January 13, 2021

#### **RELEASE FOR** CONSTRUCTION **AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES** LEE'S SUMMIT, MISSOURI

02/12/2021

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

RE: 210213 Lot 80 W0

## Site Information:

Customer: Project Name: 210213 Lot/Block: Address: City:

Model: Subdivision: State:

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

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

Design Program: MiTek 20/20 8.4 Wind Speed: 115 mph Floor Load: N/A psf

This package includes 75 individual, dated Truss Design Drawings and 0 Additional Drawings.

No.	Seal#	Truss Name	Date	No.	Seal#	Truss Name	Date
1	144330838	A1	1/13/2021	21	144330858	D4	1/13/2021
2	144330839	A2	1/13/2021	22	144330859	D5	1/13/2021
3	144330840	A3	1/13/2021	23	144330860	D6	1/13/2021
4	144330841	A4	1/13/2021	24	144330861	D7	1/13/2021
5	144330842	A5	1/13/2021	25	144330862	E1	1/13/2021
6	144330843	A6	1/13/2021	26	144330863	E2	1/13/2021
7	144330844	A7	1/13/2021	27	144330864	E3	1/13/2021
8	144330845	A8	1/13/2021	28	144330865	E4	1/13/2021
9	144330846	B1	1/13/2021	29	144330866	E5	1/13/2021
10	144330847	B2	1/13/2021	30	144330867	G1	1/13/2021
11	144330848	B3	1/13/2021	31	144330868	G2	1/13/2021
12	144330849	B4	1/13/2021	32	144330869	G3	1/13/2021
13	144330850	B5	1/13/2021	33	144330870	G4	1/13/2021
14	l44330851	C1	1/13/2021	34	144330871	H1	1/13/2021
15	144330852	C2	1/13/2021	35	144330872	H2	1/13/2021
16	144330853	C3	1/13/2021	36	144330873	H3	1/13/2021
17	144330854	C4	1/13/2021	37	144330874	H4	1/13/2021
18	144330855	D1	1/13/2021	38	144330875	J1	1/13/2021
19	144330856	D2	1/13/2021	39	144330876	J2	1/13/2021
20	144330857	D3	1/13/2021	40	144330877	J3	1/13/2021

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

based on the parameters provided by Wheeler - Waverly.

Truss Design Engineer's Name: Garcia, Juan

My license renewal date for the state of Kansas is April 30, 2022.

Kansas COA: E-943

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



Garcia, Juan

**iTek** 



## RE: 210213 - Lot 80 W0

# Site Information:

Project Customer: Project Name: 210213	
Lot/Block:	
Address:	
City, County:	

No.	Seal#	Truss Name	Date
41	144330878	J4	1/13/2021
42	144330879	J5	1/13/2021
43	144330880	J7	1/13/2021
44	144330881	J8	1/13/2021
45	144330882	J9	1/13/2021
46	144330883	J10	1/13/2021
47	144330884	J11	1/13/2021
48	144330885	J12	1/13/2021
49	144330886	J13	1/13/2021
50	144330887	J14	1/13/2021
51	144330888	J15	1/13/2021
52	144330889	J16	1/13/2021
53	144330890	J17	1/13/2021
54	144330891	J18	1/13/2021
55	144330892	J19	1/13/2021
56	144330893	J20	1/13/2021
57	144330894	J21	1/13/2021
58	144330895	LAY1	1/13/2021
59	144330896	LAY2	1/13/2021
60	144330897	LAY3	1/13/2021
61	144330898	LAY4	1/13/2021
62	144330899	LAY5	1/13/2021
63	144330900	LAY6	1/13/2021
64	144330901	LAY7	1/13/2021
65	144330902	LAY8	1/13/2021
66	144330903	V1	1/13/2021
67	144330904	V2	1/13/2021
68	144330905	V3	1/13/2021
69	144330906	V4	1/13/2021
70	144330907	V5	1/13/2021
71	144330908	V6	1/13/2021
72	144330909	V7	1/13/2021
73	144330910	V8	1/13/2021
74	144330911	V9	1/13/2021
75	144330912	V10	1/13/2021

02/12/2021

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

Subdivision:

State:

RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI

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RE: 210213 Lot 80 W0

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

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This package includes 75 individual, dated Truss Design Drawings and 0 Additional Drawings.

No. 1 2 3 4 5 6 7 8 9 10 11 23 14 15 6	Seal# I44330838 I44330839 I44330840 I44330841 I44330842 I44330843 I44330845 I44330845 I44330845 I44330847 I44330847 I44330848 I44330850 I44330851 I44330852 I44330853	Truss Name A1 A2 A3 A4 A5 A6 A7 A8 B1 B2 B3 B4 B5 C1 C2 C3	Date 1/13/2021 1/13/2021 1/13/2021 1/13/2021 1/13/2021 1/13/2021 1/13/2021 1/13/2021 1/13/2021 1/13/2021 1/13/2021 1/13/2021 1/13/2021 1/13/2021	No. 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36	Seal# I44330858 I44330859 I44330860 I44330861 I44330862 I44330863 I44330865 I44330865 I44330866 I44330867 I44330868 I44330870 I44330871 I44330872 I44330872 I44330873	Truss Name D4 D5 D6 D7 E1 E2 E3 E4 E5 G1 G2 G3 G4 H1 H2 H3	Date 1/13/2021 1/13/2021 1/13/2021 1/13/2021 1/13/2021 1/13/2021 1/13/2021 1/13/2021 1/13/2021 1/13/2021 1/13/2021 1/13/2021 1/13/2021 1/13/2021
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20	144330857	D3	1/13/2021	40	144330877	J3	1/13/2021

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

based on the parameters provided by Wheeler - Waverly.

Truss Design Engineer's Name: Garcia, Juan

My license renewal date for the state of Missouri is December 31, 2022. Missouri COA: 001193

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



Garcia, Juan



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74	144330911	V9	1/13/2021
75	144330912	V10	1/13/2021

02/12/2021

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

Subdivision:

State:



Loading (psf)         SPACING-         2-0-0         CSI.         DEFL.         in         (loc)         l/defl         L/d           TCLL         25.0         Plate Grip DOL         1.15         TC         0.50         Vert(LL)         -0.12         9         9999         360         MT20         197/144           TCDL         10.0         Lumber DOL         1.15         TC         0.56         Vert(CT)         -0.23         9-10         >9999         240           BCLL         0.0 *         Rep Stress Incr         NO         WB         0.59         Horz(CT)         0.04         7         n/a         n/a	·
Plate Offsets (X,Y)         [1:Edge,0-5-13], [2:0-3-5,Edge], [4:0-3-5,Edge], [7:Edge,0-5-13], [8:0-2-8,0-1-8]         Defense         in         (loc)         I/defi         L/d         PLATES         GRIP           LOADING (psf)         SPACING-         2-0-0         CSI.         DEFL.         in         (loc)         I/defi         L/d         PLATES         GRIP           TCLL         25.0         Plate Grip DOL         1.15         TC         0.50         Vert(LL)         -0.12         9         >999         360         MT20         197/144           TCDL         10.0         Lumber DOL         1.15         BC         0.66         Vert(CT)         -0.23         9-10         >999         240         MT20         197/144           BCCLL         0.0 *         Rep Stress Inor         NO         WB         0.59         Horz(CT)         0.04         7         n/a         n/a	
LOADING (psf)         SPACING-         2-0-0         CSI.         DEFL.         in         (loc)         l/defl         L/d         PLATES         GRIP           TCLL         25.0         Plate Grip DOL         1.15         TC         0.50         Vert(LL)         -0.12         9         >999         360         MT20         197/144           TCDL         10.0         Lumber DOL         1.15         BC         0.66         Vert(CT)         -0.23         9-10         >999         240           BCLL         0.0         *         Rep Stress Incr         NO         WB         0.59         Horz(CT)         0.04         7         n/a         n/a           POPN         100         Units         Units         0.00         *         0.00         *         0.00         *         0.00         *         0.00         *         0.00         *         0.00         *         0.00         *         0.00         *         0.00         *         0.00         *         0.00         *         0.00         *         0.00         *         0.00         *         0.00         *         0.00         *         0.00         *         0.00         *         0.00 </td <td></td>	
: 10.0 Code IRC2018/TPI2014 Matrix-S Wind(LL) 0.09 9 >999 240 Weight: 70 lb FT = 1 الالتكاريكا الكانيك المناط	0%
LUMBER-     BRACING-       TOP CHORD     2x4 SPF No.2 *Except*     TOP CHORD     Structural wood sheathing directly applied or 3-9-5 oc purlins, except end verticals, and 2-0-0 oc purlins (4-0-10 max.): 2-4.       BOT CHORD     2x4 SPF No.2     BOT CHORD     Rigid ceiling directly applied or 10-0-0 oc bracing.       WEBS     2x3 SPF No.2 *Except* 1-11,5-7: 2x4 SPF No.2     BOT CHORD     Rigid ceiling directly applied or 10-0-0 oc bracing.	
REACTIONS.       (size)       11=Mechanical, 7=0-3-8         Max Horz       11=-57(LC 4)         Max Uplift       11=-191(LC 8), 7=-215(LC 9)         Max Grav       11=1368(LC 1), 7=1443(LC 1)	0.11
FORCES.         (lb) - Max. Comp./Max. Ten All forces 250 (lb) or less except when shown.           TOP CHORD         1-2=-2182/334, 2-3=-2953/469, 3-4=-2953/469, 4-5=-2177/335, 1-11=-1329/203,           571404/227         JUAN	
BOT CHORD 9-10=-292/1904, 8-9=-260/1893 WEBS 2-9=-198/1187, 3-9=-701/257, 4-9=-199/1194, 1-10=-255/1712, 5-8=-256/1669	*
<ul> <li>NOTES-         <ol> <li>Unbalanced roof live loads have been considered for this design.</li> <li>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</li> <li>Provide adequate drainage to prevent water ponding.</li> <li>This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.</li> </ol> </li> </ul>	1. ON
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.	11.
<ul> <li>b) Refer to girder(s) for truss to truss connections.</li> <li>7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 191 lb uplift at joint 11 and 215 lb uplift at joint 7.</li> </ul>	Aller
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.	N B
<ul> <li>9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.</li> <li>10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 82 lb down and 52 lb up at 4-1-4, 89 lb down and 52 lb up at 6-0-0, 89 lb down and 52 lb up at 12-0-0, and 89 lb down and 52 lb up at 12-0-0, and 89 lb down and 52 lb up at 14-0-0, and 82 lb down and 52 lb up at 12-0-0, and 89 lb down and 52 lb down at 52 lb up at 4-1-4, 35 lb down at 6-0-0, 35 lb down at 8-0-0, 35 lb down at 10-0-0, 35 lb down at 12-0-0, and 35 lb down at 14-0-0, and 233 lb down and 78 lb up at 15-10-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.</li> </ul>	Net I I I I I I I I I I I I I I I I I I I
11) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B). January 13,2	021

Nitek° 16023 Swingley Ridge Rd Chesterfield, MO 63017

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

						RELEASE FOR
Job	Truss	Truss Type	Qty	Ply	Lot 80 W0	CONSTRUCTION
210213	A1	Hip Girder	1	1		AS NOTED ON PLANS REVIEW
210210					Job Reference (opt	onal) DEVELOPMENT SERVICES
Wheeler Lumber, Wav	erly, KS - 66871,		8.	430 s Nov	30 2020 MiTek Indu	stries, Inc.LEE'SaSUMM606M055944R2
		ID:hqu	Pfxpp0Cdl	NHWhMuF	vizeLzNEki-nP6o2pe	JM?sb1sSHX0LIYF_t9oOvIpJK8A9Cc9zw36F
						02/12/2021
<ol> <li>LOAD CASE(S) Standard</li> <li>Dead + Roof Live (balar</li> </ol>	ced): 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=-54(F) 4=-54(F) 10=-233(F) 9=-25(F) 3=-54(F) 8=-233(F) 12=-54(F) 13=-54(F) 14=-54(F) 15=-54(F) 16=-25(F) 17=-25(F) 18=-25(F) 19=-25(F) 12=-54(F) 12=-54(F) 12=-54(F) 15=-54(F) 15=-54(F) 16=-25(F) 16=

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	L	4-1-4		9-1-4	14-1-4	16-1-4		23-10-12		30-0-0		4
Plate Offsets ()	X.Y)	<u>4-1-4</u> [3:0-4-0.0-1	-15]. [5:0-6	-0.0-2-5]. [6:0-5-0	5-0-0 ).0-1-7]. [7:0-4-8.0-1-11].	<u>2-0-0</u> [10:0-3-12.0-6-4].	[12:0-2-8.0	7-9-8 0-1-12], [15:0-	2-8.0-3-0]. [1	6:0-3-4.0-2-4]		
	,,,,,,	[0.0 1 0,0 1	, [0.0 0	0,0 2 0], [0.0 0 0	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	[10.0 0 12,0 0 1],	[12.0 2 0,0	<u>o i i2j, [i0.0</u>	2 0,0 0 0], [1			
LOADING (ps	sf)	SPA	CING-	2-0-0	CSI.	DEFL.	in (l	oc) l/defl	L/d	PLATES	GRIP	
TCLL 25.	.0	Plate	e Grip DOL	1.15	TC 0.94	Vert(LL)	-0.38 12-	-14 >941	360	MT20	197/144	
TCDL 10.	.0	Lum	ber DOL	1.15	BC 0.80	Vert(CT)	-0.67 12-	-14 >526	240	M18SHS	197/144	
BCLL 0.	.0 *	Rep	Stress Incr	NO	WB 0.88	Horz(CT)	0.09	10 n/a	n/a			- <i>i</i>
BCDL 10.	.0	Code	a IRC2018/	TPI2014	Matrix-S	Wind(LL)	0.27 12-	-14 >999	240	Weight: 141 lb	$FI = 10^{\circ}$	%
LUMBER- TOP CHORD BOT CHORD WEBS	2x4 SP 3-5: 2x4 2x6 SP 10-13: 1 2x3 SP	F No.2 *Ex 4 SPF 2100 DSS *Exce 2x6 SPF 16 F No.2 *Exc 4 4 4 4 20	cept* )F 1.8E, 6-7 эpt* 350F 1.4E cept*	2 40: 2:4 SPF 2400F	2.0E	BRACING- TOP CHOF BOT CHOF WEBS	2D Stu ex 2D Riq 1 F	ructural wood cept end verti gid ceiling dire Row at midpt	sheathing dii cals, and 2-0 ectly applied 6 6	rectly applied or 1-11-7 I-0 oc purlins (2-2-10 m or 9-1-14 oc bracing. S-11	′ oc purlins, lax.): 3-5, 6-	7.
	3-14,5-	14,6-11: 2x	4 SPF No.2	2, 2-16: 2x8 SP D	SS, 8-10: 2x6 SPF No.2							
REACTIONS.	(size) Max H Max U Max G	e) 16=0-3 orz 16=-66 plift 16=-39 rav 16=241	-8 (req. 0-3 (LC 27) 9(LC 8), 10 12(LC 1), 1(	8-13), 10=0-3-8 =-200(LC 4) 0=1771(LC 1)						INTE OF	MISS	
FORCES (Ib	) - Max	Comp /May	(Ten - All	forces 250 (lb) or	less excent when shown					SAL		· D-
TOP CHORD	2-3=-	3729/590. 3	3-4=-6385/1	004. 4-5=-6384/1	004. 5-6=-4937/717. 6-7	=-2457/363.				JL	JAN	100
	7-8=-	2860/379, 2	2-16=-2238/	/394, 8-10=-1681/	/222	,				GA	RCIA	***
BOT CHORD	15-16	=-190/858,	14-15=-512	2/3297, 12-14=-8	50/6233, 11-12=-555/436	1, 10-11=-167/77	)					
WEBS	3-14=	-554/3434,	4-14=-618/	/217, 5-14=-544/6	616, 5-12=-2928/521, 6-12	2=-339/2573,				-D: NILIN		· a -
	6-11=	-2161/350,	7-11=-37/7	'87, 2-15=-381/24	61, 8-11=-208/1763					-D: - 000		41-
NOTES-										-2000	102101	:2:
1) Unbalanced	roof live	loads have	e been cons	idered for this de	sian					1.50.	-	
2) Wind: ASCE	E 7-16; V	ult=115mph	n (3-second	gust) Vasd=91m	ph; TCDL=6.0psf; BCDL=	=6.0psf; h=25ft; Ca	at. II; Exp (	C; Enclosed;		IS/ON	IN EN	1
MWFRS (en	nvelope)	gable end z	zone; cantile	ever left and right	exposed ; end vertical le	ft and right expose	d; Lumber	r DOL=1.60 pl	ate		ALIN	
grip DOL=1.	.60											
<ol> <li>Provide ade</li> </ol>	equate dr	ainage to p	revent wate	r ponding.							IIIII.	
4) All plates are	e MI20	plates unles	ss otherwise	e indicated.		a na sa ta sa ta sa ta sa ta sa	da			AL AN	GARO	1,
<ol> <li>a) This truss has</li> <li>b) * This truss</li> </ol>	as been	designed to	for a live lo	ad of 20 Opef on t	be bottom chord in all are	any other live loa	ius. 1alo 3-6-0 t	tall by 2-0-0 w	ide	N. 70.		111
will fit betwe	en the h	ottom chore	d and any o	ther members			igie 5-0-0 i	tall by 2-0-0 w	iue	0	ENSE	1
7) WARNING:	Require	d bearing si	ize at joint(s	s) 16 greater than	input bearing size.					- 5 / * -	$\sim$	N 8.
8) Provide med	chanical	connection	(by others)	of truss to bearin	g plate capable of withsta	anding 399 lb uplif	at joint 16	6 and 200 lb u	plift			1 5
at joint 10.										= 16	5952	
9) This truss is	s designe	d in accord	ance with th	ne 2018 Internatio	onal Residential Code sec	ctions R502.11.1 a	nd R802.1	10.2 and		- 0:	Λ	: œ =
10) Graphical r	standard purlin rer	ANSI/TPTT	i. Ndoes not r	lenict the size or	the orientation of the purl	in along the top ar	d/or bottor	m chord		E P.	J.	145
11) Hanger(s)	or other	connection	device(s) s	hall be provided s	sufficient to support conce	entrated load(s) 10	14 lb down	and 52 lb up	at		NSAS	2.5
4-1-4, 104	lb down	and 52 lb u	up at 5-0-0,	and 104 lb down	and 52 lb up at 7-0-0, ar	nd 104 lb down an	d 52 lb up	at 9-0-0 on to	р	15850	EN	2.11
chord, and	233 lb d	lown and 78	3 lb up at 4	-1-4, 35 lb down a	at 5-0-0, 35 lb down at 7	'-0-0, and 35 lb do	wn at 9-0-	-0, and 848 lb	down		NALE	N
and 171 lb	up at 9	11-4 on bo	ttom chord.	The design/sele	ction of such connection	device(s) is the re	sponsibility	/ of others.		201		
12) In the LOA	AD CASE	(S) section,	, loads appl	ied to the face of	the truss are noted as fro	ont (⊢) or back (B).				Janua	ry 13,202	21
LOAD CASE(S	age 2 S) Stand	lard										
WARNIN	NG - Verify of	lesign paramet	ters and READ	NOTES ON THIS AND	INCLUDED MITEK REFERENC	E PAGE MII-7473 rev.	5/19/2020 BEF	FORE USE.				
Design valio	d for use or	nly with MiTek	B connectors.	This design is based o	only upon parameters shown, an	d is for an individual bu	ilding compo	nent, not				
building des	sign. Braci	ng indicated is	to prevent but	ckling of individual trus	s web and/or chord members or	nly. Additional tempora	ry and perma	anent bracing		MiTek		
is always re fabrication	equired for storage de	stability and to	prevent collap	se with possible perso	onal injury and property damage	. For general guidance	regarding the	e Si Building Comr	onent	16023 Swingle	v Ridae Rd	
Safety Infor	rmation a	vailable from T	Truss Plate Ins	titute, 2670 Crain High	hway, Suite 203 Waldorf, MD 20	601	55 anu 103	a salialing comp	onom	Chesterfield, N	10 63017	

							RELEASE FOR
Jo	b	Truss	Truss Type	Qty	Ply	Lot 80 W0	CONSTRUCTION
21	0213	Δ2	Roof Special Girder	1	1		AS NOTED ON PLANS REVIEW
	0210	712				Job Reference (opt	ional) DEVELOPMENT SERVICES
1	Wheeler Lumber, Wave	erly, KS - 66871,		8	.430 s Nov	30 2020 MiTek Indu	stries, Inc.LEE'SaSUMW6008M05504982
			ID:hquP	fxpp0CdN	IHWhMuPiz	zeLzNEki-knEZTVfa	ud6JGAcfeRODdg36kb2FmfCdbUeJh2zw36D
	0 A D 0 A O E (0) O (and and	02/12/2021					
1	) Dead + Roof Live (balan	ced): Lumber Increase=1.15	, Plate Increase=1.15				

Uniform Loads (plf) Vert: 1-2=-70, 2-3=-70, 3-5=-70, 5-6=-70, 6-7=-70, 7-8=-70, 8-9=-70, 10-16=-20

Concentrated Loads (lb)

Vert: 3=-54(F) 15=-233(F) 14=-25(F) 4=-54(F) 17=-54(F) 18=-54(F) 19=-25(F) 20=-25(F) 21=-848(F)

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L	6-1-4	16-1-4	18-1-4	21-10-12	30-0-0	
	6-1-4	10-0-0	2-0-0	3-9-8	8-1-4	1
Plate Offsets (X,Y)-	<ul> <li>[6:0-4-10,Edge], [11:Edge,0-2-12], [16</li> </ul>	Edge,0-5-13]				
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 0.54 BC 0.93 WB 0.93 Matrix-S	DEFL. in Vert(LL) -0.28 Vert(CT) -0.63 Horz(CT) 0.09 Wind(LL) 0.14	(loc) I/defl 13-15 >999 13-15 >566 11 n/a 13-15 >999	L/d <b>PLATES</b> 360 MT20 240 n/a 240 Weight: 114 lb	<b>GRIP</b> 197/144 FT = 10%
LUMBER- TOP CHORD 2x4 5-6: BOT CHORD 2x4 WEBS 2x3 2-10	SPF No.2 *Except* 2x6 SPF No.2 SPF No.2 SPF No.2 *Except* 6,9-11: 2x4 SPF No.2		BRACING- TOP CHORD BOT CHORD	Structural wood sh except end vertica Rigid ceiling direct 2-2-0 oc bracing: 1	heathing directly applied or 3-4-1 ls, and 2-0-0 oc purlins (3-0-0 m ly applied or 10-0-0 oc bracing, 3-15.	5 oc purlins, ax.): 3-5, 6-7. Except:
REACTIONS. ( Ma Ma Ma	size) 16=0-3-8, 11=0-3-8 x Horz 16=81(LC 7) x Uplift 16=-227(LC 8), 11=-127(LC 9) x Grav 16=1408(LC 1), 11=1408(LC 1)				NIE OF	MISS
FORCES.         (lb) - M           TOP CHORD         2-           7-         7-           BOT CHORD         15           WEBS         3-           6-         6-	ax. Comp./Max. Ten All forces 250 (b) ( 3=-2176/304, 3-4=-1843/313, 4-5=-2874/; 8=-2024/213, 8-9=-360/0, 2-16=-1364/247 5-16=-232/476, 13-15=-388/2668, 12-13=- 15=-11/606, 4-15=-1006/236, 4-13=0/361 12=-682/139, 7-12=-42/567, 2-15=-108/1	r less except when shown 68, 5-6=-3290/453, 6-7=- ', 9-11=-328/48 185/2134, 11-12=-133/177 5-13=-1652/299, 6-13=- 100, 8-11=-1752/218	n. 1740/205, 12 187/1851,		GA	UAN IRCIA
NOTES- 1) Unbalanced roof 2) Wind: ASCE 7-11 MWFRS (enveloy grip DOL=1.60 3) Provide adequati 4) This truss has be 5) * This truss has be 5) * This truss has be will fit between th 6) Provide mechani at joint 11. 7) This truss is desi referenced stand 8) Graphical purlin to	live loads have been considered for this d 6; Vult=115mph (3-second gust) Vasd=91 pe) gable end zone; cantilever left and rigt e drainage to prevent water ponding. even designed for a 10.0 psf bottom chord li been designed for a live load of 20.0psf on the bottom chord and any other members. cal connection (by others) of truss to bear gned in accordance with the 2018 Internal ard ANSI/TPI 1. representation does not depict the size or	esign. nph; TCDL=6.0psf; BCDL it exposed ; end vertical le ve load nonconcurrent wit the bottom chord in all are ng plate capable of withsta ional Residential Code se the orientation of the purlin	=6.0psf; h=25ft; Cat. II; E; ft and right exposed; Lurr h any other live loads. eas where a rectangle 3-6 anding 227 lb uplift at join ctions R502.11.1 and R8( n along the top and/or bot	xp C; Enclosed; ber DOL=1.60 plate 6-0 tall by 2-0-0 wide t 16 and 127 lb uplit 02.10.2 and tom chord.	The solution of the solution o	NBEH 0162101 VALENG VALENG SOSSED SOSSED SOSSED SOSSED SOSSED SOSSED SOSSED
					lonur	any 13 2021



January 13,2021

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18-1-4

10-0-0

DEFL

Vert(LL)

Vert(CT)

Horz(CT)

Wind(LL)

in (loc)

0.09

-0.23 13-15

-0.51 13-15

0.11 13-15

11

CSI

тс

BC

WB

Matrix-S

0.95

0.86

0.69

BRACING-Structural wood sheathing directly applied, except end verticals, and TOP CHORD 2-0-0 oc purlins (3-7-5 max.): 4-6. BOT CHORD

L/d

360

240

n/a

240

24-8-1

6-6-13

l/def

>999

>694

>999

n/a

Rigid ceiling directly applied or 9-7-15 oc bracing.

REACTIONS. (size) 16=0-3-8, 11=0-3-8 Max Horz 16=-94(LC 6) Max Uplift 16=-236(LC 8), 11=-147(LC 9) Max Grav 16=1408(LC 1), 11=1408(LC 1)

2x4 SPF No.2 \*Except\*

2x3 SPF No.2 \*Except\* 2-16,9-11: 2x4 SPF No.2

6-7: 2x6 SPF No.2

2x4 SPF No.2

8-1-4 8-1-4

SPACING

Plate Grip DOL

Rep Stress Incr

Code IRC2018/TPI2014

Lumber DOL

[2:Edge,0-2-8]

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-3=-330/39, 3-4=-2043/330, 4-5=-1759/331, 5-6=-2155/322, 6-7=-2464/397, 7-8=-2049/259. 2-16=-316/72 BOT CHORD 15-16=-356/1719, 13-15=-327/2196, 12-13=-145/1625, 11-12=-200/1766 WEBS 4-15=-13/561, 5-15=-589/168, 6-13=-1295/267, 7-13=-263/1613, 7-12=-71/250,

2-0-0

1.15

1.15

YES

#### NOTES-

Plate Offsets (X,Y)--

25.0

10.0

10.0

0.0

LOADING (psf)

TCLL

TCDL

BCLL

BCDL

LUMBER-

WEBS

TOP CHORD

BOT CHORD

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

3-16=-1794/352, 8-11=-2008/317

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

- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

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

6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 236 lb uplift at joint 16 and 147 lb uplift at joint 11.

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

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



ALLIN

30-0-0

5-3-15

GRIP

197/144

FT = 10%

PLATES

Weight: 116 lb

MT20

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🙏 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED WITHS KRETERENCE PAGE MIL-74/3 fev. or 19/2/2/2 DEFORE USE. Design valid for use only with MITER® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANS/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



L	5-5-10 10-1-4		19-10-12		24-6-6	30-0-0				
	5-5-10 4-7-10		9-9-8		4-7-10	5-5-10	1			
Plate Offsets (X,Y)	[10:Edge,0-5-13], [11:0-2-8,0-1-8], [15:	0-2-8,0-1-8], [16:Edge,0-5-	13]							
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 0.42 BC 0.58 WB 0.54 Matrix-S	DEFL. in Vert(LL) -0.29 Vert(CT) -0.52 Horz(CT) 0.05 Wind(LL) 0.06	(loc) l/defl 12-14 >999 12-14 >686 10 n/a 12-14 >999	L/d 360 240 n/a 240	PLATES MT20 Weight: 116 lb	<b>GRIP</b> 197/144 FT = 10%			
LUMBER- TOP CHORD 2x4 SF BOT CHORD 2x4 SF WEBS 2x3 SF 2-16,8	JUMBER-       BRACING-         IOP CHORD       2x4 SPF No.2         3OT CHORD       2x4 SPF 2100F 1.8E         NEBS       2x3 SPF No.2 *Except*         2-16,8-10: 2x4 SPF No.2       BOT CHORD									
REACTIONS.         (size)         16=0-3-8, 10=0-3-8           Max Horz         16=-93(LC 6)           Max Uplift         16=-149(LC 8), 10=-149(LC 9)           Max Grav         16=1454(LC 2), 10=1454(LC 2)										
FORCES. (lb) - Max. TOP CHORD 2-3= 7-8= BOT CHORD 15-1	Comp./Max. Ten All forces 250 (lb) o -2192/195, 3-4=-2007/165, 4-5=-1740/1 -2192/195, 2-16=-1338/181, 8-10=-1336 6=-152/480 14-15=-175/1889 12-14=-	r less except when shown. 75, 5-6=-1740/175, 6-7=-20 /181 52/1899_11-12=-99/1893	007/165, 10-11=-81/446			ATE JU	AN R			
WEBS 4-14	=0/620, 5-14=-400/152, 5-12=-400/152,	6-12=0/620, 2-15=-39/145	6, 8-11=-39/1456			GAF				
NOTES- 1) Unbalanced roof livv 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 5) * This truss has been 6) Provide mechanical	e loads have been considered for this de /ult=115mph (3-second gust) Vasd=91n gable end zone; cantilever left and righ rainage to prevent water ponding. designed for a 10.0 psf bottom chord live n designed for a live load of 20.0psf on pottom chord and any other members, w connection (by others) of truss to beari	esign. aph; TCDL=6.0psf; BCDL= t exposed ; end vertical left ve load nonconcurrent with the bottom chord in all area ith BCDL = 10.0psf. g plate capable of withsta	6.0psf; h=25ft; Cat. II; E t and right exposed; Lun any other live loads. as where a rectangle 3- nding 149 lb uplift at joir	xp C; Enclosed; nber DOL=1.60 pl 6-0 tall by 2-0-0 w nt 16 and 149 lb u	ate ide plift	PPOCE-2000	ALLENGIN			

6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 149 lb uplift at joint 16 and 149 lb uplift at joint 10.

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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	I	5-5-10	12-1-4		17-10-12			24-6	-6	30-0-0	
Plate Offse	ets (X,Y)		<u>6-7-11</u> ], [10:0-2-8,0-1-8], [1	14:0-2-8,0-1-8],	5-9-8 [15:Edge,0-5-13]			6-7-1	11	5-5-10	
LOADING TCLL TCDL BCLL BCDL	(psf) 25.0 10.0 0.0 * 10.0	SPACING- 2-0- Plate Grip DOL 1.1 Lumber DOL 1.1 Rep Stress Incr YES Code IRC2018/TPI2014	0 <b>CSI.</b> 5 TC 5 BC 8 WB Matri	0.69 0.67 0.57 x-S	DEFL. Vert(LL) - Vert(CT) - Horz(CT) Wind(LL)	in -0.12 -0.23 0.06 0.06	(loc) 13-14 13-14 9 13-14	l/defl >999 >999 n/a >999	L/d 360 240 n/a 240	PLATES MT20 Weight: 117 lb	<b>GRIP</b> 197/144 FT = 10%
LUMBER- TOP CHOF BOT CHOF WEBS	RD 2x4 SF RD 2x4 SF 2x3 SF 2-15,7-	PF No.2 PF No.2 PF No.2 *Except* 9: 2x4 SPF No.2			BRACING- TOP CHORE BOT CHORE WEBS	)	Structu except Rigid c 1 Row	ral wood s end vertio eiling dire at midpt	sheathing dire cals, and 2-0-( ctly applied o 4-	ectly applied or 2-10-1 0 oc purlins (4-0-10 m r 10-0-0 oc bracing. 11	3 oc purlins, ax.): 4-5.
REACTIONS. (size) 9=0-3-8, 15=0-3-8 Max Horz 15=106(LC 7) Max Uplift 9=-167(LC 9), 15=-167(LC 8) Max Grav 9=1449(LC 2), 15=1453(LC 2)								MIGHT			
FORCES. (lb) - Max. Comp./Max. Ten All forces 250 (lb) or less except when shown.         TOP CHORD       2-3=-2242/232, 3-4=-1851/188, 4-5=-1568/214, 5-6=-1842/188, 6-7=-2234/232, 2-15=-1360/193, 7-9=-1356/193         BOT CHORD       14-15=-146/397, 13-14=-231/1946, 11-13=-55/1576, 10-11=-138/1939, 9-10=-59/346         WEBS       313=-475/166, 4_13=-13/4/49, 5-11=-1/4/29, 6-11=-4/34/196, 2-14=-86/1600											

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.

7-10=-80/1603

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

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

6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 167 lb uplift at joint 9 and 167 lb uplift at joint 15.

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.



January 13,2021

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L	7-5-10	14-1-4	15-10-12	22-6-6	30-0-0	
I	7-5-10	6-7-10	1-9-8	6-7-10	7-5-10	
Plate Offsets (X,Y)	[5:0-4-8,0-1-11], [9:Edge,0-5-13	3], [10:0-2-8,0-1-8], [14:0-2-8,0-1-8	3], [15:Edge,0-5-1	3]		
LOADING (psf)	SPACING- 2-0-	0 CSI.	DEFL.	in (loc) l/defl L/d	PLATES GRIP	
TCLL 25.0	Plate Grip DOL 1.1	5 TC 0.62	Vert(LL)	-0.10 13-14 >999 360	MT20 197/144	
TCDL 10.0	Lumber DOL 1.1	5 BC 0.55	Vert(CT)	-0.21 13-14 >999 240		
BCLL 0.0 *	Rep Stress Incr YE	S WB 0.90	Horz(CT)	0.06 9 n/a n/a		
BCDL 10.0	Code IRC2018/TPI2014	Matrix-S	Wind(LL)	0.07 13-14 >999 240	Weight: 124 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 \*Except\*
  - 2-15,7-9: 2x4 SPF 2100F 1.8E
- REACTIONS. (size) 15=0-3-8, 9=0-3-8 Max Horz 15=-118(LC 6) Max Uplift 15=-183(LC 8), 9=-183(LC 9) Max Grav 15=1408(LC 1), 9=1408(LC 1)

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

 TOP CHORD
 2-3=-2141/248, 3-4=-1604/216, 4-5=-1333/235, 5-6=-1606/216, 6-7=-2140/248, 2-15=-1334/223, 7-9=-1334/223

 BOT CHORD
 14-15=-276/611, 13-14=-233/1812, 12-13=-53/1330, 10-12=-123/1811, 9-10=-173/613

 WEBS
 3-13=-598/214, 4-13=-69/398, 5-12=-64/397, 6-12=-595/214, 2-14=-1/1205, 7-10=-8/1202

#### 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 183 lb uplift at joint 15 and 183 lb uplift at joint 9.

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

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



Structural wood sheathing directly applied or 3-4-13 oc purlins,

except end verticals, and 2-0-0 oc purlins (4-10-1 max.): 4-5.

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



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



![](_page_13_Picture_1.jpeg)

ent 16023 Swingley Ridge Rd Chesterfield, MO 63017

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![](_page_14_Figure_0.jpeg)

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

Mitek° 16023 Swingley Ridge Rd Chesterfield, MO 63017

						RELEASE FOR
Job	Truss	Truss Type	Qty	Ply	Lot 80 W0	CONSTRUCTION
210213	B1		1	-		AS NOTED ON PLANS REVIEW
210213			l'	3	Job Reference (opt	ional) DEVELOPMENT SERVICES
Wheeler Lumber, Wav	erly, KS - 66871,		6	.430 s Nov	30 2020 MiTek Indu	stries, IncLEE'SaSI2NUM6T16N0SSO4gR2
		ID:hquF	fxpp0CdNH	łWhMuPize	LzNEki-VKja9Emb0	46AEODC67X5yMOaugsQeKFpRjakzazw365

#### NOTES-

11) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 929 lb down and 293 lb up at 6-11-4 271 lb down and 50 lb up at 6-11-4 271 lb down and 8-10-0, 271 lb down and 50 lb up at 10-10-0, 271 lb down and 50 lb up at 12-10-0, 271 lb down and 50 lb up at 14-10-0, 278 lb down and 49 lb up at 16-10-0, 278 lb down and 54 lb up at 18-10-0, 278 lb down and 54 lb up at 20-10-0, 278 lb down and 54 lb up at 22-10-0, 278 lb down and 54 lb up at 24-10-0, 278 lb down and 54 lb up at 26-10-0, 278 lb down and 54 lb up at 28-10-0, 278 lb down and 54 lb up at 30-10-0, 278 lb down and 54 lb up at 32-11-12, 278 lb down and 49 lb up at 34-10-0, and 278 lb down and 49 lb up at 36-10-0, and 278 lb down and 49 lb up at 38-10-0 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: 1-3=-70, 3-4=-70, 4-10=-70, 2-22=-20, 3-19=-20, 16-17=-20, 13-15=-20, 11-12=-20

Concentrated Loads (lb)

Vert: 21=-929(F) 13=-278(F) 23=-271(F) 24=-271(F) 25=-271(F) 26=-271(F) 27=-278(F) 29=-278(F) 30=-278(F) 31=-278(F) 32=-278(F) 33=-278(F) 34=-278(F) 34=-278(F) 32=-278(F) 32=-2 35=-278(F) 36=-278(F) 37=-278(F) 38=-278(F)

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

![](_page_15_Picture_9.jpeg)

![](_page_16_Figure_0.jpeg)

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![](_page_16_Picture_2.jpeg)

![](_page_17_Figure_0.jpeg)

			18-2-8							
	2-6-0	10-11-4 8-5-4	15-10-0 18-1-8 4-10-12 2-3-8 0-1-0	<u>26-10-0</u> 8-7-8	33-7-0	40-4-0				
Plate Offs	ets (X.Y)	[3:0-4-5.0-1-1], [5:0-6-0.0-2-3], [11:Edg	e.0-2-8]. [18:0-5-8.0-2-0].	[19:0-2-0.0-0-0], [22:0-2-0.0-	0-81	0-9-0				
					1					
LOADING	(psf)	SPACING- 2-0-0	CSI.	DEFL. in (I	oc) I/defl L/d	PLATES	GRIP			
TCLL	25.0	Plate Grip DOL 1.15	TC 0.98	Vert(LL) -0.25 21	-22 >847 360	MT20	197/144			
TCDL	10.0	Lumber DOL 1.15	BC 0.82	Vert(CT) -0.50 21-	-22 >425 240					
BCLL	0.0 *	Rep Stress Incr YES	WB 0.75	Horz(CT) 0.20	16 n/a n/a					
BCDL	10.0	Code IRC2018/TPI2014	Matrix-S	Wind(LL) 0.14 21-	-22 >999 240	Weight: 170 lb	FT = 10%			
LUMBER- TOP CHORD     2x4 SPF No.2 *Except* 1-5: 2x6 SPF No.2     BRACING- TOP CHORD       BOT CHORD     2x4 SPF No.2 *Except* 22-23,19-20,8-13: 2x3 SPF No.2, 16-20: 2x4 SPF 2100F 1.8E     TOP CHORD     Structural wood sheathing directly applied or 3-8-11 oc pu except end verticals, and 2-0-0 oc purlins (2-2-0 max.): 5- BOT CHORD       WEBS     2x3 SPF No.2 *Except* 2-24: 2x6 SPF No.2     BOT CHORD     Rigid ceiling directly applied or 4-0-0 oc bracing. 1 Row at midpt       VEBS     1 Row at midpt     5-18							oc purlins, ): 5-10.			
REACTIONS. (size) 11=0-3-8, 24=0-3-8, 16=(0-2-0 + bearing block) (req. 0-3-5) Max Horz 24=253(LC 5) Max Uplift 11=-197(LC 4), 24=-136(LC 8), 16=-380(LC 5) Max Grav 11=978(LC 24), 24=789(LC 2), 16=2093(LC 2)										
FORCES. (Ib) - Max. Comp./Max. Ten All forces 250 (Ib) or less except when shown.										
TOP CHC	TOP CHORD 2-3=-381/69, 3-4=-1141/254, 4-5=-686/139, 5-6=-122/368, 6-8=-1239/351, JUAN									
	8-9=-	1212/351, 9-10=-797/232, 10-11=-870/	233, 2-24=-767/173	,		GAF	RCIA			
BOT CHC	0RD 3-22=	=-177/1019, 21-22=-255/1033, 19-21=-1	02/550, 18-19=-90/479, 1	6-18=-2058/400,		2 1	: ^ <b>=</b>			
	15-18	8=-1389/332, 6-15=-1289/385, 14-15=-3	82/58, 8-14=-533/223			= 11:				
WEBS	4-21:	=-592/252, 5-21=-31/652, 5-18=-1101/1	54, 6-14=-327/1715, 12-1	4=-169/833,		D: NUM	IBER :			
	9-14:	=-137/500, 10-12=-222/1047, 9-12=-749	/265			- O E-2000	162101			
						1. 1				
NOTES-		- haaning black 400 lagge at it 40 attacks				1. Sei				
I) 2X4 SP	r 2100F 1.8	= bearing block 12 long at jt. 16 attache	a to front face with 2 row	s of 100 (0.131 x3 ) halls sp	aced 3 0.c. 8	N N	ALEIN			
2) Unhala	inced roof live	loads have been considered for this de	sian				un.			
3) Wind: A	ASCE 7-16: \	/ult=115mph (3-second gust) Vasd=91n	nph: TCDL=6.0psf: BCDL:	=6.0psf: h=25ft: Cat. II: Exp (	C: Enclosed:		105			
MWFR	S (envelope)	gable end zone; cantilever left and righ	t exposed ; end vertical le	ft and right exposed; Lumber	DOL=1.60 plate		CARTIN			
grip DC	DL=1.60					NUAN	CARCIN			
<ol><li>Provide</li></ol>	e adequate di	rainage to prevent water ponding.				N CE	NSA			
<ol><li>5) This tru</li></ol>	iss has been	designed for a 10.0 psf bottom chord liv	e load nonconcurrent with	h any other live loads.		5	0			
6) * This t	russ has bee	n designed for a live load of 20.0psf on	the bottom chord in all are	eas where a rectangle 3-6-0 t	all by 2-0-0 wide	- S /	1 2			
Will fit b	will fit between the bottom chord and any other members, with BCDL = 10.0pst.									
ioint 24	and 380 lb i	connection (by others) of truss to bearing	ig plate capable of withsta	anding 197 ib uplift at joint 11	, 130 ID UPIIT AT	= 16	952			
8) This tru	iss is designe	ed in accordance with the 2018 Internati	onal Residential Code sec	ctions R502.11.1 and R802 1	0.2 and	= 21:				
referen	ced standard	ANSI/TPI 1.				=0:	1			
9) Graphi	cal purlin rep	resentation does not depict the size or the	ne orientation of the purlin	along the top and/or bottom	chord.		VSAS			
						1,000	ENUN			

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

![](_page_17_Figure_3.jpeg)

![](_page_18_Figure_0.jpeg)

$\vdash \frac{2}{2}$	2-6-0	7-8-10	<u>12-11-4</u> 5-2-10	15-10-0	18-2-4	25-5-9		1	32-10	-3	40-4-0		
Plate Offsets ()	X,Y) [	5:0-6-0,0-2-3], [6:0-	-2-8,0-1-8], [11:Edge	,0-2-8], [12:	0-2-8,0-1-8]	1-5-5			1-4-3	)	7-5-15		-
LOADING (psi TCLL 25. TCDL 10. BCLL 0. BCDL 10.	f) 0 0 * 0	SPACING- Plate Grip DO Lumber DOL Rep Stress Ir Code IRC20	2-0-0 DL 1.15 1.15 nor YES 18/TPI2014	<b>CSI.</b> TC BC WB Matri	0.75 0.70 0.81 x-S	DEFL. Vert(LL) Vert(CT) Horz(CT) Wind(LL)	in -0.17 -0.31 0.08 0.15	(loc) 20-21 20-21 11 20-21	l/defl >999 >694 n/a >999	L/d 360 240 n/a 240	PLATES MT20 Weight: 174 lb	<b>GRIP</b> 197/144 FT = 10%	Ξ
LUMBER- TOP CHORD BOT CHORD WEBS	BRACING- TOP CHORI BOT CHORI WEBS	D	Structural wood sheathing directly applied or 4-1-5 oc purlins, except end verticals, and 2-0-0 oc purlins (5-0-0 max.): 5-10. Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 14-15. 1 Row at midpt 10-11, 5-17, 6-15, 9-14				oc purlins, x.): 5-10. Except:	-					
REACTIONS. (size) 11=0-3-8, 23=0-3-8, 15=0-3-8 Max Horz 23=294(LC 5) Max Uplift 11=-205(LC 4), 23=-154(LC 8), 15=-373(LC 5) Max Grav 11=1064(LC 24), 23=861(LC 2), 15=2043(LC 2)													
FORCES. (Ib TOP CHORD BOT CHORD	FORCES. (lb) - Max. Comp./Max. Ten All forces 250 (lb) or less except when shown.         TOP CHORD       2-3=-473/58, 3-4=-1295/259, 4-5=-618/170, 6-8=-772/259, 8-9=-772/259, 9-10=-824/241, 10-11=-921/248, 2-23=-851/189         BOT CHORD       3-21=-270/1151, 10-20=-270/1151, 18-19=-82/432, 17-18=-82/432, 600												
WEBS	12-14⊧ 4-20=⊧ 6-17≕	=-177/813 0/285, 4-19=-865/2 -1182/344, 6-14=-2	66, 5-19=-76/591, 5 <sup>.</sup> 13/1089, 8-14=-502	17=-768/13 211, 9-12=-	8, 15-17=-174 523/243, 10-1	1/444, 2=-225/1093					PP. NUM	MBER 162101	
<ul> <li>NOTES- <ol> <li>Unbalanced roof live loads have been considered for this design.</li> <li>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</li> <li>Provide adequate drainage to prevent water ponding.</li> <li>This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.</li> <li>* 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.</li> <li>Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 205 lb uplift at joint 11, 154 lb uplift at</li> </ol></li></ul>													
joint 23 and 7) This truss is referenced s	<ul> <li>a) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 205 lb uplift at joint 11, 154 lb uplift at joint 15.</li> <li>b) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and the section of the secti</li></ul>												

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

January 13 and the state

**MiTek** 16023 Swingley Ridge Rd Chesterfield, MO 63017

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![](_page_19_Figure_0.jpeg)

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

# UNAL SIN January 13,2021

![](_page_19_Picture_3.jpeg)

![](_page_20_Figure_0.jpeg)

L	5-5-9 11-4-5	18-2-4	22-10-0	28-8-12	34-2-8	40-4-0	)		
1	5-5-9 5-10-12	6-9-15	4-7-12	5-10-12	5-5-11	6-1-8	1		
Plate Offsets (X,Y)	[6:0-8-10,Edge], [10:0-2-8,Edge], [11:Ed	ge,0-2-8]							
LOADING (psf) TCLL 25.0	SPACING- 2-0-0 Plate Grip DOL 1.15	<b>CSI.</b> TC 0.48	<b>DEFL.</b> Vert(LL) -0.	in (loc) l/defl 08 16-18 >999	L/d 360	PLATES MT20	<b>GRIP</b> 197/144		
TCDL         10.0           BCLL         0.0 *           BCDL         10.0	Lumber DOL 1.15 Rep Stress Incr YES Code IRC2018/TPI2014	BC 0.40 WB 0.80 Matrix-S	Vert(CT) -0. Horz(CT) 0. Wind(LL) 0.	13 16-18 >999 01 11 n/a 04 18-19 >999	240 n/a 240	Weight: 188 lb	FT = 10%		
LUMBER- TOP CHORD 2x4 SF BOT CHORD 2x4 SF WEBS 2x3 SF 6-18,6 REACTIONS. (siz Max H Max U Max C	PF No.2 PF No.2 *Except* +16,6-15,8-15: 2x4 SPF No.2, 2-20: 2x4 S e) 20=0-3-8, 16=0-3-8 (req. 0-3-13), 1 forz 20=217(LC 5) iplift 20=-124(LC 8), 16=-182(LC 8), 11=- prav 20=637(LC 21), 16=2441(LC 2), 11=- prav 20=257(LC 2), 16=257(LC 2), 16=	SPF 2100F 1.8E 1=0-3-8 -132(LC 9) -919(LC 24)	BRACING- TOP CHORD BOT CHORD WEBS	Structural wood except end verti Rigid ceiling dire 6-0-0 oc bracing 1 Row at midpt	sheathing direc cals, and 2-0-0 ectly applied or : 16-18,15-16. 6-1	2tly applied or 5-9-2 oc purlins (6-0-0 ma 10-0-0 oc bracing, 16, 7-15, 8-15, 9-13	oc purlins, ax.): 6-8. Except:		
FORCES. (lb) - Max. Comp./Max. Ten All forces 250 (lb) or less except when shown.         TOP CHORD       2-3=-732/147, 8-9=-651/200, 9-10=-811/136, 2-20=-566/153, 10-11=-834/160         BOT CHORD       19-20=-210/628, 18-19=-210/628, 16-18=-441/88, 15-16=-707/124, 13-15=-59/503, 12-13=-99/666         WEBS       3-18=-500/173, 5-18=-433/236, 6-18=-278/1005, 6-16=-2207/250, 6-15=-130/1330, 7-15=-476/200, 8-15=-665/68, 8-13=-38/492, 9-13=-315/138, 10-12=-78/728									
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	e loads have been considered for this des /ult=115mph (3-second gust) Vasd=91mp gable end zone; cantilever left and right rainage to prevent water ponding. designed for a 10.0 psf bottom chord live	sign. bh; TCDL=6.0psf; BCDL= exposed ; end vertical lef a load nonconcurrent with	=6.0psf; h=25ft; Cat. II t and right exposed; L n anv other live loads.	; Exp C; Enclosed; umber DOL=1.60 pl	ate	PBOCE-200	MBER 0162101		
<ol> <li>This truss has been will fit between the t</li> <li>WARNING: Require</li> <li>Provide mechanical joint 16 and 132 lb u</li> <li>This truss is designer referenced standard</li> <li>Graphical purlin rep</li> </ol>	In designed for a live load of 20.0psf on the pottom chord and any other members, will be bearing size at joint(s) 16 greater than connection (by others) of truss to bearing uplift at joint 11. ed in accordance with the 2018 Internatio d ANSI/TPI 1. resentation does not depict the size or th	e bottom chord in all are h BCDL = 10.0psf. input bearing size. g plate capable of withsta nal Residential Code sec e orientation of the purlin	anding 124 lb uplift at j ations R502.11.1 and f along the top and/or l	3-6-0 tall by 2-0-0 w oint 20, 182 lb uplift R802.10.2 and pottom chord.	ide at	UC T	GARCIA ENSED		
						ROAK SIC	ANSAS ON IL		

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

![](_page_20_Picture_3.jpeg)

![](_page_21_Figure_0.jpeg)

L	5-5-9 12-8-5	18-11-4	26-8-12		34-2-7	40-4-0					
	5-5-9 7-2-13	6-2-15	7-9-8	I	7-5-11	6-1-9	1				
Plate Offsets (X,Y)	[6:0-4-10,Edge], [7:0-4-10,Edge], [10:	Edge,0-1-8], [11:0-2-8,0-2-	0], [14:0-2-8,0-1-8], [17:0-	-2-8,0-2-0], [18:E	dge,0-6-13]						
LOADING (psf) TCLL 25.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2018/TPI2014	CSI. TC 0.92 BC 0.98 WB 0.78 Matrix-S	DEFL. in Vert(LL) -0.25 Vert(CT) -0.41 Horz(CT) 0.11 Wind(LL) 0.11	(loc) l/defl 12-14 >999 12-14 >999 10 n/a 16 >999	L/d 360 240 n/a 240	PLATES MT20 Weight: 174 lb	<b>GRIP</b> 197/144 FT = 10%				
LUMBER- TOP CHORD 2x4 SF 6-7: 2x BOT CHORD 2x4 SF WEBS 2x3 SF 6-12,9	PF No.2 *Except* 4 SPF 2100F 1.8E PF No.2 PF No.2 *Except* -10: 2x4 SPF No.2, 2-18: 2x6 SPF No	2	BRACING- TOP CHORD BOT CHORD WEBS	Structural wood 2-0-0 oc purlins Rigid ceiling dir 1 Row at midpt	l sheathing dir (4-4-14 max. ectly applied o 4	rectly applied, except of ): 6-7. or 2-2-0 oc bracing. I-14, 6-12	end verticals, and				
REACTIONS. (siz Max H Max U Max G	e) 18=0-3-8, 10=0-3-8 lorz 18=230(LC 5) lplift 18=-240(LC 8), 10=-166(LC 9) Grav 18=1985(LC 2), 10=1936(LC 2)					NITE OF	MISS				
FORCES. (lb) - Max. Comp./Max. Ten All forces 250 (lb) or less except when shown.         TOP CHORD       2-3=-3131/345, 3-4=-2943/345, 4-6=-2337/290, 6-7=-1788/248, 7-8=-2098/231, 8-9=-1909/176, 2-18=-1882/267, 9-10=-1847/194         BOT CHORD       17-18=-259/537, 16-17=-402/2729, 14-16=-293/2574, 12-14=-128/1998, 11-12=-139/1652         WEBS       4-16=0/367, 4-14=-76//264, 6-14=-76//834, 6-12=-458/130, 7-12=-18/475, 8-12=-69/319, 8-11=-680/147, 2-17=-143/2282, 9-11=-125/1844											
NOTES- 1) Unbalanced roof live 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 b	<ul> <li>8-11=-680/147, 2-17=-143/2282, 9-11=-125/1844</li> <li>NOTES- <ol> <li>Unbalanced roof live loads have been considered for this design.</li> <li>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</li> <li>Provide adequate drainage to prevent water ponding.</li> <li>This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.</li> <li>* 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</li> </ol> </li> </ul>										

6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 240 lb uplift at joint 18 and 166 lb uplift at joint 10.

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.

![](_page_21_Figure_5.jpeg)

16023 Swingley Ridge Rd Chesterfield, MO 63017

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

![](_page_22_Figure_0.jpeg)

![](_page_22_Picture_1.jpeg)

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

![](_page_23_Figure_0.jpeg)

# January 13,2021

![](_page_23_Picture_2.jpeg)

🗼 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED WITHS KRETERENCE PAGE MIL-74/3 fev. or 19/2/2/2 DEFORE USE. Design valid for use only with MITER® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANS/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

![](_page_24_Figure_0.jpeg)

![](_page_24_Figure_1.jpeg)

![](_page_24_Picture_2.jpeg)

🔥 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED WITHS KRETERENCE PAGE MIL-74/3 fev. or 19/2/2/2 DEFORE USE. Design valid for use only with MITER® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANS/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

![](_page_25_Figure_0.jpeg)

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![](_page_25_Picture_2.jpeg)

![](_page_26_Figure_0.jpeg)

![](_page_27_Figure_0.jpeg)

![](_page_28_Figure_0.jpeg)

16023 Swingley Ridge Rd Chesterfield, MO 63017

![](_page_29_Figure_0.jpeg)

16023 Swingley Ridge Rd Chesterfield, MO 63017

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

![](_page_30_Figure_0.jpeg)

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

![](_page_30_Picture_2.jpeg)

![](_page_31_Figure_0.jpeg)

![](_page_31_Picture_1.jpeg)

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

![](_page_32_Figure_0.jpeg)

<b>├</b> ──	2-11-8		8-9-12	10-10-4			16-8	-8	19-	<u>6-0</u>	
Plate Offsets (X,Y)	[3:0-6-0.0-2-3]. [6:Edge.	0-2-8]. [9:0-3-8.0	D-3-0]. [12:0-2-8.0-1-8]	2-0-0			5-10	-4	2-3	9-0	
LOADING (psf) TCLL 25.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr Code IRC2018/T	2-0-0 1.15 1.15 YES PI2014	<b>CSI.</b> TC 0.59 BC 0.93 WB 0.99 Matrix-S	DEFL. Vert(LL) Vert(CT) Horz(CT) Wind(LL)	in -0.21 -0.41 -0.25 0.14	(loc) 12 12-13 16 12	l/defl >999 >570 n/a >999	L/d 360 240 n/a 240	<b>PLATES</b> MT20 Weight: 86 lb	<b>GRIP</b> 197/144 FT = 10%	
LUMBER- TOP CHORD 2x4 SP 2·3,4-5 BOT CHORD 2x4 SP 13-15,6 WEBS 2x3 SP 1-16: 2	F No.2 *Except* : 2x6 SPF No.2 F No.2 *Except* 3-10: 2x3 SPF No.2 F No.2 *Except* x4 SPF No.2		I	BRACING- TOP CHOR BOT CHOR WEBS	D D	Structu except 5-6. Rigid co 1 Row s	ral wood end vertio eiling dire at midpt	sheathing dir cals, and 2-0- ctly applied c 2 <sup>.</sup>	ectly applied or 5-7-6 0 oc purlins (5-0-15 r r 2-2-0 oc bracing. -14, 2-12, 5-11	oc purlins, nax.): 1-2, 3-4,	,
REACTIONS. (size Max H Max U Max G	e) 16=0-3-8, 7=0-3-8 orz 7=101(LC 7) plift 16=-106(LC 8), 7=-1 rav 16=866(LC 1), 7=86	05(LC 9) 6(LC 1)							INTE OF	MISSO	11.
FORCES.         (lb) - Max.           TOP CHORD         14-16           5-6=-           BOT CHORD         13-14           WEBS         2-14=	FORCES. (lb) - Max. Comp./Max. Ten All forces 250 (lb) or less except when shown.         TOP CHORD       14-16=-826/135, 1-2=-393/0, 2-3=-1470/113, 3-4=-1283/130, 4-5=-1471/106, 5-6=-300/0, 7-9=-832/125         BOT CHORD       13-14=-380/2898, 12-13=-416/2915, 11-12=-65/1282, 10-11=-386/2838, 9-10=-373/2819         WEED       244-27474/455, 2-44-2405/2915, 11-12=-65/1282, 10-11=-386/2838, 9-10=-373/2819										
5-9=-	2700/462								D. E-200	MBER 0162101 🗸	ET.
<ul> <li>NOTES-</li> <li>1) Unbalanced roof live loads have been considered for this design.</li> <li>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</li> <li>3) Provide adequate drainage to prevent water ponding.</li> <li>4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.</li> <li>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</li> </ul>											
<ul> <li>6) Provide mechanical at joint 7.</li> </ul>	will fit between the bottom chord and any other members. ) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 106 lb uplift at joint 16 and 105 lb uplift at joint 7.										

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

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

![](_page_32_Figure_4.jpeg)

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

16023 Swingley Ridge Rd Chesterfield, MO 63017

![](_page_33_Figure_0.jpeg)

2-11-	8	6-9-12		<u>12-10-4</u> 6-0-8				16-8-8 3-10-4	19-	- <u>6-0</u>
Plate Offsets (X,Y)	[2:0-4-8,Edge], [3:	)-6-0,0-2-3], [5:0-4-4	,Edge]	000				0.01		
LOADING         (psf)           TCLL         25.0           TCDL         10.0           BCLL         0.0           BCDL         10.0	SPACING- Plate Grip I Lumber DO Rep Stress Code IRC2	2-0-0 OL 1.15 - 1.15 Incr YES 018/TPI2014	CSI. TC 0.82 BC 0.85 WB 0.18 Matrix-S	<b>DEFL.</b> Vert(LL) Vert(CT) Horz(CT) Wind(LL)	in -0.37 -0.67 -0.61 0.22	(loc) 2-9 2-9 1 5-8	l/defl >623 >346 n/a >999	L/d 360 240 n/a 240	PLATES MT20 Weight: 74 lb	<b>GRIP</b> 197/144 FT = 10%
LUMBER- TOP CHORD 2x6 SP DSS *Except* 3-4: 2x4 SPF No.2 BOT CHORD 2x4 SPF No.2 *Except* 2-10 5-7: 2x3 SPE No.2					с С	Structu except 2-0-0 c Rigid c	ral wood c purlins eiling dire	sheathing dir (3-11-5 max. ectly applied o	rectly applied or 2-11- ): 3-4. or 10-0-0 oc bracing.	15 oc purlins,

REACTIONS. (size) 1=0-3-8, 6=0-3-8 Max Horz 6=59(LC 12) Max Uplift 1=-84(LC 8), 6=-82(LC 9)

2x3 SPF No.2

- Max Grav 1=864(LC 1), 6=864(LC 1)
- FORCES. (lb) Max. Comp./Max. Ten. All forces 250 (lb) or less except when shown.
- TOP CHORD 1-2=-397/61, 2-3=-1769/126, 3-4=-1706/152, 4-5=-1755/139, 5-6=-417/80

BOT CHORD 2-9=-69/1731, 8-9=-62/1728, 5-8=-119/1710

#### NOTES-

WEBS

- 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 84 lb uplift at joint 1 and 82 lb uplift at joint 6.

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

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

![](_page_33_Picture_16.jpeg)

January 13,2021

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

![](_page_33_Picture_19.jpeg)

![](_page_34_Figure_0.jpeg)

11

3x10 =

Ø 3x6 ⋍

0-4-0

0

13

2x4 ||

12

3x10 ||

8x8 = Ш 264 [4  $\sim$ 9 3x6 📎 2x4 ||

10

2x4 ||

H	2-11-	-8 4-9-12	9-10-0	1	4-10-4		16-8-8	19	-8-0	
Plate Off	2-11-	-8 1-10-4 [3:0-3-9 0-0-13] [4:0-6-0 0-2-3] [6:0-6-1	5-0-4		5-0-4		1-10-4	2-	11-8	
T late Of	3et3 (X, T)	[3:0-3-3,0-0-13], [4:0-0-0,0-2-3], [0:0-0-0	J,0-2-3]; [7:0-3-10,0-0-9]							
LOADIN	G (psf)	<b>SPACING-</b> 2-0-0	CSI.	DEFL. i	n (loc)	l/defl L/d		PLATES	GRIP	
TCLL	25.0	Plate Grip DOL 1.15	TC 0.83	Vert(LL) -0.4	0 11 :	>572 360		MT20	197/144	
TCDL	10.0	Lumber DOL 1.15	BC 0.64	Vert(CT) -0.7	2 11 :	>319 240				
BCLL	0.0 *	Rep Stress Incr YES	WB 0.25	Horz(CT) -0.5	1 1	n/a n/a				
BCDL	10.0	Code IRC2018/TPI2014	Matrix-S	Wind(LL) 0.2	7 11 :	>849 240		Weight: 83 lb	FT = 10%	6
LUMBER	२-			BRACING-						
TOP CH	ORD 2x6 S	P DSS *Except*		TOP CHORD	Structura	al wood sheath	ing directly a	pplied or 2-8-1	0 oc purlins, e	except
	4-6: 2	x4 SPF No.2			2-0-0 oc	purlins (2-8-9	max.): 4-6.			
BOT CH	ORD 2x4 S	PF No.2 *Except*		BOT CHORD	Rigid cei	ling directly ap	plied or 10-0	-0 oc bracing.		
	3-7: 2	x6 SPF 1650F 1.4E								
WEBS	2x3 S	PF No.2 *Except*								
WEDOE	2-13,7	'-9: 2x4 SPF No.2								
WEDGE Loft: 2v6 SDE No. 2. Dight: 2v6 SDE No. 2										
Left: 2x6 SPF No.2, Right: 2x6 SPF No.2										
REACTI		(a) 1-865/0-3-8 8-865/0-5-8						ALL OF	Miste	
NEA011	Max H	Horz $8 = -41(1 \pm 9)$						NEOF	WISS	1
	Max I	loi2 = 11(200)					1	A		11
	Max	phile 12 02(20 0); 02 02(20 1)						A		DI
FORCES	6. (lb) - Max	. Comp./Max. Ten All forces 250 (lb) or	less except when shown.					🤄 JL	JAN .	
TOP CH	ORD 1-2=	-384/61, 2-3=-54/532, 3-4=-2770/331, 4-	5=-3255/446, 5-6=-3255/446,					GAI	RCIA	1.1
	6-7=	-2649/343, 7-8=-401/68					= ^			
BOT CH	ORD 3-12	=-272/2657, 11-12=-273/2705, 10-11=-3	26/2684, 7-10=-329/2650					•		
WEBS	4-12	=-12/568, 4-11=-165/697, 5-11=-351/156	6, 6-11=-168/715				= 0	NUN	/BER	:
								5 E-2000	162101 .	415
NOTES-								A		2.
1) Unbal	anced roof liv	e loads have been considered for this de	sign.				1	· · · · · · · · ·	G	1
2) Wind:	ASCE 7-16;	Vult=115mph (3-second gust) Vasd=91m	ph; TCDL=6.0psf; BCDL=6.0	psf; h=25ft; Cat. II; E	xp C; Enclo	osed;		IN ON	ALEN	
MWH	RS (envelope	) gable end zone; cantilever left and right	exposed ; end vertical left an	d right exposed; Lur	nber DOL=	1.60 plate		1111	in the	
grip D	UL=1.60									
3) Provic		inainage to prevent water ponding.	a load popoopourront with any	u other live loods					IIIII.	
4) I I IIS [	truce hee hee	i designed for a 10.0 psi bollom chord IIV	e loau nonconcurrent with any	y ouner live loads.	6 0 toll by 2	0.0 wide		AL AN	GAR	
5) This	hotwoon the	bottom chord and any other members	he bollom chord in all areas v	where a rectangle 3-	o-u tall by 2	2-0-0 wide		NUM	CIA	1,
winning beween the boltom choice and any other members.								1		
ioint 9	ie mechanica	i connection (by others) of truss to bean	g plate capable of withstandin	ig oz in upilit at joini		u upilit at	2		×0 ·	1
j0iiit 0	•						-			

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.

![](_page_34_Figure_6.jpeg)

MiTek 16023 Swingley Ridge Rd Chesterfield, MO 63017

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![](_page_35_Figure_0.jpeg)

![](_page_35_Figure_1.jpeg)

<u> </u>	2-10-8	9-10-0		16-9-8	19-8-0			
	2-10-8	6-11-8		6-11-8	2-10-8			
Plate Olisets (X, Y)	[3:0-3-5,Edge], [5:0-3-5,Edge]							
LOADING         (psf)           TCLL         25.0           TCDL         10.0           BCLL         0.0         *           BCDL         10.0	SPACING-2-0-0Plate Grip DOL1.15Lumber DOL1.15Rep Stress IncrNOCode IRC2018/TPI2014	<b>CSI.</b> TC 0.99 BC 0.71 WB 0.76 Matrix-S	DEFL.         in           Vert(LL)         -0.28           Vert(CT)         -0.51           Horz(CT)         0.06           Wind(LL)         0.28	(loc) l/defl L/d 9 >825 360 9 >454 240 6 n/a n/a 9 >833 240	PLATES         GRIP           MT20         197/144           Weight: 62 lb         FT = 10%			
			BRACING-					
TOP CHORD 2x4 SP	PE No 2 *Except*		TOP CHORD	Structural wood sheathing di	rectly applied or 3-9-13 oc purlins			
3-5: 2x	4 SPF 2100F 1.8E			except				
BOT CHORD 2x4 SP	'F No.2			2-0-0 oc purlins (2-8-14 max.	): 3-5.			
WEBS 2x3 SP	PF No.2		BOT CHORD	Rigid ceiling directly applied of	or 8-1-2 oc bracing.			
REACTIONS. (size Max H Max U Max G	e) 2=0-5-8, 6=0-5-8 orz 2=-31(LC 9) plift 2=-272(LC 8), 6=-272(LC 9) rav 2=1080(LC 1), 6=1080(LC 1)				OF MIS CL			
FORCES. (Ib) - Max.	Comp./Max. Ten All forces 250 (lb) or	less except when shown.			NTE.			
TOP CHORD 2-3=-	2113/579, 3-4=-3976/1113, 4-5=-3976/	1113, 5-6=-2113/579			NAR Cor			
WEBS 3-10=	=-508/1854, 9-10=-513/1842, 8-9=-500/ =0/299_3-9=-596/2194_4-9=-712/340_5	-9=-596/2194 5-8=0/299			JUAN			
					GARCIA :*=			
NOTES-								
<ol> <li>Unbalanced roof live</li> <li>Wind: ASCE 7-16; V MWFRS (envelope) grip DOL=1.60</li> <li>Devide advantable</li> </ol>	Ioads have been considered for this de ult=115mph (3-second gust) Vasd=91n gable end zone; cantilever left and right	sign. ph; TCDL=6.0psf; BCDL=6 exposed ; end vertical left	5.0psf; h=25ft; Cat. II; E and right exposed; Lurr	xp C; Enclosed; ber DOL=1.60 plate	NUMBER 0. E-2000162101			
<ol> <li>Provide adequate dr</li> <li>This truss has been</li> </ol>	anage to prevent water ponding.	e load nonconcurrent with	any other live loads		SSIENSIN			
5) * This truss has been	n designed for a live load of 20.0psf on	the bottom chord in all area	is where a rectangle 3-6	6-0 tall by 2-0-0 wide	UNAL			
will fit between the b	ottom chord and any other members.		-					
6) Provide mechanical	connection (by others) of truss to bearing	g plate capable of withstan	iding 272 lb uplift at join	t 2 and 272 lb uplift at	AMULTIN.			
7) This truss is designe	ed in accordance with the 2018 Internati	onal Residential Code secti	ions R502 11 1 and R8	02 10 2 and	AN GARCI			
referenced standard	ANSI/TPI 1.				CENS			
8) Graphical purlin repr	esentation does not depict the size or the	ne orientation of the purlin a	along the top and/or bot	tom chord.	LIOCH ED			
9) Hanger(s) or other c	onnection device(s) shall be provided si	ufficient to support concent	rated load(s) 76 lb dowr	n and 137 lb up at				
72 lb up at 9-10-0.9	98 lb down and 72 lb up at 11-10-0. 66	b down and 49 lb up at 13	-10-0, and 66 lb down a	and 49 lb up at	16952			
15-10-0, and 76 lb d	own and 137 lb up at 16-9-8 on top cho	ord, and 21 lb down at 2-10	)-8, 14 lb down at 3-10	0, 14 lb down at				
5-10-0, 13 lb down a	at 7-10-0, 13 lb down at 9-10-0, 13 lb d	own at 11-10-0, 14 lb dowr	n at 13-10-0, and 14 lb	down at 15-10-0, and				
21 lb down at 16-8-	12 on bottom chord. The design/selecti	on of such connection devi	ce(s) is the responsibilit t (E) or back (B)	y of others.	A ANSAS A			
IO, III IIIE LOAD CASE					- Contraction			
LOAD CASE(S) Stand	dard				ONAL			
					January 13,2021			

#### Continued on page 2

🛦 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITER REFERENCE PAGE MIT-747 ev. 5/19/2020 BEFORE USE. Design valid for use only with MITER® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek 16023 Swingley Ridge Rd Chesterfield, MO 63017
						RELEASE FOR
Job	Truss	Truss Type	Qty	Ply	Lot 80 W0	CONSTRUCTION
210213	F5	Hin Girder	1	1		AS NOTED ON PLANS REVIEW
	20				Job Reference (opt	ional) DEVELOPMENT SERVICES
Wheeler Lumber, Wav	erly, KS - 66871,		8.	430 s Nov	30 2020 MiTek Indu	stries, Inc.LEE'SaS12W8V26T39M6SSO4gR2
		ID:S4L	o8sMbVpj5	5wlhAHAV	VMgzIIWk-JlcH_510	p80vUwUdzSRUNCrOA5exXjqBkoeSGlzw35k
	1		02/12/2021			
LUAD CASE(S) Standard	1					
<ol> <li>Dead + Roof Live (balar</li> </ol>	nced): Lumber Increase=1.15	5, Plate Increase=1.15				

Uniform Loads (plf) Vert: 1-3=-70, 3-5=-70, 5-7=-70, 2-6=-20

Concentrated Loads (lb)

Vert: 3=-4(B) 5=-4(B) 10=-6(B) 9=-5(B) 4=-68(B) 8=-6(B) 11=-4(B) 12=-4(B) 13=-68(B) 14=-68(B) 15=-4(B) 16=-4(B) 17=-6(B) 18=-6(B) 19=-5(B) 20=-5(B) 21=-6(B) 18=-6(B) 22=-6(B)





				6-10-4				7-5-4			
Plate Off	fsets (X,Y)	[8:0-2-7,0-4-14]									
LOADIN	IG (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip D	OL 1.15	TC 0.85	Vert(LL)	-0.15	6-7	>999	360	MT20	197/144
TCDL	10.0	Lumber DO	1.15	BC 0.53	Vert(CT)	-0.25	6-7	>665	240		
BCLL	0.0 *	Rep Stress	Incr YES	WB 0.63	Horz(CT)	0.01	6	n/a	n/a		
BCDL	10.0	Code IRC2	018/TPI2014	Matrix-S	Wind(LL)	0.06	6-7	>999	240	Weight: 55 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 *Except*
	2-8: 2x6 SPF No.2

REACTIONS. (size) 6=0-5-8, 8=0-3-8 Max Horz 8=252(LC 5) Max Uplift 6=-103(LC 5), 8=-111(LC 8) Max Grav 6=671(LC 2), 8=721(LC 2)

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

 TOP CHORD
 2-3=-943/200, 3-4=-724/105, 2-8=-628/137

- BOT CHORD 7-8=-247/796, 6-7=-108/288
- WEBS 3-7=-340/253, 4-7=-35/503, 4-6=-566/146

#### 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, with BCDL = 10.0psf.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 103 lb uplift at joint 6 and 111 lb uplift at joint 8
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



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

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



January 13,2021



	[12.0-3-0,0-0-0]			
LOADING (psf) TCLL 25.0 TCDL 10.0 BCLL 0.0 *	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Peo Stress Incr. VES	CSI. TC 0.71 BC 0.73 WB 0.76	DEFL.         in         (loc)         l/defl         L/d         PLATI           Vert(LL)         -0.16         11-12         >999         360         MT20           Vert(CT)         -0.37         11-12         >455         240         MT20	ES GRIP 197/144
BCDL 10.0	Code IRC2018/TPI2014	Matrix-S	Wind(LL) 0.17 11-12 >999 240 Weigh	t: 55 lb FT = 10%
LUMBER-			BRACING-	

TOP CHORD

BOT CHORD

LUMBER-

- TOP CHORD 2x4 SPF No.2 BOT CHORD 2x4 SPF No.2 \*Except\* 12-13,8-10: 2x3 SPF No.2 WEBS 2x3 SPF No.2
- REACTIONS. (size) 7=0-5-8, 14=0-3-8 Max Horz 14=209(LC 5) Max Uplift 7=-109(LC 5), 14=-107(LC 8) Max Grav 7=631(LC 1), 14=705(LC 1)

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

- 2-3=-404/47, 3-4=-1103/199, 4-5=-733/105, 7-9=-610/121, 2-14=-707/138 TOP CHORD
- BOT CHORD 3-12=-133/843, 11-12=-228/985, 10-11=-139/585, 9-10=-151/584
- WEBS 5-11=-28/443, 5-9=-714/103, 4-11=-445/201

#### 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 109 lb uplift at joint 7 and 107 lb uplift at joint 14.

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

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



Structural wood sheathing directly applied or 3-8-0 oc purlins,

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

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

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January 13,2021



8-10-0, and 46 lb down at 10-10-0, and 51 lb down at 12-10-0 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

#### Continued on page 2

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



January 13,2021

						RELEASE FOR			
Job	Truss	Truss Type	Qty	Ply	Lot 80 W0	CONSTRUCTION			
210213	G4	Half Hin Girder	1	1		AS NOTED ON PLANS REVIEW			
210210					Job Reference (opti	onal) DEVELOPMENT SERVICES			
Wheeler Lumber, Wave	erly, KS - 66871,		8	.430 s Nov	30 2020 MiTek Indu	stries, Inc.LEE'SaSUMM26T42M055O4gR2			
				ID:S4Lb8sMbVpj55wlhAHAWMgzIIWk-kKIPc74vu3OULOCBea?B?rTyXJibk7ddQmt6t4zw35h					
LOAD CASE(S) Standard	LOAD CASE(S) Standard								
1) Dead + Roof Live (balan	ced): Lumber Increase=1.15	b, Plate Increase=1.15							

Uniform Loads (plf) Vert: 1-2=-70, 2-4=-70, 4-6=-70, 12-13=-20, 3-10=-20, 7-8=-20

Concentrated Loads (lb)

Vert: 4=-72(B) 11=-332(B) 14=-72(B) 15=-72(B) 16=-72(B) 17=-81(B) 18=-46(B) 19=-46(B) 20=-46(B) 21=-36(B)







<u>p</u> 0	4-0 2-5-4 4-0 2-1-4		8-0-12 5-7-8					<u>10-2-0</u> 2-1-4	<u>10-6-0</u> 0-4-0
Plate Offsets (X,Y)	[3:0-4-8,0-1-11]	1 1						-	
LOADING (psf)	<b>SPACING-</b> 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	7-8	>999	360	MT20	197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.34	Vert(CT)	-0.08	7-8	>999	240		
BCLL 0.0 *	Rep Stress Incr NO	WB 0.07	Horz(CT)	0.01	5	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014	Matrix-S	Wind(LL)	0.02	7-8	>999	240	Weight: 33 lb	FT = 10%
LUMBER-		· · · ·	BRACING-						

TOP CHORD

BOT CHORD

#### LUMBER-

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

REACTIONS. (size) 2=0-3-8, 5=0-3-8 Max Horz 2=-28(LC 13) Max Uplift 2=-139(LC 8), 5=-139(LC 9) Max Grav 2=535(LC 1), 5=535(LC 1)

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

TOP CHORD 2-3=-912/232, 3-4=-760/224, 4-5=-890/226

BOT CHORD 2-8=-202/794, 7-8=-208/786, 5-7=-185/768

#### 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 139 lb uplift at joint 2 and 139 lb uplift at joint 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.

9) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 111 lb down and 121 lb up at 2-5-4, 60 lb down and 41 lb up at 4-3-0, and 60 lb down and 41 lb up at 6-3-0, and 111 lb down and 121 lb up at 8-0-12 on top chord, and 10 lb down at 2-5-4, 10 lb down at 4-3-0, and 10 lb down at 6-3-0, and 10 lb down at 8-0-0 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: 1-3=-70, 3-4=-70, 4-6=-70, 2-5=-20 Concentrated Loads (lb) Vert: 8=-2(B) 7=-2(B) 11=-2(B) 12=-2(B)

🗼 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED WITHS KRETERENCE PAGE MIL-74/3 fev. or 19/2/2/2 DEFORE USE. Design valid for use only with MITER® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANS/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



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

2-0-0 oc purlins (5-7-3 max.): 3-4.

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





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



16023 Swingley Ridge Rd Chesterfield, MO 63017







TOP CHORD

BOT CHORD

Structural wood sheathing directly applied.

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

#### LUMBER-

TOP CHORD	2x4 SPF 2100F 1.8E *Except*
	4-6: 2x4 SPF 2400F 2.0E
BOT CHORD	2x4 SPF No.2 *Except*
	3-9,5-7: 2x3 SPF No.2, 3-5: 2x6 SPF No.2
WEBS	2x3 SPF No.2

REACTIONS. (lb/size) 6=462/0-3-8, 2=542/0-3-8 Max Horz 2=61(LC 12) Max Uplift 6=-64(LC 9), 2=-86(LC 8)

FORCES. (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) or less except when shown. TOP CHORD 2-3=-281/72, 3-4=-1075/103, 4-5=-1075/118, 5-6=-260/49 BOT CHORD 3-8=-57/961, 5-8=-58/966 WEBS 4-8=-18/512

#### 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 64 lb uplift at joint 6 and 86 lb uplift at joint 2.

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



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WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and property incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601 16023 Swingley Ridge Rd Chesterfield, MO 63017



			2-6-0			2-4-3				
LOADING TCLL TCDL BCLL	(psf) 25.0 10.0 0.0 *	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES	CSI. TC 0.20 BC 0.30 WB 0.00 Matrix B	DEF Vert( Vert( Horz	in LL) -0.03 CT) -0.05 (CT) 0.03	(loc) 6 7 5	l/defl >999 >999 n/a	L/d 360 240 n/a	PLATES MT20	<b>GRIP</b> 197/144
BCDL	10.0	Code IRC2018/TPI2014	Matrix-R	Wind	(LL) 0.03	6	>999	240	Weight: 16 lb	FT = 10%

TOP CHORD

BOT CHORD

#### LUMBER-

 TOP CHORD
 2x4 SPF No.2

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

 3-7: 2x3 SPF No.2

 WEBS
 2x3 SPF No.2

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

Max Horz 8=111(LC 5) Max Uplift 8=-44(LC 8), 5=-57(LC 8)

Max Grav 8=285(LC 1), 5=202(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-8=-262/67

#### 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 44 lb uplift at joint 8 and 57 lb uplift at joint 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.



11111

Structural wood sheathing directly applied or 4-10-3 oc purlins,

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

except end verticals.

# MiTek<sup>®</sup>

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

16023 Swingley Ridge Rd Chesterfield, MO 63017



			2-6-0 2-6-0	<u></u>	
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 0.08 BC 0.07 WB 0.00 Matrix-R	DEFL.         in           Vert(LL)         -0.00           Vert(CT)         -0.00           Horz(CT)         -0.00           Wind(LL)         0.00	(loc) l/defl L/d 3 >999 360 3 >999 240 5 n/a n/a 3 >999 240	PLATES         GRIP           MT20         197/144           Weight: 11 lb         FT = 10%

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

BOT CHORD

Structural wood sheathing directly applied or 2-10-3 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=64(LC 8) Max Uplift 8=-15(LC 8), 4=-34(LC 8), 5=-2(LC 8)

Max Grav 8=213(LC 1), 4=67(LC 1), 5=84(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 15 lb uplift at joint 8, 34 lb uplift at joint 4 and 2 lb uplift at joint 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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		2-6-0	6-11-4	1	
		2-6-0	4-5-4	1	
Plate Offsets (X,Y)	[5:Edge,0-2-8], [8:0-5-9,0-1-8]				
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc)	l/defl L/d	PLATES GRIP
TCLL 25.0	Plate Grip DOL 1.15	TC 0.53	Vert(LL) -0.12 5-6	>683 360	MT20 197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.51	Vert(CT) -0.21 5-6	>377 240	
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT) 0.10 5	n/a n/a	
BCDL 10.0	Code IRC2018/TPI2014	Matrix-R	Wind(LL) 0.09 5-6	>881 240	Weight: 22 lb FT = 10%

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 TOP CHORD
 2x4 SPF No.2

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

 3-7:
 2x3 SPF No.2

 WEBS
 2x6 SPF No.2 \*Except\*

 4-5:
 2x3 SPF No.2

 
 BRACING 

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

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

- REACTIONS. (size) 8=0-3-8, 5=Mechanical
  - Max Horz 8=124(LC 5) Max Uplift 8=-11(LC 8), 5=-30(LC 8) Max Grav 8=381(LC 1), 5=291(LC 1)

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

 TOP CHORD
 2-8=-365/32, 2-3=-281/7

#### 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 11 lb uplift at joint 8 and 30 lb uplift at joint 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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Plate Offsets (X	Y) [4:Edge,0-2-8]										
LOADING (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC	0.68	Vert(LL)	-0.09	4-5	>914	360	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC	0.40	Vert(CT)	-0.19	4-5	>431	240		
BCLL 0.0	* Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.00	4	n/a	n/a		
BCDL 10.0	Code IRC2018/	TPI2014	Matri	x-R	Wind(LL)	0.03	4-5	>999	240	Weight: 21 lb	FT = 10%
LUMBER-					BRACING-						

TOP CHORD

BOT CHORD

#### LUMBER-

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

#### REACTIONS.

(size) 5=0-3-8, 4=Mechanical Max Horz 5=135(LC 5) Max Uplift 5=-11(LC 8), 4=-29(LC 8)

Max Grav 5=376(LC 1), 4=298(LC 1)

FORCES. (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) or less except when shown. TOP CHORD 2-5=-326/59

#### 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 11 lb uplift at joint 5 and 29 lb uplift at joint 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.





	L		6-3-8				6-11-4		
			6-3-8				0-7-12		
Plate Offsets (X,Y)	[3:0-3-3,Edge], [4:Edge,0-2-8], [6:0-2-8	,Edge]							
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL 1.15	TC 0.62	Vert(LL)	-0.08	5-6	>999	360	MT20	197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.37	Vert(CT)	-0.17	5-6	>487	240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT)	0.01	4	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014	Matrix-R	Wind(LL)	0.02	5-6	>999	240	Weight: 20 lb	FT = 10%

TOP CHORD

BOT CHORD

#### LUMBER-

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

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

Max Horz 6=111(LC 5) Max Uplift 6=-6(LC 8), 4=-34(LC 8)

Max Grav 6=376(LC 1), 4=298(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-6=-363/58

#### 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) 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 6 lb uplift at joint 6 and 34 lb uplift at joint 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 6-0-0 oc purlins,

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

except end verticals.





	1	2-9-3	6-10-5	
	l l	2-9-3	4-1-1	
Plate Offsets (X,Y)	[5:Edge,0-2-8], [6:0-4-8,0-1-8]			
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 0.59	Vert(LL) -0.11 5-6 >757 360	MT20 197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.61	Vert(CT) -0.21 5-6 >387 240	
BCLL 0.0 *	Rep Stress Incr NO	WB 0.00	Horz(CT) 0.08 5 n/a n/a	
BCDL 10.0	Code IRC2018/TPI2014	Matrix-R	Wind(LL) 0.13 5-6 >631 240	Weight: 22 lb FT = 10%

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

BRACING-TOP CHORD

BOT CHORD

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

REACTIONS. (size) 8=0-4-9, 5=Mechanical Max Horz 8=121(LC 5) Max Uplift 8=-123(LC 4), 5=-95(LC 8)

Max Grav 8=419(LC 1), 5=314(LC 1)

FORCES. (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) or less except when shown. TOP CHORD 2-8=-399/147

#### 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.
- Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 123 lb uplift at joint 8 and 95 lb uplift at ioint 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.
- 7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 76 lb down and 45 lb up at 4-1-7, and 76 lb down and 45 lb up at 4-1-7 on top chord, and 27 lb down and 27 lb up at 4-1-7, and 27 lb down and 27 lb up at 4-1-7 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, 2-4=-70, 7-8=-20, 5-6=-20 Concentrated Loads (lb)
  - Vert: 10=-41(F=-20, B=-20)



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			2-0-0 2-0-0	<u></u>	
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	<b>CSI.</b> TC 0.07 BC 0.07 WB 0.00 Matrix-R	<b>DEFL.</b> Vert(LL) -0.0 Vert(CT) -0.0 Horz(CT) -0.0 Wind(LL) 0.0	n (loc) l/defl 0 3 >999 3 1 3 >999 2 0 5 n/a 0 3 >999 2	L/d PLATES GRIP 360 MT20 197/144 240 n/a 240 Weight: 10 lb FT = 10%

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

BOT CHORD

Structural wood sheathing directly applied or 2-10-3 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=64(LC 8) Max Uplift 8=-17(LC 8), 4=-34(LC 8), 5=-6(LC 8) Max Grav 8=211(LC 1), 4=69(LC 1), 5=65(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 17 lb uplift at joint 8, 34 lb uplift at joint 4 and 6 lb uplift at joint 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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Wind(LL)

BRACING-

TOP CHORD

BOT CHORD

6

>999

except end verticals.

240

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

Structural wood sheathing directly applied or 4-11-4 oc purlins,

Weight: 14 lb

FT = 10%

0.03

LUMBER-	
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BCDL

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

10.0

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

Max Horz 8=75(LC 8)

Max Uplift 4=-41(LC 8) Max Grav 8=290(LC 1), 4=142(LC 1), 5=79(LC 3)

Code IRC2018/TPI2014

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-8=-271/19

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.

Matrix-R

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 41 lb uplift at joint 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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			4-11-4	
LOADING (psf) TCLL 25.0	SPACING- 2-0-0 Plate Grip DOL 1.15	<b>CSI.</b> TC 0.36	DEFL.         in         (loc)         l/defl         L/d         PLATES         GRIP           Vert(LL)         -0.03         4-5         >999         360         MT20         197/144	
TCDL         10.0           BCLL         0.0 *           BCDL         10.0	Lumber DOL 1.15 Rep Stress Incr YES Code IRC2018/TPI2014	BC 0.22 WB 0.00 Matrix-R	Vert(CT)         -0.06         4-5         >999         240           Horz(CT)         0.02         3         n/a         n/a           Wind(LL)         0.02         4-5         >999         240	

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

BRACING-TOP CHORD

BOT CHORD

Structural wood sheathing directly applied or 4-11-4 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=75(LC 8) Max Uplift 3=-52(LC 8) Max Grav 5=290(LC 1), 3=151(LC 1), 4=91(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-5=-251/36

#### 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

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

3) \* This trust 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.

5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 52 lb uplift at joint 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.

# JUAN GARCIA NUMBER E-2000162101 SS/ONAL ENGINE 16952 BOR 16952 January 13,2021

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	H		3-11-5 3-11-5	
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 0.16 BC 0.11 WB 0.00 Matrix-P	DEFL.         in         (loc)         l/defl         L/d           Vert(LL)         -0.01         2-4         >999         360           Vert(CT)         -0.01         2-4         >999         240           Horz(CT)         -0.00         3         n/a         n/a           Wind(LL)         0.00         2         *****         240	PLATES         GRIP           MT20         197/144           Weight: 11 lb         FT = 10%

TOP CHORD

BOT CHORD

#### LUMBER-

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

REACTIONS. 3=Mechanical, 2=0-7-6, 4=Mechanical (size)

Max Horz 2=88(LC 6)

Max Uplift 3=-53(LC 6), 2=-107(LC 6)

Max Grav 3=64(LC 1), 2=141(LC 1), 4=60(LC 3)

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

#### NOTES-

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

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

- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 53 lb uplift at joint 3 and 107 lb uplift at ioint 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.
- 7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 29 lb down and 11 lb up at -1-2-14, and 29 lb down and 11 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=-44(F=-22, B=-22)

Trapezoidal Loads (plf)

Vert: 1=0(F=35, B=35)-to-5=-22(F=24, B=24), 5=0(F=35, B=35)-to-3=-69(F=1, B=1), 2=-2(F=9, B=9)-to-4=-20(F=0, B=0)



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

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



January 13,2021



			2-10-8		
LOADING         (psf)           TCLL         25.0           TCDL         10.0           BCLL         0.0 *           BCDL         10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2018/TPI2014	CSI. TC 0.08 BC 0.06 WB 0.00 Matrix-P	DEFL.         in         (Ic           Vert(LL)         -0.00         2           Vert(CT)         -0.01         2           Horz(CT)         -0.00         Wind(LL)         0.00	bc) l/defl L/d 2-4 >999 360 2-4 >999 240 3 n/a n/a 2 **** 240	PLATES         GRIP           MT20         197/144           Weight: 8 lb         FT = 10%

TOP CHORD

BOT CHORD

LUMBER-

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

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

Max Horz 2=73(LC 8)

Max Uplift 3=-47(LC 8), 2=-37(LC 8) Max Grav 3=74(LC 1), 2=210(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.

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

5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 47 lb uplift at joint 3 and 37 lb uplift at ioint 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.

## Will & PROXIM JUAN GARCIA NUMBER E-2000162101 TH GN E ONAL 1111 16952 January 13,2021

11111 MIS

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Structural wood sheathing directly applied or 2-10-8 oc purlins.

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

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



January 13,2021



LOADING	G (psf)	<b>SPACING-</b> 2-0-0	CSI.	DEFL.	in (loc	;) l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL 1.15	TC 0.12	Vert(LL) -0.0	1 :	2 >999	360	MT20	197/144
TCDL	10.0	Lumber DOL 1.15	BC 0.06	Vert(CT) -0.0	1 :	2 >999	240		
BCLL	0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT) 0.0	0 4	4 n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014	Matrix-P	Wind(LL) 0.0	1 :	2 >999	240	Weight: 11 lb	FT = 10%

BRACING-TOP CHORD

BOT CHORD

LUMBER-

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

REACTIONS. (size) 1=0-2-0, 3=Mechanical, 4=Mechanical

Max Horz 1=74(LC 8)

Max Uplift 1=-11(LC 8), 3=-63(LC 8)

Max Grav 1=164(LC 1), 3=138(LC 1), 4=49(LC 3)

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

#### NOTES-

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

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

- 5) Bearing at joint(s) 1 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 at joint(s) 1.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 11 lb uplift at joint 1 and 63 lb uplift at joint 3.
- 8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



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Structural wood sheathing directly applied or 3-9-0 oc purlins.

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

16023 Swingley Ridge Rd Chesterfield, MO 63017



	H		5-8-2 5-8-2	
LOADING (psf) TCLL 25.0 TCDI 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15	<b>CSI.</b> TC 0.45 BC 0.27	<b>DEFL.</b> in (loc) I/defl L/d Vert(LL) -0.04 4-5 >999 360 Vert(CT) -0.08 4-5 >847 240	PLATES         GRIP           MT20         197/144
BCLL 0.0 * BCDL 10.0	Rep Stress Incr NO Code IRC2018/TPI2014	WB 0.00 Matrix-R	Horz(CT) -0.00 4 n/a n/a Wind(LL) 0.01 4-5 >999 240	Weight: 17 lb FT = 10%

TOP CHORD

BOT CHORD

#### LUMBER-

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

REACTIONS. (size) 5=0-4-9, 4=Mechanical Max Horz 5=119(LC 22)

Max Uplift 5=-99(LC 4), 4=-54(LC 8)

Max Grav 5=353(LC 1), 4=236(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-5=-307/139

#### 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 99 lb uplift at joint 5 and 54 lb uplift at joint 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) 72 lb down and 46 lb up at 2-11-4, and 70 lb down and 40 lb up at 2-11-4 on top chord, and 5 lb down at 2-11-4, and 4 lb down and 0 lb up at 2-11-4 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=-3)



Structural wood sheathing directly applied or 5-8-2 oc purlins,

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

except end verticals.





		•	4-1-4
LOADING (psf)	SPACING- 2-0-0	<b>CSI.</b>	DEFL.         in         (loc)         l/defl         L/d         PLATES         GRIP           Vert(LL)         -0.01         4-5         >999         360         MT20         197/144
TCLL 25.0	Plate Grip DOL 1.15	TC 0.23	
TCDL         10.0           BCLL         0.0 *           BCDL         10.0	Lumber DOL 1.15	BC 0.14	Vert(CT) -0.03 4-5 >999 240
	Rep Stress Incr YES	WB 0.00	Horz(CT) 0.01 3 n/a n/a
	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 4-1-4 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=63(LC 8)

Max Uplift 3=-44(LC 8) Max Grav 5=254(LC 1), 3=124(LC 1), 4=75(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); 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 44 lb uplift at joint 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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16023 Swingley Ridge Rd Chesterfield, MO 63017



			2-0-3					
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 0.07 BC 0.03 WB 0.00 Matrix-R	DEFL. in Vert(LL) -0.00 Vert(CT) -0.00 Horz(CT) -0.00 Wind(LL) 0.00	(loc) 5 4-5 3 5	l/defl >999 >999 n/a >999	L/d 360 240 n/a 240	PLATES MT20 Weight: 6 lb	<b>GRIP</b> 197/144 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 2-0-3 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=47(LC 8)

Max Uplift 5=-21(LC 8), 3=-35(LC 8) Max Grav 5=170(LC 1), 3=48(LC 1), 4=35(LC 3)

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

#### NOTES-

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
  5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 21 lb uplift at joint 5 and 35 lb uplift at joint 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.







			•	2-0-3	
LOADING TCLL	(psf) 25.0	SPACING- 2-0-0 Plate Grip DOL 1.15	<b>CSI.</b> TC 0.05	DEFL.         in         (loc)         l/defl         L/d         PLATES         GRIP           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 CHORD 2x4 SPF No.2 BOT CHORD 2x4 SPF No.2 WEBS 2x3 SPF No.2 BRACING-TOP CHORD

BOT CHORD

Structural wood sheathing directly applied or 2-0-3 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=36(LC 5)

Max Uplift 2=-39(LC 8) Max Grav 4=83(LC 1), 2=62(LC 1), 3=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 39 lb uplift at joint 2.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



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LUMBER- TOP CHORD 2x4 SPF No.2				BRACING- TOP CHORD Structural wood sheathing directly app			irectly applied or 4-1	
BCDL	10.0	Code IRC2018/TPI2014	Matrix-R	Wind(LL) 0.0	2 3-4	>999	240	Weight: 18 II
BCLL	0.0 *	Rep Stress Incr NO	WB 0.00	Horz(CT) 0.0	0 3	n/a	n/a	
TODL	10.0	Lumper DOL 1.15	BC 0.58	vert(CT) -0.0	6 3-4	>/8/	240	

-4 oc purlins, BOT CHORD 2x6 SP DSS except end verticals. WEBS 2x6 SPF No.2 \*Except\* BOT CHORD Rigid ceiling directly applied or 9-4-10 oc bracing. 2-3: 2x4 SPF No.2

REACTIONS. (size) 4=0-3-8, 3=Mechanical Max Horz 4=99(LC 24) Max Uplift 4=-115(LC 8), 3=-151(LC 8)

Max Grav 4=815(LC 1), 3=868(LC 1)

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

#### NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 115 lb uplift at joint 4 and 151 lb uplift at joint 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) 1348 lb down and 211 lb up at 2-2-0 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 (lb)
  - Vert: 5=-1348(F)



FT = 10%



January 13,2021



		0-4-15	3-3-14 2-10-15	l
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 0.15 BC 0.07 WB 0.00 Matrix-P	DEFL.         in         (loc)         l/defl         L/d           Vert(LL)         -0.01         2-4         >999         360           Vert(CT)         -0.01         2-4         >999         240           Horz(CT)         -0.00         3         n/a         n/a           Wind(LL)         0.00         2         ****         240	PLATES         GRIP           MT20         197/144           Weight: 9 lb         FT = 10%

BRACING-TOP CHORD

BOT CHORD

#### LUMBER-

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

REACTIONS. (size) 3=Mechanical, 2=0-4-15, 4=Mechanical

Max Horz 2=81(LC 6)

Max Uplift 3=-52(LC 6), 2=-106(LC 6)

Max Grav 3=41(LC 1), 2=118(LC 1), 4=47(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 52 lb uplift at joint 3 and 106 lb uplift at joint 2.

- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 24 lb down and 9 lb up at -1-2-14, and 24 lb down and 9 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=-37(F=-19, B=-19)

Trapezoidal Loads (plf)

Vert: 1=0(F=35, B=35)-to-2=-25(F=22, B=22), 2=-4(F=33, B=33)-to-3=-58(F=6, B=6), 2=0(F=10, B=10)-to-4=-17(F=2, B=2)



Structural wood sheathing directly applied or 3-3-14 oc purlins.

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







		0-4-0	<u>2-5-4</u> 2-1-4		
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 0.05 WB 0.00 Matrix-P	DEFL.         in         (loc)           Vert(LL)         -0.00         2-4           Vert(CT)         -0.00         2-4           Horz(CT)         -0.00         3           Wind(LL)         0.00         2	l/defl L/d >999 360 >999 240 n/a n/a **** 240	PLATES         GRIP           MT20         197/144           Weight: 7 lb         FT = 10%

TOP CHORD

BOT CHORD

LUMBER-

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

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

Max Horz 2=64(LC 8)

Max Uplift 3=-39(LC 8), 2=-35(LC 8)

Max Grav 3=62(LC 1), 2=188(LC 1), 4=45(LC 3)

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

#### NOTES-

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

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

5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 39 lb uplift at joint 3 and 35 lb uplift at ioint 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.

## Will & PROXIM JUAN GARCIA NUMBER F -2000162101 3 6 E ONAL 1111 16952 January 13,2021

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

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



MULLIN III

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

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**MiTek** 16023 Swingley Ridge Rd Chesterfield, MO 63017







Max Grav All reactions 250 lb or less at joint(s) 1, 7, 10, 11, 9 except 12=277(LC 15), 8=278(LC 16)

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

#### NOTES-

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

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

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

4) Gable requires continuous bottom chord bearing.

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

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

7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 7 except (jt=lb) 11=126, 12=182, 9=125, 8=183.

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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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=143, 12=131, 9=142, 8=131.

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.



16023 Swingley Ridge Rd Chesterfield, MO 63017



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

Mitek<sup>®</sup> 16023 Swingley Ridge Rd Chesterfield, MO 63017



TOP CHORD

BOT CHORD

#### LUMBER-

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

REACTIONS. All bearings 5-5-7.

Max Horz 1=72(LC 5) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 7, 6

Max Grav All reactions 250 lb or less at joint(s) 1, 5, 7, 6

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 100 lb uplift at joint(s) 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.



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

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

**MiTek** 16023 Swingley Ridge Rd Chesterfield, MO 63017
						RELEASE FOR
Job	Truss	Truss Type	Qty	Ply	Lot 80 W0	
210213	LAY7	GABLE	1	1	Job Reference (opt	ional) DEVELOPMENT SERVICES
Wheeler Lumber, Wa	averly, KS - 66871,		8.	430 s Nov	30 2020 MiTek Indu	stries, IncLEE'SaSUMMITOSUSSOURI
		1	7-9-8		IZELZINEKI-ZIDOK_IWI	02/12/2021
		I	7-9-0			
			3x6	11		Scale = 1:111.9
		Ţ	13.42 12	A	I	
			10 /1			
		3×	9	×	8-4	
			_ 8		တ်	
		<u>.</u>	6			
		-10-1	a B		Ī	
		5	<b>1 1 1 1 1 1 1 1 1 1</b>	3x6		
			8 8	13	2-7	
		3	14		10-:1	
			15	2 12		
		21 20 19 18	<sup>3</sup> 17 16			
		3x4 1/	3x4 1/			
		<u>8-7-15</u> 8-7-15	<u>17-9-8</u> 9-1-8			
LOADING (psf)	SPACING- 2-0-	-0 <b>CSI</b> .	DEFL. in	(loc)	l/defl L/d	PLATES GRIP
TCLL 25.0 TCDI 10.0	Plate Grip DOL 1.1	5 TC 0.40	Vert(LL) n/a	-	n/a 999 n/a 999	MT20 197/144
BCLL 0.0 *	Rep Stress Incr YE	S WB 0.11	Horz(CT) -0.01	12	n/a n/a	
						Weight. 130 ID FT = 10%
TOP CHORD 2x4 SPF	No.2		BRACING- TOP CHORD	Structura	al wood sheathing	directly applied or 5-11-1 oc purlins,
BOT CHORD 2x4 SPF WEBS 2x4 SPF	No.2 No.2		BOT CHORD	except e Rigid ce	end verticals. iling directly applied	d or 10-0-0 oc bracing, Except:
OTHERS 2x4 SPF	No.2		WEBS	6-0-0 oc	bracing: 14-15,12-	-13. -11.12 10-13 9-14 8-15 6-16 5-18
REACTIONS. All bear	ings 17-9-8.		11200	1110111	i mapi	11 12, 10 10, 0 11, 0 10, 0 10, 0 10
(ib) - Max Hol Max Upli	ft All uplift 100 lb or less at	joint(s) except 12=-286(LC 7), 1=-349(	(LC 6), 17=-111(LC 4	), 13=-13	9(LC	
	8), 14=-133(LC 8), 15=-13 8)	7(LC 8), 16=-133(LC 8), 18=-140(LC 8	s), 19=-135(LC 8), 20	=-137(LC	8), 21=-130(LC	AND DEC
Max Gra	v All reactions 250 lb or les	s at joint(s) 12, 17, 13, 14, 15, 16, 18,	19, 20, 21 except 1=	743(LC 8)	)	E OF MISS
FORCES. (lb) - Max. Co	omp./Max. Ten All forces 2 09/519 2-3=-888/473 3-4=-	50 (lb) or less except when shown. 748/419 4-5=-612/367 5-6=-475/314				
6-8=-38	39/262, 8-9=-310/209, 9-10=-	277/185				GARCIA
BOT CHORD 12-13=	-270/199					
1) Wind: ASCE 7-16; Vul	t=115mph (3-second gust) Va	asd=91mph; TCDL=6.0psf; BCDL=6.0	psf; h=25ft; Cat. II; E	xp C; End	closed;	NUMBER
MWFRS (envelope) ga grip DOL=1.60	able end zone; cantilever left	and right exposed ; end vertical left an	d right exposed; Lurr	ber DOL:	=1.60 plate	O. E-2000162101
<ol> <li>All plates are 2x4 MT2</li> <li>Gable requires continu</li> </ol>	0 unless otherwise indicated					TOS ENGLI
<ul> <li>4) This truss has been de</li> <li>5) * This truss has been de</li> </ul>	esigned for a 10.0 psf bottom	chord live load nonconcurrent with an	y other live loads.	C toll by	2.0.0 wide	I I I I I I I I I I I I I I I I I I I
will fit between the bot	tom chord and any other mer	nbers.	where a rectangle 5-c		2-0-0 wide	AMUUL.
<li>6) Provide mechanical co joint 1, 111 lb uplift at j</li>	onnection (by others) of truss oint 17, 139 lb uplift at joint 1	to bearing plate capable of withstandii 3, 133 lb uplift at joint 14, 137 lb uplift	ng 286 lb uplift at join at joint 15, 133 lb upl	it 12, 349 lift at joint	lb uplift at 16, 140 lb	WAN GARCIA
uplift at joint 18, 135 lb 7) Beveled plate or shim	uplift at joint 19, 137 lb uplift required to provide full bearir	at joint 20 and 130 lb uplift at joint 21. In surface with truss chord at joint(s) 1	2, 13, 14, 15, 16.			CENSED
<ol> <li>This truss is designed referenced standard A</li> </ol>	in accordance with the 2018 NSI/TPI 1	International Residential Code section	s R502.11.1 and R80	02.10.2 aı	nd	$\Xi$ / $\Box$ $\Lambda$ $\Xi$
						E 16952 E
						ANSR3 A
						SONAL EN
						January 13,2021



Job	Truss	Truss Type	Qty	Ply	Lot 80 W0	RELEASE FOR CONSTRUCTION
210213	LAY8	GABLE	1	1		
Wheeler Lumber,	Naverly, KS - 66871,		8	.430 s Nov	30 2020 MiTek Indu	
		L	ID:hquPfxpp0CdNH 10-5-8	VhMuPizel ——⊣	_zNEki-1xkUeKMyEl	RQ4E42p2dQpzvTDW_1gM2OAxVhNjhzw35J 02/12/2021
		- -	10-5-8	7		
		$ \begin{array}{c} 13.42\\ 13.42\\ \begin{array}{c} 13.$	6 12 5 4 4 5 8 3x 11 13.42 5 5 8 3x 11 13.42 5 5 8 11 13.42 5 5 8 11 13.42 5 5 8 11 13.42 12 13.42 13.42 14 15 15 15 15 15 15 15 15 15 15		0-10-14	Scale = 1:82.7
		→ 3-6-8 3-6-8	<u>9-7-12</u> 6-1-4	10-5 <sub>1</sub> 8 0-9-12		
LOADING(psf)TCLL25.0TCDL10.0BCLL0.0BCDL10.0	SPACING- 2-0 Plate Grip DOL 1.1 Lumber DOL 1.1 Rep Stress Incr YE Code IRC2018/TPI2014	0 <b>CSI.</b> 5 TC 0.08 5 BC 0.04 S WB 0.25 Matrix-S	DEFL. in Vert(LL) n/a Vert(CT) n/a Horz(CT) -0.00	n (loc) a - a - 9 9	l/defl L/d n/a 999 n/a 999 n/a n/a	PLATES         GRIP           MT20         197/144           Weight:         88 lb         FT = 10%
LUMBER- TOP CHORD 2x4 SF BOT CHORD 2x4 SF WEBS 2x4 SF 2-14: 2 OTHERS 2x4 SF REACTIONS. All be (lb) - Max H	F No.2 F No.2 F No.2 *Except* x3 SPF No.2 F No.2 earings 10-5-8. orz 15=464(LC 8)		BRACING- TOP CHORD BOT CHORD WEBS	Structur except e Rigid ce 1 Row a	al wood sheathing and verticals. iling directly applied t midpt	directly applied or 6-0-0 oc purlins, d or 6-0-0 oc bracing. 7-8
Max U Max G	plift All uplift 100 lb or less at 8), 14=-966(LC 8) rav All reactions 250 lb or les	oint(s) 8 except 15=-434(LC 6), 10: s at joint(s) 8, 13, 9, 10, 11, 12 exce	=-144(LC 8), 11=-132(I ept 15=1259(LC 8), 14=	-C 8), 12= =480(LC 6	-152(LC )	OF MISS
FORCES. (Ib) - Max. TOP CHORD 1-15: BOT CHORD 14-11 WEBS 2-15: NOTES- 1) Wind: ASCE 7-16; V MWFRS (envelope) 2) All plates are 2x4 M 3) Gable requires cont 4) This truss has been 5) * This truss has been 5) * This truss has been 6) Provide mechanical 15=434, 10=144, 11 7) Beveled plate or shi 8) This truss is designer referenced standard	Comp./Max. Ten All forces 2: -301/120, 2-3=-592/240, 3-4=- 5=-426/166 -935/329, 2-14=-371/951 /ult=115mph (3-second gust) Va gable end zone; cantilever left T20 unless otherwise indicated nuous bottom chord bearing. designed for a 10.0 psf bottom n designed for a live load of 20. ottom chord and any other mer connection (by others) of truss =132, 12=152, 14=966. m required to provide full bearir d in accordance with the 2018 ANSI/TPI 1.	50 (lb) or less except when shown. 483/196, 4-5=-337/141 asd=91mph; TCDL=6.0psf; BCDL= and right exposed ; Lumber DOL=1 chord live load nonconcurrent with 0psf on the bottom chord in all area nbers. to bearing plate capable of withstar ig surface with truss chord at joint(s International Residential Code sect	6.0psf; h=25ft; Cat. II; E .60 plate grip DOL=1.6 any other live loads. as where a rectangle 3- nding 100 lb uplift at joi s) 8, 9, 10, 11, 12. ions R502.11.1 and R8	Exp C; Enc 0 6-0 tall by nt(s) 8 exc 02.10.2 a	closed; 2-0-0 wide ept (jt=lb) nd	JUAN GARCIA NUMBER E-2000162101
						PROFILES/ONAL ENGINE

January 13,2021





OADING         (psf)         SPA           CLL         25.0         Plate           CDL         10.0         Lumb           CLL         0.0 *         Rep           CDL         10.0         Cumb	CING-         2-0-0           Grip DOL         1.15           Der DOL         1.15           Stress Incr         YES           VEC2048/CE12044         VEC2044/CE12044	<b>CSI.</b> TC 0.22 BC 0.11 WB 0.06	DEFL. Vert(LL) Vert(CT) Horz(CT)	in n/a n/a -0.00	(loc) - - 4	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20	<b>GRIP</b> 197/144
	FIRC2010/1112014	Ivid(IIX-F						Weight. 23 lb	FT = 1078

BOT CHORD

## LUMBER-

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

REACTIONS. (size) 1=8-0-0, 4=8-0-0, 5=8-0-0 Max Horz 1=152(LC 5)

Max Uplift 4=-26(LC 5), 5=-124(LC 8)

Max Grav 1=117(LC 16), 4=136(LC 1), 5=412(LC 1)

FORCES. (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) or less except when shown. 2-5=-320/179 WEBS

#### NOTES-

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

2) Gable requires continuous bottom chord bearing.

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

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

5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4 except (jt=lb) 5 = 124

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.





LOADING TCLL	(psf) 25.0	SPACING- Plate Grip DOL	2-0-0 1.15 1.15	CSI. TC BC	0.55	DEFL. Vert(LL)	in n/a n/a	(loc) -	l/defl n/a	L/d 999	PLATES MT20	<b>GRIP</b> 197/144
BCLL BCDL	0.0 * 10.0	Rep Stress Incr Code IRC2018/TF	YES 912014	WB Matri	0.00 x-P	Horz(CT)	-0.00	3	n/a	n/a	Weight: 16 lb	FT = 10%

LUMBER-

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

BRACING-TOP CHORD

Structural wood sheathing directly applied or 6-0-8 oc purlins, except end verticals. Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 1=6-0-0, 3=6-0-0 Max Horz 1=111(LC 5) Max Uplift 1=-31(LC 8), 3=-59(LC 8) Max Grav 1=239(LC 1), 3=239(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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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 0.20 BC 0.11 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           Weight:         10 lb         FT = 10%
LUMBER-			BRACING-

BOT CHORD

LUMBER-

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

2x3 SPF No.2 REACTIONS.

1=4-0-0, 3=4-0-0 (size) Max Horz 1=69(LC 5) Max Uplift 1=-19(LC 8), 3=-36(LC 8) Max Grav 1=149(LC 1), 3=149(LC 1)

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

### NOTES-

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

2) Gable requires continuous bottom chord bearing.

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



11 1111 MIS

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Structural wood sheathing directly applied or 4-0-8 oc purlins,

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

except end verticals.





LOADING (psf) SPACING-2-0-0 CSI. DEFL. l/defl L/d PLATES GRIP in (loc) TCLL 25.0 Plate Grip DOL 1.15 тс Vert(LL) 999 197/144 0.03 n/a n/a MT20 TCDL 10.0 Lumber DOL 1.15 BC 0.01 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 Code IRC2018/TPI2014 BCDL 10.0 Matrix-P Weight: 4 lb FT = 10% LUMBER-BRACING-

TOP CHORD

BOT CHORD

TOP CHORD 2x4 SPF No.2

BOT CHORD2x4 SPF No.2WEBS2x3 SPF No.2

REACTIONS. (size) 1=2-0-0, 3=2-0-0 Max Horz 1=27(LC 5) Max Uplift 1=-8(LC 8), 3=-14(LC 8) Max Grav 1=59(LC 1), 3=59(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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Structural wood sheathing directly applied or 2-0-8 oc purlins,

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

except end verticals.

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

MITEK<sup>®</sup> 16023 Swingley Ridge Rd Chesterfield, MO 63017



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 0.23 BC 0.12 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: 11 lb         FT = 10%
LUMBER-			BRACING-	

BOT CHORD

LUMBER-

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

2x3 SPF No.2 REACTIONS. 1=4-2-12, 3=4-2-12 (size)

Max Horz 1=74(LC 5) Max Uplift 1=-20(LC 8), 3=-39(LC 8) Max Grav 1=159(LC 1), 3=159(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 4-3-4 oc purlins,

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

except end verticals.





LOADING         (psf)           TCLL         25.0           TCDL         10.0           BCLL         0.0         *           BCDL         10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2018/TPI2014	CSI. TC 0.04 BC 0.02 WB 0.00 Matrix-P	DEFL. Vert(LL) r Vert(CT) r Horz(CT) -0.0	in (loc) µ/a - n/a - 00 3	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20 Weight: 5 lb	<b>GRIP</b> 197/144 FT = 10%
LUMBER-	PE No 2		BRACING-	Structu	ural wood	shoothing di	ractly applied or 2.2	4 oc purling

BOT CHORD

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except end verticals.

Structural wood sheathing directly applied or 2-3-4 oc purlins,

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

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

REACTIONS. 1=2-2-12, 3=2-2-12 (size) Max Horz 1=32(LC 5) Max Uplift 1=-9(LC 8), 3=-17(LC 8) Max Grav 1=69(LC 1), 3=69(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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	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	<b>CSI.</b> TC 0.19 BC 0.10 WB 0.05 Matrix-P	DEFL. in Vert(LL) n/a Vert(CT) n/a Horz(CT) -0.00	(loc) - - 4	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20 Weight: 18 lb	<b>GRIP</b> 197/144 FT = 10%
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BOT CHORD

# LUMBER-

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

REACTIONS. (size) 1=6-8-12, 4=6-8-12, 5=6-8-12

Max Horz 1=126(LC 5) Max Uplift 4=-28(LC 8), 5=-109(LC 8)

Max Grav 1=58(LC 16), 4=143(LC 1), 5=364(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. 2-5=-283/158 WEBS

### NOTES-

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

2) Gable requires continuous bottom chord bearing.

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

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

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



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

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

except end verticals.





BOT CHORD

LUMBER-

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

REACTIONS. 1=4-8-12, 3=4-8-12 (size)

Max Horz 1=84(LC 5) Max Uplift 1=-23(LC 8), 3=-45(LC 8)

Max Grav 1=182(LC 1), 3=182(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 4-9-4 oc purlins,

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

except end verticals.





LOADING         (psf)           TCLL         25.0           TCDL         10.0           BCLL         0.0         *           BCDL         10.0	SPACING-2-0-0Plate Grip DOL1.15Lumber DOL1.15Rep Stress IncrYESCode IRC2018/TPI2014	CSI. TC 0.09 BC 0.05 WB 0.00 Matrix-P	<b>DEFL.</b> in (loc) I/defl L/d Vert(LL) n/a - n/a 999 Vert(CT) n/a - n/a 999 Horz(CT) -0.00 3 n/a n/a	PLATES         GRIP           MT20         197/144           Weight: 7 lb         FT = 10%
LUMBER-			BRACING-	

BOT CHORD

LUMBER-

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

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

Max Horz 1=49(LC 5) Max Uplift 1=-14(LC 8), 3=-26(LC 8)

Max Grav 1=106(LC 1), 3=106(LC 1)

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

### NOTES-

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

2) Gable requires continuous bottom chord bearing.

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



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**MiTek** 16023 Swingley Ridge Rd Chesterfield, MO 63017

Structural wood sheathing directly applied or 3-1-0 oc purlins,

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

except end verticals.



LOADING         (psf)           TCLL         25.0           TCDL         10.0           BCLL         0.0 *           BCDL         10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2018/TPI2014	CSI. TC 0.09 BC 0.05 WB 0.00 Matrix-P	<b>DEFL.</b> in (loc) I/defl L/d Vert(LL) n/a - n/a 999 Vert(CT) n/a - n/a 999 Horz(CT) -0.00 3 n/a n/a	<b>PLATES GRIP</b> MT20 197/144 Weight: 7 lb FT = 10%
LUMBER-			BRACING-	

BOT CHORD

LUMBER-

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

REACTIONS. 1=3-0-0, 3=3-0-0 (size) Max Horz 1=48(LC 5)

Max Uplift 1=-13(LC 8), 3=-25(LC 8)

Max Grav 1=104(LC 1), 3=104(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 3-0-8 oc purlins,

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

except end verticals.



