RE: 3524715 Summit/HM #13	39				MiTek L 16023 Swi Chesterfiel	JSA, Inc ngley Ridge Rd d, MO 53017
Site Information:					314-434-12	200
Customer: Project Lot/Block:	Name: 3524715	Model:				
Address:		Subdivi	sion:			
City:	\mathbf{X}	State:				
General Truss Engir Loading Conditions	neering Criteria	& Design Loa	ads (In	dividual Truss	Design Drawings	Show Special
Design Code: IRC20 Wind Code: ASCE 7-1 Poof Load: 45.0 psf	018/TPI2014 16		Des Wir	sign Program: M nd Speed: 115 m or Load: N/A ps	iTek 20/20 8.5 ph f	
This package includes 6	7 individual dated	Truss Design	Drawing	or Load. N/A ps	a Drawings	
This puckage moldues o		in ass besign	Drawing		Drawings.	
No. Seal# 1 I53508621 2 I53508622 3 I53508623 4 I53508623 4 I53508624 5 I53508625 6 I53508627 8 I53508628 9 I53508629 10 I53508630 11 I53508632 13 I53508632 13 I53508633 14 I53508635 16 I53508637 18 I53508638 19 I53508639 20 I53508640	Truss Name A1 A2 A3 A4 A5 A6 A7 A8 A9 B1 B1A B2 B3 CJ1 CJ2 CJ3 CJ4 CJ5 CJ6 CJ7	Date 8/5/2022	No. 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40	Seal# 153508641 153508642 153508643 153508644 153508645 153508646 153508647 153508647 153508649 153508650 153508650 153508651 153508653 153508653 153508655 153508656 153508657 153508658 153508659 153508660	Truss Name CJ8 CJ9 D1 D2 E1 E2 E3 E4 F1 F2 F3 F4 J1 J2 J3 J4 J5 J6 J7 J8	Date 8/5/2022
The truss drawing(s) reference MiTek USA, Inc under my di based on the parameters provi Truss Design Engineer's Nam My license renewal date fo Kansas COA: E-943 IMPORTANT NOTE: The sear on that the engineer named is focens designs comply with ANS/TPI 1. shown (e.g., loads, supports, dim given to MiTek. Any project spe- customers file reference purpose these designs. MiTek has not in parameters or the designs for any should verify applicability of desig into the overall building design per	ed above bave been rect supervision ded by Builders Firs e: Barcia, Juan or the state of Kan these truss componen- ed in the jurisdiction(s These designs are ba ensions, shapes and o cific information includ a only, and was not tak dependently verified th y particular building. E in parameters and pro ar ANSI/TPI 1, Chapter	prepared by stSource (Valley sas is April 30, nt designs is a cert) identified and tha ased upon parame design codes), while de is for MiTek ten into account in ne applicability of the fore use, the buil perly incorporate the 2.	Center). , 2024. ification t the ters ch were the prepa he design ding design hese desi	aration of gner gns	JUAN GAROA GENSEO 16952 Taylaas	
			-			August 05, 2022
		1 of	2	Garci	a, Juan	\sim





RE: 3524715 Summit/HM #139

Site Information:

Customer: Project Name: 3524715 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: ASCE 7-16 Roof Load: 45.0 psf Design Program: MiTek 20/20 8.5 Wind Speed: 115 mph Floor Load: N/A psf

This package includes 67 individual, dated Truss Design Drawings and 0 Additional Drawings.

3 I53508623 A 4 I53508624 A 5 I53508625 A 6 I53508626 A 7 I53508627 A 8 I53508629 A 9 I53508630 E 10 I53508631 E 12 I53508632 E 13 I53508633 E 14 I53508635 G 15 I53508636 G 16 I53508637 G 17 I53508637 G 18 I53508638 G	A5 A6 A7 A8 A9 B1 B1A B3 CJ1 CJ2 CJ3 CJ4 CJ5	8/5/2022 8/5/2022 8/5/2022 8/5/2022 8/5/2022 8/5/2022 8/5/2022 8/5/2022 8/5/2022 8/5/2022 8/5/2022 8/5/2022 8/5/2022 8/5/2022 8/5/2022	24 25 26 27 28 29 30 31 32 33 34 35 36 37 38	153508644 153508645 153508646 153508647 153508648 153508650 153508651 153508651 153508652 153508653 153508654 153508655 153508656 153508657 153508658	D2 E1 E2 E3 E4 F1 F2 F3 F4 J1 J2 J3 J4 J5 J6	8/5/2022 8/5/2022 8/5/2022 8/5/2022 8/5/2022 8/5/2022 8/5/2022 8/5/2022 8/5/2022 8/5/2022 8/5/2022 8/5/2022 8/5/2022 8/5/2022 8/5/2022 8/5/2022
17 153508637 0 18 153508638 0 19 153508639 0 20 153508640 0	CJ4	8/5/2022	37	153508657	J5	8/5/2022
	CJ5	8/5/2022	38	153508658	J6	8/5/2022
	CJ6	8/5/2022	39	153508659	J7	8/5/2022
	CJ7	8/5/2022	40	153508660	J8	8/5/2022

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

based on the parameters provided by Builders FirstSource (Valley Center). Truss Design Engineer's Name: Garcia, Juan

My license renewal date for the state of Missouri is December 31, 2024. 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.



MiTek USA, Inc.

314-434-1200

16023 Swingley Ridge Rd Chesterfield, MO 63017



RE: 3524715 - Summit/HM #139

Site Information:

Project Lot/Bloc Address	Customer: ck: S:	Project Name: 35	524715	Sub	division:
City, Co	unty:			Stat	e:
No S	eal#	Truss Name	Date		

NO.	Seal#	Truss Name	Date
41	153508661	J9	8/5/2022
42	153508662	J10	8/5/2022
43	153508663	J11	8/5/2022
44	153508664	J12	8/5/2022
45	153508665	J13	8/5/2022
46	153508666	J14	8/5/2022
47	153508667	J15	8/5/2022
48	153508668	J16	8/5/2022
49	153508669	J17	8/5/2022
50	153508670	J18	8/5/2022
51	153508671	J19	8/5/2022
52	153508672	J20	8/5/2022
53	153508673	J21	8/5/2022
54	153508674	J22	8/5/2022
55	153508675	J23	8/5/2022
56	153508676	J24	8/5/2022
57	153508677	J25	8/5/2022
58	153508678	J26	8/5/2022
59	153508679	J27	8/5/2022
60	153508680	J28	8/5/2022
61	153508681	L1	8/5/2022
62	153508682	LG1	8/5/2022
63	153508683	LG2	8/5/2022
64	153508684	LG3	8/5/2022
65	153508685	V1	8/5/2022
66	153508686	V2	8/5/2022
67	153508687	V3	8/5/2022

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



5-17=-325/1180, 6-17=-343/115, 8-17=-326/1179, 8-16=-1162/314, 9-16=-847/3524, 9-14=-122/682, 10-14=-363/1573, 10-13=-902/250

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=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60

- 3) Provide adequate drainage to prevent water ponding.
- 4) All plates are MT20 plates unless otherwise indicated.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=790 11=790
- 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) Use Simpson Strong-Tie LUS24 (4-10d Girder, 2-10d Truss, Single Ply Girder) or equivalent spaced at 2-0-0 oc max. starting at 8-0-12 from the left end to 23-11-4 to connect truss(es) to back face of bottom chord.
- 10) Fill all nail holes where hanger is in contact with lumber.
- 11) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 547 lb down and 132 lb up at 7-2-4, and 547 lb down and 132 lb up at 24-9-12 on bottom chord. The design/selection of such connection device(s) is the Continesponsibilityeo2 others.





DELEASE FOR CONSTRUCTION						
KELEASE FOR CONSTRUCTION	Truss Type	Qtv Plv Summit/HM #139				
AS NOTED ON PLANS REVIEW			153508621			
DFVFOPMENT SERVICES	Hip Girder	1 1				
		Job Reference (optional)				
Builders HistSource (Valley Center),	alley Center, KS - 67147,	8.530 s Dec 6 2021 MiTek Industries, Inc. Fri Aug 5 0	9:24:23 2022 Page 2			
05/21/2022 2.00.11	ID:icBMJaMgT1gasuUyx9?RhvzDEHb-ikEf3TSgioV9259UcWne?Q4F4ecJ3Fg?6K5uFUygxbc					

05/31/2023 3:09:44 12) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-4=-70, 4-9=-70, 9-12=-70, 22-25=-20 Concentrated Loads (lb)

Vert: 19=-284(B) 20=-547(B) 17=-284(B) 14=-547(B) 15=-284(B) 28=-284(B) 29=-284(B) 30=-284(B) 31=-284(B) 32=-284(B) 33=-284(B) 33=-2







L	9-2-4	16-0-0	22-9	-12		32-0-0	
1	9-2-4	6-9-12	6-9-	12		9-2-4	
Plate Offsets (X,Y)	[2:0-4-13,Edge], [10:0-4-13,Edge]						
LOADING (psf) TCLL 25.0 TCDL 10.0 BCLL 0.0 BCDL 10.0	SPACING-2-0-0Plate Grip DOL1.15Lumber DOL1.15Rep Stress IncrYESCode IRC2018/TPI2014	CSI. TC 0.76 BC 0.97 WB 0.23 Matrix-AS	DEFL. ir Vert(LL) -0.31 Vert(CT) -0.56 Horz(CT) 0.14	i (loc) l/defl 14 >999 i 12-14 >692 i 10 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 121 lb	GRIP 197/144 FT = 20%
LUMBER- TOP CHORD 2x4 SF 5-7: 2x BOT CHORD 2x4 SF WEBS 2x4 SF SLIDER Left 2x	PF No.2 *Except* 4 SPF 1650F 1.5E PF No.2 PF No.2 4 SPF No.2 2-6-0, Right 2x4 SPF No.2 2	2-6-0	BRACING- TOP CHORD BOT CHORD	Structural wood s 2-0-0 oc purlins (Rigid ceiling dire	sheathing direc (3-2-8 max.): 5 ctly applied.	otly applied, except 7.	
REACTIONS. (size Max H Max U Max G	e) 2=0-3-8, 10=0-3-8 lorz 2=-56(LC 13) plift 2=-313(LC 8), 10=-313(LC 9) ;rav 2=1571(LC 1), 10=1571(LC 1)					NUL OF	MISS
FORCES. (lb) - Max. TOP CHORD 2-4=- 8-10= BOT CHORD 2-16= WEBS 5-16=	Comp./Max. Ten All forces 250 (lb) or -3016/623, 4-5=-2941/587, 5-6=-3516/72 =-3016/623 =-508/2789, 14-16=-442/2792, 12-14=-4 =0/261, 5-14=-197/947, 6-14=-574/195,	less except when shown. 25, 6-7=-3516/724, 7-8=-2 50/2792, 10-12=-517/278 7-14=-197/947, 7-12=0/26	9941/587, 9 61			GAF	AN RCIA
 NOTES- 1) Unbalanced roof live 2) Wind: ASCE 7-16; V MWFRS (envelope) Interior(1) 13-8-9 to vertical left and right 3) Provide adequate di 4) This truss has been 5) Provide mechanical 2=313, 10=313. 6) This truss is designer referenced standard 7) This truss design re- sheetrock be apolier 	e loads have been considered for this de /ult=115mph (3-second gust) Vasd=91m gable end zone and C-C Exterior(2E) -1 22-9-12, Exterior(2R) 22-9-12 to 27-4-1, t exposed;C-C for members and forces & rainage to prevent water ponding. designed for a 10.0 psf bottom chord liv connection (by others) of truss to bearin ed in accordance with the 2018 Internation I ANSI/TPI 1. quires that a minimum of 7/16" structura d directly to the bottom chord.	sign. ph; TCDL=6.0psf; BCDL= -10-8 to 1-3-14, Interior(1 Interior(1) 27-4-1 to 33-1 & MWFRS for reactions sh e load nonconcurrent with g plate capable of withsta onal Residential Code sec	=4.2psf; h=15ft; Cat. II; E) 1-3-14 to 9-2-4, Exterio 0-8 zone; cantilever left nown; Lumber DOL=1.6(n any other live loads. anding 100 lb uplift at join ctions R502.11.1 and R8 ed directly to the top cho	xp C; Enclosed; or(2R) 9-2-4 to 13- and right exposed) plate grip DOL=1 nt(s) except (jt=lb) 02.10.2 and ord and 1/2" gypsu	8-9, ; end .60 m	PAO E-2000	GARCIA

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







—	5-8-14 11-2-4		20-9-12	26-3	-2	32-0-0		
Plate Offsets (X Y)	<u>5-8-14</u> <u>5-5-6</u> [2:0-4-13 Edge] [10:0-4-13 Edge]		9-7-8	5-5	-6	5-8-14		
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in	(loc) l/defl	L/d PLATE	ES GRIP		
TCLL 25.0	Plate Grip DOL 1.15	TC 0.76	Vert(LL) -0.27	13-15 >999	240 MT20	197/144		
ICDL 10.0 BCII 0.0	Lumber DOL 1.15 Rep Stress Incr YES	BC 0.92 WB 0.34	Vert(CT) -0.64 Horz(CT) 0.14	13-15 >605 10 n/a	n/a	15 148/108		
BCDL 10.0	Code IRC2018/TPI2014	Matrix-AS			Weight	:: 125 lb FT = 20%		
LUMBER- TOP CHORD 2x4 SP BOT CHORD 2x4 SP WEBS 2x4 SP SLIDER Left 2x4	F No.2 F 1650F 1.5E F No.2 4 SPF No.2 2-6-0, Right 2x4 SPF No.2 :	2-6-0	BRACING- TOP CHORD BOT CHORD	Structural wood sh 2-0-0 oc purlins (3- Rigid ceiling directl	eathing directly applied, 5-3 max.): 5-7. y applied.	except		
REACTIONS. (size Max H Max U Max G	e) 2=0-3-8, 10=0-3-8 brz 2=-67(LC 17) plift 2=-305(LC 8), 10=-305(LC 9) rav 2=1571(LC 1), 10=1571(LC 1)					OF MIS		
FORCES. (lb) - Max. Comp./Max. Ten All forces 250 (lb) or less except when shown. TOP CHORD 2-4=-3035/617, 4-5=-2789/576, 5-6=-2605/575, 6-7=-2605/575, 7-8=-2789/576, 8-10=-3035/617								
BOT CHORD 2-16=-506/2817, 15-16=-506/2817, 13-15=-496/2841, 12-13=-515/2817, 10-12=-515/2817 WEBS 4-15=-258/131, 5-15=-37/478, 6-15=-471/148, 6-13=-471/148, 7-13=-37/478, GARCIA								
8-13=	-258/132				Em	i an E		
NOTES-		-1			- P.	NUMBER		
 Unbalanced roof live Wind: ASCE 7-16; V 	ult=115mph (3-second gust) Vasd=91m	esign. hph; TCDL=6.0psf; BCDL:	=4.2psf; h=15ft; Cat. II; E	xp C; Enclosed;	-0	E-2000162101		
MWFRS (envelope) 16-0-0, Interior(1) 16 exposed ; end vertic grip DOL 1 60	gable end zone and C-Č Exterior(2E) -1 -0-0 to 20-9-12, Exterior(2R) 20-9-12 to al left and right exposed;C-C for member	-10-8 to 1-3-14, Interior(1) 25-4-1, Interior(1) 25-4-1 ers and forces & MWFRS) 1-3-14 to 11-2-4, Exter to 33-10-8 zone; cantile for reactions shown; Lun	ior(2R) 11-2-4 to ver left and right nber DOL=1.60 plate		S/ONAL ENGIN		
 3) Provide adequate dr 	ainage to prevent water ponding.					anno.		
4) All plates are MT20	plates unless otherwise indicated.		a			N GARO		
 6) Provide mechanical 2=305, 10=305. 	connection (by others) of truss to bearing	ng plate capable of withsta	anding 100 lb uplift at joir	nt(s) except (jt=lb)	S. S. S.	CENSED		
 This truss is designer referenced standard 	d in accordance with the 2018 Internation	onal Residential Code sec	ctions R502.11.1 and R8	02.10.2 and				
 This truss design red sheetrock be applied 	quires that a minimum of 7/16" structura	I wood sheathing be appli	ed directly to the top cho	ord and 1/2" gypsum	= 1	16952		
9) Graphical purlin repr	esentation does not depict the size or the	ne orientation of the purlin	along the top and/or bot	tom chord.	PRO	h. E		



MiTek 16023 Swingley Ridge Rd Chesterfield, MO 63017





	6-8-14	13-2-4	18-9-12	25-3-2	32-0-0	
	6-8-14	6-5-6	5-7-8	6-5-6	6-8-14	1
Plate Offsets (X,Y)	[2:0-4-13,Edge], [9:0-4-13,Edge]					
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. i	n (loc) l/defl L/d	PLATES	GRIP
TOLL 25.0	Plate Grip DOL 1.15	TC 0.87	Vert(LL) -0.2	7 14 15 >999 240	IVI I 20	197/144
RCU 0.0	Lumber DOL 1.15 Rop Stross Incr. VES	BC 0.80	Ven(CT) -0.4	/ 14-15 >816 180		
BOLL 0.0 BODI 10.0		Matrix AS		+ 9 11/a 11/a	Woight: 124 lb	ET - 20%
BODL 10.0	Code 1RC2018/1F12014	Matrix-AS			Weight. 124 lb	FT = 2076
LUMBER- TOP CHORD 2x4 SF	2F No.2		BRACING- TOP CHORD	Structural wood sheathing d	irectly applied, except	
WEBS 2x4 SF SLIDER Left 2x	4 SPF No.2 2-6-0, Right 2x4 SPF 1	0.2 2-6-0	BOT CHORD	Rigid ceiling directly applied		
REACTIONS. (size Max H Max U Max G	e) 2=0-3-8, 9=0-3-8 orz 2=78(LC 16) plift 2=-295(LC 8), 9=-295(LC 9) irav 2=1571(LC 1), 9=1571(LC 1)				NU OF	MISH
FORCES. (lb) - Max. TOP CHORD 2-4=- BOT CHORD 2-15= WEBS 4-14-	Comp./Max. Ten All forces 250 (3067/618, 4-5=-2579/563, 5-6=-23 501/2846, 14-15=-501/2846, 12-1 542/169, 5-14=-17/384, 6-12=-14	b) or less except when show 33/570, 6-7=-2579/563, 7-9=- 4=-380/2382, 11-12=-510/28 384, 7-12=-541/170	n. -3067/618 346, 9-11=-510/2846		S. JU	AN P
WEDO 4 14-	- 342/103, 3 14= 17/304, 0 12= 14	304, 7 12= 341/170			GAF	RCIA
NOTES-					= ^	<u>^</u> =
1) Unbalanced roof live	e loads have been considered for th	is design.			= 11:	
 Wind: ASCE 7-16; W MWFRS (envelope) 17-8-9, Interior(1) 17 exposed ; end vertice 	/ult=115mph (3-second gust) Vasd gable end zone and C-C Exterior(2 7-8-9 to 18-9-12, Exterior(2R) 18-9- al left and right exposed;C-C for m	91mph; TCDL=6.0psf; BCDL E) -1-10-8 to 1-3-14, Interior(12 to 23-4-1, Interior(1) 23-4- mbers and forces & MWFRS	L=4.2psf; h=15ft; Cat. II; I (1) 1-3-14 to 13-2-4, Exte -1 to 33-10-8 zone; cantil S for reactions shown; Lu	Exp C; Enclosed; rior(2R) 13-2-4 to ever left and right mber DOL=1.60 plate	DO E-2000	162101
3) Provide adequate di	ainage to prevent water ponding				ON	ALEIN

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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=295, 9=295.
- 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) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 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



Scale = 1:57.3



	8-8-3	17-0-0		24-10-4		33-0-0		
Plate Offsets (X,Y)	[7:0-3-0,Edge], [10:0-4-13,Edge]	0-0-10				0-1-12		
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 0.71 BC 0.85 WB 0.69 Matrix-AS	DEFL. Vert(LL) -0 Vert(CT) -0 Horz(CT) 0	in (loc) l/defl .29 12-14 >999 .56 12-14 >703 .16 10 n/a	L/d 240 180 n/a	PLATES MT20 MT20HS Weight: 119 lb	GRIP 197/144 148/108 FT = 20%	
LUMBER- TOP CHORD 2x4 SF 6-7,7-1 BOT CHORD 2x4 SF 13-15: WEBS 2x4 SF SLIDER Right 2	PF No.2 *Except* 1: 2x4 SPF 1650F 1.5E PF 1650F 1.5E *Except* 2x4 SPF No.2 PF No.2 2x4 SPF No.2 2-6-0		BRACING- TOP CHORD BOT CHORD WEBS	Structural wood Rigid ceiling dir 1 Row at midpt	sheathing dir ectly applied. 8	ectly applied. -14		
REACTIONS. (size Max H Max U Max G	e) 2=0-3-8, 10=0-3-8 orz 2=96(LC 12) plift 2=-249(LC 8), 10=-282(LC 9) irav 2=1543(LC 1), 10=1619(LC 1)					INTE OF	MISSO	
FORCES. (lb) - Max. Comp./Max. Ten All forces 250 (lb) or less except when shown. TOP CHORD 2-3=-3776/669, 3-5=-3403/599, 5-6=-2355/483, 6-8=-2386/471, 8-10=-3186/570 BOT CHORD 2-16=-570/3531, 14-16=-422/2848, 12-14=-456/2954, 10-12=-456/2954 WEBS 3-16=-456/178, 5-16=-47/553, 5-14=-863/228, 6-14=-121/973, 8-14=-913/247, 8-12=0/274								
 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=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-5-2, Interior(1) 2-5-2 to 17-0-0, Exterior(2R) 17-0-0 to 20-3-10, Interior(1) 20-3-10 to 34-10-8 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60 3) All plates are MT20 plates unless otherwise indicated. 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads. 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=249, 10=282. 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and 								
		Level all also at the second second				2 1	1 5	

7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.









L	7-1-12	14-0-0	18-0-0	25-1-15	33-0-0			
1	7-1-12	6-10-4	4-0-0	7-1-15	7-10-1			
Plate Offsets (X,Y)	[2:0-4-13,Edge]							
LOADING (psf) TCLL 25.0 TCDL 10.0 BCLL 0.0 BCDL 10.0	SPACING-2-0-0Plate Grip DOL1.15Lumber DOL1.15Rep Stress IncrYESCode IRC2018/TPI2014	CSI. TC 0.96 BC 0.83 WB 0.59 Matrix-AS	DEFL. Vert(LL) - Vert(CT) - Horz(CT)	in (loc) l/defl L/d 0.28 13-15 >999 240 0.53 13-15 >746 180 0.15 9 n/a n/a	PLATES GRIP MT20 197/144 MT20HS 148/108 Weight: 122 lb FT = 20%	6		
LUMBER- TOP CHORD 2x4 SI BOT CHORD 2x4 SI 11-14: WEBS 2x4 SI SLIDER Left 2x	PF No.2 PF 1650F 1.5E *Except* 2x4 SPF No.2 PF No.2 v4 SPF No.2 2-6-0		BRACING- TOP CHORE BOT CHORE WEBS	 Structural wood sheathin 2-0-0 oc purlins (3-5-8 m Rigid ceiling directly app 1 Row at midpt 	ng directly applied, except nax.): 6-7. lied. 8-12			
REACTIONS. (siz Max H Max U Max C	e) 9=0-3-8, 2=0-3-8 Horz 2=89(LC 16) Jplift 9=-229(LC 9), 2=-295(LC 8) Brav 9=1481(LC 1), 2=1620(LC 1)				OF MISS	11.		
FORCES. (lb) - Max. Comp./Max. Ten All forces 250 (lb) or less except when shown. TOP CHORD 2-4=-3195/644, 4-6=-2630/580, 6-7=-2450/573, 7-8=-2675/578, 8-9=-3705/707 BOT CHORD 2-15=-549/2965, 13-15=-549/2965, 12-13=-412/2422, 10-12=-609/3449, 9-10=-609/3449 WEBS 4-13=-642/188, 6-13=-30/378, 6-12=-203/268, 7-12=-47/443, 8-12=-1072/259, 8-10=-0/310								
 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=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 1-1-10-8 to 1-5-2, Interior(1) 1-5-2 to 14-0-0, Exterior(2E) 14-0-0 to 18-0-0, Exterior(2R) 18-0-0 to 22-8-0, Interior(1) 22-8-0 to 33-0-0 zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60 3) Provide adequate drainage to prevent water ponding. 								
 4) All plates are M120 plates unless otherwise indicated. 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads. 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 9=229, 2=295. 2) This truss is designed in accordance with the 2018 International Besidential Code sections B502 11 1 and B802 10 2 and 								
 referenced standard 8) This truss design re sheetrock be applie 9) Graphical purlin rep 	d ANSI/TPI 1. quires that a minimum of 7/16" structura d directly to the bottom chord. resentation does not depict the size or th	I wood sheathing be appli ne orientation of the purlin	ed directly to the top along the top and/c	o chord and 1/2" gypsum or bottom chord.	16952	NEER		
					/ONAL EN	h.,		

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L	6-10-1	13-0-0		19-6-0	21	-0-0	2	5-7-4		30-2-8	33-0-0	
	6-10-1	6-1-15	1	6-6-0	' 1·	6-0	4	4-7-4	I	4-7-4	2-9-8	1
Plate Offsets (X,Y)	[7:0-0-11,Edge], [8:0-2-7,	0-2-5], [13:0-7-0	,Edge], [14:Edge,0-	3-8]								
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/TP	2-0-0 1.15 1.15 YES Pl2014	CSI. TC 0.84 BC 0.93 WB 0.73 Matrix-AS		DEFL. Vert(LL) Vert(CT) Horz(CT)	in -0.44 -0.79 0.35	(loc) 12-13 12-13 8	l/defl >903 >501 n/a	L/d 240 180 n/a		PLATES MT20 MT20HS Weight: 160 lb	GRIP 197/144 148/108 FT = 20%
LUMBER- TOP CHORD 2x4 S 5-9: 2 BOT CHORD 2x4 S 7-13: WEBS 2x4 S	PF No.2 *Except* x8 SP 2400F 2.0E PF No.2 *Except* 2x4 SP 2400F 2.0E PF No.2			I	BRACING- TOP CHORI BOT CHORI))	Structu 2-0-0 o Rigid ce	ral wood c purlins eiling dire	sheathing d 2-2-0 max. ctly applied	irectly a): 3-5.	applied, except	
REACTIONS. (si Max Max Max	ze) 1=0-3-8, 8=0-3-8 Horz 1=-82(LC 17) Uplift 1=-239(LC 8), 8=-306 Grav 1=1481(LC 1), 8=162	6(LC 9) 20(LC 1)									IN E OF	MISS
FORCES. (lb) - Max. Comp./Max. Ten All forces 250 (lb) or less except when shown. TOP CHORD 1-2=-3763/742, 2-3=-2975/627, 3-4=-3587/788, 4-5=-3468/741, 5-6=-3675/749, 6-7=-5115/1003, 7-8=-570/154 BOT CHORD 1-12=-631/3511 15-154 BOT CHORD 1-12=-631/3511 15-154												
BOT CHORD 1-17=-631/3511, 15-17=-631/3511, 14-15=-30/375, 12-13=-607/3586, 11-12=-905/5010,												
VEBS 2-15=-820/224, 13-15=-423/2414, 3-13=-189/1038, 4-12=-429/124, 5-12=-200/1053, 6-12=-1688/366												
NOTES- 1) Unbalanced roof lin 2) Wind: ASCE 7-16; MWFRS (envelope Interior(1) 17-8-0 to vertical left and rig 3) Provide adequate 4 4) All plates are MT2d 5) This truss has bee 6) Provide mechanica 1=239, 8=306. 7) This truss is design referenced standar 8) This truss design r sheetrock be appli 9) Graphical purlin re	ve loads have been conside Vult=115mph (3-second gu) gable end zone and C-C (o 21-0-0, Exterior(2R) 21-0- nt exposed;C-C for member drainage to prevent water p o plates unless otherwise in n designed for a 10.0 psf bo al connection (by others) of the d in accordance with the 2 d ANSI/TPI 1. equires that a minimum of 7 ad directly to the bottom cho presentation does not depic	ered for this desi ust) Vasd=91mpl Exterior(2E) 0-0 -0 to 25-7-4, Inters and forces & I oonding. dicated. ottom chord live truss to bearing 2018 Internation 7/16" structural v ord. ct the size or the	gn. h; TCDL=6.0psf; BC 0 to 3-3-10, Interio rior(1) 25-7-4 to 34 WFRS for reaction load nonconcurrent plate capable of wi al Residential Code wood sheathing be a orientation of the p	CDL=4.2psf (1) 3-3-10 10-8 zone hs shown; I with any o thstanding e sections F applied dire urlin along	f; h=15ft; Cat to 13-0-0, E; cantilever le umber DOL ther live load 100 lb uplift ; R502.11.1 ar ectly to the to the top and/o	II; Ex terior aft and =1.60 Is. at joint ad R80 p chor or bott	(2R) 13- right ex plate gr t(s) exce (2.10.2 a rd and 1. om choi	closed; 0-0 to 17 cposed ; e ip DOL=1 ept (jt=lb) and /2" gypsu rd.	-8-0, nd .60 m		PROFILESSION	ALENGINI GARCIA 952 952 NSAS

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August 5,2022



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4-10	-1 9-0-0	5.3.0	5-3-0	25-0-0	<u>30-2-8 30-8-8 33-0-0</u>				
Plate Offecte (X V)	-1 4-1-15 [5:0-5-8 0-3-0] [6:0-8-8 0-0-0] [8:Edge	0-1-12] [13:0-5-4 Edge] [11.Edge 0-3-81	5-6-0	5-2-8 0-0-0 2-3-8				
	[3.0-3-0,0-3-0], [0.0-6-0,0-0-0], [0.∟uge	,0-1-12], [13.0-3-4,∟dge], [14.Luge,0-0-0]						
LOADING (psf)	SPACING- 2-0-0	CSL	DEFL. in	(loc) l/defl l/d	PLATES GRIP				
TCI 25.0	Plate Grip DOI 115	TC 0.82	Vert(LL) -0.58	12-13 >677 240	MT20 197/144				
TCDI 10.0	Lumber DOI 115	BC 0.95	Vert(CT) -1.05	12-13 \378 180	101/111				
BCLL 0.0	Rep Stress Incr NO	WB 0.86	Horz(CT) 0.33	8 n/a n/a					
BCDI 10.0	Code IRC2018/TPI2014	Matrix-MS	1012(01) 0.00	6 1/4 1/4	Weight: 440 lb ET = 20%				
		Matrix-1015			Weight: 440 lb 11 = 20 %				
LUMBER- TOP CHORD 2x4 S 2-5: 2: BOT CHORD 2x4 S	P 2400F 2.0E *Except* x4 SPF 1650F 1.5E, 5-9: 2x8 SP 2400F PF No 2 *Except*	2.0E	BRACING- TOP CHORD	Structural wood sheathin 2-0-0 oc purlins (5-10-6 r Bigid ceiling directly appl	ig directly applied or 6-0-0 oc purlins, except max.): 2-5. lied or 10-0-0 oc bracing				
1-16 6	-13: 2x4 SP 2400F 2 0F		201 0110112		ind of the eller bracking.				
WEBS 2x4 S	PF No 2								
WED0 2A+ 0	11 110.2								
REACTIONS. (siz Max H Max (Max (ze) 1=0-3-8, 8=0-3-8 Horz 1=-61(LC 34) Jplift 1=-861(LC 4), 8=-887(LC 5) Grav 1=3929(LC 1), 8=3771(LC 1)				E OF MISS				
FORCES. (Ib) - Max	. Comp./Max. Ten All forces 250 (lb) of	r less except when shown.			SAR CA				
TOP CHORD 1-2=	-10097/2277, 2-3=-11611/2705, 3-4=-16	734/3852, 4-5=-17237/396	67,		SS: ILIAN ??				
5-6=-14061/3192, 6-7=-1081/306, 7-8=-1209/318									
BOT CHORD 1-17	BOT CHORD 1-17=-2118/9543, 15-17=-2106/9474, 14-15=-317/1410, 13-14=-129/614, 4-13=-289/167,								
12-13=-3022/13777, 6-12=-2993/13640									
WEBS 2-17	WEBS 2-17=-252/1433, 2-15=-679/2691, 3-15=-2461/608, 13-15=-2379/10513, 3-13=-1216/5353,								
5-1:	3=-921/3835, 5-12=-390/1842, 7-10=-46	/298			D: NUMBER				
					E-2000162101				
NOTES-									
1) 3-ply truss to be co	nnected together with 10d (0.131"x3") na	ails as follows:	~ ~		1. Se				
Top chords connec	ted as follows: 2x4 - 1 row at 0-7-0 oc, 2	x8 - 2 rows staggered at 0-	9-0 oc.		ONALE				
Bottom chords con	nected as follows: 2x4 - 2 rows staggered	d at 0-7-0 oc.			COLUMN ST				
Webs connected as	s follows: 2x4 - 1 row at 0-9-0 oc.								
2) All loads are consid	lered equally applied to all plies, except i	f noted as front (F) or back	(B) face in the LOAD C	CASE(S) section. Ply to	ALL DE LE CALLER D				
ply connections nav	/e been provided to distribute only loads	noted as (F) or (B), unless	otherwise indicated.		N GARO				
3) Unbalanced root IIV	e loads have been considered for this de	esign.	1 Oneful A Effu Cat III E		N' JUN				
4) WIND: ASCE 7-16;	vull=115mpn (3-second gust) vasd=91m	ipn; ICDL=6.0psi; BCDL=	4.2psi; n=15it; Cat. II; E	xp C; Enclosed;	CENSE				
arin DOL -1.60) gable end zone; cantilever leit and righ	exposed; end ventical left	and right exposed; Lun	nder DOL=1.60 plate					
5) Drovido odoguoto o	trainage to provent water pending				E / 1 - 1 - 5				
6) This trues has hear	a designed for a 10.0 per bottom chard in	a load nonconcurrent with	any other live loads		16052				
7) Provido mochanico	Leophoetion (by others) of truce to beer	a plate capable of withster	any other live loads.	ot(c) oxcopt (it_lb)	10952				
	r connection (by others) of truss to beam	iy plate capable of withstat	ioning 100 in upinit at joir	ir(a) except (Jt=in)					
1=001, 0=007.	ed in accordance with the 2019 Internet	onal Residential Code cod	ions R502 11 1 and De	02 10 2 and	-20 4.145				
referenced standar		Unar mesiderillar Code Seci	10113 11302.11.1 allu Ro	02.10.2 anu	A ANGAN A				
9) Granhical nurlin rer	presentation does not denict the size or t	ne orientation of the purlin	along the top and/or bot	ttom chord	G				
10) Use Simpson Stro	ng-Tie I IIS24 (4-10d Girder 2-10d Trus	s Single Ply Girder) or equ	livalent spaced at 3-10.	8 oc max starting at	ONALE				
3-0-12 from the le	ft end to $22-11-4$ to connect truss(es) to	front face of hottom chord	arvaioni opuocu ai 0-10-	o oo max. starting di					
11) Fill all nail holes w	here hanger is in contact with lumber				August 5 2022				
Continued on nace ?	in our det with fullbor.				//ugust 0,2022				
Commueu 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

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RELEASE FOR CONSTRUCTION	Truss Type	Qty Ply	Summit/HM #139				
AS NOTED ON PLANS REVIEW		-	153508629				
DEVELOPMENT SERVICES	HIP GIRDER	1 2					
		J	Job Reference (optional)				
- Builders ThistSource (Valley Center),	Valley Center, KS - 67147, 8.530 s Dec 6 2021 MiTek Industries, Inc. Fri Aug 5 09:24:35 2022 Page 2						
0 <u>5/31</u> /2023 3:09:45		ID:icBMJaMgT1gasuUyx	9?RhvzDEHb-L2zBbabCtU0SUx4oJ1?SUyaJFTjFtgtmtC0XgoyqxbQ				

12) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 323 lb down and 100 lb up at 17-0-0, and 989 lb down and 281 lb up at 24-11-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

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

Uniform Loads (plf) Vert: 1-2=-70, 2-5=-70, 5-9=-70, 14-18=-20, 13-21=-20, 11-24=-20

Concentrated Loads (lb)

Vert: 17=-323(F) 12=-989(F) 27=-379(F) 28=-323(F) 29=-323(F) 30=-323(F) 31=-323(F) 32=-323(F) 33=-323(F) 34=-323(F) 35=-323(F) 36=-323(F) 36=-3







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

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DELEASE FOR CONSTRUCTION			
RELEASE FOR CONSTRUCTION	Truss Type	Qty Ply	Summit/HM #139
AS NOTED ON PLANS REVIEW			153508630
DEVELOPMENT SERVICES	Roof Special	1	1
			Job Reference (optional)
- Builders - Installurce (Valley Center),	/alley Center, KS - 67147,	8.530 s	Dec 6 2021 MiTek Industries, Inc. Fri Aug 5 09:24:38 2022 Page 2
0 <u>5/31</u> /2023 3:09:45		ID:icBMJaMgT1gasuUyx9?R	hvzDEHb-mdeKDcd59PO1LPpN_9Y96aCqWhlq43lCZAEBH7yqxbN

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

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-2=-70, 2-3=-70, 3-5=-70, 5-7=-70, 7-12=-70, 17-20=-20, 16-21=-20

Concentrated Loads (lb) Vert: 3=33(F)







F	1-10-4 6-1-12	10-8-12	12-4-12	17-2-4	18-9-12	2	6-3-2		34-0-0	
Diata Offacta (X V)	<u>1-10-4 ' 4-3-8</u>	4-7-0		4-9-8	1-7-8	101 [20:0 2 9	<u></u>	1	7-8-14	
	[2.0-2-14,0-2-0], [3.0-7-4	-,Eugej, [7.0-3-4	,0-2-12], [12.0-4-1	<u>s,⊏ugej, [</u>	10.0-0-12,0-4-	12], [20.0-3-6	0-1-0]			
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	CSI. TC 0.90 BC 0.86 WB 1.00 Matrix-AS		DEFL. Vert(LL) Vert(CT) Horz(CT)	in (loc) -0.76 17 -1.36 17 0.24 12	l/defl >537 >299 n/a	L/d 240 180 n/a	PLATES MT20 M18AHS Weight: 156 lb	GRIP 197/144 142/136 FT = 20%
LUMBER- TOP CHORD 2x4 SF 3-5,9-1 BOT CHORD 2x4 SF 18-21: WEBS 2x4 SF 7-18: 2 SLIDER Right 2	PF No.2 *Except* 13: 2x4 SPF 1650F 1.5E, PF No.2 *Except* 2x6 SPF 2100F 1.8E, 12 PF No.2 *Except* 2x4 SPF 1650F 1.5E 2x4 SPF No.2 2-6-0	5-7: 2x6 SPF N -15: 2x4 SPF 1	o.2 650F 1.5E		BRACING TOP CHOF BOT CHOF WEBS	RD Struc 2-0-0 RD Rigid 1 Ro	tural wood oc purlins ceiling dire v at midpt	sheathing dir (2-2-0 max.): ectly applied. 5	rectly applied, except of 3-5, 7-8.	end verticals, and
REACTIONS. (size Max H Max U Max G	e) 12=0-3-8, 21=0-3-8 lorz 21=-125(LC 13) lplift 12=-293(LC 9), 21=- Grav 12=1652(LC 1), 21=	-311(LC 8) 1634(LC 1)							IN A THE OF	MISSOUT
FORCES. (lb) - Max. TOP CHORD 2-3=- 7-8=- 7-8=- BOT CHORD 19-20 WEBS 3-20- 2-21= 16-18	ORCES. (lb) - Max. Comp./Max. Ten All forces 250 (lb) or less except when shown. JUAN OP CHORD 2-3=-2275/418, 3-4=-6176/1118, 4-5=-6174/1116, 5-6=-6932/1266, 6-7=-6721/1294, 7-8=-2391/539, 8-10=-2592/540, 10-12=-3277/606, 2-21=-1753/409 GARCIA OT CHORD 19-20=-292/2232, 18-19=-1608/9407, 14-16=-492/3040, 12-14=-492/3040 NUMBER /EBS 3-20=-541/110, 5-18=-3411/650, 8-16=-43/488, 10-16=-787/223, 10-14=0/258, 2-20=-434/2323, 4-19=-404/130, 3-19=-727/4085, 7-16=-919/174, 5-19=-3379/674, 16-18=-367/2559, 7-18=-818/4563 NUMBER									
NOTES- 1) Unbalanced roof live 2) Wind: ASCE 7-16; V MWFRS (envelope) Interior(1) 5-3-1 to 1 cantilever left and rig Lumber DOL=1.60 p 3) Provide adequate di 4) All plates are MT20 5) The Fabrication Tolde 6) This truss has been 7) Bearing at joint(s) 2° capacity of bearing s 8) Provide mechanical 12=293, 21=311. 9) This truss is designer referenced standard 10) This truss design r sheetrock be applied	e loads have been consid /ult=115mph (3-second g gable end zone and C-C 7-2-4, Exterior(2E) 17-2 ght exposed ; end vertica loate grip DOL=1.60 rainage to prevent water j plates unless otherwise i erance at joint 18 = 16% designed for a 10.0 psf b 1 considers parallel to gra surface. connection (by others) of ed in accordance with the I ANSI/TPI 1. equires that a minimum c presentation does not de	lered for this de ust) Vasd=91m Exterior(2E) -1 4 to 18-9-12, E> I left and right e ponding. ndicated. oottom chord live ain value using , f truss to bearin 2018 Internation of 7/16" structura chord. pict the size or the	sign. ph; TCDL=6.0psf; -10-8 to 1-6-5, Inte terior(2R) 18-9-12 xposed;C-C for me e load nonconcurre ANSI/TPI 1 angle t g plate capable of anal Residential Co al wood sheathing he orientation of th	BCDL=4.2 rior(1) 1-6 to 22-2-9 embers an ent with ar o grain for withstand ide section be applied he purlin a	2psf; h=15ft; C -5 to 1-10-4, F , Interior(1) 22 d forces & MV ny other live lo: mula. Buildin ing 100 lb uplif ns R502.11.1 a d directly to the long the top a	at. II; Exp C; I xterior(2E) 1- -2-9 to 35-10- VFRS for reac ads. g designer sh t at joint(s) ex and R802.10.2 e top chord an ad/or bottom of	Enclosed; 10-4 to 5-3 8 zone; tions shown buld verify cept (jt=lb) 2 and d 1/2" gyps	:-1, n; :um	THE SOUTH AND	GARCIA ENSEO 0952 NSA3 NAL ENGINE
WARNING - Verify Design valid for use o a truss system. Before building design. Brac is always required for fabrication, storage, d Safety Information a	design parameters and READ NG nly with MiTek® connectors. Th e use, the building designer mus ing indicated is to prevent buckli stability and to prevent collapse elivery, erection and bracing of f available from Truss Plate Instit	DTES ON THIS AND is design is based o t verify the applicab ing of individual trus with possible perso trusses and truss sy ute, 2670 Crain Higt	INCLUDED MITEK RE nly upon parameters sh litly of design paramete s web and/or chord me nal injury and property stems, see Al way, Suite 203 Waldon	FERENCE P/ nown, and is rs and prope mbers only. damage. Fo NSI/TPI1 Qu f, MD 20601	AGE MII-7473 rev. for an individual bi rly incorporate thi Additional tempor r general guidance ality Criteria, DSE	5/19/2020 BEFOF uilding components design into the of ary and permanents e regarding the 3-89 and BCSI B	E USE. t, not werall at bracing uilding Comp	onent	MiTek* 16023 Swingle Chesterfield, M	y Ridge Rd IO 63017

REL <mark>EASE FOR CONST</mark>	RUCTION
AS NOTED ON PLANS	REVIEW
DEVELOPMENT SER	WCES
LEE SISTISTICT (MILE)	Souri
05/31/2023 3:0)9:45

	Truss Type	Qty	Ply	Summit/HM #139	
				153508631	
	Roof Special	1	1		
				Job Reference (optional)	
alley Center, K	S - 67147,		8.530 s D	ec 6 2021 MiTek Industries, Inc. Fri Aug 5 09:24:41 2022 Page 2	

8.530 s Dec 6 2021 MiTek Industries, Inc. Fri Aug 5 09:24:41 2022 Page 2 ID:icBMJaMgT1gasuUyx9?RhvzDEHb-ACKSrdgzSKmcCsYyfl6tkDqJSun_HM8eF8TruSyqxbK

12) "NAILED" indicates 3-10d (0.148"x3") or 2-12d (0.148"x3.25") toe-nails per NDS guidlines.

- 13) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 22 lb down and 31 lb up at 3-11-0, and 22 lb down and 31 lb up at 5-11-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
 14) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-2=-70, 2-3=-70, 3-5=-70, 5-7=-70, 7-8=-70, 8-13=-70, 18-21=-20, 17-22=-20

Concentrated Loads (lb) Vert: 3=33(B)





Scale: 3/16"=1'



	3-10-4 8-3-8 12-	4-12 18-0-0)	25-10-4	34-0-0	
	3-10-4 4-5-4 4-	1-4 5-7-4		7-10-4	8-1-12	
Plate Offsets (X,Y)	[2:0-8-5,Edge], [6:0-9-12,0-2-0], [11:0-4	-13,Edge], [15:0-3-0,0-3-0	0], [19:0-3-8,0-2-8]		1	
LOADING (psf) TCLL 25.0 TCDL 10.0 BCLL 0.0 BCDL 10.0	SPACING-2-0-0Plate Grip DOL1.15Lumber DOL1.15Rep Stress IncrYESCodeIRC2018/TPI2014	CSI. TC 0.90 BC 0.96 WB 0.77 Matrix-AS	DEFL. in Vert(LL) -0.65 Vert(CT) -1.16 Horz(CT) 0.23	(loc) l/defl L/d 17 >632 240 17 >351 180 11 n/a n/a	PLATES MT20 M18AHS Weight: 145 lb	GRIP 197/144 142/136 FT = 20%
LUMBER- TOP CHORD 2x4 Sf BOT CHORD 2x4 Sf 14-17: WEBS 2x4 Sf 7-18: 2 SLIDER Left 2x	PF 1650F 1.5E PF 1650F 1.5E *Except* 2x4 SPF No.2 PF No.2 *Except* 2x4 SPF 1650F 1.5E 28 SP 2400F 2.0E 2-6-0, Right 2x4 SPF 1	No.2 2-6-0	BRACING- TOP CHORD BOT CHORD WEBS	Structural wood sheathing 2-0-0 oc purlins (2-2-14 m Rigid ceiling directly applie 1 Row at midpt	g directly applied, except lax.): 4-6. ed. 6-16, 9-15	
REACTIONS. (siz Max H Max U Max C	e) 2=0-3-8, 11=0-3-8 Horz 2=-142(LC 13) Jplift 2=-297(LC 8), 11=-282(LC 9) Grav 2=1665(LC 1), 11=1664(LC 1)				TE OF /	MISSO
FORCES. (lb) - Max. TOP CHORD 2-4= 9-11 9-11 BOT CHORD 2-20 WEBS 6-18 7-18 7-18	Comp./Max. Ten All forces 250 (lb) or -2763/501, 4-5=-5191/936, 5-6=-6300/11 =-3303/603 =-326/2531, 19-20=-330/2540, 18-19=-7 =-2298/472, 7-15=-344/113, 9-15=-894/2 =-786/4713, 5-19=-1025/241, 4-19=-504	less except when shown 124, 6-7=-6559/1205, 7-9: 87/5188, 13-15=-487/306 240, 9-13=0/275, 15-18=- /2885, 5-18=-217/1203	=-2529/510, 3, 11-13=-487/3063 312/2349,		GARI A NUME	N CIA
 NOTES- 1) Unbalanced roof liv. 2) Wind: ASCE 7-16; \ MWFRS (envelope) Interior(1) 7-3-1 to 1 vertical left and righ 3) Provide adequate d 4) All plates are MT20 5) This truss has been 6) Provide mechanical 2=297, 11=282. 7) This truss is design referenced standard 8) This truss design re sheetrock be applie 9) Graphical purlin rep 	e loads have been considered for this de /ult=115mph (3-second gust) Vasd=91m gable end zone and C-C Exterior(2E) -1 8-0-0, Exterior(2R) 18-0-0 to 21-4-13, In t exposed;C-C for members and forces & rainage to prevent water ponding, plates unless otherwise indicated. designed for a 10.0 psf bottom chord liv connection (by others) of truss to bearin ed in accordance with the 2018 Internation d ANSI/TPI 1. quires that a minimum of 7/16" structural d directly to the bottom chord. resentation does not depict the size or th	sign. ph; TCDL=6.0psf; BCDL= -10-8 to 1-6-5, Interior(1) terior(1) 21-4-13 to 35-10 & MWFRS for reactions sl e load nonconcurrent with g plate capable of withsta onal Residential Code sec l wood sheathing be appli ne orientation of the purlin	=4.2psf; h=15ft; Cat. II; E 1-6-5 to 3-10-4, Exterior -8 zone; cantilever left an nown; Lumber DOL=1.60 n any other live loads. anding 100 lb uplift at joir ctions R502.11.1 and R8 ed directly to the top cho along the top and/or bot	xp C; Enclosed; (2R) 3-10-4 to 7-3-1, nd right exposed ; end 0 plate grip DOL=1.60 nt(s) except (jt=lb) 02.10.2 and ord and 1/2" gypsum tom chord.	PBOCK SKINN	ALENGINI



August 5,2022



Scale: 3/16"=1'



	5-10-4 12-4-12	14-8-12	24-2-10		34-0-0	
Plate Offsets (X,Y)	[2:Edge,0-0-0], [11:0-4-13,Edge], [15:0-	3-12,Edge]	9-5-14		9-9-0	
LOADING (psf) TCLL 25.0 TCDL 10.0 BCLL 0.0 BCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2018/TPI2014	CSI. TC 0.87 BC 0.84 WB 0.89 Matrix-AS	DEFL. in (loc) Vert(LL) -0.41 5 Vert(CT) -0.82 13-15 Horz(CT) 0.17 11	l/defl L/d >999 240 >495 180 n/a n/a	PLATES GRIP MT20 197/144 Weight: 152 lb FT = 20%	
LUMBER- TOP CHORD 2x4 SI 6-7: 2: BOT CHORD 2x4 SI 2-17: 2 WEBS 2x4 SI SLIDER Left 2:	P 2400F 2.0E *Except* k4 SPF No.2, 7-8,8-12: 2x4 SPF 1650F * PF No.2 *Except* 2x4 SP 2400F 2.0E, 11-14: 2x4 SPF 165 PF No.2 k8 SP 2400F 2.0E 2-6-0, Right 2x4 SPF	I.5E 0F 1.5E No.2 2-6-0	BRACING- TOP CHORD Structu 2-0-0 BOT CHORD Rigid o WEBS 1 Row	ural wood sheathing dir oc purlins (2-7-15 max.) ceiling directly applied. r at midpt 6	ectly applied, except): 4-6. -15	
REACTIONS. (siz Max H Max L Max C	te) 2=0-3-8, 11=0-3-8 Horz 2=-142(LC 13) Jplift 2=-299(LC 8), 11=-281(LC 9) Grav 2=1661(LC 1), 11=1661(LC 1)				OF MISSO	
FORCES. (lb) - Max. TOP CHORD 2-4= 9-11 BOT CHORD 2-18 WEBS 4-17 7-13	. Comp./Max. Ten All forces 250 (lb) o -2987/552, 4-5=-4870/919, 5-6=-4746/8 =-3299/625 =-367/2755, 17-18=-371/2756, 5-17=-61 =-410/2264, 15-17=-507/3645, 6-17=-47 =-160/864, 9-13=-479/219	less except when shown 97, 6-7=-2916/623, 7-9=-3 5/187, 13-15=-325/2265, 5/2930, 6-15=-3093/549,	3088/620, 11-13=-508/3061 7-15=-179/1045,		GARCIA → NUMBER → E-2000162101	anning
NOTES- 1) Unbalanced roof liv 2) Wind: ASCE 7-16; ¹ MWFRS (envelope) Interior(1) 9-3-1 to ⁻ vertical left and righ 3) Provide adequate d 4) This truss has been 5) Provide mechanical 2=299, 11=281. 6) This truss is design referenced standard	e loads have been considered for this de Vult=115mph (3-second gust) Vasd=91n) gable end zone and C-C Exterior(2E) - 18-0-0, Exterior(2R) 18-0-0 to 21-4-13, Ir t exposed;C-C for members and forces of trainage to prevent water ponding. I designed for a 10.0 psf bottom chord liv connection (by others) of truss to bearin ed in accordance with the 2018 Internati t ANSI/TPL 1	esign. hph; TCDL=6.0psf; BCDL= 1-10-8 to 1-6-5, Interior(1) iterior(1) 21-4-13 to 35-10 & MWFRS for reactions sl re load nonconcurrent with ng plate capable of withsta onal Residential Code sec	=4.2psf; h=15ft; Cat. II; Exp C; E 1-6-5 to 5-10-4, Exterior(2R) 5-1 -8 zone; cantilever left and right hown; Lumber DOL=1.60 plate g h any other live loads. anding 100 lb uplift at joint(s) exc ctions R502.11.1 and R802.10.2	nclosed; 10-4 to 9-3-1, exposed ; end rip DOL=1.60 xept (jt=lb) and	UCENSE	

7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

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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16023 Swingley Ridge Rd Chesterfield, MO 63017







3x4 =

2-8-7

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

			2-0-1
Plate Offsets (X,Y)	[2:0-0-0,0-0-15]		
LOADING (psf) TCLL 25.0 TCDL 10.0 BCLL 0.0 BCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr NO Code IRC2018/TPI2014	CSI. TC 0.25 BC 0.08 WB 0.00 Matrix-MP	DEFL. in (loc) l/defl L/d PLATES GRIP Vert(LL) 0.00 6-9 >999 240 MT20 197/144 Vert(CT) 0.00 6-9 >999 180 MT20 197/144 Horz(CT) -0.00 2 n/a n/a Weight: 14 lb FT = 20%
LUMBER- TOP CHORD 2x6 S BOT CHORD 2x4 S	PF No.2 PF No.2	11	BRACING- TOP CHORD Structural wood sheathing directly applied or 2-8-7 oc purlins, except end verticals.

BOT CHORD

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

REACTIONS. (size) 6=Mechanical, 2=0-4-3 Max Horz 2=43(LC 11)

Max Uplift 6=-1(LC 9), 2=-167(LC 8) Max Grav 6=61(LC 3), 2=396(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=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) -2-7-13 to 1-7-1, Exterior(2R) 1-7-1 to 2-8-7 zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; 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) Refer to girder(s) for truss to truss connections.

4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6 except (jt=lb) 2=167.

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

MIS 0 F NYS * PROVIN JUAN GARCIA NUMBER E-2000162101 T GIT S S ONALE 16952 PROMANSAS MUMILITY . August 5,2022

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MiTek 16023 Swingley Ridge Rd Chesterfield, MO 63017



		3		<u>6-7-2</u> <u>3-3-9</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 NO Code IRC2018/TPI2014	CSI. TC 0.25 BC 0.18 WB 0.06 Matrix-MP	DEFL. in Vert(LL) -0.01 Vert(CT) -0.01 Horz(CT) 0.00	(loc) 8 7-8 7	l/defl >999 >999 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 31 lb	GRIP 197/144 FT = 20%
LUMBER-			BRACING-				·	

TOP CHORD

BOT CHORD

LUMBER-

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

2x4 SPF No.2

REACTIONS. 2=0-4-9, 7=Mechanical (size) Max Horz 2=78(LC 7) Max Uplift 2=-164(LC 4), 7=-49(LC 8) Max Grav 2=508(LC 1), 7=256(LC 1)

FORCES. (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) or less except when shown. 2-3=-311/36

TOP CHORD

BOT CHORD 2-8=-36/261, 7-8=-36/261 WEBS 3-7=-278/55

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; 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) Refer to girder(s) for truss to truss connections.

- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 7 except (jt=lb) 2 = 164
- 5) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 6) "NAILED" indicates 3-10d (0.148"x3") or 2-12d (0.148"x3.25") toe-nails per NDS guidlines.
- 7) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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

Uniform Loads (plf) Vert: 1-4=-70, 4-5=-20, 6-9=-20

Concentrated Loads (lb) Vert: 13=2(F=1, B=1)



ALL DI

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

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

except end verticals.





									4-4-9			
Plate Offse	ets (X,Y)	[2:0-0-0,0-0-15]										
LOADING	(psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.25	Vert(LL)	0.01	6-9	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.11	Vert(CT)	0.01	6-9	>999	180		
BCLL	0.0	Rep Stress Incr	NO	WB	0.00	Horz(CT)	-0.00	2	n/a	n/a		
BCDL	10.0	Code IRC2018/TF	PI2014	Matri	ĸ-MP						Weight: 19 lb	FT = 20%
LUMBER-						BRACING-						

TOP CHORD

BOT CHORD

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

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

Max Horz 2=58(LC 7) Max Uplift 6=-24(LC 8), 2=-158(LC 4)

Max Grav 6=117(LC 37), 2=388(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=4.2psf; h=15ft; 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) Refer to girder(s) for truss to truss connections.
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6 except (jt=lb) 2 = 158
- 5) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 6) "NAILED" indicates 3-10d (0.148"x3") or 2-12d (0.148"x3.25") toe-nails per NDS guidlines.
- 7) 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=-20, 5-7=-20

Concentrated Loads (lb) Vert: 10=48(B) 11=24(F=-8, B=32)



Structural wood sheathing directly applied or 4-4-15 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 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



August 5,2022



				4-3-9		1	4-0-1			1	4-3-9	
	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	тс	0.49	Vert(LL)	-0.06	8 -9	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.88	Vert(CT)	-0.12	8-9	>999	180		
BCLL	0.0	Rep Stress Incr	NO	WB	0.52	Horz(CT)	0.03	8	n/a	n/a		
BCDL	10.0	Code IRC2018/T	PI2014	Matri	x-MS						Weight: 60 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

 TOP CHORD
 2x6 SPF No.2

 BOT CHORD
 2x4 SPF 1650F 1.5E

 WEBS
 2x4 SPF No.2

 WEDGE
 Left: 2x4 SP No.3

REACTIONS. (size) 2=0-4-9, 8=Mechanical Max Horz 2=114(LC 7) Max Uplift 2=-232(LC 4), 8=-189(LC 8)

Max Uplift 2=-232(LC 4), 8=-189(LC 8) Max Grav 2=923(LC 1), 8=1042(LC 1)

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

TOP CHORD 2-3=-1501/243, 3-4=-1348/243

BOT CHORD 2-10=-260/1397, 9-10=-260/1397, 8-9=-236/1296

WEBS 4-9=-71/579, 4-8=-1429/281

NOTES-

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; 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) Refer to girder(s) for truss to truss connections.

- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=232, 8=189.
- 5) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 6) Use Simpson Strong-Tie TJC37 (6 nail, 30-90) or equivalent at 9-10-6 from the left end to connect truss(es) to front face of bottom chord, skewed 45.0 deg.to the left, sloping 0.0 deg. down.
- 7) Use Simpson Strong-Tie TJC37 (6 nail 90-150) or equivalent at 9-10-6 from the left end to connect truss(es) to back face of bottom chord, skewed 45.0 deg.to the right, sloping 0.0 deg. down.
- 8) Fill all nail holes where hanger is in contact with lumber.
- 9) "NAILED" indicates 3-10d (0.148"x3") or 2-12d (0.148"x3.25") toe-nails per NDS guidlines.
- 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: 1-5=-70, 5-6=-20, 7-11=-20

Concentrated Loads (lb)

Vert: 10=-1(F=-1, B=-1) 14=-78(F=-39, B=-39) 15=-54(F=-27, B=-27) 16=-526(F=-263, B=-263)

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



Structural wood sheathing directly applied or 5-4-8 oc purlins,

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

except end verticals.





Plate Off	sets (X,Y)	[2:0-0-0,0-0-15]		
	G (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d PLATES GRIP
TCLL	25.0	Plate Grip DOL 1.15	IC 0.22	Vert(LL) 0.00 7 >999 240 M120 197/144
TCDL	10.0	Lumber DOL 1.15	BC 0.08	Vert(CT) 0.00 7 >999 180
BCLL	0.0	Rep Stress Incr YES	WB 0.00	Horz(CT) -0.00 3 n/a n/a
BCDL	10.0	Code IRC2018/TPI2014	Matrix-MP	Weight: 10 lb FT = 20%

LUMBER-

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

REACTIONS.

3=Mechanical, 2=0-4-9, 4=Mechanical (size) Max Horz 2=46(LC 8) Max Uplift 3=-50(LC 1), 2=-181(LC 8), 4=-12(LC 1) Max Grav 3=36(LC 8), 2=405(LC 1), 4=19(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=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; 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) Refer to girder(s) for truss to truss connections.

4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 4 except (jt=lb) 2=181

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

IIXS * PROFILE 6 JUAN GARCIA NUMBER E-2000162101 GIT S/ONALE minin 16952 Bon Sonal English August 5,2022

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August 5,2022

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

MiTek 16023 Swingley Ridge Rd Chesterfield, MO 63017





Structural wood sheathing directly applied or 1-9-2 oc purlins. Rigid ceiling directly applied or 10-0-0 oc bracing.



				4-7-1
LOADIN	G (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d PLATES GRIP
TCLL	25.0	Plate Grip DOL 1.15	TC 0.31	Vert(LL) 0.02 6-9 >999 240 MT20 197/144
TCDL	10.0	Lumber DOL 1.15	BC 0.23	Vert(CT) 0.03 6-9 >999 180
BCLL	0.0	Rep Stress Incr NO	WB 0.00	Horz(CT) -0.01 2 n/a n/a
BCDL	10.0	Code IRC2018/TPI2014	Matrix-MP	Weight: 20 lb FT = 20%

LUMBER-

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

BRACING-TOP CHORD BOT CHORD

Structural wood sheathing directly applied or 4-7-1 oc purlins, except end verticals. Rigid ceiling directly applied or 10-0-0 oc bracing.

4-7-1

REACTIONS. 6=Mechanical, 2=0-4-9 (size) Max Horz 2=60(LC 7) Max Uplift 6=-31(LC 21), 2=-151(LC 4) Max Grav 6=119(LC 37), 2=354(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=4.2psf; h=15ft; 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) Refer to girder(s) for truss to truss connections.
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6 except (jt=lb) 2=151.
- 5) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 6) "NAILED" indicates 3-10d (0.148"x3") or 2-12d (0.148"x3.25") toe-nails per NDS guidlines.
- 7) 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=-20, 5-7=-20

Concentrated Loads (lb)

Vert: 10=86(F=43, B=43) 11=59(F=30, B=30)



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August 5,2022



LOADING (psf) TCLL 25.0 TCDL 10.0 BCLL 0.0 BCDL 10.0	SPACING-2-0-0Plate Grip DOL1.15Lumber DOL1.15Rep Stress IncrYESCodeIRC2018/TPI2014	CSI. TC 0.55 BC 0.18 WB 0.00 Matrix-MP	DEFL. in (loc) l/defl L/d PLATES Vert(LL) 0.00 5-6 >999 240 MT20 Vert(CT) 0.00 5-6 >999 180 MT20 Horz(CT) -0.02 3 n/a n/a Weight: 11 lb	GRIP 197/144 FT = 20%

LUN	IBER-

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

Structural wood sheathing directly applied or 2-5-15 oc purlins, except end verticals. BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 6=0-4-9, 5=Mechanical, 3=Mechanical

Max Horz 6=37(LC 11) Max Uplift 6=-177(LC 8), 5=-17(LC 25), 3=-68(LC 25) Max Grav 6=421(LC 1), 5=40(LC 3), 3=18(LC 8)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-6=-361/340

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=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) -2-7-13 to 1-7-1, Exterior(2R) 1-7-1 to 2-2-7 zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; 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) Refer to girder(s) for truss to truss connections.

5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 3 except (jt=lb) 6 = 177

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) Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.



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	4-9-0		8-9-0	13-6-	0		
Plate Offsets (X,Y)	[3:0-2-8.0-0-12]	· · · · · · · · · · · · · · · · · · ·	4-0-0	4-9-0	J		
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 0.55 BC 0.78 WB 0.07 Matrix-MS	DEFL. in Vert(LL) -0.08 Vert(CT) -0.14 Horz(CT) 0.03	(loc) l/defl L/d 7-8 >999 240 7-8 >999 180 5 n/a n/a	PLATES GRIP MT20 197/144 Weight: 56 lb FT = 20%		
LUMBER- TOP CHORD 2x4 S BOT CHORD 2x6 S WEBS 2x4 S WEDGE Left: 2x4 SP No.3 , Ri	PF No.2 PF No.2 PF No.2 PF No.2		BRACING- TOP CHORD BOT CHORD	Structural wood sheathing except 2-0-0 oc purlins (3-9-5 max Rigid ceiling directly applied	directly applied or 3-8-12 oc purlins, .): 3-4. d or 10-0-0 oc bracing.		
REACTIONS. (siz Max b Max c Max c	ze) 2=0-3-8, 5=0-3-8 Horz 2=-36(LC 5) Jplift 2=-260(LC 4), 5=-260(LC 5) Grav 2=1108(LC 1), 5=1108(LC 1)				OF MISS		
FORCES. (lb) - Max. Comp./Max. Ten All forces 250 (lb) or less except when shown. TOP CHORD 2-3=-1988/371, 3-4=-1810/369, 4-5=-1980/369 BOT CHORD 2-8=-319/1836, 7-8=-320/1817, 5-7=-305/1828 WEBS 3-8=0/300, 4-7=0/297							
 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=4.2psf; h=15ft; 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 							
 2=200, 0=200. 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1. 7) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord. 8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 85 lb down and 62 lb up at 4-9-0, and 62 lb down and 54 lb up at 6-9-0, and 260 lb down and 62 lb up at 8-8-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others. 9) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B). 							
1) Dead + Roof Live (Uniform Loads (plf) Vert: 1-3=-	ndard balanced): Lumber Increase=1.15, Plate 70, 3-4=-70, 4-6=-70, 9-12=-20	Increase=1.15			SIONAL ENGLISH		

Continued on page 2

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August 5,2022

RELEASE FOR CONSTRUCTION	Truss Type	Qtv	Plv	Summit/HM #139
AS NOTED ON PLANS REVIEW			,	153508643
DEVELOPMENT SERVICES	Hip Girder	1	1	
				Job Reference (optional)
Builders ThistSource (Valle) Center), /alle	ey Center, KS - 67147,		8.530 s D	ec 6 2021 MiTek Industries, Inc. Fri Aug 5 09:24:54 2022 Page 2
05/21/2022 2:00:47				

LOAD CASE(S) Standard Concentrated Loads (Ib)

Vert: 3=-62(F) 4=-62(F) 8=-260(F) 7=-260(F) 15=-62(F) 16=-33(F)







6-9-0 13-6-0 6-9-0 6-9-0 Plate Offsets (X,Y)--[2:0-1-8,0-0-1], [6:0-2-13,0-0-1] SPACING-L/d PLATES GRIP LOADING (psf) 2-0-0 CSI DEFL in (loc) l/def TCLL 25.0 Plate Grip DOL 1.15 тс 0.37 Vert(LL) -0.05 8-15 >999 240 MT20 197/144 TCDL 10.0 Lumber DOL 1.15 BC 0.34 Vert(CT) -0.08 8-15 >999 180 BCLL 0.0 Rep Stress Incr YES WB 0.06 Horz(CT) 0.02 2 n/a n/a Code IRC2018/TPI2014 FT = 20% BCDL 10.0 Matrix-AS Weight: 45 lb LUMBER-BRACING-TOP CHORD 2x4 SPF No.2 TOP CHORD Structural wood sheathing directly applied. 2x4 SPF No.2 BOT CHORD BOT CHORD Rigid ceiling directly applied. WEBS 2x4 SPF No.2 SLIDER Left 2x4 SPF No.2 2-6-0, Right 2x4 SPF No.2 2-6-0 REACTIONS. (size) 2=0-3-8, 6=0-3-8 Max Horz 2=-46(LC 13) Max Uplift 2=-160(LC 8), 6=-160(LC 9) 11111 Max Grav 2=739(LC 1), 6=739(LC 1) MIS 0 FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. The the PROM TOP CHORD 2-4=-862/264, 4-6=-862/264 BOT CHORD 2-8=-148/813, 6-8=-148/813 JUAN WEBS 4-8=0/264 GARCIA NOTES 1) Unbalanced roof live loads have been considered for this design. NUMBER

2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-10-8 to 1-1-8, Interior(1) 1-1-8 to 6-9-0, Exterior(2R) 6-9-0 to 9-9-0, Interior(1) 9-9-0 to 15-4-8 zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=160. 6=160.

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

6) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.







F	4-7-12 4-7-12	9-0-0	<u>14-6-0</u> 5-6-0	20-1-12	24-9-12	29-4-0	33-1	1-15 ;	39-4-0 5-4-1	
Plate Off	sets (X,Y)	[1:0-3-0,0-0-5], [14:0-3-0),0-2-4], [18:0-1·	-8,0-2-8]						
LOADIN TCLL TCDL BCLL BCDL	G (psf) 25.0 10.0 0.0 10.0	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr Code IRC2018/T	2-0-0 1.15 1.15 NO PI2014	CSI. TC 0.93 BC 0.94 WB 0.67 Matrix-MS	DEFL. in Vert(LL) -0.15 Vert(CT) -0.26 Horz(CT) 0.03	(loc) l/defl 18-19 >999 18-19 >937 10 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 296 I	GRIP 197/144 b FT = 20%	
LUMBER TOP CH BOT CH WEBS SLIDER	R- ORD 2x4 SF ORD 2x4 SF 15-17: 2x4 SF Left 2x	PF No.2 PF No.2 *Except* 2x4 SP 2400F 2.0E PF No.2 4 SPF No.2 2-0-0			BRACING- TOP CHORD BOT CHORD	Structural wood 2-0-0 oc purlins Rigid ceiling dire 5-8-5 oc bracing 5-9-15 oc bracin	sheathing dire (6-0-0 max.): 3 ectly applied or g: 16-18 ng: 14-16.	actly applied, excep 3-8. 10-0-0 oc bracing,	t Except:	
REACTI	REACTIONS. (size) 1=0-3-8, 16=0-3-8, 10=0-3-8 Max Horz 1=-69(LC 9) Max Uplift 1=-318(LC 8), 16=-1580(LC 5), 10=-329(LC 5) Max Grav 1=1453(LC 21), 16=7028(LC 1), 10=1516(LC 1)									
FORCES	3. (lb) - Max. ORD 1-3= 8-9=	Comp./Max. Ten All fo -3098/731, 3-4=-797/328 -1737/456, 9-10=-3615/7	rces 250 (lb) or , 4-5=-797/328, 99	less except when showr 5-7=-265/560, 7-8=-265	n. /560,			19:00	JUAN	
BOT CH	ORD 1-19 12-1 3-19 5-14 9-12	RD 1-19=-649/2850, 18-19=-635/2774, 16-18=-4254/972, 14-16=-4254/972, 13-14=-305/1523, 12-13=-705/3395, 10-12=-705/3395 3-19=-316/1786, 3-18=-2397/469, 4-18=-423/144, 5-18=-1216/5498, 5-16=-5915/1359, 5-14=-1022/4577, 7-14=-308/128, 8-14=-2484/516, 8-13=-335/1692, 9-13=-1951/417, 9-12=-142/989								
NOTES- 1) 2-ply f Top cl Bottor Webs 2) All loa ply co 3) Unbal 4) Wind: MWFf grip D 5) Provic 6) This tu refere 9) Graph 10) Use 11-0 CdattFilla	iruss to be con hords connect n chords conr connected as ds are consid nnections hav anced roof livu ASCE 7-16; \ RS (envelope) OL=1.60 le adequate d russ has been le mechanical s, 16=1580, 10 russ is design nced standarc ical purlin rep Simpson Stro -12 from the la diggibagtes w	nnected together with 10c ted as follows: 2x4 - 1 rov nected as follows: 2x4 - 1 follows: 2x4 - 1 row at 0- ered equally applied to al e been provided to distrik e loads have been consic /ult=115mph (3-second g gable end zone; cantilev rainage to prevent water designed for a 10.0 psf b connection (by others) o)=329. ed in accordance with the d ANSI/TPI 1. resentation does not dep ng-Tie LUS24 (4-10d Gin eft end to 35-0-12 to conr here hanger is in contact	d (0.131"x3") na v at 0-9-0 oc. row at 0-2-0 oc -9-0 oc. Il plies, except if bute only loads i dered for this de just) Vasd=91m rer left and right ponding. pottom chord livi f truss to bearin e 2018 Internation ict the size or th der, 2-10d Truss hect truss(es) to with lumber.	ils as follows: noted as front (F) or bac noted as (F) or (B), unles sign. ph; TCDL=6.0psf; BCDL exposed ; end vertical le e load nonconcurrent wit g plate capable of withst onal Residential Code se the orientation of the purlin s, Single Ply Girder) or e front face of bottom cho	ck (B) face in the LOAD C ss otherwise indicated. =4.2psf; h=15ft; Cat. II; E ft and right exposed; Lun h any other live loads. anding 100 lb uplift at joir ctions R502.11.1 and R8 h along the top and/or bot quivalent spaced at 2-0-0 rd.	ASE(S) section. xp C; Enclosed; nber DOL=1.60 p nt(s) except (jt=lb) 02.10.2 and tom chord. oc max. starting	Ply to late at	PROCESSION AL	NALENGIN NGAROM GENSEO 6952 ANGAS ONALENGIN Jgust 5,2022	
Des a tru build is al fabr	VARNING - Verify ign valid for use c uss system. Befor ding design. Brac ways required for ication, storage, c ety Information	design parameters and READ Ni nolly with MiTek® connectors. Th e use, the building designer mus ing indicated is to prevent buckli stability and to prevent collapse lelivery, erection and bracing of available from Truss Plate Instit	OTES ON THIS ANE is design is based o st verify the applicab ing of individual trus e with possible perso trusses and truss sy ute, 2670 Crain Higt	D INCLUDED MITEK REFERENCE only upon parameters shown, an ility of design parameters and p is web and/or chord members of onal injury and property damage rstems, see ANS/TPI way, Suite 203 Waldorf, MD 21	CE PAGE MII-7473 rev. 5/19/2022 dis for an individual building co properly incorporate this design i n/ly. Additional temporary and p . For general guidance regardin 1 Quality Criteria, DSB-89 and 0601	D BEFORE USE. mponent, not into the overall ermanent bracing ng the BCSI Building Comp	ponent	16023 Swin Chesterfield	gley Ridge Rd , MO 63017	

Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

KELEASE FOR CONST	Fillss I LOIN	
AS NOTED ON PLANS	REVIEW	
DEVELOPMENT SER	VICES	
LEELO OLIMANIT MICO		
- Builders ThstSource (Valley	Center),	/alley Ce
05/31/2023 3.0	19·48	
NOTES / 2020 0.0	0.40	

	Truss Type	Qty	Ply	Summit/HM #139	
					153508645
	Hip Girder	1	2		
			2	Job Reference (optional)	
nter, KS - 67147,			8.530 s D	ec 6 2021 MiTek Industries, Inc. Fri Aug 5 09:24:57 2022	Page 2
ID:icBMJaMgT1gasuUyx9?RhvzDEHb-iHIWC5s?hFnL7Jm1bfOdNbU2_LDb1gD?xdLhSWyqxb4					

12) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1383 lb down and 328 lb up at 9-0-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

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

Uniform Loads (plf) Vert: 1-3=-70, 3-8=-70, 8-11=-70, 20-24=-20

Concentrated Loads (lb)

Vert: 19=-1383(F) 14=-370(F) 15=-370(F) 28=-370(F) 29=-370(F) 30=-370(F) 31=-370(F) 32=-370(F) 33=-370(F) 34=-370(F) 35=-370(F) 36=-365(F) 37=-365(F) 38=-552(F) 36=-370(F) 35=-370(F) 36=-365(F) 37=-365(F) 36=-365(F) 36=-





	<u>1-4-0</u>	3-4-0	<u>6-8-0</u>	10-3-8
	1-4-0	2-0-0	3-4-0	3-7-8
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/c Vert(LL) -0.03 8-9 >9 Vert(CT) -0.06 8-9 >9	defi L/d PLATES GRIP
TCLL 25.0	Plate Grip DOL 1.15	TC 0.18		1999 240 MT20 197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.38		1999 180
BCLL 0.0	Rep Stress Incr NO	WB 0.18	Horz(CT) 0.01 7	n/a n/a
BCDL 10.0	Code IRC2018/TPI2014	Matrix-MS		Weight: 44 lb FT = 20%

TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

TOP CHORD	2x4 SPF No.2 *Except*
	1-3: 2x6 SPF No.2
BOT CHORD	2x4 SPF No.2
WEDG	2v4 SPE No 2

- ZX4 SPF NO.Z (size) 7=Mechanical, 2=0-3-8 Max Horz 2=132(LC 7)
- Max Uplift 7=-84(LC 8), 2=-123(LC 4)
- Max Grav 7=435(LC 1), 2=538(LC 1)
- FORCES. (lb) Max. Comp./Max. Ten. All forces 250 (lb) or less except when shown.
- 2-3=-642/22, 3-4=-603/26, 4-5=-611/84 TOP CHORD
- BOT CHORD 2-9=-78/494, 8-9=-192/1056, 7-8=-84/555
- 3-9=-13/282, 4-8=-514/110, 5-8=0/264, 5-7=-626/126, 4-9=-658/212 WFBS

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Provide adequate drainage to prevent water ponding.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 7 except (jt=lb) 2 = 123
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 7) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord. 8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 139 lb down and 262 lb up at 1-4-0 on top chord, and 41 lb down and 44 lb up at 1-4-0 on bottom chord. The design/selection of such connection device(s) is the
- responsibility of others.
- 9) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf) Vert: 1-3=-70, 3-4=-70, 4-6=-70, 7-10=-20
 - Concentrated Loads (lb) Vert: 3=71(F)



11111

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

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




BOT CHORD 2-8=-287/653, 7-8=-316/768

WEBS 5-7=-754/287

NOTES-

 Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-10-8 to 1-1-8, Interior(1) 1-1-8 to 3-4-0, Exterior(2E) 3-4-0 to 5-4-0, Interior(1) 5-4-0 to 10-1-12 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

2) Provide adequate drainage to prevent water ponding.

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

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

- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 7 except (jt=lb) 2=149.
- 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) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.









	3-4-0		6-8-0			10-3-8	
	3-4-0		3-4-0			3-7-8	1
Plate Offsets (X,Y)	[2:0-3-5,0-0-1]						
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 0.27 BC 0.36 WB 0.21 Matrix-MS	DEFL. in Vert(LL) -0.02 Vert(CT) -0.04 Horz(CT) 0.01	(loc) l/de 8-9 >99 8-9 >99 7 n/	fl L/d 9 240 9 180 a n/a	PLATES MT20 Weight: 40 lb	GRIP 197/144 FT = 20%
LUMBER- TOP CHORD 2x4 SF BOT CHORD 2x4 SF WEBS 2x4 SF SLIDER Left 2x	2F No.2 2F No.2 2F No.2 2F No.2 4 SPF No.2 2-0-0		BRACING- TOP CHORD BOT CHORD	Structural wo except end v Rigid ceiling	ood sheathing di erticals, and 2-0 directly applied o	rectly applied or 6-0-0 -0 oc purlins (6-0-0 m or 10-0-0 oc bracing.	oc purlins, ax.): 4-6.
REACTIONS. (siz Max H Max U Max G	e) 7=Mechanical, 2=0-3-8 lorz 2=67(LC 7) plift 7=-102(LC 5), 2=-179(LC 4) irav 7=518(LC 1), 2=676(LC 1)					W OF	MISSIL
FORCES.(lb) - Max.TOP CHORD2-4=-BOT CHORD2-9=-WEBS5-8=-	Comp./Max. Ten All forces 250 (lb) or •841/165, 4-5=-837/175, 5-6=-837/175, 6 •168/769, 8-9=-170/760 •293/114, 6-8=-175/871	less except when shown 3-7=-471/115				G. J	
NOTES- 1) Unbalanced roof live 2) Wind: ASCE 7-16; W MWFRS (envelope) grip DOL=1.60 3) Provide adequate di 4) This truss has been 5) Refer to girder(s) for 6) Provide mechanical	a loads have been considered for this de /ult=115mph (3-second gust) Vasd=91m gable end zone; cantilever left and right rainage to prevent water ponding. designed for a 10.0 psf bottom chord liv r truss to truss connections. connection (by others) of truss to bearing	sign. ph; TCDL=6.0psf; BCDL: exposed ; end vertical le e load nonconcurrent with g plate capable of withst	=4.2psf; h=15ft; Cat. II; E ft and right exposed; Lun h any other live loads.	xp C; Enclose nber DOL=1.6	d;) plate	NU PROCESSIO	MBER 0162101
 7=102, 2=179. 7) This truss is designer referenced standard 8) Graphical purlin rep 9) "NAILED" indicates 10) Hanger(s) or other 3-4-0 on bottom ch 11) In the LOAD CASE 	ed in accordance with the 2018 Internation I ANSI/TPI 1. resentation does not depict the size or the 3-10d (0.148"x3") or 3-12d (0.148"x3.25 connection device(s) shall be provided a ford. The design/selection of such conn E(S) section, loads applied to the face of	e orientation of the purlir ") toe-nails per NDS guid sufficient to support concre ection device(s) is the res the truss are noted as fro	ctions R502.11.1 and R8 along the top and/or bot lines. entrated load(s) 103 lb do sponsibility of others. ont (F) or back (B).	02.10.2 and itom chord. own and 44 lb	up at		GARCIA

LOAD CASE(S) Standard

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

Vert: 1-4=-70, 4-6=-70, 7-10=-20 Concentrated Loads (lb)

Vert: 9=-78(B) 4=-9(B) 14=-9(B) 15=-9(B) 16=-12(B) 17=-10(B) 18=-10(B) 19=-11(B)

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



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Scale = 1:20.6



		3-2-8	5-11-8	+		9-0-0	
Plate Offsets (X,Y)	[2:0-3-1,0-0-13]	5-2-0	2-3-0			5-0-0	
LOADING (psf) TCLL 25.0 TCDL 10.0 BCLL 0.0 BCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr NO Code IRC2018/TPI2014	CSI. TC 0.27 BC 0.45 WB 0.25 Matrix-MS	DEFL. in Vert(LL) -0.02 Vert(CT) -0.04 Horz(CT) 0.01	(loc) l/defl 8-9 >999 8-9 >999 7 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 36 lb	GRIP 197/144 FT = 20%
LUMBER- TOP CHORD 2x4 SP BOT CHORD 2x4 SP WEBS 2x4 SP SLIDER Left 2x4	F No.2 F No.2 F No.2 4 SPF No.2 2-0-0		BRACING- TOP CHORD BOT CHORD	Structural wood except end verti Rigid ceiling dire	sheathing directly cals, and 2-0-0 oc actly applied or 10	y applied or 5-9-1 c purlins (5-10-10)-0-0 oc bracing.	4 oc purlins, max.): 4-6.
REACTIONS. (size Max H Max U Max G	e) 7=Mechanical, 2=0-3-8 orz 2=60(LC 7) plift 7=-101(LC 5), 2=-183(LC 4) rav 7=572(LC 1), 2=707(LC 1)					NUM OF	MIG
FORCES. (lb) - Max. TOP CHORD 2-4=- BOT CHORD 2-9=- WEBS 5-8=-	Comp./Max. Ten All forces 250 (lb) o 927/168, 4-5=-850/166, 5-6=-927/175, 176/860, 8-9=-178/927 297/121, 6-8=-185/1024	less except when shown 6-7=-535/113				S. J.	
NOTES- 1) Unbalanced roof live 2) Wind: ASCE 7-16; V MWFRS (envelope) grip DOL=1.60 3) Provide adequate dr 4) This truss has been 5) Refer to girder(s) for 6) Provide mechanical 7=101, 2=183. 7) This truss is designer referenced standard 8) Graphical purlin repr 9) "NAILED" indicates 3 10) Hanger(s) or other 3-2-8 on bottom ch 11) In the LOAD CASE	loads have been considered for this de ult=115mph (3-second gust) Vasd=91n gable end zone; cantilever left and righ ainage to prevent water ponding. designed for a 10.0 psf bottom chord liv truss to truss connections. connection (by others) of truss to bearin d in accordance with the 2018 Internati ANSI/TPI 1. esentation does not depict the size or t 3-10d (0.148"x3") or 3-12d (0.148"x3.25 connection device(s) shall be provided ord. The design/selection of such conr (S) section, loads applied to the face of	esign. ph; TCDL=6.0psf; BCDL= exposed ; end vertical lef re load nonconcurrent with ng plate capable of withsta onal Residential Code sec ne orientation of the purlin ") toe-nails per NDS guid sufficient to support conce ection device(s) is the res the truss are noted as fro	e4.2psf; h=15ft; Cat. II; E t and right exposed; Lurr a any other live loads. Inding 100 lb uplift at join ations R502.11.1 and R80 along the top and/or bot ines. entrated load(s) 117 lb dc ponsibility of others. nt (F) or back (B).	xp C; Enclosed; hber DOL=1.60 pl t(s) except (jt=lb) 02.10.2 and tom chord. town and 40 lb up	ate	PROFESSION	MBER 162101 VALENO VALENO SOUTHERSED
LOAD CASE(S) Stand 1) Dead + Roof Live (b Uniform Loads (plf) Vert: 1-4=-7 Concentrated Loads Vert: 4=-54(dard alanced): Lumber Increase=1.15, Plate (0, 4-6=-70, 7-10=-20 (lb) F) 9=-117(F) 14=-54(F) 15=-54(F) 16=-	Increase=1.15 36(F) 17=-36(F)				PROFILES	gust 5,2022

- 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord. 9) "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidlines.
- 10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 117 lb down and 40 lb up at 3-2-8 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 11) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)
- Vert: 1-4=-70, 4-6=-70, 7-10=-20





REACTIONS. (size) 2=0-3-8, 6=Mechanical Max Horz 2=87(LC 11) Max Uplift 2=-144(LC 8), 6=-69(LC 8)

Max Grav 2=544(LC 0), 6=385(LC 0)

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

TOP CHORD 2-4=-434/154

BOT CHORD 2-7=-223/414, 6-7=-223/406 WEBS 4-6=-467/232

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=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-10-8 to 1-1-8, Interior(1) 1-1-8 to 5-2-8, Exterior(2E) 5-2-8 to 8-10-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; 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) Refer to girder(s) for truss to truss connections.

6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6 except (jt=lb) 2=144.

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) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

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



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REACTIONS. (size) 2=0-3-8, 6=Mechanical Max Horz 2=113(LC 11) Max Uplift 2=-141(LC 8), 6=-72(LC 8)

Max Grav 2=544(LC 1), 6=385(LC 1)

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

TOP CHORD 2-4=-294/156

BOT CHORD 2-7=-152/252 WEBS 4-7=-34/284, 4-6=-468/234

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=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-10-8 to 1-1-8, Interior(1) 1-1-8 to 7-2-8, Exterior(2E) 7-2-8 to 8-10-4 zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; 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) Refer to girder(s) for truss to truss connections.

6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6 except (jt=lb) 2=141.

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) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

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







REACTIONS. (size) 2=0-3-8, 7=Mechanical Max Horz 2=140(LC 8) Max Uplift 2=-123(LC 8), 7=-91(LC 8) Max Grav 2=537(LC 1), 7=390(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-4=-563/68

WFBS 4-7=-279/215

NOTES-

 Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-10-8 to 1-1-8, Interior(1) 1-1-8 to 9-0-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; 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) Refer to girder(s) for truss to truss connections.

- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 7 except (jt=lb) 2=123.
- 5) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 6) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



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BRACING-TOP CHORD

BOT CHORD

Structural wood sheathing directly applied.

Rigid ceiling directly applied.

LUMBER-

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

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

Max Horz 2=65(LC 8)

Max Uplift 3=-45(LC 12), 2=-60(LC 8) Max Grav 3=124(LC 1), 2=254(LC 1), 4=74(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=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 4-1-12 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; 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) Refer to girder(s) for truss to truss connections.

- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 2.
- 5) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 6) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



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LUMBER-

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

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

Max Horz 2=39(LC 8)

Max Uplift 3=-19(LC 12), 2=-51(LC 8) Max Grav 3=53(LC 1), 2=167(LC 1), 4=35(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=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; 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) Refer to girder(s) for truss to truss connections.

- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 2. 5) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

MIS 11X8 * PROVIN JUAN GARCIA NUMBER E-2000162101 TH 6 ONALE 16952 August 5,2022

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MiTek 16023 Swingley Ridge Rd Chesterfield, MO 63017

August 5,2022

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

BRACING-TOP CHORD BOT CHORD

Structural wood sheathing directly applied or 2-1-7 oc purlins. Rigid ceiling directly applied or 10-0-0 oc bracing.



						1-1-7			
LOADING	G (psf)	SPACING- 2-0-0	CSI.	DEFL.	n (loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL 1.15	TC 0.28	Vert(LL) 0.0	0 5	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL 1.15	BC 0.08	Vert(CT) 0.0	0 5	>999	180		
BCLL	0.0	Rep Stress Incr YES	WB 0.00	Horz(CT) -0.0	0 3	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014	Matrix-MR					Weight: 5 lb	FT = 20%

TOP CHORD

BOT CHORD

LUMBER-

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

REACTIONS. 3=Mechanical, 4=Mechanical, 5=0-3-8 (size) Max Horz 5=38(LC 8) Max Uplift 3=-71(LC 1), 4=-34(LC 1), 5=-150(LC 8)

Max Grav 3=40(LC 8), 4=20(LC 8), 5=333(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-5=-280/212

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; 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) Refer to girder(s) for truss to truss connections.

- 4) Bearing at joint(s) 5 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 4 except (jt=lb) 5 = 150.
- 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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MIS

Structural wood sheathing directly applied or 1-1-7 oc purlins,

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

except end verticals.







LUMBER-

 TOP CHORD
 2x4 SPF No.2

 BOT CHORD
 2x4 SPF No.2

 WEBS
 2x4 SPF No.2

 SLIDER
 Left 2x4 SPF No.2 2-0-0

BRACING-TOP CHORD BOT CHORD

Structural wood sheathing directly applied, except end verticals. Rigid ceiling directly applied.

REACTIONS. (size) 7=Mechanical, 2=0-3-8 Max Horz 2=113(LC 11) Max Uplift 7=-57(LC 8), 2=-123(LC 8) Max Grav 7=291(LC 1), 2=448(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-4=-334/78

NOTES-

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-10-8 to 1-1-8, Interior(1) 1-1-8 to 6-10-15 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; 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) Refer to girder(s) for truss to truss connections.

- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 7 except (jt=lb) 2=123.
- 5) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 6) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



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16023 Swingley Ridge Rd Chesterfield, MO 63017



				4-10-15	
			I	4-10-15	
Plate Off	sets (X,Y)	[2:0-1-12,0-0-1]			_
					=
LOADIN	G (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d PLATES GRIP	
TCLL	25.0	Plate Grip DOL 1.15	TC 0.26	Vert(LL) 0.03 5-8 >999 240 MT20 197/144	
TCDL	10.0	Lumber DOL 1.15	BC 0.19	Vert(CT) -0.04 5-8 >999 180	
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-AS	Weight: 16 lb FT = 20%	

TOP CHORD

BOT CHORD

Structural wood sheathing directly applied.

Rigid ceiling directly applied.

LUMBER-

TOP CHORD 2x4 SPF No.2 2x4 SPF No.2 BOT CHORD SLIDER Left 2x4 SPF No.2 2-0-0

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

REACTIONS.

Max Horz 2=90(LC 8) Max Uplift 4=-54(LC 12), 2=-106(LC 8)

Max Grav 4=138(LC 1), 2=375(LC 1), 5=83(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=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-10-8 to 1-1-8, Interior(1) 1-1-8 to 4-10-3 zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; 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) Refer to girder(s) for truss to truss connections.

4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4 except (jt=lb) 2=106.

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

6) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



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							2	-10-13					
					1		2	-10-15					
Plate Offs	ets (X,Y)	[2:0-1-8,0-0-1]											
LOADING	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL	25.0	Plate Grip DOL	1.15	тс	0.22	Vert(LL)	-0.00	8	>999	240	MT20	197/144	
TCDL	10.0	Lumber DOL	1.15	BC	0.04	Vert(CT)	-0.00	5-8	>999	180			
BCLI	0.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	2	n/a	n/a			

TOP CHORD

BOT CHORD

LUMBER-

BCDL

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

10.0

Left 2x4 SPF No.2 2-0-0

REACTIONS.

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

Max Horz 2=65(LC 8) Max Uplift 4=-28(LC 12), 2=-103(LC 8)

Max Grav 4=62(LC 1), 2=303(LC 1), 5=43(LC 3)

Code IRC2018/TPI2014

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=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-10-8 to 1-1-8, Interior(1) 1-1-8 to 2-10-3 zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

Matrix-MP

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

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

4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4 except (it=lb) 2 = 103

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

MIS 0 NXS * PROVIN JUAN GARCIA NUMBER E-2000162101 F GI S S ONALE minin 16952 August 5,2022 August 5,2022

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Weight: 11 lb

Structural wood sheathing directly applied or 2-10-15 oc purlins.

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

FT = 20%

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			1-4-0	
LOADING (psf) TCLL 25.0 TCDL 10.0 BCLL 0.0	SPACING-2-0-0Plate Grip DOL1.15Lumber DOL1.15Rep Stress IncrYES	CSI. TC 0.28 BC 0.08 WB 0.00	DEFL. in (loc) l/defl L/d PLATES GRIP Vert(LL) 0.00 5 >999 240 MT20 197/144 Vert(CT) 0.00 5 >999 180 MT20 197/144 Horz(CT) -0.00 3 n/a n/a 1/a	
BCDL 10.0	Code IRC2018/TPI2014	Matrix-MR	Weight: 6 lb FT = 20%	
LUMBER-			BRACING-	

TOP CHORD

BOT CHORD

LUMBER-

2x4 SPF No 2 TOP CHORD BOT CHORD WEBS

2x4 SPF No.2 2x4 SPF No.2

REACTIONS. 3=Mechanical, 4=Mechanical, 5=0-3-8 (size) Max Horz 5=40(LC 8)

Max Uplift 3=-43(LC 1), 4=-26(LC 1), 5=-138(LC 8) Max Grav 3=26(LC 8), 4=19(LC 8), 5=316(LC 1)

FORCES. (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) or less except when shown. TOP CHORD 2-5=-266/199

NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; 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) Refer to girder(s) for truss to truss connections.

- 4) Bearing at joint(s) 5 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 4 except (jt=lb) 5 = 138
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.





WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 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

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Structural wood sheathing directly applied or 1-4-0 oc purlins, except end verticals.

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



Plate Offsets (X,Y) [2:0-1-8,0-0-5]										
LOADING (psf) TCLL 25.0 TCDL 10.0 BCLL 0.0 BCDL 10.0	SPACING-2-0-0Plate Grip DOL1.15Lumber DOL1.15Rep Stress IncrYESCode IRC2018/TPI2014	CSI. TC 0.22 BC 0.07 WB 0.00 Matrix-MP	DEFL. in (loc) l/defl L/d Vert(LL) 0.01 5-8 >999 240 MT20 197/144 Vert(CT) -0.01 5-8 >999 180 MT20 197/144 Horz(CT) 0.00 2 n/a n/a Weight: 12 lb FT = 20%							

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x4 SPF No.2 2x4 SPF No.2 BOT CHORD SLIDER Left 2x4 SPF No.2 2-0-0

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

REACTIONS.

Max Horz 2=70(LC 8) Max Uplift 4=-33(LC 12), 2=-103(LC 8)

Max Grav 4=79(LC 1), 2=316(LC 1), 5=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=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-10-8 to 1-1-8, Interior(1) 1-1-8 to 3-3-4 zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; 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) Refer to girder(s) for truss to truss connections.

4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4 except (it=lb) 2=103.

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



Structural wood sheathing directly applied or 3-4-0 oc purlins.

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

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				-		1-2-1	5		
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 0.28 BC 0.08 WB 0.00 Matrix-MR	DEFL. Vert(LL) Vert(CT) Horz(CT)	in 0.00 0.00 -0.00	(loc) 5 5 3	l/defl >999 >999 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 6 lb	GRIP 197/144 FT = 20%

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

BRACING-TOP CHORD

BOT CHORD

Structural wood sheathing directly applied or 1-2-15 oc purlins, except end verticals. Rigid ceiling directly applied or 10-0-0 oc bracing.

- REACTIONS. 3=Mechanical, 4=Mechanical, 5=0-3-8 (size) Max Horz 5=39(LC 8) Max Uplift 3=-53(LC 1), 4=-29(LC 1), 5=-142(LC 8) Max Grav 3=31(LC 8), 4=19(LC 8), 5=322(LC 1)
- FORCES. (Ib) Max. Comp./Max. Ten. All forces 250 (Ib) or less except when shown. TOP CHORD 2-5=-271/204

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; 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) Refer to girder(s) for truss to truss connections.

- 4) Bearing at joint(s) 5 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 4 except (jt=lb) 5=142.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



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LOADING	G (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d	PLATES GRIP
TCLL	25.0	Plate Grip DOL 1.15	TC 0.60	Vert(LL) 0.10 7-10 >819 240	MT20 197/144
TCDL	10.0	Lumber DOL 1.15	BC 0.40	Vert(CT) -0.20 7-10 >414 180	
BCLL	0.0	Rep Stress Incr YES	WB 0.04	Horz(CT) 0.04 2 n/a n/a	
BCDL	10.0	Code IRC2018/TPI2014	Matrix-AS		Weight: 24 lb FT = 20%

LUMBER-

 TOP CHORD
 2x4 SPF No.2

 BOT CHORD
 2x4 SPF No.2

 WEBS
 2x4 SPF No.2

 SLIDER
 Left 2x4 SPF No.2 2-0-0

BRACING-TOP CHORD BOT CHORD

Structural wood sheathing directly applied. Rigid ceiling directly applied.

REACTIONS. (size) 2=0-3-8, 7=Mechanical Max Horz 2=118(LC 8) Max Uplift 2=-114(LC 8), 7=-71(LC 8) Max Grav 2=459(LC 1), 7=304(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-4=-359/52

NOTES-

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-10-8 to 1-1-8, Interior(1) 1-1-8 to 7-2-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; 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) Refer to girder(s) for truss to truss connections.

- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 7 except (jt=lb) 2=114.
- 5) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 6) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



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

Max Horz 2=102(LC 8) Max Uplift 4=-67(LC 12), 2=-110(LC 8)

Max Grav 4=173(LC 1), 2=415(LC 1), 5=101(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-4=-263/43

NOTES-

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-10-8 to 1-1-8, Interior(1) 1-1-8 to 5-10-3 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; 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) Refer to girder(s) for truss to truss connections.

- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4 except (jt=lb) 2=110.
- 5) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 6) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



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						3-10-	-15					
Plate Off	sets (X,Y)	[2:0-1-8,0-0-5]										
LOADIN	G (psf)	SPACING- 2-0)-0 CSI .		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL	25.0	Plate Grip DOL 1.	15 TC	0.22	Vert(LL)	-0.01	5-8	>999	240	MT20	197/144	
TCDL	10.0	Lumber DOL 1.	15 BC	0.11	Vert(CT)	-0.02	5-8	>999	180			
BCLL	0.0	Rep Stress Incr YI	ES WB	0.00	Horz(CT)	0.01	2	n/a	n/a			
BCDL	10.0	Code IRC2018/TPI201	4 Matr	ix-MP						Weight: 14 lb	FT = 20%	

LUMBER-

TOP CHORD2x4 SPF No.2BOT CHORD2x4 SPF No.2SLIDERLeft 2x4 SPF No.2 2-0-0

BRACING-TOP CHORD BOT CHORD

Structural wood sheathing directly applied or 3-10-15 oc purlins. Rigid ceiling directly applied or 10-0-0 oc bracing.

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

Max Horz 2=78(LC 8) Max Uplift 4=-41(LC 12), 2=-103(LC 8)

Max Grav 4=101(LC 1), 2=336(LC 1), 5=64(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=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-10-8 to 1-1-8, Interior(1) 1-1-8 to 3-10-3 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; 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) Refer to girder(s) for truss to truss connections.

 Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4 except (jt=lb) 2=103.

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







								<u>1-10</u> 1-10	<u>-15</u> -15				
Plate Offs	ets (X,Y)	[2:0-1-12,0-0-5]											
LOADING TCLL TCDL	i (psf) 25.0 10.0	SPACING- Plate Grip DOL Lumber DOL	2-0-0 1.15 1.15	CSI. TC BC	0.24 0.02	DEFL. Vert(LL) Vert(CT)	in 0.00 0.00	(loc) 8 8	l/defl >999 >999	L/d 240 180	PLATES MT20	GRIP 197/144	
BCLL	0.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.00	2	n/a	n/a			

TOP CHORD

BOT CHORD

11	IM	RF	R-	

Plat

BCDL

TOP CHORD 2x4 SPF No.2 2x4 SPF No.2 BOT CHORD SLIDER Left 2x4 SPF No.2 1-6-0

10.0

REACTIONS.

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

Max Horz 2=54(LC 8) Max Uplift 4=-13(LC 12), 2=-108(LC 8)

Max Grav 4=18(LC 1), 2=282(LC 1), 5=24(LC 3)

Code IRC2018/TPI2014

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=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-10-8 to 1-1-8, Interior(1) 1-1-8 to 1-10-13 zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

Matrix-MP

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

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

4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4 except (it=lb) 2 = 108

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

MIS 0 ¢ Will & PROXIM JUAN GARCIA NUMBER E-2000162101 F GIT S S ONALE Think 16952 Bon Sonsage Marine August 5,2022

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FT = 20%

Weight: 9 lb

Structural wood sheathing directly applied or 1-10-15 oc purlins.

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

August 5,2022





Plate Offsets (X,Y)	[2:0-1-12,0-0-1]		
LOADING (psf) TCLL 25.0	SPACING- 2-0-0 Plate Grip DOL 1.15	CSI. TC 0.29	DEFL. in (loc) I/defl L/d PLATES GRIP Vert(LL) 0.04 5-8 >999 240 MT20 197/144
TCDL 10.0 BCLL 0.0	Lumber DOL 1.15 Rep Stress Incr YES	BC 0.20 WB 0.00	Vert(CT) -0.05 5-8 >999 180 Horz(CT) 0.01 4 n/a n/a
BCDL 10.0	Code IRC2018/TPI2014	Matrix-AS	Weight: 17 lb FT = 20%
LUMBER-			BRACING-

TOP CHORD

BOT CHORD

Structural wood sheathing directly applied.

Rigid ceiling directly applied.

LUMBER-

TOP CHORD 2x4 SPF No.2 BOT CHORD 2x4 SPF No.2 SLIDER Left 2x4 SPF No.2 2-0-0

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

Max Horz 2=92(LC 8) Max Uplift 4=-57(LC 12), 2=-107(LC 8)

Max Grav 4=144(LC 1), 2=382(LC 1), 5=86(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=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-10-8 to 1-1-8, Interior(1) 1-1-8 to 5-0-7 zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; 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) Refer to girder(s) for truss to truss connections.

4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4 except (jt=lb) 2=107.

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

6) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



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MiTek 16023 Swingley Ridge Rd Chesterfield, MO 63017



Plate Olisets (X, Y)	[3:0-2-13,0-0-8]		
LOADING (psf) TCLL 25.0 TCDL 10.0 BCLL 0.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES	CSI. TC 0.26 BC 0.07 WB 0.00	DEFL. in (loc) l/defl L/d PLATES GRIP Vert(LL) 0.00 5-6 >999 240 MT20 197/144 Vert(CT) -0.00 5-6 >999 180 Horz(CT) -0.00 3 n/a n/a
BCDL 10.0	Code IRC2018/TPI2014	Matrix-MP	Weight: 11 lb FT = 20%
		•	PRACING

LUMBER-		BRACING-	
TOP CHORD	2x4 SPF No.2	TOP CHORD	Structural wood sheathing directly applied or 3-1-3 oc purlins,
BOT CHORD	2x4 SPF No.2		except end verticals.
WEBS	2x4 SPF No.2	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 5=Mechanical, 3=Mechanical, 6=0-3-8

Max Horz 6=59(LC 8) Max Uplift 3=-27(LC 12), 6=-112(LC 8)

Max Grav 5=57(LC 3), 3=55(LC 1), 6=315(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-6=-273/202

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=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-10-8 to 1-1-8, Interior(1) 1-1-8 to 2-9-11 zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; 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) 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 100 lb uplift at joint(s) 3 except (jt=lb) 6=112.

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) Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.



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				1-1-3
LOADING	G (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d PLATES GRIP
TCLL	25.0	Plate Grip DOL 1.15	TC 0.28	Vert(LL) 0.00 5 >999 240 MT20 197/144
TCDL	10.0	Lumber DOL 1.15	BC 0.08	Vert(CT) 0.00 5 >999 180
BCLL	0.0	Rep Stress Incr YES	WB 0.00	Horz(CT) -0.00 3 n/a n/a
BCDL	10.0	Code IRC2018/TPI2014	Matrix-MR	Weight: 5 lb FT = 20%

TOP CHORD

BOT CHORD

LUMBER-

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

2x4 SPF No.2

REACTIONS. 3=Mechanical, 4=Mechanical, 5=0-3-8 (size) Max Horz 5=38(LC 8) Max Uplift 3=-74(LC 1), 4=-35(LC 1), 5=-152(LC 8) Max Grav 3=42(LC 8), 4=21(LC 8), 5=336(LC 1)

FORCES. (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) or less except when shown. TOP CHORD 2-5=-282/213

NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; 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) Refer to girder(s) for truss to truss connections.

- 4) Bearing at joint(s) 5 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 4 except (jt=lb) 5=152.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



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

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

except end verticals.







		2-0	0-0	5-6-0			8-0-0	
	T	2-0)-0	3-6-0			2-6-0	
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/TF	2-0-0 1.15 1.15 NO Pl2014	CSI. TC 0.31 BC 0.39 WB 0.10 Matrix-MP	DEFL. ir Vert(LL) -0.04 Vert(CT) -0.10 Horz(CT) 0.01	n (loc) l/defl 6-7 >999 6-7 >950 6 n/a	L/d 240 180 n/a	PLATES GRIP MT20 197/144 Weight: 34 lb FT = 20%	
LUMBER- TOP CHORD 2x4 SF 1-3: 2x BOT CHORD 2x4 SF WEBS 2x4 SF WEDGE Left: 2x4 SP No.3	PF No.2 *Except* 6 SPF No.2 PF No.2 PF No.2			BRACING- TOP CHORD BOT CHORD	Structural wood except end verti Rigid ceiling dire	sheathing directly cals, and 2-0-0 oc ectly applied or 10	applied or 6-0-0 oc purlins, purlins (6-0-0 max.): 3-4. -0-0 oc bracing.	
REACTIONS. (size Max H Max U Max G	e) 6=Mechanical, 2=0-3 lorz 2=82(LC 7) lplift 6=-69(LC 8), 2=-148 irav 6=399(LC 1), 2=550	3-8 (LC 4) (LC 1)					OF MISS	
FORCES. (lb) - Max. TOP CHORD 2-3=- BOT CHORD 2-7=- WEBS 4-6=-	Comp./Max. Ten All for 719/68, 3-4=-649/64 -78/629, 6-7=-126/565 -614/155, 4-7=0/253	rces 250 (lb) or	less except when shown				GARCIA	
NOTES- 1) Wind: ASCE 7-16; V MWFRS (envelope) grip DOL=1.60 2) Provide adequate dr 3) This truss has been 4) Refer to girder(s) for 5) Provide mechanical	/ult=115mph (3-second gu gable end zone; cantileve rainage to prevent water p designed for a 10.0 psf b r truss to truss connection connection (by others) of	ust) Vasd=91mp er left and right bonding. ottom chord live s. truss to bearing	bh; TCDL=6.0psf; BCDL exposed ; end vertical le e load nonconcurrent with g plate capable of withsta	=4.2psf; h=15ft; Cat. II; E ft and right exposed; Lur n any other live loads. anding 100 lb uplift at joir	Exp C; Enclosed; nber DOL=1.60 pl nt(s) 6 except (jt=l	late	NUMBER E-2000162101	
 2=148. 6) This truss is designer referenced standard 7) Graphical purlin repl 8) "NAILED" indicates 9) Hanger(s) or other constraints 2-0-0 on bottom choose to be to be	ed in accordance with the I ANSI/TPI 1. resentation does not depi 3-10d (0.148"x3") or 3-12 connection device(s) shall rd. The design/selection E(S) section, loads applied	2018 Internatio ct the size or th d (0.148"x3.25" be provided su of such connec d to the face of t	nal Residential Code ser e orientation of the purlir) toe-nails per NDS guid fficient to support concer tion device(s) is the resp he truss are noted as fro	ctions R502.11.1 and R8 along the top and/or bo lines. htrated load(s) 65 lb dow onsibility of others. ont (F) or back (B).	02.10.2 and ttom chord. n and 14 lb up at		16952	
LOAD CASE(S) Stan 1) Dead + Roof Live (b Uniform Loads (plf) Vert: 1-3=-7 Concentrated Loads Vert: 3=-13	dard alanced): Lumber Increas 70, 3-4=-70, 4-5=-70, 6-8= 5 (lb) (B) 7=-15(B) 11=-17(B) 12	se=1.15, Plate I 20 2=-17(B) 13=-29	ncrease=1.15 5(B) 14=-25(B)				PROTECTION ALLENG	

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

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4-0-0	4-0-0	1
0-0 CSI.	DEFL. in (loc) I/defl L/d	PLATES GRIP
.15 TC 0.27	Vert(LL) -0.01 8-9 >999 240	MT20 197/144
.15 BC 0.13	Vert(CT) -0.02 8-9 >999 180	
YES WB 0.10	Horz(CT) -0.00 2 n/a n/a	
14 Matrix-AS		Weight: 31 lb FT = 20%
	BRACING-	
	TOP CHORD Structural wood sheathing dir	ectly applied, except
0- .1 .1 'E: 14	0 CSI. 5 TC 0.27 5 BC 0.13 5 WB 0.10 Matrix-AS	0 CSI. DEFL. in (loc) l/defl L/d 5 TC 0.27 Vert(LL) -0.01 8-9 >999 240 5 BC 0.13 Vert(CT) -0.02 8-9 >999 180 S WB 0.10 Matrix-AS Horz(CT) -0.00 2 n/a n/a BRACING- TOP CHORD Structural wood sheathing dir 20-0 oc putting (6-0-0 max) 2

BOT CHORD

Rigid ceiling directly applied.

 BOT CHORD
 2x4 SPF No.2

 WEBS
 2x4 SPF No.2

 SLIDER
 Left 2x4 SPF No.2 2-0-0

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

Max Horz 2=75(LC 8) Max Uplift 2=-134(LC 8), 8=-59(LC 8) Max Grav 2=495(LC 1), 8=343(LC 1)

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

TOP CHORD 2-4=-395/164, 4-5=-387/189

BOT CHORD 2-9=-179/378 WEBS 5-8=-303/153, 5-9=-203/418

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=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-10-8 to 1-1-8, Interior(1) 1-1-8 to 4-0-0, Exterior(2E) 4-0-0 to 8-0-0 zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; 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) Refer to girder(s) for truss to truss connections.

6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 8 except (jt=lb) 2=134.

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

8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

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



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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 0.48	Vert(LL) -0.11 8-11 >828 240	MT20 197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.45	Vert(CT) -0.24 8-11 >379 180	
BCLL 0.0	Rep Stress Incr YES	WB 0.05	Horz(CT) 0.03 2 n/a n/a	
BCDL 10.0	Code IRC2018/TPI2014	Matrix-AS		Weight: 29 lb FT = 20%
LUMBER-			BRACING-	

 TOP CHORD
 2x4 SPF No.2

 BOT CHORD
 2x4 SPF No.2

 WEBS
 2x4 SPF No.2

 SLIDER
 Left 2x4 SPF No.2 2-0-0

 BRACING

 TOP CHORD
 Structural wood sheathing directly applied, except end verticals, ar 2-0-0 oc purlins (6-0-0 max.): 4-6.

 BOT CHORD
 Rigid ceiling directly applied.

REACTIONS. (size) 2=0-3-8, 8=Mechanical Max Horz 2=97(LC 11) Max Uplift 2=-134(LC 8), 8=-59(LC 8)

Max Grav 2=495(LC 1), 8=343(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-4=-562/81

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=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-10-8 to 1-1-8, Interior(1) 1-1-8 to 6-0-0, Exterior(2E) 6-0-0 to 8-0-0 zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; 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) Refer to girder(s) for truss to truss connections.

6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 8 except (jt=lb) 2=134.

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

8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

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



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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 0.77 BC 0.52 WB 0.05 Matrix-AS	DEFL. in (loc) l/defl L/d Vert(LL) 0.14 7-10 >644 240 Vert(CT) -0.32 7-10 >293 180 Horz(CT) 0.06 2 n/a n/a	PLATES GRIP MT20 197/144 Weight: 26 lb FT = 20%
LUMBER-			BRACING-	

TOP CHORD

BOT CHORD

Structural wood sheathing directly applied.

Rigid ceiling directly applied.

LUMBER-

TOP CHORD 2x4 SPF No.2 BOT CHORD 2x4 SPF No.2 WEBS 2x4 SPF No.2 SLIDER Left 2x4 SPF No.2 2-0-0

REACTIONS. (size) 2=0-3-8, 7=Mechanical Max Horz 2=128(LC 8) Max Uplift 2=-118(LC 8), 7=-80(LC 8)

Max Grav 2=494(LC 1), 7=343(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-4=-445/59

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-10-8 to 1-1-8, Interior(1) 1-1-8 to 8-0-0 zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; 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) Refer to girder(s) for truss to truss connections.

- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 7 except (jt=lb) 2 = 118
- 5) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 6) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



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TOP CHORD

BOT CHORD

Structural wood sheathing directly applied.

Rigid ceiling directly applied.

LUMBER-

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

Left 2x4 SPF No.2 2-0-0 REACTIONS. (size) 2=0-3-8, 9=Mechanical

Max Horz 2=128(LC 8) Max Uplift 2=-117(LC 8), 9=-79(LC 8) Max Grav 2=496(LC 1), 9=343(LC 1)

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

4-12=-250/52, 4-5=-458/209 TOP CHORD BOT CHORD 4-9=-310/466

WEBS 5-9=-594/396

NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-10-8 to 1-1-8, Interior(1) 1-1-8 to 8-0-0 zone; cantilever left and right exposed ; end vertical left and right exposed:C-C for members and forces & MWFRS for reactions shown; 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.

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

4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 9 except (jt=lb) 2=117.

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

6) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



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Plate Offs	sets (X,Y)	[2:0-2-4,0-0-1], [4:0-5-8,0-1-15]			
LOADING	G (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES GRIP
TCLL	25.0	Plate Grip DOL 1.15	TC 0.57	Vert(LL) 0.11 7 >661 240	MT20 197/144
TCDL	10.0	Lumber DOL 1.15	BC 0.39	Vert(CT) -0.15 7 >465 180	
BCLL	0.0	Rep Stress Incr YES	WB 0.00	Horz(CT) 0.09 6 n/a n/a	
BCDL	10.0	Code IRC2018/TPI2014	Matrix-AS		Weight: 20 lb FT = 20%

TOP CHORD

BOT CHORD

Structural wood sheathing directly applied.

Rigid ceiling directly applied.

LUMBER-

TOP CHORD 2x4 SPF No.2 BOT CHORD 2x4 SPF No.2 SLIDER Left 2x4 SPF No.2 2-0-0

REACTIONS.

(size) 5=Mechanical, 2=0-3-8, 6=Mechanical

Max Horz 2=102(LC 8) Max Uplift 5=-52(LC 12), 2=-110(LC 8), 6=-6(LC 12) Max Grav 5=153(LC 1), 2=416(LC 1), 6=97(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=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-10-8 to 1-1-8, Interior(1) 1-1-8 to 5-10-3 zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; 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) Refer to girder(s) for truss to truss connections.

4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 6 except (it=lb) 2=110.

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

6) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



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LUMBER-

TOP CHORD 2x4 SPF No.2 BOT CHORD 2x4 SPF No.2 SLIDER Left 2x4 SPF No.2 2-0-0

BRACING-TOP CHORD BOT CHORD

Structural wood sheathing directly applied or 3-10-15 oc purlins. Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) 5=Mechanical, 2=0-3-8, 6=Mechanical

Max Horz 2=78(LC 8) Max Uplift 5=-26(LC 12), 2=-103(LC 8), 6=-9(LC 12) Max Grav 5=82(LC 1), 2=337(LC 1), 6=60(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=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-10-8 to 1-1-8, Interior(1) 1-1-8 to 3-10-3 zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; 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) Refer to girder(s) for truss to truss connections.

4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 6 except (jt=lb) 2 = 103

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



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LOADING (psf)SPACING- Plate Grip DOL2-0-0TCLL25.0Plate Grip DOL1.15TCDL10.0Lumber DOL1.15				
BCLL 0.0 Rep Stress Incr YES	CSI. TC 0.09 BC 0.08 WB 0.00	DEFL. in (lc Vert(LL) -0.00 4 Vert(CT) -0.01 4 Horz (CT) 0.00 4	bc) I/defi L/d 4-7 >999 240 4-7 >999 180 2 p/a p/a	PLATES GRIP MT20 197/144
BCDL 10.0 Code IRC2018/TPI2014	Matrix-MP		2 11/a 11/a	Weight: 8 lb FT = 20%

TOP CHORD

BOT CHORD

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LUMBER-
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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=50(LC 8)

Max Uplift 3=-30(LC 12), 2=-54(LC 8) Max Grav 3=83(LC 1), 2=203(LC 1), 4=52(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=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 2-11-4 zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; 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) Refer to girder(s) for truss to truss connections.

4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 2. 5) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

¢ NXS * PROVIN JUAN GARCIA NUMBER E-2000162101 T 6 S S ONALE 16952 August 5,2022 August 5,2022

11111 MIS

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

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





BRACING-TOP CHORD

BOT CHORD

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BCDL

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

10.0

REACTIONS. 1=0-3-8, 2=Mechanical, 3=Mechanical (size)

Max Horz 1=36(LC 8)

Max Uplift 1=-17(LC 8), 2=-31(LC 8) Max Grav 1=132(LC 1), 2=87(LC 1), 3=53(LC 3)

Code IRC2018/TPI2014

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=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

Matrix-MP

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

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

- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 2. 5) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

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Weight: 7 lb

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

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

FT = 20%





			400		
Plate Offsets (X,Y)	[2:0-1-8,0-0-9]				
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 0.24	Vert(LL) 0.03 5-8	3 >999 240	MT20 197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.17	Vert(CT) -0.04 5-8	3 >999 180	
BCLL 0.0	Rep Stress Incr YES	WB 0.00	Horz(CT) 0.01 4	4 n/a n/a	
BCDL 10.0	Code IRC2018/TPI2014	Matrix-AS			Weight: 16 lb $FT = 20\%$
			BRACING.		

TOP CHORD

BOT CHORD

Structural wood sheathing directly applied.

Rigid ceiling directly applied.

LUMBER-

TOP CHORD 2x4 SPF No.2 BOT CHORD 2x4 SPF No.2 SLIDER Left 2x4 SPF No.2 2-0-0

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

Max Horz 2=88(LC 8) Max Uplift 4=-52(LC 12), 2=-106(LC 8)

Max Grav 4=132(LC 1), 2=368(LC 1), 5=80(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=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-10-8 to 1-1-8, Interior(1) 1-1-8 to 4-8-4 zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; 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) Refer to girder(s) for truss to truss connections.

4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4 except (jt=lb) 2=106.

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

6) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



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			<u> </u>	2-7-15	
Plate Offsets (X,Y)	[2:0-1-8,0-0-1]				
LOADING (psf) TCLL 25.0 TCDI 10.0	SPACING- Plate Grip DOL	2-0-0 1.15 1.15	CSI. TC 0.24 BC 0.03	DEFL. in (loc) l/defl L/d PLATES GRIP Vert(LL) -0.00 8 >999 240 MT20 197/144 Vert(CT) -0.00 5-8 >999 180 Image: Comparison of the second	

LUMBER	-		BRACING-						
BCLL BCDL	0.0 10.0	Rep Stress Incr YES Code IRC2018/TPI2014	WB 0.00 Matrix-MP	Horz(CT) 0.00	2	n/a	n/a	Weight: 11 lb	
TCDL	10.0	Lumber DOL 1.15	BC 0.03	Vert(CT) -0.00	5-8	>999	180	11120	10
TCDL	10.0	Lumber DOL 1.15	BC 0.03	Vert(CT) -0.00	5-8	>999	180		

TOP CHORD 2x4 SPF No.2 2x4 SPF No.2 BOT CHORD SLIDER Left 2x4 SPF No.2 2-0-0 TOP CHORD BOT CHORD

Structural wood sheathing directly applied or 2-7-15 oc purlins. Rigid ceiling directly applied or 10-0-0 oc bracing.

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

Max Horz 2=62(LC 8) Max Uplift 4=-24(LC 12), 2=-104(LC 8)

Max Grav 4=52(LC 1), 2=296(LC 1), 5=38(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=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-10-8 to 1-1-8, Interior(1) 1-1-8 to 2-7-3 zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; 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) Refer to girder(s) for truss to truss connections.

4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4 except (it=lb) 2=104.

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

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FT = 20%

MiTek 16023 Swingley Ridge Rd Chesterfield, MO 63017



				1-10-4								
	G (psf)	SPACING-	2-0-0	CSI.	0.28	DEFL.	in 0.00	(loc)	l/defl	L/d 240	PLATES	GRIP
TCDL	10.0	Lumber DOL	1.15	BC	0.05	Vert(CT)	0.00	7	>999	180	10120	137/144
BCLL BCDL	0.0 10.0	Rep Stress Incr Code IRC2018/TPI2	YES 2014	WB Matrix	0.01 k-MS	Horz(CT)	0.00		n/a	n/a	Weight: 8 lb	FT = 20%

LUMBER-

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

REACTIONS. 7=0-3-8, 5=0-1-8 (size) Max Horz 7=41(LC 11)

Max Uplift 7=-115(LC 8), 5=-21(LC 1) Max Grav 7=301(LC 1), 5=27(LC 3)

FORCES. (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) or less except when shown. TOP CHORD 2-7=-273/197

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-10-8 to 1-1-8, Interior(1) 1-1-8 to 1-10-4 zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; 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) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 5.

4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5 except (jt=lb) 7=115.

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

MIS 0 TIS * PROXIM JUAN GARCIA NUMBER E-2000162101 F GIT S S ONALE THIN 16952 PRO ANSAS August 5,2022 MUMULI I ANSI-

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August 5,2022

BOT CHORD

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

BRACING-TOP CHORD

Structural wood sheathing directly applied or 1-10-4 oc purlins,

RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEASSIMMIT, MISSOURI 05/31/2023 3:09:53



1-11-8

except end verticals.

				1-11-8	
LOADING TCLL TCDL BCLL	(psf) 25.0 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Pep Stress Incr. YES	CSI. TC 0.05 BC 0.02 WB 0.00	DEFL. in (loc) l/defl L/d PLATES GRIP Vert(LL) -0.00 7 >999 240 MT20 197/144 Vert(CT) -0.00 7 >999 180 Horz(CT) 0.00 2 p/a p/a	
BCDL	10.0	Code IRC2018/TPI2014	Matrix-MP	Weight: 6 lb FT = 20%	

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

REACTIONS. (size) 4=Mechanical, 2=0-3-8 Max Horz 2=40(LC 11) Max Uplift 4=-14(LC 12), 2=-33(LC 8)

Max Grav 4=67(LC 1), 2=158(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=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; 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) Refer to girder(s) for truss to truss connections.

- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 2.
- 5) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

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Structural wood sheathing directly applied or 1-11-8 oc purlins,

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

KiTek 16023 Swingley Ridge Rd Chesterfield, MO 63017

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mini August 5,2022

MiTek 16023 Swingley Ridge Rd Chesterfield, MO 63017
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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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 9 except (jt=lb) 15=117. 16=107. 17=143. 12=115. 11=108. 10=143.

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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10) 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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0-0 <u>12</u>			14-2-4						
0-0-12	14-1-8								
LOADING (psf) TCLL 25.0 TCDL 10.0 BCLL 0.0	SPACING-2-0-0Plate Grip DOL1.15Lumber DOL1.15Rep Stress IncrYES	CSI. TC 0.55 BC 0.31 WB 0.06	DEFL. Vert(LL) Vert(CT) Horz(CT)	in n/a n/a 0.00	(loc) - - 3	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20	GRIP 197/144
BCDL 10.0	Code IRC2018/TPI2014	Matrix-S						Weight: 33 lb	FT = 20%
LUMBER-			BRACING-						

TOP CHORD

BOT CHORD

LUMBER-

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

REACTIONS. 1=14-0-12, 3=14-0-12, 4=14-0-12 (size) Max Horz 1=33(LC 12) Max Uplift 1=-49(LC 8), 3=-53(LC 13), 4=-63(LC 8) Max Grav 1=246(LC 25), 3=246(LC 26), 4=633(LC 1)

FORCES. (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) or less except when shown. 2-4=-448/206WEBS

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=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-11-5 to 3-11-5, Interior(1) 3-11-5 to 7-1-2, Exterior(2R) 7-1-2 to 10-1-2, Interior(1) 10-1-2 to 13-2-15 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3, 4. 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

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

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

MiTek 16023 Swingley Ridge Rd Chesterfield, MO 63017

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