-4]. [8:0-0-0.0-1-4]				3-11-0		0-2-0	
	.,.,									
LOADING (psf))	SPACING- 2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0)	Plate Grip DOL 1.15	TC 0.44	Vert(LL)	-0.02	7	>999	360	MT20	197/144
TCDL 10.0)	Lumber DOL 1.15	BC 0.21	Vert(CT)	-0.05	7	>999	240		
BCLL 0.0) *	Rep Stress Incr YES	WB 0.04	Horz(CT)	0.00	6	n/a	n/a		
BCDL 10.0)	Code IRC2018/TPI2014	Matrix-R	Wind(LL)	0.01	7	>999	240	Weight: 23 lb	FT = 10%
LUMBER- TOP CHORD BOT CHORD	2x4 SP 2x4 SP	F No.2 F No.2		BRACING- TOP CHOP	RD	Structu except	ıral wood end verti	sheathing dire	ectly applied or 6-0-0	oc purlins,
WEBS	2x3 SP	F No.2		BOT CHOP	RD	Rigid c	eiling dire	ectly applied o	r 10-0-0 oc bracing.	
REACTIONS.	(size Max He Max U Max G	e) 8=0-3-2, 6=0-3-8 orz 8=-13(LC 19) plift 8=-95(LC 4), 6=-95(LC 5) rav 8=427(LC 1), 6=427(LC 1)								
FORCES. (lb) TOP CHORD BOT CHORD	- Max. 2-3=- 7-8=-	Comp./Max. Ten All forces 250 (lb) 421/62, 3-4=-421/62, 2-8=-359/116, 4 14/347, 6-7=-14/347	or less except when shown. I-6=-359/116						NXATE OF	MISSOU
NOTES-	roof live	loads have been considered for this	design						GA GA	

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

referenced standard ANSI/TPI 1.



NUMBER

2000162101

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F

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 sand 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.





		0 _t 2-Q		4-1-0		1			7-9-8		8-2-0	
		0-2-0		3-11-0		I			3-8-8		0-4-8	
Plate Off	sets (X,Y)	[2:0-0-7,0-1-4], [4:0-0-7,0)-1-4], [6:0-0-0),0-1-4], [9:0-0-	0,0-1-4]							
LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.46	Vert(LL)	-0.03	8-9	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.44	Vert(CT)	-0.05	8-9	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	7	n/a	n/a		
BCDL	10.0	Code IRC2018/T	PI2014	Matrix-	R	Wind(LL)	0.02	8-9	>999	240	Weight: 23 lb	FT = 10%
LUMBER	≀ -					BRACING						

TOP CHORD

BOT CHORD

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

REACTIONS. (size) 9=0-3-2, 7=0-3-8 Max Horz 9=13(LC 20)

Max Uplift 9=-93(LC 4), 7=-109(LC 5) Max Grav 9=403(LC 1), 7=450(LC 1)

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

2-3=-353/48, 3-4=-355/56, 2-9=-331/114, 4-6=-339/113 TOP CHORD

BOT CHORD 8-9=-10/284, 7-8=-10/284, 6-7=-10/284

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

7=109. 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and

referenced standard ANSI/TPI 1.



11111 MIS

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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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	4-0-0	10-0-0		16-0-0	1	20-0-0					
	4-0-0	6-0-0		6-0-0	I	4-0-0					
Plate Offsets (X,Y)	[7:0-1-12,0-0-0], [7:Edge,0-5-8], [8:0-2-8	3,0-2-8], [10:0-2-8,0-2-8],	[11:0-1-12,0-0-0], [11:Ed	ge,0-5-8]							
LOADING (psf) TCLL 25.0 TCDL 10.0 BCLL 0.0 BCDL 10.0	SPACING-2-0-0Plate Grip DOL1.15Lumber DOL1.15Rep Stress IncrNOCodeIRC2018/TPI2014	CSI. TC 0.75 BC 0.87 WB 0.79 Matrix-S	DEFL. in Vert(LL) -0.22 Vert(CT) -0.39 Horz(CT) 0.05 Wind(LL) 0.19	(loc) l/defl 9 >999 9-10 >599 7 n/a 9 >999	L/d 360 240 n/a 240	PLATES MT20 Weight: 68 lb	GRIP 197/144 FT = 10%				
LUMBER- TOP CHORD 2x4 SI 2-4: 2) BOT CHORD 2x4 SI WEBS 2x3 SI 1-11,5	PF No.2 *Except* 44 SPF 2100F 1.8E PF No.2 PF No.2 *Except* -7: 2x4 SPF No.2		BRACING- TOP CHORD BOT CHORD	Structural wood a except end vertic Rigid ceiling dire	sheathing direct cals, and 2-0-0 ctly applied or	ctly applied or 3-3-1 oc purlins (3-1-14 n 8-0-2 oc bracing.	1 oc purlins, nax.): 2-4.				
REACTIONS. (siz Max H Max U Max C	e) 11=Mechanical, 7=0-3-8 lorz 11=-14(LC 4) Jplift 11=-294(LC 4), 7=-338(LC 5) Grav 11=1342(LC 1), 7=1417(LC 1)					IN E OF	MISS				
FORCES. (Ib) - Max. TOP CHORD 1-2=	Comp./Max. Ten All forces 250 (lb) or -2706/590, 2-3=-4042/904, 3-4=-4042/90	less except when shown.)4, 4-5=-2696/585, 1-11=-	1298/301,			- S. J	UAN				
BOT CHORD 10-1 WEBS 2-9=	5-7=-1374/346 30T CHORD 10-11=-66/273, 9-10=-533/2540, 8-9=-521/2524, 7-8=-78/316 WEBS 2-9=-362/1624, 3-9=-716/317, 4-9=-366/1634, 1-10=-470/2293, 5-8=-449/2235										
NOTES- 1) Unbalanced roof liv 2) Wind: ASCE 7-16; MWFRS (envelope) grip DOL=1.60 3) Provide adequate d 4) This truss has been 5) * This truss has been will fit between the I 6) Refer to girder(s) fo 7) Provide mechanical 11=294. 7=338.	 VEBS 2-9=-362/1624, 3-9=-716/317, 4-9=-366/1634, 1-10=-470/2293, 5-8=-449/2235 VEBS 2-9=-362/1624, 3-9=-716/317, 4-9=-366/1634, 1-10=-470/2293, 5-8=-449/2235 VIDBalanced roof live loads have been considered for this design. 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 Provide adequate drainage to prevent water ponding. 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 will fit between the bottom chord and any other members. 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) 										
 8) This truss is design referenced standard 	ed in accordance with the 2018 Internation	onal Residential Code sec	tions R502.11.1 and R8	02.10.2 and			\sim				
 Graphical purlin rep 10) Hanger(s) or other 4-0-0, 83 lb down up at 12-0-0, and lb up at 4-0-0, 33 and 222 lb down a of others. 	 () Graphical purine representation does not depict the size or the orientation of the purine along the top and/or bottom chord. (i) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 83 lb down and 68 lb up at 4-0-0, 83 lb down and 68 lb up at 5-0-0, 83 lb down and 68 lb up at 10-0-0, 83 lb down and 68 lb up at 12-0-0, and 83 lb down and 68 lb up at 14-0-0, and 83 lb down and 68 lb up at 14-0-0, 33 lb down and 68 lb up at 12-0-0, and 33 lb down and 68 lb up at 12-0-0, 33 lb down at 12-0-0, and 32 lb down and 72 lb up at 15-11-4 on bottom chord. The design/selection of such connection device(s) is the responsibility 										
11) In the LOAD CASI	E(S) section, loads applied to the face of	the truss are noted as fro	nt (F) or back (B).			N	lav 22.2020				
(LOAD GASE(S) beStan	dard					IV.	~, <i>LL</i> , <i>L</i> 020				

MiTek[®] 16023 Swingley Ridge Rd Chesterfield, MO 63017

8x8 =

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.

8x8 =

Job	Truss	Truss Type	Qty	Ply	Lot 23 RT
					141405856
400311	D1	Hip Girder	1	1	
					Job Reference (optional)
Wheeler Lumber, W	averly, KS 66871			8.240 s Ma	ar 9 2020 MiTek Industries, Inc. Fri May 22 11:54:15 2020 Page 2

ID:M6_qRERj_ax8BApGKEbrTSyOHsj-IXm09gT2YSRNwA5XOn1rRO4uhdhmJuVwS6gxxpzDyX6

LOAD CASE(S) Standard

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

Uniform Loads (plf) Vert: 1-2=-70, 2-4=-70, 4-5=-70, 5-6=-70, 7-11=-20

Concentrated Loads (lb)

Vert: 2=-50(F) 4=-50(F) 10=-222(F) 9=-23(F) 3=-50(F) 8=-222(F) 12=-50(F) 13=-50(F) 14=-50(F) 15=-50(F) 16=-23(F) 17=-23(F) 18=-23(F) 19=-23(F) 12=-50(F) 14=-50(F) 15=-50(F) 16=-23(F) 17=-23(F) 18=-23(F) 19=-23(F) 12=-50(F) 12=-50(F) 14=-50(F) 15=-50(F) 16=-23(F) 18=-23(F) 19=-23(F) 19=-23(F) 12=-50(F) 12=-50(F) 14=-50(F) 15=-50(F) 16=-23(F) 18=-23(F) 19=-23(F) 12=-50(F) 12=-50(F) 14=-50(F) 15=-50(F) 16=-23(F) 18=-23(F) 19=-23(F) 19=-23(F) 12=-50(F) 12=-50(F) 14=-50(F) 15=-50(F) 16=-23(F) 18=-23(F) 19=-23(F) 19=-23(F) 19=-23(F) 12=-50(F) 12=

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.





F		6-0-0		14-0-0					20-0-0	
Plate Offsets	; (X,Y)	[1:0-1-3,0-3-10], [1:0-2-2,0-0-6], [4:0-3	.13,0-0-0], [6:0-5-0,0-8-0], [6	<u>8-0-0</u> 6:0-3-7,0-1-2], [10:	:0-0-0,	0-3-10]			6-0-0	
LOADING (p TCLL 29 TCDL 10 BCLL 0 BCDL 10	osf) 5.0 0.0 0.0 * 0.0 *	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2018/TPI2014	CSI. TC 0.92 BC 0.83 WB 0.09 Matrix-S	DEFL. Vert(LL) Vert(CT) Horz(CT) Wind(LL)	in -0.32 -0.66 0.04 0.24	(loc) 7-9 7-9 6 7-9	l/defl >734 >355 n/a >988	L/d 360 240 n/a 240	PLATES MT20 Weight: 61 lb	GRIP 197/144 FT = 10%
LUMBER- TOP CHORD BOT CHORD WEBS	 2x4 SP 1-2: 2x4 2x4 SP 8-10: 2 2x3 SP 1-10,4- 	F 2100F 1.8E *Except* 4 SPF No.2 F No.2 *Except* x4 SPF 2100F 1.8E F No.2 *Except* 6: 2x8 SP DSS		BRACING- TOP CHORE BOT CHORE WEBS	כ כ	Structu except Rigid c 1 Row	ral wood end verti eiling dire at midpt	sheathing dii cals, and 2-0 ectly applied o 2	rectly applied or 3-3-3 -0 oc purlins (2-2-0 m or 10-0-0 oc bracing. 2-7	3 oc purlins, nax.): 2-3.
REACTIONS	REACTIONS. (size) 10=Mechanical, 6=0-3-8 Max Horz 10=-25(LC 9) Max Uplift 10=-150(LC 4), 6=-201(LC 5) Max Grav 10=870(LC 1), 6=958(LC 1)									
FORCES. (TOP CHORD BOT CHORD WEBS	(lb) - Max. D 1-2=- D 9-10= 3-7=0	Comp./Max. Ten All forces 250 (lb) c 1585/264, 2-3=-1454/285, 3-4=-1626/2 205/1434, 7-9=-209/1433, 6-7=-194/1 //263	r less except when shown. 69, 1-10=-716/162, 4-6=-85 458	57/221					6 * G	IUAN ARCIA
NOTES- 1) Unbalance 2) Wind: ASC MWFRS (c grip DOLe 3) Provide ac 4) This truss 5) * This truss will fit betw 6) Refer to gi 7) Provide m 10=150, 6 8) This truss proprocessor	OTES-) Unbalanced roof live loads have been considered for this design.) 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) Provide adequate drainage to prevent water ponding.) 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 will fit between the bottom chord and any other members.) 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) 10=150, 6=201.) 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.



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I	8-0-0		12-0-0 4-0-0				20-	-0-0 0-0	
Plate Offsets (X,Y)	[1:0-1-3,0-3-10], [1:0-2-2,0-0-6], [4:0-3-1	3,0-0-0], [6:0-5-2,0-7-2], [[6:0-3-7,0-1-2], [9:	0-0-0,0	-3-10]				
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 0.88 BC 0.90 WB 0.11 Matrix-S	DEFL. Vert(LL) Vert(CT) Horz(CT) Wind(LL)	in -0.22 -0.41 0.04 0.14	(loc) 7-8 7-8 6 7-8	l/defl >999 >572 n/a >999	L/d 360 240 n/a 240	PLATES MT20 Weight: 59 lb	GRIP 197/144 FT = 10%
LUMBER- TOP CHORD 2x4 SF 3-5: 2x	PF No.2 *Except* 44 SPF 2100F 1.8E		BRACING- TOP CHOR	D	Structu except	ral wood end vertio	sheathing di cals, and 2-(irectly applied or 2-2-0)-0 oc purlins (4-11-13	oc purlins, max.): 2-3.

BOT CHORD 2x4 SPF No.2 BOT CHORD WEBS 2x3 SPF No.2 *Except* 1-9,4-6: 2x8 SP DSS

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

REACTIONS. (size) 9=Mechanical, 6=0-3-8 Max Horz 9=-36(LC 9) Max Uplift 9=-140(LC 4), 6=-191(LC 5)

Max Grav 9=870(LC 1), 6=958(LC 1)

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

- TOP CHORD 1-2=-1457/227, 2-3=-1306/254, 3-4=-1486/229, 1-9=-741/182, 4-6=-861/240
- BOT CHORD 8-9=-160/1291, 7-8=-162/1290, 6-7=-138/1310

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) 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) except (jt=lb) 9=140, 6=191.
- 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.



11111

MiTek 16023 Swingley Ridge Rd Chesterfield, MO 63017

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	10-0-0				20-0-0						
		10-0-0						10-0-0		1	
Plate O	ffsets (X,Y)	[1:0-3-13,0-0-0], [1:0-1-12,0-4-13], [5:0-3	3-13,0-0-0], [7:0-5-2,0-7-2	2], [7:0-3-7,0-1-2], [9	:0-3-7	,0-1-2]					
LOADI TCLL TCDL BCLL BCDL	NG (psf) 25.0 10.0 0.0 * 10.0	SPACING-2-0-0Plate Grip DOL1.15Lumber DOL1.15Rep Stress IncrYESCode IRC2018/TPI2014	CSI. TC 0.92 BC 0.76 WB 0.26 Matrix-S	DEFL. Vert(LL) Vert(CT) Horz(CT) Wind(LL)	in 0.19 0.40 0.04 0.13	(loc) 7-8 7-8 7 7-8	l/defl >999 >577 n/a >999	L/d 360 240 n/a 240	PLATES MT20 Weight: 63 lb	GRIP 197/144 FT = 10%	
LUMBE TOP CI BOT CI WEBS	ER- HORD 2x4 SI HORD 2x4 SI 2x3 SI 1-9,5-7	PF 2100F 1.8E PF No.2 PF No.2 *Except* 7: 2x8 SP DSS	BRACING- TOP CHORD BOT CHORD		Structu except Rigid ce	ral wood end verti eiling dire	sheathing dir cals. ectly applied c	ectly applied or 2-2-0 or 10-0-0 oc bracing.	oc purlins,		
REACT	REACTIONS. (size) 9=Mechanical, 7=0-3-8 Max Horz 9=-49(LC 9) Max Uplift 9=-127(LC 4), 7=-178(LC 5) Max Grav 9=870(LC 1), 7=958(LC 1)										
FORCE TOP CI BOT CI	FORCES. (lb) - Max. Comp./Max. Ten All forces 250 (lb) or less except when shown. TOP CHORD 1-2=-1497/282, 2-3=-1262/156, 3-4=-1263/158, 4-5=-1485/274, 1-9=-758/172, 5-7=-851/224 BOT CHORD 8-9=-244/1326, 7-8=-205/1309										
WEBS	3-8=	0/390, 4-8=-260/205, 2-8=-278/207									
NOTES 1) Unba 2) Wind MWI grip	OTES- Unbalanced roof live loads have been considered for this design. 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) except (jt=lb) 9=127, 7=178.

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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Plate Offsets (X, Y)	[1:0-0-7,0-1-4], [4:0-0-0,0-1-4]							
LOADING (psf) TCLL 25.0 TCDL 10.0 BCLL 0.0 *	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES	CSI. TC 0.27 BC 0.16 WB 0.00	DEFL. in Vert(LL) -0.02 Vert(CT) -0.03 Horz(CT) -0.00	(loc) 1/0 3-4 >9 3-4 >9 3	defl L/d 999 360 999 240 n/a n/a	PLATES MT20	GRIP 197/144	
BCDL 10.0	Code IRC2018/TPI2014	Matrix-R	Wind(LL) 0.00	3-4 >9	999 240	Weight: 13 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

REACTIONS. (size) 3=Mechanical, 4=Mechanical

Max Horz 4=87(LC 5) Max Uplift 3=-45(LC 8), 4=-30(LC 4)

Max Grav 3=197(LC 1), 4=197(LC 1)

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

NOTES-

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

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

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

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



1117 11

0

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

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

except end verticals.

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Plate Offsets (X,Y)	Plate Offsets (X,Y) [1:0-0-7,0-1-4], [4:0-0-0,0-1-4]									
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 0.07 BC 0.04 WB 0.00 Matrix-R	DEFL. Vert(LL) -0 Vert(CT) -0 Horz(CT) -0 Wind(LL) 0	in (loc) .00 3-4 .00 3-4 .00 3 .00 4) I/defl 4 >999 4 >999 3 n/a 4 >999	L/d 360 240 n/a 240	PLATES MT20 Weight: 7 lb	GRIP 197/144 FT = 10%		
LUMBER-			BRACING-							

TOP CHORD

BOT CHORD

LUMBER-

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

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

Max Horz 4=57(LC 5) Max Uplift 3=-24(LC 8), 4=-16(LC 4) Max Grav 3=107(LC 1), 4=107(LC 1)

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

NOTES-

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

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

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

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

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



1111 11

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

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

except end verticals.







Scale = 1:74.6

16023 Swingley Ridge Rd Chesterfield, MO 63017



<u> </u>	5-10-8 13-2-4	20-7-12	26-2-0	30	-7-0	36-0-0	39-6-0	_			
Plate Offsets (X Y)	10-8 7-3-12 [2:0-0-15:0-2-12] [11:0-0-12:0-1-12] [1	7-5-8 3.Edge 0-3-8] [13:0-0-0 0-	5-6-4 -1-12] [23:0-0-0 0-2-12]	4-	-5-0	5-5-0	3-6-0				
			1 12], [20:0 0 0,0 2 12]								
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. ir	(loc) l	l/defl L/d		PLATES	GRIP			
TCLL 25.0	Plate Grip DOL 1.15	TC 0.70	Vert(LL) -0.13	15-16 >	>999 360		MT20	197/144			
ICDL 10.0	Lumber DOL 1.15	BC 0.61	Vert(CT) -0.24	15-16 >	>933 240		M18SHS	197/144			
BCDL 10.0	Code IRC2018/TPI2014	Matrix-S	Wind(LL) 0.08	21-22	>999 240		Weight: 316 lb	FT = 10%			
BCDL 10.0 LUMBER- TOP CHORD 2x4 SP 20-23: WEBS 2x4 SP 2-23: 2 REACTIONS. (size Max H Max U Max G FORCES. (lb) - Max. TOP CHORD 2-23=- 8-9=- BOT CHORD 2-23=- 15-16 WEBS 3-22= 17-15	LUMBER- TOP CHORD 2x4 SPF No.2 BRACING- 22/3: 2x6 SPF No.2, 10-14: 2x4 SPF 2100F 1.8E TOP CHORD 20/23: 2x6 SPF No.2, 10-14: 2x4 SPF 2100F 1.8E TOP CHORD 20/23: 2x6 SPF No.2, 10-14: 2x4 SPF 2100F 1.8E BOT CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 3-9. WEBS 2x4 SPF No.2, *Except* 2-23: 2x6 SP DSS BOT CHORD BOT CHORD Rigid ceiling directly applied or 5-11-12 oc bracing. REACTIONS. (size) 23=0-3-8, 13=0-3-8, 19=0-3-8 Max Horz 23=21(LC 28) Max Upit 23=-248(LC 4), 13=-119(LC 9), 19=-412(LC 4) Max Grav 23=1251(LC 21), 13=1011(LC 22), 19=-4446(LC 1) FORCES. (lb) - Max. Comp./Max. Ten All forces 250 (lb) or less except when shown. TOP CHORD 2-3=-2324/377, 3-4=-1394/259, 4-5=-1390/258, 5-7=-66/685, 7-8=-2234/110, 8-9=-2237/112, 9-10=-241/2/209, 10-11=-1283/133, 2-23=-1023/250, 11-13=-932/136 Juan BOT CHORD 2-23=-2324/377, 3-4=-1394/259, 4-5=-1390/258, 5-7=-66/685, 7-8=-2234/110, 8-9=-2237/112, 9-10=-241/2/209, 10-11=-1283/133, 2-23=-1023/250, 11-13=-932/136 Juan BOT CHORD 2-23=-232/4/377, 3-4=-1394/259, 4-5=-1391/520, 11-13=-932/136 Juan BOT CHORD 2-23=-232/4/377, 3-4=-1027/321, 5-21=-570/5493, 5-19=-3218/480, 17-19=-3905/337, 5-17=-240/3318, 7-16=-199/2936, 8-16=-535/142 Juan WEBS 3-22=0/452, 3-21=-796/139, 4-21=-1027/321, 5-21=-570/5493, 5-19=-3218/480, 17-19=-3905/337, 5-17=-240/3318, 7-16=-1599/2936, 8-16=-535/142 Juan										
 NOTES- 1) 2-ply truss to be con Top chords connect Bottom chords conn Webs 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) All plates are MT20 7) This truss has been will fit between the b 9) Provide mechanical 23=248, 13=119, 19 10) This truss is design referenced standar 11) Graphical purlin ref Continued on page 2 	nected together with 10d (0.131"x3") na ed as follows: 2x4 - 1 row at 0-9-0 oc, 2: ected as follows: 2x6 - 2 rows staggered follows: 2x4 - 1 row at 0-9-0 oc. ered equally applied to all plies, except i e been provided to distribute only loads e loads have been considered for this de fult=115mph (3-second gust) Vasd=91m gable end zone; cantilever left and right rainage to prevent water ponding. plates unless otherwise indicated. designed for a 10.0 psf bottom chord liv n designed for a live load of 20.0psf on ottom chord and any other members. connection (by others) of truss to bearir =412. ned in accordance with the 2018 Interna d ANSI/TPI 1. presentation does not depict the size or	ils as follows: 6 - 2 rows staggered at 0- 1 at 0-9-0 oc, 2x4 - 1 row a roted as front (F) or back noted as (F) or (B), unless sign. ph; TCDL=6.0psf; BCDL= exposed ; end vertical left e load nonconcurrent with he bottom chord in all area g plate capable of withstar tional Residential Code se the orientation of the purlir	9-0 oc. t 0-9-0 oc. (B) face in the LOAD C otherwise indicated. 6.0psf; h=25ft; Cat. II; E t and right exposed; Lun any other live loads. as where a rectangle 3- nding 100 lb uplift at joir ctions R502.11.1 and R n along the top and/or b	ASE(S) se xp C; Enclo aber DOL= 6-0 tall by 2 at(s) except 802.10.2 a pottom chore	osed; 1.60 plate 2-0-0 wide t (jt=lb) nd		PROFILESS/OM	GARCIA ENSESSIONAL ENGLINE			
WARNING - Verify Design valid for use o a truss system. Before building design. Braci	design parameters and READ NOTES ON THIS A nly with MiTek® connectors. This design is based use, the building designer must verify the applica ing indicated is to prevent buckling of individual tru tability and the provent outloans with rescribte are	ND INCLUDED MITEK REFEREN only upon parameters shown, and bility of design parameters and priss sweb and/or chord members on pail bility and property descers	ICE PAGE MII-7473 rev. 10/03 I is for an individual building co operly incorporate this design IV. Additional temporary and p	2015 BEFOR Imponent, not into the overa the overa	E USE. Il Icing						

a truss system. Before use, the building designer must verify the applicationity of design parameters and property incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **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.

Job	Truss	Truss Type	Qty	Ply	Lot 23 RT	
			-			l41405862
400311	E1	Hip Girder	1	2		
				-	JOD Reference (optional)	
Wheeler Lumber. Way	/erlv. KS 66871			8.240 s Ma	ar 9 2020 MiTek Industries, Inc. Fri May 22 11:54:25 2020	Page 2

8.240 s Mar 9 2020 MiTek Industries, Inc. Fri May 22 11:54:25 2020 Page 2 ID:M6_gRERi_ax8BApGKEbrTSyOHsj-SSMoF5bKBXiy7isSztDBrVVcvfA3fRmOmg5THEzDyWy

NOTES-

12) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 136 lb down and 59 lb up at 5-10-8, 113 lb down and 59 lb up at 7-11-4, 113 lb down and 59 lb up at 9-11-4, 113 lb down and 59 lb up at 15-11-4, 113 lb down and 59 lb up at 15-11-4, 113 lb down and 59 lb up at 15-11-4, 113 lb down and 59 lb up at 15-11-4, 113 lb down and 59 lb up at 15-11-4, 113 lb down and 59 lb up at 15-11-4, 113 lb down and 59 lb up at 15-11-4, 113 lb down and 59 lb up at 25-11-4, 108 lb down and 59 lb up at 27-11-4, 108 lb down and 59 lb up at 23-11-4, 113 lb down and 59 lb up at 25-11-4, 108 lb down and 39 lb up at 27-11-4, 108 lb down and 39 lb up at 23-11-4, and 108 lb down and 39 lb up at 33-11-4, and 108 lb down and 39 lb up at 35-0-0 on top chord, and 398 lb down and 99 lb up at 5-10-8, 69 lb down at 7-11-4, 69 lb down at 9-11-4, 69 lb down at 15-11-4, 69 lb down at 15-11-4, 69 lb down at 15-11-4, 69 lb down at 25-10-8, 69 lb down at 21-11-4, 69 lb down at 23-11-4, 69 lb down at 23-11-4, 69 lb down at 23-11-4, 69 lb down at 26-0-4, 71 lb down at 23-11-4, 71 lb down at 29-11-4, and 71 lb down at 33-11-4 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: 1-2=-70, 2-3=-70, 3-9=-70, 9-11=-70, 11-12=-70, 18-23=-20, 15-17=-20, 13-14=-20

Concentrated Loads (lb)

Vert: 3=-113(B) 6=-113(B) 9=-261(B) 20=-48(B) 18=-48(B) 7=-113(B) 22=-398(B) 24=-113(B) 25=-113(B) 26=-113(B) 27=-113(B) 28=-113(B) 29=-113(B) 30=-113(B) 31=-113(B) 31=-113(B) 32=-90(B) 33=-90(B) 35=-90(B) 36=-48(B) 37=-48(B) 38=-48(B) 39=-48(B) 40=-48(B) 41=-48(B) 42=-48(B) 43=-48(B) 44=-71(B) 45=-71(B) 46=-71(B) 47=-71(B) 45=-71(B) 46=-71(B) 47=-71(B) 47=-71(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 **ANSITPTI Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.











16023 Swingley Ridge Rd Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Lot 23 RT
					I41405864
400311	E3	Half Hip Girder	1	2	
				_	Job Reference (optional)
Wheeler Lumber, W	averly, KS 66871			8.240 s Ma	ar 9 2020 MiTek Industries, Inc. Fri May 22 11:54:28 2020 Page 2

.240 s Mar 9 2020 MiTek Industries, Inc. Fri May 22 11:54:28 2 ID:M6_qRERj_ax8BApGKEbrTSyOHsj-t12xu6dCUS4X_9a1e?muT77DFtDIsrpqSdK7tYzDyWv

LOAD CASE(S) Standard

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

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

Vert: 5=-184(F) 8=-1322(F) 9=-850(F) 10=-850(F) 11=-850(F)

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	2-11-6	1	8-8-0
	2-11-6		5-8-10
Plate Offsets (X,Y)	[2:0-0-10,0-1-8], [3:0-3-9,Edge]		
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 0.75	Vert(LL) -0.06 5-6 >999 360 MT20 197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.64	Vert(CT) -0.13 5-6 >737 240
BCLL 0.0 *	Rep Stress Incr NO	WB 0.51	Horz(CT) 0.01 5 n/a n/a
BCDL 10.0	Code IRC2018/TPI2014	Matrix-S	Wind(LL) 0.04 5-6 >999 240 Weight: 30 lb FT = 10%

 LUMBER BRACING

 TOP CHORD
 2x4 SPF No.2
 TOP CHORD
 Structural wood sheathing directly applied or 5-1-1 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 3-4.

 WEBS
 2x3 SPF No.2 *Except* 2-7: 2x8 SP DSS
 BOT CHORD
 Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 5=Mechanical, 7=0-3-8 Max Horz 7=81(LC 7) Max Uplift 5=-123(LC 5), 7=-149(LC 4) Max Grav 5=533(LC 1), 7=658(LC 1)

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

- TOP CHORD 2-3=-784/156, 4-5=-260/114, 2-7=-537/119
- BOT CHORD 6-7=-176/663, 5-6=-180/653
- WEBS 3-6=0/281, 3-5=-579/149

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) 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) except (jt=lb) 5=123, 7=149.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 77 lb down and 67 lb up at
- 2-11-6, and 82 lb down and 67 lb up at 5-0-5, and 82 lb down and 67 lb up at 7-0-5 on top chord, and 175 lb down and 64 lb up at 2-11-6, and 32 lb down at 5-0-5, and 32 lb down at 7-0-5 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 11) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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

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 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 sand truss systems, see **ANSVTPTI Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.





Job	Truss	Truss Type	Qty	Ply	Lot 23 RT
					I41405865
400311	G1	Half Hip Girder	1	1	lab Reference (antional)
					Job Reference (optional)
Wheeler Lumber,	Waverly, KS 66871			8.240 s Ma	ar 9 2020 MiTek Industries, Inc. Fri May 22 11:54:29 2020 Page 2

ID:M6_qRERj_ax8BApGKEbrTSyOHsj-LEcJ5SeqFICOcJ9ECjH7?LfH9GXZbHFzhH3gQ?zDyWu

LOAD CASE(S) Standard

Uniform Loads (plf)

Vert: 1-2=-70, 2-3=-70, 3-4=-70, 5-7=-20 Concentrated Loads (lb) Vert: 3=-48(F) 6=-175(F) 8=-48(F) 9=-48(F) 10=-23(F) 11=-23(F)

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 safe 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.













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MiTek 16023 Swingley Ridge Rd Chesterfield, MO 63017



May 22,2020







Job	Truss	Truss Type	Qty	Ply	Lot 23 RT	
					14	1405870
400311	H1	GABLE	1	2		
				_	Job Reference (optional)	
Wheeler Lumber, Wave	erly, KS 66871			8.240 s Ma	r 9 2020 MiTek Industries, Inc. Fri May 22 11:54:35 2020 Pa	age 2

ID:M6_qRERj_ax8BApGKEbrTSyOHsj-ANzaMWibrbyXKEdNZzOXFcvL3hb3?yvs3DW?dezDyWo

NOTES-

14) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 471 lb down and 50 lb up at 0-6-4, 460 lb down and 63 lb up at 2-6-4, 460 lb down and 63 lb up at 4-6-4, 460 lb down and 63 lb up at 4-6-4, 460 lb down and 63 lb up at 10-6-4, 460 lb down and 63 lb up at 12-6-4, 460 lb down and 63 lb up at 12-6-4, 460 lb down and 63 lb up at 12-6-4, 460 lb down and 63 lb up at 12-6-4, 460 lb down and 63 lb up at 12-6-4, 460 lb down and 63 lb up at 12-6-4, 460 lb down and 63 lb up at 12-6-4, 460 lb down and 63 lb up at 12-6-4, 460 lb down and 63 lb up at 12-6-4, 460 lb down and 63 lb up at 12-6-4, and 460 lb down and 63 lb up at 12-6-4, and 461 lb down and 63 lb up at 18-6-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

15) Studding applied to ply: 1(Front)

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-3=-70, 3-4=-70, 5-9=-20

Concentrated Loads (lb)

Vert: 9=-471(B) 30=-460(B) 31=-460(B) 32=-460(B) 33=-460(B) 34=-460(B) 35=-460(B) 36=-460(B) 37=-460(B) 38=-461(B) 36=-460(B) 36=-46

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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16023 Swingley Ridge Rd Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Lot 23 RT
400311	L12	Roof Special Cirder	1	1	141405871
400311	112		1	· ·	Job Reference (optional)
Wheeler Lumber, Wa	verly, KS 66871			8.240 s Ma	ar 9 2020 MiTek Industries, Inc. Fri May 22 11:54:37 2020 Page 2
		ID:M6 gRERi	ax8BApGł	(EbrTSyOl	Hsj-6m5LmBksNDDFZYnmgOR?K1?fmVGgTxM9WX?6iXzDyWm

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, 6-7=-70, 7-8=-70, 8-9=-70, 9-10=-70, 10-11=-70, 16-19=-20, 12-15=-20 Concentrated Loads (lb)

Vert: 13=1(B)





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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) 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, with BCDL = 10.0psf.

5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 17 except (jt=lb) 11=126, 13=362.

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.







5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 17 except (jt=lb) 11=157, 13=297.

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.



Mitek[®] 16023 Swingley Ridge Rd Chesterfield, MO 63017



JOIN ONALES mini May 22,2020





Plate Offsets (X,Y)-- [2:0-0-8.0-1-4]. [13:0-0-0.0-1-4]

LOADING (psf) TCLL 25.0 TCDL 10.0 BCLL 0.0 PCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code, IPC2018/TPI2014	CSI. TC 0.13 BC 0.05 WB 0.03 Matrix-P	DEFL. Vert(LL) 0. Vert(CT) -0. Horz(CT) -0.	in (loc) 00 2 00 1 00 8	l/defl n/r n/r n/a	L/d 120 120 n/a	PLATES MT20	GRIP 197/144
			DRACING					
TOP CHORD 2x4 SI	PF No.2		TOP CHORD	Struct	ural wood	sheathing di	rectly applied or 6-0-0 c	oc purlins,

BOT CHORD

except end verticals.

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

TOP CHORD2x4 SPF No.2BOT CHORD2x4 SPF No.2WEBS2x3 SPF No.2OTHERS2x4 SPF No.2

REACTIONS. All bearings 8-8-0.

(lb) - Max Horz 13=184(LC 5)

Max Uplift All uplift 100 lb or less at joint(s) 8, 12, 11, 10, 9 Max Grav All reactions 250 lb or less at joint(s) 13, 8, 12, 11, 10, 9

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

NOTES-

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 3) All plates are 2x4 MT20 unless otherwise indicated.

4) Gable requires continuous bottom chord bearing.

- 5) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 6) Gable studs spaced at 2-0-0 oc.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 8, 12, 11, 10, 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.







				6-9	-6				I	
ate Offsets (X,Y)	[2:0-0-6,0-1-8], [4:Edge,0-2-	·8]								
ADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (l	loc) l/def	I L/d	PLATES	GRIP	
· · · ·					· · ·	,				

Code IRC2018/	TPI2014	Matrix-R	Wind(LL)	0.00	4 4-5	>999	240	Weight: 20 lb	FT = 10%	
Lumber DOL Bon Stross Incr	1.15	BC 0.39		-0.15	4-5	>529	240 n/a			
Plate Grip DOL	1.15	10 0.64	Vert(LL)	-0.07	4-5	>999	360	INI I ZU	197/144	
SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP	
	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr Code IRC2018/	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr NO Code IRC2018/TPI2014	SPACING- 2-0-0 CSI. Plate Grip DOL 1.15 TC 0.64 Lumber DOL 1.15 BC 0.39 Rep Stress Incr NO WB 0.00 Code IRC2018/TPI2014 Matrix-R	SPACING- 2-0-0 CSI. DEFL. Plate Grip DOL 1.15 TC 0.64 Vert(LL) Lumber DOL 1.15 BC 0.39 Vert(CT) Rep Stress Incr NO WB 0.00 Horz(CT) Code IRC2018/TPI2014 Matrix-R Wind(LL)	SPACING- 2-0-0 CSI. DEFL. in Plate Grip DOL 1.15 TC 0.64 Vert(LL) -0.07 Lumber DOL 1.15 BC 0.39 Vert(CT) -0.15 Rep Stress Incr NO WB 0.00 Horz(CT) 0.00 Code IRC2018/TPI2014 Matrix-R Wind(LL) 0.03	SPACING- 2-0-0 CSI. DEFL. in (loc) Plate Grip DOL 1.15 TC 0.64 Vert(LL) -0.07 4-5 Lumber DOL 1.15 BC 0.39 Vert(CT) -0.15 4-5 Rep Stress Incr NO WB 0.00 Horz(CT) 0.00 4 Code IRC2018/TPI2014 Matrix-R Wind(LL) 0.03 4-5	SPACING- 2-0-0 CSI. DEFL. in (loc) //defl Plate Grip DOL 1.15 TC 0.64 Vert(LL) -0.07 4-5 >999 Lumber DOL 1.15 BC 0.39 Vert(CT) -0.15 4-5 >529 Rep Stress Incr NO WB 0.00 Horz(CT) 0.00 4 n/a Code IRC2018/TPI2014 Matrix-R Wind(LL) 0.03 4-5 >999	SPACING- 2-0-0 CSI. DEFL. in (loc) //defl L/d Plate Grip DOL 1.15 TC 0.64 Vert(LL) -0.07 4-5 >999 360 Lumber DOL 1.15 BC 0.39 Vert(CT) -0.15 4-5 >529 240 Rep Stress Incr NO WB 0.00 Horz(CT) 0.00 4 n/a n/a Code IRC2018/TPI2014 Matrix-R Wind(LL) 0.03 4-5 >999 240	SPACING- 2-0-0 CSI. DEFL. in (loc) l/defl L/d PLATES Plate Grip DOL 1.15 TC 0.64 Vert(LL) -0.07 4-5 >999 360 MT20 Lumber DOL 1.15 BC 0.39 Vert(CT) -0.15 4-5 >529 240 Rep Stress Incr NO WB 0.00 Horz(CT) 0.00 4 n/a n/a Code IRC2018/TPI2014 Matrix-R Wind(LL) 0.03 4-5 >999 240 Weight: 20 lb	SPACING- 2-0-0 CSI. DEFL. in (loc) //defl L/d PLATES GRIP Plate Grip DOL 1.15 TC 0.64 Vert(LL) -0.07 4-5 >999 360 MT20 197/144 Lumber DOL 1.15 BC 0.39 Vert(CT) -0.15 4-5 >529 240 Rep Stress Incr NO WB 0.00 Horz(CT) 0.00 4 n/a n/a Code IRC2018/TPI2014 Matrix-R Wind(LL) 0.03 4-5 >999 240 Weight: 20 lb FT = 10%

 TOP CHORD
 2x4 SPF No.2

 BOT CHORD
 2x4 SPF No.2

 WEBS
 2x4 SPF No.2 *Except*

 3-4: 2x3 SPF No.2

BRACING-TOP CHORD Structural except er BOT CHORD Rigid ceili

except end verticals. Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 5=0-4-11, 4=Mechanical Max Horz 5=107(LC 5) Max Uplift 5=-128(LC 4), 4=-68(LC 8)

Max Grav 5=415(LC 1), 4=285(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-5=-364/171

NOTES-

Pla

- 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=128.
- 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) 61 lb down and 21 lb up at 2-3-15, and 87 lb down and 55 lb up at 3-8-2, and 78 lb down and 55 lb up at 4-10-10 on top chord, and 4 lb down and 7 lb up at 2-3-15, and 11 lb down at 3-8-2, and 15 lb down at 4-10-10 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: 9=3(F) 10=-3(B) 11=-4(F)



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	L		4-4-0				
			4-4-0				
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 0.25 BC 0.15 WB 0.00 Matrix-R	DEFL. Vert(LL) -0.0 Vert(CT) -0.0 Horz(CT) 0.0 Wind(LL) 0.0	in (loc) 01 4-5 03 4-5 02 3 02 4-5	l/defl L/d >999 360 >999 240 n/a n/a >999 240	PLATES MT20 Weight: 12 lb	GRIP 197/144 FT = 10%

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

WEBS 2x4 SPF No.2

REACTIONS. 5=0-3-8, 3=Mechanical, 4=Mechanical (size) Max Horz 5=76(LC 8) Max Uplift 5=-34(LC 8), 3=-68(LC 8)

Max Grav 5=266(LC 1), 3=128(LC 1), 4=78(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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MiTek 16023 Swingley Ridge Rd Chesterfield, MO 63017

BRACING-TOP CHORD BOT CHORD

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



				3-0-1	
LOADING TCLL	(psf) 25.0	SPACING- 2-0-0 Plate Grip DOL 1.15	CSI. TC 0.10	DEFL. in (loc) I/defl L/d PLATES GRIP Vert(LL) -0.00 4-5 >999 360 MT20 197/144	
TCDL BCLL BCDL	10.0 0.0 * 10.0	Lumber DOL 1.15 Rep Stress Incr YES Code IRC2018/TPI2014	BC 0.06 WB 0.00 Matrix-R	Vert(CT) -0.01 4-5 >999 240 Horz(CT) -0.01 3 n/a n/a Wind(LL) 0.00 4-5 >999 240 Weight: 9 lb FT = 10%	

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

2x4 SPF No.2

REACTIONS. 5=0-3-8, 3=Mechanical, 4=Mechanical (size) Max Horz 5=55(LC 5) Max Uplift 5=-29(LC 8), 3=-47(LC 8)

Max Grav 5=210(LC 1), 3=83(LC 1), 4=52(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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Structural wood sheathing directly applied or 3-0-1 oc purlins,

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

except end verticals.





LOADING TCLL TCDL	G (psf) 25.0 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15	CSI. TC 0.07 BC 0.01	DEFL. Vert(LL) Vert(CT)	in -0.00 -0.00	(loc) 5 5	l/defl >999 >999	L/d 360 240	PLATES MT20	GRIP 197/144
BCLL BCDL	0.0 * 10.0	Rep Stress Incr YES Code IRC2018/TPI2014	WB 0.00 Matrix-R	Horz(CT) Wind(LL)	-0.00 0.00	3 5	n/a >999	n/a 240	Weight: 5 lb	FT = 10%

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

BRACING-TOP CHORD

BOT CHORD

Structural wood sheathing directly applied or 1-4-13 oc purlins, except end verticals. Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 5=0-3-8, 3=Mechanical, 4=Mechanical Max Horz 5=38(LC 5) Max Uplift 5=-33(LC 4), 3=-20(LC 8), 4=-1(LC 5) Max Grav 5=157(LC 1), 3=21(LC 1), 4=22(LC 3)

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

NOTES-

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 3, 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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			1-0-4								
LOADING	G (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d PLATES GRIP							
TCLL	25.0	Plate Grip DOL 1.15	TC 0.06	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

REACTIONS. 5=0-3-8, 3=Mechanical, 4=Mechanical (size) Max Horz 5=36(LC 5) Max Uplift 5=-32(LC 4), 3=-18(LC 8), 4=-2(LC 5) Max Grav 5=150(LC 1), 3=15(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, 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.
- TIS * PROXIM JUAN GARCIA NUMBER F -2000162101 PROFILES TH JOIN May 22,2020

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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.

BRACING-TOP CHORD BOT CHORD

Structural wood sheathing directly applied or 1-3-4 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 *Except*

 5-6: 2x6 SPF No.2

 WEBS
 2x3 SPF No.2

 BRACING

 TOP CHORD
 Structural wood sheathing directly applied or 4-9-11 oc purlins, except end verticals.

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

REACTIONS. (size) 8=0-3-12, 5=Mechanical Max Horz 8=93(LC 22) Max Uplift 8=-145(LC 4), 5=-125(LC 8) Max Grav 8=517(LC 1), 5=468(LC 1)

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

TOP CHORD 2-8=-466/178, 2-3=-1358/337, 3-4=-250/26, 4-5=-464/129

BOT CHORD 6-7=-397/1339

WEBS 2-7=-292/1284, 3-6=-1092/354, 4-6=-56/384

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) Bearing at joint(s) 8 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 8=145, 5=125.
- 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) 60 lb down and 19 lb up at 2-1-6, 75 lb down and 34 lb up at 2-3-5, 77 lb down and 56 lb up at 4-8-1, and 108 lb down and 76 lb up at 5-5-12, and 100 lb down and 86 lb up at 7-4-12 on top chord, and 5 lb down and 9 lb up at 2-1-6, 3 lb down and 0 lb up at 2-3-5, 14 lb down at 4-8-1, and 26 lb down at 5-5-12, and 37 lb down at 7-4-12 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

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 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.



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Job		Truss	Truss Type	Qty	Ply	Lot 23 RT
						141405884
4003	511	J6	Diagonal Hip Girder	1	1	
						Job Reference (optional)
Wh	eeler Lumber, Wa	verly, KS 66871			8.240 s Ma	ar 9 2020 MiTek Industries, Inc. Fri May 22 11:55:26 2020 Page 2

ID:M6_qRERj_ax8BApGKEbrTSyOHsj-ABYs3yKbqGOIx40B2BpUpMW5_F?uS5SMnfNCxBzDyW?

LOAD CASE(S) Standard

Uniform Loads (plf)

Vert: 1-2=-70, 2-4=-70, 6-8=-20, 5-6=-20

Concentrated Loads (lb) Vert: 11=-25(B) 12=-58(F) 13=2(F=2, B=0) 14=-2(F) 15=-17(B) 16=-27(F)





LOADING TCLL TCDL BCLL	(psf) 25.0 10.0 0.0 *	SPACING- 2 Plate Grip DOL Lumber DOL Rep Stress Incr	2-0-0 1.15 1.15 YES	CSI. TC BC WB	0.09 0.06 0.00	DEFL. Vert(LL) Vert(CT) Horz(CT)	in -0.00 -0.01 -0.01	(loc) 4-5 4-5 3	l/defl >999 >999 n/a	L/d 360 240 n/a	PLATES MT20	GRIP 197/144	
BCDL	10.0	Code IRC2018/TPI20	014	Matrix	k-R	Wind(LL)	0.00	4-5	>999	240	Weight: 9 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 2-10-7 oc purlins, except end verticals. Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) 5=0-3-8, 3=Mechanical, 4=Mechanical Max Horz 5=55(LC 5) Max Uplift 5=-26(LC 8), 3=-48(LC 8) Max Grav 5=203(LC 1), 3=81(LC 1), 4=51(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) Bearing at joint(s) 5 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify
- capacity of bearing surface. 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 3.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



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LOADING	G (psf) 25.0	SPACING- 2-0-0 Plate Grip DOL 1.15	CSI. TC 0.06	DEFL. Vert(LL)	in -0.00	(loc) 5	l/defl >999	L/d 360	PLATES MT20	GRIP 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%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

2x3 SPF No.2

REACTIONS. 5=0-3-8, 3=Mechanical, 4=Mechanical (size) Max Horz 5=37(LC 5) Max Uplift 5=-30(LC 4), 3=-19(LC 8), 4=-3(LC 5) Max Grav 5=150(LC 1), 3=15(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) Bearing at joint(s) 5 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 3, 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.



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Structural wood sheathing directly applied or 1-3-4 oc purlins,

Rigid ceiling directly applied or 6-0-0 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 0.30	Vert(LL)	-0.02	4-5	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL 1.15	BC 0.18	Vert(CT)	-0.04	4-5	>999	240		
BCLL	0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT)	0.02	3	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014	Matrix-R	Wind(LL)	0.02	4-5	>999	240	Weight: 13 lb	FT = 10%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

REACTIONS. 5=0-3-8, 3=Mechanical, 4=Mechanical (size) Max Horz 5=79(LC 8) Max Uplift 5=-33(LC 8), 3=-76(LC 8) Max Grav 5=274(LC 1), 3=140(LC 1), 4=84(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) Bearing at joint(s) 5 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify
- capacity of bearing surface.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 3.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



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Structural wood sheathing directly applied or 4-6-13 oc purlins,

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

except end verticals.





Plate Offsets (X V) [2:0-0-7 0-1-4] [5:0-2-8 Edge] [5:0-0-7 0-1-4]

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

Structural wood sheathing directly applied or 1-11-11 oc purlins, except end verticals. Rigid ceiling directly applied or 6-0-0 oc bracing.

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

Max Horz 5=38(LC 5) Max Uplift 5=-53(LC 4), 3=-29(LC 8)

Max Grav 5=170(LC 1), 3=48(LC 1), 4=35(LC 3)

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

NOTES-

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



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Plate Offsets (X.Y)-- [2:0-0-7,0-1-4], [5:0-2-8,Edge], [5:0-0-7,0-1-4]

LOADING TCLL TCDL BCU	i (psf) 25.0 10.0	SPACING- Plate Grip DOL Lumber DOL Rep Stress Ippr	2-0-0 1.15 1.15 VES	CSI. TC BC WB	0.29 0.17 0.00	DEFL. Vert(LL) Vert(CT) Horz(CT)	in -0.02 -0.04	(loc) 4-5 4-5	l/defl >999 >999	L/d 360 240	PLATES MT20	GRIP 197/144	
BCDL	10.0	Code IRC2018/TF	PI2014	Matrix	0.00 ∢-R	Wind(LL)	0.02	4-5	>999	240	Weight: 12 lb	FT = 10%	
LUMBER	-					BRACING-							

BOT CHORD

LUMBER-

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

TOP CHORD

Structural wood sheathing directly applied or 4-5-11 oc purlins, except end verticals. Rigid ceiling directly applied or 6-0-0 oc bracing.

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

Max Horz 5=66(LC 4) Max Uplift 5=-63(LC 4), 3=-67(LC 8)

Max Grav 5=270(LC 1), 3=137(LC 1), 4=82(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) Bearing at joint(s) 5 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 3. 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and
- referenced standard ANSI/TPI 1.



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Plate Offsets (X,Y)	[2:0-0-7,0-1-4], [5:0-0-0,0-1-4]								
LOADING (psf) TCLL 25.0 TCDL 10.0 BCLL 0.0 * BCDL	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES	CSI. TC 0.47 BC 0.28 WB 0.00 Matrix-P	DEFL. in Vert(LL) -0.05 Vert(CT) -0.10 Horz(CT) 0.00 Wind(LL) 0.02	(loc) 4-5 4-5 4	I/defl >999 >716 n/a >999	L/d 360 240 n/a 240	PLATES MT20	GRIP 197/144	
LUMBER-		Mainx-R	BRACING-	4-5	>999	240		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. (size) 5=0-3-8, 4=Mechanical

Max Horz 5=115(LC 5) Max Uplift 5=-84(LC 4), 4=-57(LC 8)

Max Grav 5=335(LC 1), 4=255(LC 1)

FORCES. (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) or less except when shown. TOP CHORD 2-5=-290/127

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.



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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.





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) 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) 6, 5.

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

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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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	0.37	Vert(LL)	-0.02	4-5	>999	360	MT20	197/144
FCDL	10.0	Lumber DOL	1.15	BC	0.22	Vert(CT)	-0.05	4-5	>999	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.00	Horz(CT)	0.02	3	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2	014	Matrix	(-R	Wind(LL)	0.02	4-5	>999	240	Weight: 13 lb	FT = 10%

 TOP CHORD
 2x4 SPF No.2

 BOT CHORD
 2x4 SPF No.2

 WEBS
 2x4 SPF No.2

BRACING-TOP CHORD Struc excep BOT CHORD Rigid

Structural wood sheathing directly applied or 4-11-5 oc purlins, except end verticals. Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 5=0-4-9, 3=Mechanical, 4=Mechanical

Max Horz 5=54(LC 4) Max Uplift 5=-95(LC 4), 3=-63(LC 8)

Max Grav 5=322(LC 1), 3=145(LC 1), 4=88(LC 3)

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

TOP CHORD 2-5=-284/134

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.

7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 66 lb down and 22 lb up at 2-2-7, and 66 lb down and 22 lb up at 2-2-7 on top chord, and 3 lb down and 1 lb up at 2-2-7, and 3 lb down and 1 lb up at 2-2-7 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

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

LOAD CASE(S) Standard

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

Concentrated Loads (lb) Vert: 7=3(F=1, B=1)



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except end verticals.

Structural wood sheathing directly applied or 1-5-15 oc purlins,

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

Plate Off	sets (X,Y)	[2:0-0-7,0-1-4], [5:0-0-0,0-1-	-4]			1					1	
LOADIN	G (psf)	SPACING- 2	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	тс	0.06	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/TPI2	014	Matrix	(-R	Wind(LL)	0.00	5	>999	240	Weight: 5 lb	FT = 10%
LUMBER	8-					BRACING-						

TOP CHORD

BOT CHORD

LUMBER-

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

2x3 SPF No.2

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

Max Horz 5=32(LC 5) Max Uplift 5=-54(LC 4), 3=-20(LC 8)

Max Grav 5=155(LC 1), 3=27(LC 1), 4=26(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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Scale = 1:9.5





Plate Offs	sets (X,Y)	[2:0-0-7,0-1-4], [5:0-0-0,0)-1-4]			I					1	
LOADING	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.17	Vert(LL)	-0.01	4-5	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.10	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/TF	PI2014	Matrix	(-R	Wind(LL)	0.01	4-5	>999	240	Weight: 10 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 3-7-0 oc purlins, except end verticals. BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

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

Max Horz 5=55(LC 4) Max Uplift 5=-59(LC 4), 3=-53(LC 8)

Max Grav 5=232(LC 1), 3=106(LC 1), 4=65(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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Plate Off	sets (X,Y)	[2:0-0-7,0-1-4], [5:0-0-0,0)-1-4]			1						
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	0.08	Vert(LL)	-0.00	4-5	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.06	Vert(CT)	-0.01	4-5	>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/T	PI2014	Matri	x-R	Wind(LL)	0.00	5	>999	240	Weight: 9 lb	FT = 10%
LUMBER	≀-					BRACING-						

TOP CHORD

BOT CHORD

LUMBER-

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

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

Max Horz 5=70(LC 5) Max Uplift 5=-65(LC 4), 4=-26(LC 8)

Max Grav 5=206(LC 1), 4=114(LC 1)

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

NOTES-

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

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

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

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

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



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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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Wind(LL)

BRACING-

TOP CHORD

BOT CHORD

0.00

>999

except end verticals.

4

240

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

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

NOTES-

BCDL

WEBS

LUMBER-

BOT CHORD

REACTIONS.

10.0

TOP CHORD 2x4 SPF No.2

2x4 SPF No.2

2x3 SPF No.2

Max Horz 4=63(LC 5)

 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-R

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

Code IRC2018/TPI2014

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

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

Max Uplift 4=-19(LC 4), 3=-29(LC 8) Max Grav 4=126(LC 1), 3=126(LC 1)

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, 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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FT = 10%

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Weight: 8 lb





Plate Offsets (X Y)	[2:0-0-8 0-1-4] [6:0-0-8 0-1	-41			5-1-2				0-4-0		
LOADING (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC	0.46	Vert(LL)	-0.04	5-6	>999	360	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC	0.27	Vert(CT)	-0.09	5-6	>702	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.04	3	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2	2014	Matrix	-R	Wind(LL)	0.04	5-6	>999	240	Weight: 15 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 5-5-8 oc purlins, except end verticals. Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) 6=0-3-8, 3=Mechanical, 4=Mechanical

Max Horz 6=94(LC 8) Max Uplift 6=-37(LC 8), 3=-90(LC 8)

Max Grav 6=313(LC 1), 3=170(LC 1), 4=101(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-6=-269/85

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.

- Bearing at joint(s) 6 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6, 3.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



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Plate Offsets (X,Y	[2:0-0-5,0-1-4], [5:0-0-0,0-1-4]	0-2-1	2-9-14 2-7-12	
LOADING(psf)TCLL25.0TCDL10.0BCLL0.0BCDL10.0	SPACING-2-0-0Plate Grip DOL1.15Lumber DOL1.15Rep Stress IncrNOCode IRC2018/TPI2014	CSI. TC 0.10 BC 0.04 WB 0.00 Matrix-R	DEFL. in (loc) l/defl L/d Vert(LL) -0.00 4-5 >999 360 Vert(CT) -0.00 4-5 >999 240 Horz(CT) -0.00 3 n/a n/a Wind(LL) 0.00 4-5 >999 240	PLATES GRIP MT20 197/144 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

Structural wood sheathing directly applied or 2-9-14 oc purlins, except end verticals. BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 5=0-4-15, 3=Mechanical, 4=Mechanical

Max Horz 5=41(LC 7) Max Uplift 5=-99(LC 6), 3=-45(LC 12), 4=-2(LC 19) Max Grav 5=96(LC 1), 3=29(LC 1), 4=36(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) 20 lb down and 7 lb up at -1-2-14, and 20 lb down and 7 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=-32(F=-16, B=-16)
- Trapezoidal Loads (plf)
 - Vert: 1=0(F=35, B=35)-to-2=-23(F=23, B=23), 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=20)-to-4=-14(F=3, B=20)-to-3=-49(F=10, B=10), 5=-0(F=10, B=10)-to-4=-14(F=3, B=20)-to-3=-49(F=10, B=10)-to-3=-49(F=10, B=10)-to-3=-49(F=10, B=10)-to-3=-49(F=10, B=10)-to-3=-14(F=3, B=10)-to-3=-14(F=3, B=10)-to-3=-14(F=10, B=10)-to-3=-14(F=10, B=10)-to-3=-14(F=10, B=10)-to-3=-14(F=10, B=10)-to-3=-14(F=10, B=10)-to-3=-14(F=3, B=10)-to-3=-14(F=10, B=10)-to-3=-14(F=10, B=10)-to-3=-14(F=3, B=10)-to-3=-14(F=10, B=10 B=3)



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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 design parameters and READ NOTES ON TIPS ON TIPS AND INCLODED MITCR REPERVICE PAGE MIT-14/3 refer to 1000 SEC. Design valid for use only with MITER deconnectors. 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 quidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSITP11 Quality Criteria, DSB-89 and BCSI Building Component** fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Qua Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



Plate Offs	sets (X,Y)	[2:0-0-7,0-1-4], [5:0-0-0,0	-1-4]									
LOADING	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.06	Vert(LL)	-0.00	5	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.03	Vert(CT)	-0.00	4-5	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.00	3	n/a	n/a		
BCDL	10.0	Code IRC2018/TF	12014	Matri	k-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

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

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

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

Max Horz 5=37(LC 5) Max Uplift 5=-54(LC 4), 3=-29(LC 8)

Max Grav 5=172(LC 1), 3=51(LC 1), 4=36(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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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, 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.







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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Plate Off	sets (X,Y)	[2:0-0-7,0-1-4], [5:0-0-0,0-1-4]							
LOADIN	G (psf)	SPACING- 2-0-0	CSI.	DEFL.	n (loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL 1.15	TC 0.22	Vert(LL) -0.0	1 4-5	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL 1.15	BC 0.13	Vert(CT) -0.0	2 4-5	>999	240		
BCLL	0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT) 0.0	1 3	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014	Matrix-R	Wind(LL) 0.0	1 4-5	>999	240	Weight: 11 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 4-0-0 oc purlins, except end verticals. Rigid ceiling directly applied or 10-0-0 oc bracing.

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

Max Horz 5=60(LC 4) Max Uplift 5=-61(LC 4), 3=-59(LC 8)

Max Grav 5=250(LC 1), 3=120(LC 1), 4=73(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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Plate Offsets (X,Y)	[2:0-0-7,0-1-4], [5:0-0-0,0-1-4]		
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 0.06	Vert(LL) -0.00 5 >999 360 MT20 197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.03	Vert(CT) -0.00 4-5 >999 240
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT) -0.00 3 n/a n/a
BCDL 10.0	Code IRC2018/TPI2014	Matrix-R	Wind(LL) 0.00 5 >999 240 Weight: 6 lb FT = 10%
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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 1-10-15 oc purlins, except end verticals. BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing

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

Max Horz 5=36(LC 5) Max Uplift 5=-54(LC 4), 3=-27(LC 8)

Max Grav 5=168(LC 1), 3=46(LC 1), 4=34(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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1-10-15 1-10-15

Plate Olisets (X, Y)	[1:0-0-7,0-1-4], [4:0-0-0,0-1-4]		
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d PLATES GRIP
TCLL 25.0	Plate Grip DOL 1.15	TC 0.05	Vert(LL) -0.00 4 >999 360 MT20 197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.03	Vert(CT) -0.00 3-4 >999 240
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT) -0.00 2 n/a n/a
BCDL 10.0	Code IRC2018/TPI2014	Matrix-R	Wind(LL) 0.00 4 >999 240 Weight: 5 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 1-10-15 oc purlins, except end verticals. Rigid ceiling directly applied or 10-0-0 oc bracing.

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

Max Horz 4=29(LC 5) Max Uplift 4=-5(LC 4), 2=-31(LC 8)

Max Grav 4=81(LC 1), 2=60(LC 1), 3=35(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) 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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LOADING (psf) TCLL 25.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr NO Code IRC2018/TPI2014	CSI. TC 0.48 BC 0.81 WB 0.00 Matrix-R	DEFL. in Vert(LL) -0.07 Vert(CT) -0.11 Horz(CT) 0.04 Wind(LL) 0.06	(loc) 7 7 5 6	l/defl >999 >749 n/a >999	L/d 360 240 n/a 240	PLATES MT20 Weight: 21 lb	GRIP 197/144 FT = 10%

 LUMBER BRACING

 TOP CHORD
 2x4 SPF No.2 *Except*
 TOP CHORD
 Structural wood sheathing directly applied or 6-0 oc purlins, except end verticals.

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

 3-7: 2x3 SPF No.2
 BOT CHORD
 Rigid ceiling directly applied or 10-0-0 oc bracing.

 WEBS
 2x3 SPF No.2
 BOT CHORD
 Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 8=0-4-11, 5=Mechanical Max Horz 8=93(LC 5) Max Uplift 8=-134(LC 4), 5=-97(LC 8)

Max Grav 8=439(LC 1), 5=351(LC 1)

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

 TOP CHORD
 2-8=-392/163, 2-3=-328/70

NOTES-

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5 except (jt=lb) 8=134.
- 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 17 lb up at 2-0-6, 75 lb down and 34 lb up at 2-4-2, and 76 lb down and 54 lb up at 4-7-2, and 96 lb down and 45 lb up at 5-6-9 on top chord, and 4 lb down and 8 lb up at 2-0-6, 2 lb down and 0 lb up at 2-4-2, and 14 lb down at 4-7-2, and 56 lb down and 47 lb up at 5-6-9 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, 2-4=-70, 7-8=-20, 5-6=-20

Concentrated Loads (lb)

Vert: 12=-11(F) 13=2(B) 14=0(F) 15=-2(B) 16=-56(F)



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- TOP CHORD 2-7=-374/137, 2-3=-540/101
- BOT CHORD 6-7=-113/491, 5-6=-113/491

WEBS 3-5=-499/129

NOTES-

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5 except (jt=lb) 7=135.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 67 lb down and 29 lb up at 2-7-6, 67 lb down and 29 lb up at 2-7-6, and 92 lb down and 64 lb up at 5-5-5, and 92 lb down and 64 lb up at 5-5-5 on top chord, and 3 lb down and 1 lb up at 2-7-6, 3 lb down and 1 lb up at 2-7-6, and 21 lb down at 5-5-5, and 21 lb down at 5-5-5 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

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

Vert: 9=-28(F=-14, B=-14) 10=1(F=1, B=1) 11=-24(F=-12, B=-12)







		681	DEEL	in (lac)	l/d of l	1 /4		CDIR
LUADING (psi)	SPACING- 2-0-0	USI .	DEFL.	in (ioc)	i/deli	L/a	PLATES	GRIP
TCLL 25.0	Plate Grip DOL 1.15	TC 0.15	Vert(LL) -0	.02 7	>999	360	MT20	197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.29	Vert(CT) -0	.03 7	>999	240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT) 0	.01 5	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014	Matrix-R	Wind(LL) 0	.01 6	>999	240	Weight: 13 lb	FT = 10%

LUMBER-		BRACING-	
TOP CHORD	2x4 SPF No.2	TOP CHORD	Structural wood sheathing directly applied or 4-6-5 oc purlins,
BOT CHORD	2x4 SPF No.2 *Except*		except end verticals.
	3-7: 2x3 SPF No.2	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	2x3 SPF No.2		

REACTIONS. (size) 8=0-3-8, 4=Mechanical, 5=Mechanical Max Horz 8=68(LC 4) Max Uplift 8=-64(LC 4), 4=-32(LC 8), 5=-21(LC 8) Max Grav 8=272(LC 1), 4=102(LC 1), 5=86(LC 1)

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

NOTES-

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) 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) 8, 4, 5.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



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		1	3-3-0	1			5-10-8		1		
			3-3-0	1			2-7-8		1		
Plate Off	sets (X,Y)	[2:0-0-7,0-1-4], [8:0-0-0,0-1-4]									_
											_
LOADIN	G (psf)	SPACING- 2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL	25.0	Plate Grip DOL 1.15	TC 0.36	Vert(LL)	-0.07	6	>994	360	MT20	197/144	
TCDL	10.0	Lumber DOL 1.15	BC 0.52	Vert(CT)	-0.12	7	>562	240			
BCLL	0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT)	0.05	5	n/a	n/a			
BCDL	10.0	Code IRC2018/TPI2014	Matrix-R	Wind(LL)	0.05	6	>999	240	Weight: 16 lb	FT = 10%	

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

BRACING-TOP CHORD Struct excep

BOT CHORD

Structural wood sheathing directly applied or 5-10-8 oc purlins, except end verticals. Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 8=0-3-8, 4=Mechanical, 5=Mechanical Max Horz 8=61(LC 4) Max Uplift 8=-29(LC 4), 4=-30(LC 8) Max Grav 8=331(LC 1), 4=160(LC 1), 5=91(LC 3)

FORCES. (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) or less except when shown. TOP CHORD 2-8=-303/53

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); 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.
- 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) 8, 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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Plate Off	sets (X,Y)	[2:0-0-7,0-1-4], [5:0-0-0,0)-1-4]									
LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.53	Vert(LL)	-0.05	4-5	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.32	Vert(CT)	-0.11	4-5	>605	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.04	3	n/a	n/a		
BCDL	10.0	Code IRC2018/T	PI2014	Matri	x-R	Wind(LL)	0.03	4-5	>999	240	Weight: 15 lb	FT = 10%
LUMBER	۶-			-		BRACING						

TOP CHORD

BOT CHORD

LUMBER-

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

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

Max Horz 5=61(LC 4) Max Uplift 5=-29(LC 4), 3=-50(LC 8)

Max Grav 5=331(LC 1), 3=183(LC 1), 4=109(LC 3)

FORCES. (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) or less except when shown. TOP CHORD 2-5=-285/74

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) 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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Structural wood sheathing directly applied or 5-10-8 oc purlins,

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

except end verticals.





			I	2-9-13	
LOADING (TCLL	(psf) 25.0	SPACING- 2-0-0 Plate Grip DOL 1.15	CSI. TC 0.09	DEFL. in (loc) l/defl L/d PLATES GRIP Vert(LL) -0.00 4-5 >999 360 MT20 197/144	
TCDL '	10.0	Lumber DOL 1.15	BC 0.06	Vert(CT) -0.01 4-5 >999 240	
BCLL BCDL	0.0 * 10.0	Rep Stress Incr YES Code IRC2018/TPI2014	WB 0.00 Matrix-R	Horz(CT) -0.00 3 n/a n/a Wind(LL) 0.00 4-5 >999 240 Weight: 8 lb FT = 10%	

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

WEBS 2x3 SPF No.2

REACTIONS. 5=0-3-8, 3=Mechanical, 4=Mechanical (size) Max Horz 5=53(LC 5) Max Uplift 5=-27(LC 8), 3=-46(LC 8)

Max Grav 5=201(LC 1), 3=79(LC 1), 4=51(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.



BRACING-TOP CHORD BOT CHORD

Structural wood sheathing directly applied or 2-9-13 oc purlins, except end verticals.

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



LOADING	(psf)	SPACING- 2-0-0	CSI.	DEFL.	n (loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL 1.15	TC 0.06	Vert(LL) -0.0	05	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL 1.15	BC 0.01	Vert(CT) -0.0	0 5	>999	240		
BCLL	0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT) -0.0	0 3	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014	Matrix-R	Wind(LL) 0.0	0 5	>999	240	Weight: 4 lb	FT = 10%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

2x3 SPF No.2

REACTIONS. 5=0-3-8, 3=Mechanical, 4=Mechanical (size) Max Horz 5=35(LC 5) Max Uplift 5=-32(LC 4), 3=-17(LC 8), 4=-2(LC 5) Max Grav 5=149(LC 1), 3=12(LC 1), 4=20(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.



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Structural wood sheathing directly applied or 1-2-10 oc purlins,

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

except end verticals.





OADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
CLL	25.0	Plate Grip DOL	1.15	TC	0.19	Vert(LL)	-0.01	4-5	>999	360	MT20	197/144
CDL	10.0	Lumber DOL	1.15	BC	0.12	Vert(CT)	-0.02	4-5	>999	240		
CLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.01	3	n/a	n/a		
SCDL 10.0		Code IRC2018/TPI2014 Matrix-R		Wind(LL)	0.01	4-5	>999	240	Weight: 10 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 3-9-7 oc purlins, except end verticals. Rigid ceiling directly applied or 10-0-0 oc bracing.

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

Max Horz 5=58(LC 4) Max Uplift 5=-60(LC 4), 3=-56(LC 8)

Max Grav 5=241(LC 1), 3=113(LC 1), 4=69(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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OADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
CLL	25.0	Plate Grip DOL	1.15	TC	0.06	Vert(LL)	-0.00	5	>999	360	MT20	197/144
CDL	10.0	Lumber DOL	1.15	BC	0.02	Vert(CT)	-0.00	5	>999	240		
CLL	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-R	Wind(LL)	0.00	5	>999	240	Weight: 6 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 1-9-7 oc purlins, except end verticals. BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

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

Max Horz 5=35(LC 5) Max Uplift 5=-53(LC 4), 3=-25(LC 8)

Max Grav 5=164(LC 1), 3=41(LC 1), 4=31(LC 3)

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

NOTES-

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

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

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



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Plate Off	sets (X,Y)	[2:0-0-7,0-1-4], [5:0-0-0,0-1-4]							
	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 0.06	Vert(LL) -0.0	0 5	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL 1.15	BC 0.03	Vert(CT) -0.0	0 4-5	>999	240		
BCLL	0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT) -0.0	0 3	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014	Matrix-R	Wind(LL) 0.0	0 5	>999	240	Weight: 6 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 2-0-5 oc purlins, except end verticals. Rigid ceiling directly applied or 10-0-0 oc bracing.

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

Max Horz 5=37(LC 5) Max Uplift 5=-54(LC 4), 3=-28(LC 8)

Max Grav 5=170(LC 1), 3=49(LC 1), 4=35(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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	F		4-6-11	
LOADING (psf) TCLL 25.0 TCDL 10.0 BCLL 0.0 BCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr NO Code IRC2018/TPI2014	CSI. TC 0.25 BC 0.17 WB 0.00 Matrix-R	DEFL. in (loc) l/defl L/d PLATES GRIP Vert(LL) -0.02 4-5 >999 360 MT20 197/144 Vert(CT) -0.03 4-5 >999 240 MT20 197/144 Wind(LL) 0.00 4-5 >999 240 Weight: 14 lb FT = 10%	

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

REACTIONS. 5=0-4-11, 4=Mechanical (size) Max Horz 5=82(LC 5)

Max Uplift 5=-109(LC 4), 4=-41(LC 8)

Max Grav 5=320(LC 1), 4=178(LC 1)

FORCES. (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) or less except when shown. TOP CHORD 2-5=-282/135

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) 4 except (jt=lb) 5=109.
- 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) 61 lb down and 18 lb up at 2-1-6, and 75 lb down and 34 lb up at 2-3-6 on top chord, and 4 lb down and 8 lb up at 2-1-6, and 2 lb down and 0 lb up at 2-3-6 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: 7=2(F=0, B=2)



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May 22,2020

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.

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

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

except end verticals.





Scale = 1.9



Plate Offsets (X,Y	[2:0-0-7,0-1-4], [5:0-0-0,0-1-4]								
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 0.06	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%
			-					1	

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

BRACING-TOP CHORD

BOT CHORD

Structural wood sheathing directly applied or 1-4-8 oc purlins, except end verticals. Rigid ceiling directly applied or 10-0-0 oc bracing.

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

Max Horz 5=31(LC 5) Max Uplift 5=-54(LC 4), 3=-17(LC 8)

Max Grav 5=152(LC 1), 3=21(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) 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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Plate Offs	ets (X,Y)	[2:0-0-7,0-1-4], [5:0-0-0,0-1-4]							1	
LOADING	(psf)	SPACING- 2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL 1.15	TC 0.21	Vert(LL)	-0.01	`4-5	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL 1.15	BC 0.13	Vert(CT)	-0.02	4-5	>999	240		
BCLL	0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT)	0.01	3	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014	Matrix-R	Wind(LL)	0.01	4-5	>999	240	Weight: 11 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 3-11-4 oc purlins, except end verticals. Rigid ceiling directly applied or 10-0-0 oc bracing.

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

Max Horz 5=60(LC 4) Max Uplift 5=-61(LC 4), 3=-58(LC 8)

Max Grav 5=247(LC 1), 3=118(LC 1), 4=72(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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6-1-7
6-1-7

TOP CHORD

BOT CHORD

Plate Offsets (X,Y)	[4:Edge,0-2-8]			
LOADING (psf) TCLL 25.0 TCDL 10.0 BCLL 0.0 BCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr NO Code IRC2018/TPI2014	CSI. TC 0.50 BC 0.31 WB 0.00 Matrix-R	DEFL. in (loc) l/defl L/d Vert(LL) -0.05 4-5 >999 360 MT20 197/144 Vert(CT) -0.10 4-5 >741 240 MT20 197/144 Horz(CT) 0.00 4 n/a n/a Wind(LL) 0.01 4-5 >999 240 Weight: 17 lb FT = 10%	
LUMBER-			BRACING-	

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. (size) 5=0-4-10, 4=Mechanical Max Horz 5=82(LC 24) Max Uplift 5=-110(LC 4), 4=-51(LC 8) Max Grav 5=373(LC 1), 4=253(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-5=-328/152

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=110.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 69 lb down and 39 lb up at 3-4-9, and 69 lb down and 39 lb up at 3-4-9 on top chord, and 5 lb down at 3-4-9, and 5 lb down at 3-4-9 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

 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.





Plate Off	sets (X,Y)	[2:0-0-7,0-1-4], [5:0-0-0,0	-1-4]									
LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.27	Vert(LL)	-0.02	4-5	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.17	Vert(CT)	-0.03	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/TF	912014	Matri	x-R	Wind(LL)	0.01	4-5	>999	240	Weight: 12 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 4-5-0 oc purlins, except end verticals. Rigid ceiling directly applied or 10-0-0 oc bracing.

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

Max Horz 5=68(LC 4) Max Uplift 5=-66(LC 4), 3=-64(LC 8)

Max Grav 5=268(LC 1), 3=134(LC 1), 4=81(LC 3)

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



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	0.06	Vert(LL)	-0.00	4-5	>999	360	MT20	197/144
CDL	10.0	Lumber DOL	1.15	BC	0.04	Vert(CT)	-0.00	4-5	>999	240		
CLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.00	3	n/a	n/a		
CDL	10.0	Code IRC2018/T	PI2014	Matri	x-R	Wind(LL)	0.00	5	>999	240	Weight: 7 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 2-3-14 oc purlins, except end verticals. Rigid ceiling directly applied or 10-0-0 oc bracing.

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

Max Horz 5=40(LC 4) Max Uplift 5=-57(LC 4), 3=-32(LC 8)

Max Grav 5=181(LC 1), 3=60(LC 1), 4=40(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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ARXING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MIL-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 Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

16023 Swingley Ridge Rd Chesterfield, MO 63017



1-10-3	
1-10-3	

Plate Off	sets (X,Y)	[2:0-0-7,0-1-4], [5:0-0-0,0-7	1-4]									
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	0.06	Vert(LL)	-0.00	5	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.02	Vert(CT)	-0.00	5	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.00	3	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI	2014	Matrix	k-R	Wind(LL)	0.00	5	>999	240	Weight: 6 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 1-10-3 oc purlins, except end verticals. Rigid ceiling directly applied or 10-0-0 oc bracing.

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

Max Horz 5=36(LC 5) Max Uplift 5=-53(LC 4), 3=-26(LC 8)

Max Grav 5=166(LC 1), 3=43(LC 1), 4=33(LC 3)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=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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1-11-11	
1-11-11	

Plate Offs	sets (X,Y)	[2:0-0-7,0-1-4], [5:0-0-0,0-	1-4]	_		1						
LOADING	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.06	Vert(LL)	-0.00	`́5	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.03	Vert(CT)	-0.00	4-5	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.00	3	n/a	n/a		
BCDL	10.0	Code IRC2018/TP	12014	Matri	x-R	Wind(LL)	0.00	5	>999	240	Weight: 6 lb	FT = 10%
	-			_		BRACING-						

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

2x3 SPF No.2

TOP CHORD BOT CHORD Structural wood sheathing directly applied or 1-11-11 oc purlins, except end verticals. Rigid ceiling directly applied or 10-0-0 oc bracing

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

Max Horz 5=37(LC 5) Max Uplift 5=-54(LC 4), 3=-28(LC 8)

Max Grav 5=170(LC 1), 3=49(LC 1), 4=35(LC 3)

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

NOTES-

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

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

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

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

- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 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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LOADING (psf) TCLL 25.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING-2-0-0Plate Grip DOL1.15Lumber DOL1.15Rep Stress IncrNOCode IRC2018/TPI2014	CSI. TC 0.17 BC 0.10 WB 0.00 Matrix-R	DEFL. i Vert(LL) -0.0 Vert(CT) -0.0 Horz(CT) 0.0 Wind(LL) 0.0	n (loc) 4-5 4-5) 3) 4-5	l/defl >999 >999 n/a >999	L/d 360 240 n/a 240	PLATES MT20 Weight: 10 lb	GRIP 197/144 FT = 10%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

WEBS 2x3 SPF No.2

REACTIONS. (size) 5=0-4-11, 3=Mechanical, 4=Mechanical

Max Horz 5=46(LC 4) Max Uplift 5=-93(LC 4), 3=-45(LC 8)

Max Grav 5=278(LC 1), 3=93(LC 1), 4=62(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.
- 7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 66 lb down and 33 lb up at 2-3-5 on top chord, and 3 lb down and 0 lb up at 2-3-5 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)
- Vert: 1-2=-70, 2-3=-70, 4-5=-20 Concentrated Loads (lb)
- Vert: 7=0(B)



Structural wood sheathing directly applied or 3-5-11 oc purlins,

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

except end verticals.



MiTek 16023 Swingley Ridge Rd Chesterfield, MO 63017



	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
CLL	25.0	Plate Grip DOL	1.15	тс	0.11	Vert(LL)	-0.00	4-5	>999	360	MT20	197/144
CDL	10.0	Lumber DOL	1.15	BC	0.07	Vert(CT)	-0.01	4-5	>999	240		
CLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.00	3	n/a	n/a		
CDL	10.0	Code IRC2018/TF	PI2014	Matri	x-R	Wind(LL)	0.00	4-5	>999	240	Weight: 9 lb	FT = 10%

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

2x3 SPF No.2

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

Max Horz 5=48(LC 4)

Max Uplift 5=-57(LC 4), 3=-45(LC 8)

Max Grav 5=210(LC 1), 3=88(LC 1), 4=55(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.



BRACING-TOP CHORD BOT CHORD

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

Structural wood sheathing directly applied or 3-0-12 oc purlins, except end verticals.



LOADING TCLL TCDL BCLL BCDL	(psf) 25.0 10.0 0.0 * 10.0	SPACING- 2-0- Plate Grip DOL 1.13 Lumber DOL 1.11 Rep Stress Incr NC Code IRC2018/TPI2014	0 CSI. 5 TC 5 BC D WB Matri	0.14 0.32 0.00 x-R	DEFL. Vert(LL) Vert(CT) Horz(CT) Wind(LL)	in -0.01 -0.01 0.00 0.00	(loc) 3-4 3-4 3 3-4	l/defl >999 >999 n/a >999	L/d 360 240 n/a 240	PLATES MT20 Weight: 10 lb	GRIP 197/144 FT = 10%	
LUMBER-			·		BRACING-							

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x4 SPF No.2 BOT CHORD 2x6 SPF No.2 WEBS 2x3 SPF No.2

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

Max Horz 4=61(LC 5) Max Uplift 4=-68(LC 4), 3=-56(LC 8)

Max Grav 4=442(LC 1), 3=303(LC 1)

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

NOTES-

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

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

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

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

5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 3.

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

7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 488 lb down and 83 lb up at 1-1-8 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

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

LOAD CASE(S) Standard

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

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

Concentrated Loads (Ib) Vert: 5=-488(B)



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Structural wood sheathing directly applied or 3-0-12 oc purlins,

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

except end verticals.





			Plate Offsets (X,Y) [2:0-0-5,0-1-4], [5:0-0-0,0-1-4]												
GRIP	s	PLATES	L/d	l/defl	(loc)	in	DEFL.		CSI.	2-0-0		SPACING-	osf)	DING	LOAD
197/144		MT20	360	>999	4-5	-0.00	Vert(LL)	0.11	тс	1.15	-	Plate Grip DOL	5.Ó	_	TCLL
			240	>999	4-5	-0.00	Vert(CT)	0.05	BC	1.15		Lumber DOL	0.0	L	TCDL
			n/a	n/a	3	-0.00	Horz(CT)	0.00	WB	NO	r	Rep Stress Incr	0.0 *	_	BCLL
∃lb FT = 10%	9 lb	Weight: 9 lb	240	>999	4-5	0.00	Wind(LL)	k-R	Matrix	.014	3/TPI	Code IRC2018/T	0.0	L	BCDL
ht: {	ht:	Weig	n/a 240	n/a >999	3 4-5	-0.00 0.00	Horz(CT) Wind(LL)	0.00 k-R	WB Matrix	NO :014	r 3/TPI	Rep Stress Incr Code IRC2018/1	0.0 * 0.0	- - L	BCLL BCDL

 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 3-1-1 oc purlins, except end verticals. Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 5=0-4-9, 3=Mechanical, 4=Mechanical

Max Horz 5=42(LC 7) Max Uplift 5=-98(LC 6), 3=-47(LC 12), 4=-1(LC 19) Max Grav 5=104(LC 1), 3=38(LC 1), 4=41(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.
- 7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 22 lb down and 8 lb up at -1-2-14, and 22 lb down and 8 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=-35(F=-17, B=-17)

- Trapezoidal Loads (plf)
 - Vert: 1=0(F=35, B=35)-to-2=-23(F=23, B=23), 2=-2(F=34, B=34)-to-3=-54(F=8, B=8), 5=-0(F=10, B=10)-to-4=-15(F=2, B=2)



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	[2.0 0 7,0 1 4], [0.0 0 0,0 1 4]		
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 0.06 BC 0.01 WB 0.00 Matrix-R	DEFL. in (loc) l/defl L/d Vert(LL) -0.00 5 >999 360 Vert(CT) -0.00 5 >999 240 Horz(CT) -0.00 3 n/a n/a Wind(LL) 0.00 5 >999 240 Weight: 5 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 1-5-0 oc purlins, except end verticals. Rigid ceiling directly applied or 10-0-0 oc bracing.

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

Max Horz 5=31(LC 5) Max Uplift 5=-54(LC 4), 3=-18(LC 8)

Max Grav 5=153(LC 1), 3=23(LC 1), 4=24(LC 3)

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

NOTES-

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

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

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



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 	4-4-15		8-5-0			12-10-0)				
Plate Offsets (X,Y)	[2:0-1-3,0-3-10], [3:0-4-4,0-2-8], [4:0-3-8	,0-2-5], [5:0-1-3,0-3-10], [3	7:Edge,0-7-4], [7:0-	0-0,0-3-10	, [10:0-0-0,0-	·3-10]					
LOADING (psf) TCLL 25.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING-2-0-0Plate Grip DOL1.15Lumber DOL1.15Rep Stress IncrNOCode IRC2018/TPI2014	CSI. TC 0.69 BC 0.58 WB 0.10 Matrix-S	DEFL. Vert(LL) Vert(CT) Horz(CT) (Wind(LL)	in (loc) 0.12 8-9 0.21 8-9 0.02 7 0.10 8-9) l/defl 9 >999 9 >688 7 n/a 9 >999	L/d 360 240 n/a 240	PLATES MT20 Weight: 40 lb	GRIP 197/144 FT = 10%			
LUMBER- TOP CHORD 2x4 SF 3-4: 2x BOT CHORD 2x4 SF WEBS 2x3 SF 2-10,5	PF 2100F 1.8E *Except* 44 SPF No.2 PF 2100F 1.8E PF No.2 *Except* -7: 2x8 SP 2400F 2.0E		BRACING- TOP CHORD BOT CHORD	Struc exce Rigid	tural wood sl pt end vertica ceiling direc	neathing directly als, and 2-0-0 oc tly applied or 10-	applied or 4-9-10 purlins (3-9-8 ma -0-0 oc bracing.) oc purlins, ax.): 3-4.			
REACTIONS. (siz Max H Max U Max G	e) 10=0-3-8, 7=0-3-8 lorz 10=-14(LC 9) plift 10=-246(LC 4), 7=-246(LC 5) rav 10=998(LC 1), 7=998(LC 1)						IN E OF	MISS			
FORCES. (lb) - Max. TOP CHORD 2-3= BOT CHORD 9-10: WEBS 3-9=	Comp./Max. Ten All forces 250 (lb) or -1702/373, 3-4=-1546/363, 4-5=-1702/37 308/1531, 8-9=-307/1546, 7-8=-296/15 0/290, 4-8=0/293	less except when shown. 2, 2-10=-870/251, 5-7=-87 32	70/251				GA	JAN RCIA			
NOTES- 1) Unbalanced roof live 2) Wind: ASCE 7-16; V MWFRS (envelope) grip DOL=1.60 3) Provide adequate d 4) This truss has been 5) * This truss has been	e loads have been considered for this de /ult=115mph (3-second gust) Vasd=91m gable end zone; cantilever left and right rainage to prevent water ponding. designed for a 10.0 psf bottom chord live n designed for a live load of 20.0psf on th	sign. oh; TCDL=6.0psf; BCDL=1 exposed ; end vertical left e load nonconcurrent with ne bottom chord in all area	6.0psf; h=25ft; Cat. and right exposed; any other live loads as where a rectangl	II; Exp C; I Lumber D s. e 3-6-0 tall	Enclosed; OL=1.60 plat by 2-0-0 wid	e	PRO E-200	MBER 0162101			
will fit between the b6) Provide mechanical 10=246, 7=246.	bottom chord and any other members. connection (by others) of truss to bearing	g plate capable of withstar	nding 100 lb uplift a	t joint(s) ex	cept (jt=lb)		IN UAN	GARCIA			
 This truss is design referenced standard Graphical purlin rep 9) Hanger(s) or other of 4-4-15, and 89 lb do 4-4-15, and 41 lb do device(s) is the resp 10) In the LOAD CASE 	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. Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord. Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 89 lb down and 72 lb up at 4-4-15, and 89 lb down and 72 lb up at 6-4-15, and 89 lb down and 72 lb up at 8-5-0 on top chord, and 255 lb down and 74 lb up at 4-4-15, and 41 lb down at 6-4-15, and 255 lb down and 74 lb up at 8-4-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.										
LOAD CASE(S) Stan 1) Dead + Roof Live (b	dard palanced): Lumber Increase=1.15, Plate I	ncrease=1.15					11,8510	NAL ENGIN			

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 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.



May 22,2020

Job	Truss	Truss Type	Qty	Ply	Lot 23 RT	
					141	1405930
400311	K1	Hip Girder	1	1		
					Job Reference (optional)	
Wheeler Lumber,	Waverly, KS 66871			8.240 s M	ar 9 2020 MiTek Industries, Inc. Fri May 22 11:55:30 2020 Pa	age 2

8.240 s Mar 9 2020 MiTek Industries, Inc. Fri May 22 11:55:30 2020 Page 2 ID:M6_qRERj_ax8BApGKEbrTSyOHsj-3zoNuJN5uVukQhKyH1tQzChjhsLnO_pyiHLP3yzDyVx

LOAD CASE(S) Standard

Uniform Loads (plf)

Vert: 1-2=-70, 2-3=-70, 3-4=-70, 4-5=-70, 5-6=-70, 7-10=-20

Concentrated Loads (lb) Vert: 3=-64(F) 4=-64(F) 9=-255(F) 8=-255(F) 11=-64(F) 12=-30(F)





			6-5-0							12-10-0		
Plate Off	isets (X,Y)	[6:0-3-9,0-2-8], [8:0-3-9,0	6-5-0)-2-8]							6-5-0		
LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.56	Vert(LL)	-0.04	6-7	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.30	Vert(CT)	-0.08	6-7	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.08	Horz(CT)	0.01	6	n/a	n/a		
BCDL	10.0	Code IRC2018/TF	PI2014	Matri	x-R	Wind(LL)	0.02	7-8	>999	240	Weight: 35 lb	FT = 10%
LUMBER	२-					BRACING-						

TOP CHORD

BOT CHORD

LUMBER-

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

REACTIONS. (size) 8=0-3-8, 6=0-3-8 Max Horz 8=-27(LC 13) Max Uplift 8=-129(LC 4), 6=-129(LC 5) Max Grav 8=634(LC 1), 6=634(LC 1)

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

 TOP CHORD
 2-3=-835/111, 3-4=-835/110, 2-8=-569/168, 4-6=-569/168

- BOT CHORD 7-8=-47/716, 6-7=-47/716 3-7=0/252

WEBS

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 8=129, 6=129.

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 5-8-7 oc purlins,

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

except end verticals.





ł			12-10-0									
Plate Off	sets (X,Y)	[1:0-3-9.0-2-8]. [5:0-3-9.0	5-5-0)-2-8]							6-5-0		
LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.55	Vert(LL)	-0.04	5-6	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.37	Vert(CT)	-0.09	5-6	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.08	Horz(CT)	0.01	5	n/a	n/a		
BCDL	10.0	Code IRC2018/TI	PI2014	Matri	x-R	Wind(LL)	0.03	5-6	>999	240	Weight: 34 lb	FT = 10%
	_			1							1	

LUMBER-BRACING-TOP CHORD 2x4 SPF No.2 TOP CHORD Structural wood sheathing directly applied or 5-7-6 oc purlins, BOT CHORD 2x4 SPF No.2 except end verticals. WEBS 2x6 SPF No.2 *Except* BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. 2-6: 2x3 SPF No.2

REACTIONS. (size) 7=0-3-8, 5=0-3-8 Max Horz 7=-33(LC 9) Max Uplift 7=-81(LC 4), 5=-129(LC 5) Max Grav 7=553(LC 1), 5=638(LC 1)

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

 TOP CHORD
 1-2=-834/109, 2-3=-838/114, 1-7=-476/117, 3-5=-568/168

 BOT CHORD
 6-7=-50/720, 5-6=-50/720

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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 7 except (it=lb) 5=129.

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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May 22,2020





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 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 sand truss systems, see **ANSVTPTI 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

Job	Truss	Truss Type	Qty	Ply	Lot 23 RT	
						141405933
400311	K4	Roof Special Girder	1	2		
				_	Job Reference (optional)	
Wheeler Lumber, Wave	erly, KS 66871			8.240 s Ma	ar 9 2020 MiTek Industries, Inc. Fri May 22 11:55:34 2020	Page 2
		ID:M6	gRERja	ax8BApGK	EbrTSyOHsj-xk1ukhQcxjO9vJdjWtyM82sLuTkTKi1YdvJdCl	kzDyVt

LOAD CASE(S) Standard

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

Uniform Loads (plf) Vert: 1-3=-70, 3-4=-70, 6-7=-20, 4-5=-20

Concentrated Loads (lb)

Vert: 4=-501(B) 7=-793(B) 8=-785(B) 9=-785(B) 10=-912(B) 11=-488(B) 12=-494(B)





15

2x4 ||

34 14

5x7 WB =

33

16

5x12 =

32

31

13

4x9 =

36

37

35

12

5x7 =

8x8 =

38

⊢	2-11-6	8-2-2	13-6-1	<u>18-10-1</u> <u>24-0-12</u> <u>28-0-0</u>					-0-0
Plate Offsets (X V)	<u>2-11-6</u> [2:0-2-1.0	5-2-11 -1-8] [11:0-1-4 0-0-0] [11:Eda	5-3-15 0-5-21	5-3-1	5		5-2-11	3-1	11-4
	[2.0 2 1,0	, 10]; [11.0 1 4,0 0 0]; [11.2dg	0,0 0 2]						
LOADING (psf) TCLL 25.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	SF Pla Lu Re Co	PACING- 2-0-0 ate Grip DOL 1.15 mber DOL 1.15 pStress Incr NO ode IRC2018/TPI2014	CSI. TC 0.72 BC 0.48 WB 0.43 Matrix-S	DEFL. Vert(LL) -0.3 Vert(CT) -0.5 Horz(CT) 0.0 Wind(LL) 0.2	in (loc) 3 15 9 13-15 7 11 9 15	l/defl >999 >562 n/a >999	L/d 360 240 n/a 240	PLATES MT20 Weight: 215 lb	GRIP 197/144 FT = 10%
LUMBER- TOP CHORD 2x BOT CHORD 2x WEBS 2x 2- OTHERS 2x	4 SPF No.2 4 SPF 2100F 4 SPF No.2 *E 18,9-11: 2x3 S 3 SPF No.2	1.8E Except* PF No.2		BRACING- TOP CHORD BOT CHORD	Structu except Rigid c	ural wood s end vertica eiling direc	heathing dire als, and 2-0-0 tly applied or	ctly applied or 6-0-0 o 0 oc purlins (4-1-11 m 10-0-0 oc bracing.	oc purlins, ax.): 3-8.
REACTIONS. Mi Mi Mi	(size) 18=0 ax Horz 18=-; ax Uplift 18=- ax Grav 18=1	-3-8, 11=0-3-8 21(LC 27) 404(LC 4), 11=-451(LC 5) 895(LC 1), 11=1940(LC 1)						INTE OF	MISS
FORCES. (lb) - M TOP CHORD 2	/lax. Comp./M 2-3=-2962/630 3-9=-3860/843	ax. Ten All forces 250 (lb) or , 3-4=-6085/1328, 4-5=-6082/1 , 2-18=-1878/407 9-11=-1889/	less except when shown 327, 5-7=-6566/1444, 7-8 459	3=-6569/1446,				I S JL	JAN D
BOT CHORD 1	6-17=-551/27	48, 15-16=-1547/7361, 13-15=	-1547/7361, 12-13=-773/	3648,				★ GA	RCIA *
WEBS 3	3-17=-343/144 5-13=-857/172	, 3-16=-760/3545, 4-16=-581/2 2, 7-13=-592/260, 8-13=-660/31	58, 5-16=-1360/291, 5-18 18, 2-17=-547/2684, 9-12	5=0/302, 2=-697/3358				PP. NUM	MBER
NOTES-								- A.	
 2-ply truss to be Top chords con Bottom chords of Webs connected 	e connected to nected as follo connected as d as follows: 2	gether with 10d (0.131"x3") nai ows: 2x4 - 1 row at 0-9-0 oc, 2x follows: 2x4 - 1 row at 0-9-0 oc. 2x4 - 1 row at 0-9-0 oc.	ls as follows: 3 - 1 row at 0-9-0 oc.					SS/ON	VALENGIII
 All loads are comply connections 	nsidered equa have been pr	Illy applied to all plies, except if ovided to distribute only loads r	noted as front (F) or back noted as (F) or (B), unless	k (B) face in the LOAD s otherwise indicated.	CASE(S)	section. Pl	y to	IIIII	GARO
 3) Unbalanced roo 4) Wind: ASCE 7-1 MWFRS (envelo grip DOL=1.60 	if live loads ha 16; Vult=115m ope) gable end	ve been considered for this des ph (3-second gust) Vasd=91m d zone; cantilever left and right	sign. ph; TCDL=6.0psf; BCDL= exposed ; end vertical lef	=6.0psf; h=25ft; Cat. II; ft and right exposed; Lu	Exp C; Er ımber DO	nclosed; L=1.60 plat	te	ZTITI JOAN	ENSED
 5) Provide adequa 6) This truss has b 7) * This truss has will fit between t 	te drainage to een designed been designe he bottom cho	prevent water ponding. for a 10.0 psf bottom chord live d for a live load of 20.0psf on th ord and any other members.	e load nonconcurrent with he bottom chord in all are	n any other live loads. eas where a rectangle 3	9-6-0 tall b	y 2-0-0 wid	le	16	5952 <u>#</u>
8) Provide mechar 18=404, 11=45	nical connectio	on (by others) of truss to bearing	g plate capable of withsta	anding 100 lb uplift at jo	int(s) exc	ept (jt=lb)			INSAS AN
 This truss is des referenced stan 	signed in acco dard ANSI/TP	rdance with the 2018 Internatio	nal Residential Code sec	tions R502.11.1 and R	802.10.2	and		1,5510	NALEN
10) Graphical purli	n representat	ion does not depict the size or t	he orientation of the purli	in along the top and/or	bottom ch	ord.			HIMP.

Continued on page 2

17

4x5 =

29

30

18

2x4 ||



Job	Truss	Truss Type	Qty	Ply	Lot 23 RT	
400311	11		1			l41405934
100011				2	Job Reference (optional)	
Wheeler Lumber. Wa	verly, KS 66871			8.240 s M	ar 9 2020 MiTek Industries, Inc. Fri May 22 11:55:37 2020	Page 2

ID:M6_qRERj_ax8BApGKEbrTSyOHsj-MJj0MiSUEemkmmMIB?V3mgUvShm0X3K_JtXHo3zDyVq

NOTES-

11) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 80 lb down and 67 lb up at 3-6-4, 82 lb down and 67 lb up at 5-6-4, 82 lb down and 67 lb up at 7-6-4, 82 lb down and 67 lb up at 11-6-4, 82 lb down and 67 lb up at 13-6-4, 82 lb down and 67 lb up at 15-6-4, 82 lb down and 67 lb up at 11-6-4, 82 lb down and 67 lb up at 11-6-4, 82 lb down and 67 lb up at 12-6-4, and 82 lb down and 67 lb up at 23-6-4, and 82 lb down and 67 lb up at 24-0-12 on top chord, and 153 lb down and 67 lb up at 11-6-4, 32 lb down at 32-6-4, 32 lb down at 13-6-4, 32 lb down at 23-6-4, and 217 lb down at 12-6-4, and 72 lb up at 24-0-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

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

Uniform Loads (plf) Vert: 1-2=-70, 2-3=-70, 3-8=-70, 8-9=-70, 9-10=-70, 11-18=-20

Concentrated Loads (lb)

Vert: 17=-153(F) 5=-48(F) 15=-23(F) 8=-48(F) 12=-217(F) 19=-48(F) 20=-48(F) 21=-48(F) 22=-48(F) 23=-48(F) 24=-48(F) 25=-48(F) 26=-48(F) 27=-48(F) 28=-48(F) 29=-23(F) 30=-23(F) 31=-23(F) 32=-23(F) 33=-23(F) 35=-23(F) 35=-23(F)





F	4-6-10 11-4-4				18-4-6 7-0-2					
Plate Offsets (X,Y)	[2:0-3-15,0-0-0], [6:Edge,0-2-8], [9:0-2-3	,0-5-5], [9:0-3-6,0-1-6]						102		
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 0.94 BC 0.87 WB 0.57 Matrix-S	DEFL. Vert(LL) Vert(CT) Horz(CT) Wind(LL)	in 0.16 0.33 0.02 0.09	(loc) 7-8 7-8 6 7-8	l/defl >999 >662 n/a >999	L/d 360 240 n/a 240	PLATES MT20 Weight: 62 lb	GRIP 197/144 FT = 10%	
LUMBER- TOP CHORD 2x4 SPF No.2 BOT CHORD 2x4 SPF No.2 WEBS 2x3 SPF No.2 *Except* 2-9: 2x8 SP DSS)	Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals, and 2-0-0 oc purlins (3-5-4 max.): 3-5. Rigid ceiling directly applied or 10-0-0 oc bracing.					
REACTIONS. (siz Max H Max U Max C	e) 6=Mechanical, 9=0-3-8 łorz 9=85(LC 5) Jplift 6=-41(LC 5), 9=-38(LC 4) śrav 6=805(LC 1), 9=893(LC 1)								MIS	
FORCES.(lb) - Max.TOP CHORD2-3=BOT CHORD8-9=WEBS3-7=	Comp./Max. Ten All forces 250 (lb) or -1223/37, 3-4=-1619/90, 4-5=-1616/89, 5 -72/1042, 7-8=-75/1041 -46/681, 4-7=-584/133, 5-7=-87/1656	less except when shown. -6=-744/74, 2-9=-770/55						ALL GA		
NOTES- 1) Unbalanced roof liv 2) Wind: ASCE 7-16; \ MWFRS (envelope) 3) Provide adequate d	e loads have been considered for this de /ult=115mph (3-second gust) Vasd=91m ; cantilever left and right exposed ; end v	sign. ph; TCDL=6.0psf; BCDL=6.0p ertical left and right exposed;	osf; h=25ft; Cat. Lumber DOL=1	II; Ex I.60 pl	p C; En late grip	iclosed; DOL=1.	60	P NU POC E-200	MBER 44	

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) 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) 6, 9.

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 sand 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.

MiTek 16023 Swingley Ridge Rd Chesterfield, MO 63017



L	5-5-6	11-2-8		11-10-14			18-4-6		
	5-5-6 5-9-2		-2	0-8-6			6-5-8		
Plate Offsets (X,Y) [2:0-3-15,0-0-0], [6:Edge,0-2-8], [10:0-2-3,0-5-5], [10:0-3-6,0-1-6]									
LOADING (psf) TCLL 25.0 TCDL 10.0 BCLL 0.0 *	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES	CSI. TC 0.96 BC 0.83 WB 0.60	DEFL. Vert(LL) -0 Vert(CT) -0 Horz(CT) 0	in (loc) 14 8-9 25 8-9	/defl >999 >855 7 n/a	L/d 360 240 n/a	PLATES MT20	GRIP 197/144	
BCDL 10.0	Code IRC2018/TPI2014	Matrix-S	Wind(LL) 0	.07 8-9	>999	240	Weight: 65 lb	FT = 10%	
LUMBER- TOP CHORD 2x4 SF 4-5: 2x BOT CHORD 2x4 SF WEBS 2x3 SF 2-10: 2	PF No.2 *Except* 66 SPF No.2 PF No.2 PF No.2 *Except* 2x8 SP DSS		BRACING- TOP CHORD BOT CHORD WEBS	Struc 2-0-0 Rigid 1 Rov	tural wood s oc purlins ceiling dire w at midpt	sheathing dir (3-10-9 max.) ctly applied c 5-	ectly applied, except): 3-4, 5-6. or 10-0-0 oc bracing. -7	end verticals, and	
REACTIONS. (size) 7=Mechanical, 10=0-3-8 Max Horz 10=108(LC 5) Max Uplift 7=-30(LC 4), 10=-37(LC 8) Max Grav 7=805(LC 1), 10=893(LC 1)									
FORCES. (lb) - Max. Comp./Max. Ten All forces 250 (lb) or less except when shown. TOP CHORD 2-3=-1209/48, 3-4=-1315/53, 4-5=-1427/58, 2-10=-777/69 BOT CHORD 9-10=-23/1023, 8-9=-26/1023, 7-8=-22/1145 WEBS 3-8=-8/325, 5-8=-15/772, 5-7=-1232/43, 4-8=-727/85									
 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. 6) 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) 7, 10.
 This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

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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⊢	<u>3-10-3</u> 3-10-3	9-7-5				<u>13-6-2</u> 3-10-13	3		<u>18-4-6</u> 4-10-4	
Plate Offsets (X,Y) [2:0-3-15,0-0-0], [8:0-2-8,0-1-8], [11:0-3-6,0-1-6], [11:0-2-3,0-5-5]										
LOADING (psf) TCLL 25.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING- 2 Plate Grip DOL Lumber DOL Rep Stress Incr Code IRC2018/TPI20	-0-0 1.15 1.15 YES 014	CSI. TC 0.73 BC 0.79 WB 0.85 Matrix-S	DEFL. Vert(LL) Vert(CT) Horz(CT) Wind(LL	in -0.13 -0.25) 0.03) 0.07	(loc) 9-10 9-10 7 9-10	l/defl >999 >850 n/a >999	L/d 360 240 n/a 240	PLATES MT20 Weight: 70 lb	GRIP 197/144 FT = 10%
LUMBER-				BRACIN	G-					

TOP CHORD

BOT CHORD

LUMBER-TOP CHORD 2x4 SPF No.2 *Except* 1-3: 2x4 SPF 2100F 1.8E, 4-5: 2x6 SPF No.2 BOT CHORD 2x4 SPF No.2 WEBS 2x3 SPF No.2 *Except*

Structural wood sheathing directly applied or 5-2-3 oc purlins, except end verticals, and 2-0-0 oc purlins (3-1-4 max.): 3-4, 5-6. Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 7=Mechanical, 11=0-3-8 Max Horz 11=130(LC 5) Max Uplift 7=-18(LC 4), 11=-41(LC 8) Max Grav 7=805(LC 1), 11=893(LC 1)

2-11: 2x8 SP DSS

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

TOP CHORD 2-3=-1208/46, 3-4=-1771/59, 4-5=-886/39, 2-11=-765/54

BOT CHORD 10-11=-44/1028, 9-10=-47/1029, 8-9=-50/1777, 7-8=-22/784

WEBS 3-9=-8/792, 4-8=-1142/71, 5-8=0/617, 5-7=-980/21

NOTES-

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

 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
 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) 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) 7, 11.

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.



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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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MiTek

Job	Truss	Truss Type	Qty	Ply	Lot 23 RT
					I41405938
400311	L5	Roof Special Girder	1	1	
					Job Reference (optional)
Wheeler Lumber,	Waverly, KS 66871			8.240 s Ma	ar 9 2020 MiTek Industries, Inc. Fri May 22 11:55:42 2020 Page 2
			ID:M6 gRERj ax8B	ApGKEbrTS	vOHsj-iGWvQQWd3BP1sXFF Y5ETkBmliSGCEMiT8F2UGzDvVI

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, 10-13=-20, 8-9=-20

Concentrated Loads (lb) Vert: 3=-3(B) 12=-6(B) 14=-18(B) 15=-18(B) 16=-11(B) 17=-11(B) 18=-283(B)









May 22,2020



Max Uplift All uplift 100 lb or less at joint(s) 1, 7 except 11=-131(LC 8), 12=-124(LC 8), 9=-130(LC 9), 8=-124(LC 9) Max Grav All reactions 250 lb or less at joint(s) 1, 7, 10, 11, 12, 9, 8

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

NOTES-

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

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

4) Gable requires continuous bottom chord bearing.

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

- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide
- will fit between the bottom chord and any other members.
 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 7 except (jt=lb) 11=131, 12=124, 9=130, 8=124.
- 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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	+-	+ -1						23-0-0						
	4-4	4-7					:	24-7-9					1	
Plate Offse	ts (X,Y)	[18:0-1-3,Edge	e], [27:0-3-	8,0-3-0]										
LOADING TCLL TCDL BCLL	(psf) 25.0 10.0 0.0 *	SPACII Plate G Lumber Rep Str	NG- rip DOL r DOL ress Incr	2-0-0 1.15 1.15 YES	CSI. TC BC WB	0.06 0.03 0.03	DEFL. Vert(LL) Vert(CT) Horz(CT)	in n/a n/a 0.00	(loc) - - 20	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20	GRIP 197/144	
BCDL	10.0	Code I	RC2018/TF	PI2014	Matri	x-S						Weight: 112 lb	FT = 10%	
LUMBER- TOP CHOR BOT CHOR	RD 2x4 SP RD 2x4 SP	F No.2 F No.2					BRACING- TOP CHOR	D	Structu	ral wood end verti	sheathing dir cals. and 2-0	ectly applied or 6-0-0 o	oc purlins, x.): 5-33. 5-18.	

20.0.0

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

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

REACTIONS. All bearings 29-0-0.

(lb) -Max Horz 1=149(LC 8)

1-1-7

Max Uplift All uplift 100 lb or less at joint(s) 1, 20, 33, 32, 31, 30, 29, 28, 27, 26, 25, 24, 23, 22 except 34=-135(LC 8), 21=-129(LC 9) Max Grav All reactions 250 lb or less at joint(s) 1, 20, 34, 33, 32, 31, 30, 29, 28, 27, 26, 25, 24, 23, 22,

21

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

NOTES-

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

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

- 3) Provide adequate drainage to prevent water ponding.
- 4) All plates are 2x4 MT20 unless otherwise indicated.

5) Gable requires continuous bottom chord bearing.

- 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) 1, 20, 33, 32, 31, 30, 29, 28, 27, 26, 25, 24, 23, 22 except (jt=lb) 34=135, 21=129.

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.







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/TF	2-0-0 1.15 1.15 YES Pl2014	CSI. TC BC WB Matrix	0.34 0.02 0.07 x-P	DEFL. Vert(LL) Vert(CT) Horz(CT)	in n/a n/a -0.00	(loc) - - 5	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20 Weight: 32 lb	GRIP 197/144 FT = 10%	
LUMBER- TOP CHORD 22	«4 SPF No.2				BRACING- TOP CHOF	RD.	Structu	ral wood	sheathing di	irectly applied or 5-7-1	0 oc purlins,	

BOT CHORD

except end verticals

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

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

WEBS2x4 SPF No.2OTHERS2x4 SPF No.2

REACTIONS. All bearings 5-7-10.

(lb) - Max Horz 1=271(LC 5)

Max Uplift All uplift 100 lb or less at joint(s) except 1=-142(LC 6), 5=-122(LC 7), 7=-186(LC 8), 6=-162(LC 8) Max Grav All reactions 250 lb or less at joint(s) 5, 7, 6 except 1=256(LC 5)

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

TOP CHORD 1-2=-325/241

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 142 lb uplift at joint 1, 122 lb uplift at joint 5, 186 lb uplift at joint 7 and 162 lb uplift at joint 6.

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



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REACTIONS. (size) 1=4-7-13, 3=4-7-13, 4=4-7-13

Max Horz 1=-67(LC 4) Max Uplift 1=-35(LC 9), 3=-25(LC 9)

Max Grav 1=106(LC 1), 3=122(LC 1), 4=134(LC 1)

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

NOTES-

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

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

3) Gable requires continuous bottom chord bearing.

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

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 35 lb uplift at joint 1 and 25 lb uplift at joint 3.

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



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BRACING-

TOP CHORD

BOT CHORD

NOTES-

LUMBER-

OTHERS

BOT CHORD

REACTIONS.

TOP CHORD

TOP CHORD 2x4 SPF No.2

(lb) -

2x4 SPF No.2

2x4 SPF No.2

1-2=-251/125

All bearings 9-2-5.

Max Horz 1=179(LC 8)

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) All plates are 2x4 MT20 unless otherwise indicated.

5) Gable requires continuous bottom chord bearing.

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

Max Uplift All uplift 100 lb or less at joint(s) 1, 7, 9, 11, 10, 8 except 12=-167(LC 8)

Max Grav All reactions 250 lb or less at joint(s) 1, 7, 9, 12, 11, 10, 8

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

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.

 Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 7, 9, 11, 10, 8 except (jt=lb) 12=167.

9) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 7, 8.

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

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

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

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





LL	JM	BF	R-

BCDL

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

10.0

 BRACING

 TOP CHORD
 Structural wood sheathing directly applied or 4-9-6 oc purlins, except end verticals, and 2-0-0 oc purlins: 1-4.

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

REACTIONS. All bearings 4-9-6.

(lb) - Max Horz 8=-72(LC 4)

Max Uplift All uplift 100 lb or less at joint(s) 8, 5, 7, 6 Max Grav All reactions 250 lb or less at joint(s) 8, 5, 7, 6

Code IRC2018/TPI2014

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

NOTES-

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

Matrix-S

2) Provide adequate drainage to prevent water ponding

3) Gable requires continuous bottom chord bearing.

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

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

6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 8, 5, 7, 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.

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



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FT = 10%

Weight: 16 lb





LOADING (psf) TCLL 25.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING-2-0-0Plate Grip DOL1.15Lumber DOL1.15Rep Stress IncrYESCodeIRC2018/TPI2014	CSI. TC 0.07 BC 0.03 WB 0.12 Matrix-S	DEFL.inVert(LL)n/aVert(CT)n/aHorz(CT)0.00	(loc) l/defl - n/a - n/a 7 n/a	L/d 999 999 n/a	PLATES MT20 Weight: 57 lb	GRIP 197/144 FT = 10%
LUMBER-			BRACING-				

TOP CHORD2x4 SPF No.2BOT CHORD2x4 SPF No.2OTHERS2x4 SPF No.2

BRACING-TOP CHORD BOT CHORD

Structural wood sheathing directly applied or 6-0-0 oc purlins. Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 7-8.

REACTIONS. All bearings 10-7-11.

(lb) - Max Horz 1=347(LC 8)

Max Uplift All uplift 100 lb or less at joint(s) 11 except 1=-140(LC 6), 7=-125(LC 5), 10=-191(LC 8), 12=-177(LC 8), 13=-174(LC 8), 8=-109(LC 9)

Max Grav All reactions 250 lb or less at joint(s) 7, 11, 9, 10, 12, 13, 8 except 1=349(LC 8)

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

TOP CHORD 1-2=-450/230, 2-3=-283/159

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) 11 except (jt=lb) 1=140, 7=125, 10=191, 12=177, 13=174, 8=109.

8) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 7, 9, 10, 8.

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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<u> </u>	2-11-6	7-8-12				11	-8-0	
						3-	11-4	
Plate Offsets (X,Y)	[2:0-1-1,0-2-8], [5:0-1-3,0-3-10], [7:0-0-0	1,0-3-10], [7:Edge,0-7-4]						
LOADING (psf) TCLL 25.0 TCDL 10.0 BCLL 0.0 BCDL 10.0	SPACING-2-0-0Plate Grip DOL1.15Lumber DOL1.15Rep Stress IncrNOCodeIRC2018/TPI2014	CSI.DEFTC0.80VertBC0.58VertWB0.09Hor:Matrix-SWin	EL. ir (LL) -0.11 (CT) -0.22 2(CT) 0.02 d(LL) 0.10	n (loc) 8-9 8-9 8-9 7 8-9	l/defl >999 >614 n/a >999	L/d 360 240 n/a 240	PLATES MT20 Weight: 39 lb	GRIP 197/144 FT = 10%
LUMBER- TOP CHORD 2x4 SP 3-4: 2x BOT CHORD 2x4 SP WEBS 2x3 SP 2-10: 2	F 2100F 1.8E *Except* 4 SPF No.2 F 2100F 1.8E F No.2 *Except* x6 SP DSS, 5-7: 2x8 SP DSS	BRA TOP BOT	CING- CHORD CHORD	Structu except Rigid co	ral wood s end vertic eiling direc	heathing dire als, and 2-0-0 ctly applied or	ctly applied or 4-11-;) oc purlins (3-11-0 n 10-0-0 oc bracing.	2 oc purlins, nax.): 3-4.
REACTIONS. (size Max H Max U Max G	e) 10=0-3-8, 7=0-3-8 orz 10=-24(LC 6) plift 10=-202(LC 4), 7=-235(LC 5) rav 10=900(LC 1), 7=892(LC 1)						IN EOF	MISS
FORCES.(lb) - Max.TOP CHORD2-3=-BOT CHORD9-10=WEBS3-8=-	Comp./Max. Ten All forces 250 (lb) or 1197/274, 3-4=-1234/314, 4-5=-1384/31 -198/1025, 8-9=-201/1017, 7-8=-252/12 71/256	less except when shown. 6, 2-10=-739/174, 5-7=-747/222 41					GA	UAN RCIA
NOTES- 1) Unbalanced roof live 2) Wind: ASCE 7-16; V MWFRS (envelope) grip DOL=1.60 3) Provide adequate dr 4) This truss has been 5) * This truss has been will fit between the b	loads have been considered for this de ult=115mph (3-second gust) Vasd=91m gable end zone; cantilever left and right ainage to prevent water ponding. designed for a 10.0 psf bottom chord live n designed for a live load of 20.0psf on t ottom chord and any other members.	sign. ph; TCDL=6.0psf; BCDL=6.0psf; h= exposed ; end vertical left and right e load nonconcurrent with any other he bottom chord in all areas where a	25ft; Cat. II; E exposed; Lur live loads. rectangle 3-	Exp C; En nber DOI 6-0 tall b <u>i</u>	uclosed; L=1.60 pla y 2-0-0 wic	te de	PHOLE-200	MBER 0162101
 Provide mechanical 10=202, 7=235. This truss is designe referenced standard Graphical purlin repr Hanger(s) or other c 2-11-6, 82 lb down a chord, and 175 lb down 7-8-0 on bottom cho In the LOAD CASE 	d in accordance with the 2018 Internatio ANSI/TPI 1. esentation does not depict the size or th onnection device(s) shall be provided su and 67 lb up at 5-0-14, and 82 lb down a wn and 64 lb up at 2-11-6, 32 lb down a rd. The design/selection of such connection (s) section, loads applied to the face of	g plate capable of withstanding 100 onal Residential Code sections R502 e orientation of the purlin along the ifficient to support concentrated load and 67 lb up at 7-0-14, and 82 lb dow at 5-0-14, and 32 lb down at 7-0-14 tion device(s) is the responsibility of the truss are noted as front (F) or ba	Ib uplift at join .11.1 and R8 top and/or bo (s) 77 lb dow wn and 67 lb , and 217 lb do others. uck (B).	nt(s) exce 02.10.2 a ttom choi n and 67 up at 7-8 down and	ept (jt=lb) and rd. Ib up at 3-12 on top I 72 lb up a	D at	THE PROPERTY OF	GARCIA ENSED
1) Dead + Roof Live (b	dard alanced): Lumber Increase=1.15, Plate I	ncrease=1.15					11,8310	NAL ENTIT

May 22,2020

MiTek 16023 Swingley Ridge Rd Chesterfield, MO 63017

Continued on page 2

	lob	Truss	Truss Type	Qty	Ply	Lot 23 RT
						141405948
ŀ	100311	M1	Hip Girder	1	1	
						Job Reference (optional)
	Wheeler Lumber, Wav	erly, KS 66871			8.240 s Ma	r 9 2020 MiTek Industries, Inc. Fri May 22 11:55:53 2020 Page 2

8.240 s Mar 9 2020 MiTek Industries, Inc. Fri May 22 11:55:53 2020 Page 2 ID:M6_qRERj_ax8BApGKEbrTSyOHsj-uOh3jBfXTZnThDaN7MoqP28d58C5HOhL?MQ7N7zDyVa

LOAD CASE(S) Standard

Uniform Loads (plf)

Vert: 1-2=-70, 2-3=-70, 3-4=-70, 4-5=-70, 5-6=-70, 7-10=-20

Concentrated Loads (lb) Vert: 3=-48(B) 4=-48(B) 9=-175(B) 8=-217(B) 11=-48(B) 12=-48(B) 13=-23(B) 14=-23(B)





	4-5-10	1-4-0			5-10-0		
Plate Offsets (X,Y)	[1:0-0-12,0-1-12], [4:0-0-9,0-1-12], [5:0-	0-0,0-1-12], [8:0-0-0,0-1-12]					
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 0.39	Vert(LL) -0	.07 6-7	>999 360	MT20	197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.49	Vert(CT) -0	.12 6-7	>999 240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.09	Horz(CT) 0	.01 5	n/a n/a		
BCDL 10.0	Code IRC2018/TPI2014	Matrix-S	Wind(LL) 0	.04 6-7	>999 240	Weight: 34 lb	FT = 10%

LUMBER-

TOP CHORD 2x4 SPF No.2 BOT CHORD 2x4 SPF No.2 WEBS 2x3 SPF No.2 *Except* 1-8: 2x4 SPF No.2, 4-5: 2x4 SPF 2100F 1.8E

BRACING-TOP CHORD

BOT CHORD

Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 2-3. Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 8=0-3-8, 5=0-3-8 Max Horz 8=-24(LC 6) Max Uplift 8=-54(LC 8), 5=-81(LC 5) Max Grav 8=512(LC 1), 5=512(LC 1)

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

 TOP CHORD
 1-2=-649/98, 2-3=-619/136, 3-4=-717/110, 1-8=-412/81, 4-5=-426/113

BOT CHORD 7-8=-38/534, 6-7=-40/535, 5-6=-66/617

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.

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

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



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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 sand truss systems, see **ANSVTPTI Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

16023 Swingley Ridge Rd Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Lot 23 RT	
					1414059	950
400311	R1	Flat Girder	1	2		
				-	Job Reference (optional)	
Wheeler Lumber, Wave	erly, KS 66871			8.240 s Ma	ar 9 2020 MiTek Industries, Inc. Fri May 22 11:55:55 2020 Page 2	2

ID:M6_qRERj_ax8BApGKEbrTSyOHsj-qmoq8sgn?A1BwXklEnqIUTD?sx_PIITeSgvER0zDyVY

LOAD CASE(S) Standard Concentrated Loads (Ib)

Vert: 5=-358 6=-357 7=-333





DADING (psf) CLL 25.0 CDL 10.0	SPACING-2-0-0Plate Grip DOL1.15Lumber DOL1.15Pop Strace LacrVES	CSI. TC 0.71 BC 0.38	DEFL. Vert(LL) Vert(CT)	in (lo n/a n/a	oc) l/defl - n/a - n/a	L/d 999 999 p/a	PLATES MT20	GRIP 197/144
CDL 10.0	Code IRC2018/TPI2014	Matrix-P	HUIZ(CT)	-0.00	5 11/a	II/d	Weight: 17 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. 1=6-9-6, 3=6-9-6 (size) Max Horz 1=109(LC 5) Max Uplift 1=-39(LC 8), 3=-61(LC 8) Max Grav 1=269(LC 1), 3=269(LC 1)

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

NOTES-

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

2) Gable requires continuous bottom chord bearing.

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



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Structural wood sheathing directly applied or 6-10-0 oc purlins,

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

except end verticals.





OADING (psf) TCLL 25.0 TCDL 10.0 SCLL 0.0	SPACING-2-0-0Plate Grip DOL1.15Lumber DOL1.15Rep Stress IncrYES	CSI. TC 0.37 BC 0.20 WB 0.00	DEFL. Vert(LL) n Vert(CT) n Horz(CT) -0.0	n (loc) a - a - 0 - 3	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20	GRIP 197/144
3CDL 10.0	Code IRC2018/TPI2014	Matrix-P			1/a	n/a	Weight: 13 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. 1=5-2-13, 3=5-2-13 (size) Max Horz 1=81(LC 5) Max Uplift 1=-29(LC 8), 3=-45(LC 8) Max Grav 1=199(LC 1), 3=199(LC 1)

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

NOTES-

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

2) Gable requires continuous bottom chord bearing.

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



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Structural wood sheathing directly applied or 5-3-6 oc purlins,

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

except end verticals.





2x4 💋

2x4

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. ii	n (loc)	l/defl	L/d	PLATES GRIP
TCLL 25.0	Plate Grip DOL 1.1	TC 0.14	Vert(LL) n/a	ı -	n/a	999	MT20 197/144
ГCDL 10.0	Lumber DOL 1.1	BC 0.08	Vert(CT) n/a	ı -	n/a	999	
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT) -0.00	3	n/a	n/a	
3CDL 10.0	Code IRC2018/TPI2014	Matrix-P					Weight: 9 lb FT = 10%
	No 2		BRACING-	Struct	ural wood	sheathing di	rectly applied or 3-8-3 oc purlins

BOT CHORD

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

REACTIONS. (size) 1=3-7-10, 3=3-7-10 Max Horz 1=52(LC 5) Max Uplift 1=-19(LC 8), 3=-29(LC 8)

Max Grav 1=127(LC 1), 3=127(LC 1)

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

NOTES-

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

2) 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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Plate Offsets (X,Y)	[2:0-1-4,0-0-8], [2:Edge,0-1-14], [3:0-1-4	,0-0-0]			
LOADING (psf) TCLL 25.0 TCDL 10.0 BCLL 0.0 *	SPACING-2-0-0Plate Grip DOL1.15Lumber DOL1.15Rep Stress IncrYES	CSI. TC 0.02 BC 0.01 WB 0.00	DEFL. in (loc) Vert(LL) n/a - Vert(CT) n/a - Horz(CT) -0.00 3	l/defl L/d n/a 999 n/a 999 n/a n/a	PLATES GRIP MT20 197/144
BCDL 10.0	Code IRC2018/TPI2014	Matrix-P			Weight: 4 lb FT = 10%
LUMBER- TOP CHORD 2x4 SP BOT CHORD 2x4 SP	/ /F No.2 /F No.2		BRACING- TOP CHORD Structur except 6	ral wood sheathing dire end verticals.	ctly applied or 2-1-0 oc purlins,

except end verticals. BOT CHORD

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

REACTIONS. (size) 1=2-0-6, 3=2-0-6

2x3 SPF No.2

Max Horz 1=23(LC 5) Max Uplift 1=-8(LC 8), 3=-13(LC 8) Max Grav 1=55(LC 1), 3=55(LC 1)

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

NOTES-

WEBS

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) 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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LOADING TCLL TCDL BCLL	(psf) 25.0 10.0	SPACING- 2 Plate Grip DOL Lumber DOL Rep Stress Incr	2-0-0 1.15 1.15 VES	CSI. TC 0 BC 0).21).11	DEFL. Vert(LL) Vert(CT)	in n/a n/a	(loc) - -	l/defl n/a n/a	L/d 999 999	PLATES MT20	GRIP 197/144
BCDL	10.0	Code IRC2018/TPI2	014	Matrix-F	>	11012(01)	0.00	-	n/a	1/4	Weight: 21 lb	FT = 10%
LUMBER- TOP CHOP BOT CHOP	RD 2x4 SPI RD 2x4 SPI	F No.2 F No.2				BRACING- TOP CHOR	D	Structur except e	al wood s	sheathing dire	ectly applied or 6-0-0	oc purlins,

BOT CHORD

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

WEBS 2x3 SPF No.2 OTHERS 2x3 SPF No.2

REACTIONS. (size) 1=8-3-4, 4=8-3-4, 5=8-3-4

Max Horz 1=109(LC 5) Max Uplift 1=-1(LC 4), 4=-24(LC 8), 5=-98(LC 8) Max Grav 1=108(LC 1), 4=137(LC 1), 5=411(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. 2-5=-320/153WEBS

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, 5.

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

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_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	0.54	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		
3CDL 10.0	Code IRC2018/T	PI2014	Matrix	ι-P						Weight: 15 lb	FT = 10%
UMBER-			1		BRACING-		_				
OP CHORD 2x4 SPF No.2				TOP CHORD Structural wood sheathing directly applied or 6-4-0 oc purlins,					oc purlins,		

BOT CHORD

except end verticals.

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

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

REACTIONS. (size) 1=6-3-4, 3=6-3-4 Max Horz 1=79(LC 5) Max Uplift 1=-39(LC 4), 3=-51(LC 8) Max Grav 1=238(LC 1), 3=238(LC 1)

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

NOTES-

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

2) 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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2x4 ||

except end verticals.

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

Vert(CT) n/a - n/a 999 Horz(CT) -0.00 3 n/a n/a	
BRACING-	Weight: 12 lb FT = 10%
	BRACING- TOP CHORD Structural wood sheathing dire

BOT CHORD

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

REACTIONS. (size) 1=5-3-12, 3=5-3-12

Max Horz 1=65(LC 5) Max Uplift 1=-32(LC 4), 3=-42(LC 8)

Max Grav 1=195(LC 1), 3=195(LC 1)

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

NOTES-

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

2) 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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2x4 ||

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

except end verticals.

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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 IncrYESCodeIRC2018/TPI2014	CSI. TC 0.14 BC 0.08 WB 0.00 Matrix-P	DEFL. in (loc) l/defl L/d Vert(LL) n/a - n/a 999 Vert(CT) n/a - n/a 999 Horz(CT) - 0.00 3 n/a n/a	PLATES GRIP MT20 197/144 Weight: 8 lb FT = 10%
LUMBER- TOP CHORD 2x4 SP	F No.2		BRACING- TOP CHORD Structural wood sheathing dir	ectly applied or 3-10-11 oc purlins,

BOT CHORD

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

REACTIONS. (size) 1=3-9-15, 3=3-9-15 Max Horz 1=43(LC 5) Max Uplift 1=-21(LC 4), 3=-27(LC 8) Max Grav 1=128(LC 1), 3=128(LC 1)

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

NOTES-

 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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