



RE: P210273 - Juneau Townhomes - Site Information: Project Customer: Clover & Hive Proje Lot/Block: Model: Juneau Townhomes Address: SW Pryor Rd City: Lee's Summit General Truss Engineering Criteria & Drawings Show Special Loading Cond	Osage ect Name: Subdivision: State: MO Design Loads (I ditions):	: Osage Individual Truss Desig	MiTek USA, Inc. 16023 Swingley Ridge Rd Chesterfield, MO 63017 314-434-1200
Design Code: IRC2018/TPI2014 Wind Code: ASCE 7-16 Wind Speed: 11	5 mph D	esign Program: MiTek 2 Design Method: MWFRS	0/20 8.5 (Envelope)/C-C hybrid Wind ASCE 7-16
Roof Load: 45.0 psf	F.	loor Load: N/A psf	
Mean Roof Height (feet): 35	E	Exposure Category: C	
No.Seal#Truss NameDate1146743630A1 $6/25/21$ 2146743631A2 $6/25/21$ 3146743632A3 $6/25/21$ 4146743633A4 $6/25/21$ 5146743635A6 $6/25/21$ 6146743635A6 $6/25/21$ 7146743636A7 $6/25/21$ 8146743637A8 $6/25/21$ 9146743638A9 $6/25/21$ 10146743639A10 $6/25/21$ 11146743640A11 $6/25/21$ 12146743641A12 $6/25/21$ 13146743642A13 $6/25/21$ 14146743643A14 $6/25/21$ 15146743644A15 $6/25/21$ 16146743645A16 $6/25/21$ 17146743644A15 $6/25/21$ 18146743647A18 $6/25/21$ 20146743650A21 $6/25/21$ 21146743651A22 $6/25/21$ 22146743654B2 $6/25/21$ 23146743655B3 $6/25/21$ 24146743656B4 $6/25/21$ 25146743657C1 $6/25/21$ 26146743658C2 $6/25/21$ 27146743659CJA1 $6/25/21$ 28146743659CJA1 $6/25/21$ 30146743669CJA3 $6/25/21$ 31146743663D2 $6/25/21$ 33	No.Seal# 35 146743664 36 146743665 37 146743666 38 146743667 39 146743667 39 146743669 41 146743670 42 146743672 44 146743672 44 146743674 45 146743675 47 146743675 47 146743675 47 146743675 47 146743675 47 146743675 50 146743676 48 146743675 51 146743680 52 146743683 55 146743683 55 146743683 55 146743683 58 146743683 58 146743683 59 146743683 60 146743693 61 146743693 62 146743693 65 146743693 65 146743693 65 146743693 65 146743693 65 146743693 65 146743693 65 146743695 67 146743695 68 146743697	$\begin{array}{c c c c c c c c c c c c c c c c c c c $	

The truss drawing(s) referenced above have been prepared by MiTek USA, Inc. under my direct supervision based on the parameters provided by Premier Building Supply (Springhill, KS)20300 W 207th Street.

Truss Design Engineer's Name: Fox, Steve

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

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 or TRENCO. Any project specific information included is for MiTek's or TRENCO's customers file reference purpose only, and was not taken into account in the preparation of these designs. MiTek or TRENCO 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.



Fox, Steve



Job	Truss	Truss Type	Qty	Ply	Juneau Townhomes - Osage
					146743630
P210273	A1	ROOF SPECIAL GIRDER	2	2	
				_	Job Reference (optional)
Premier Building Supply (Sp	ringhill, KS), Spring Hills,	KS - 66083,		8.510 s Ju	n 18 2021 MiTek Industries, Inc. Fri Jun 25 09:01:44 2021 Page 2
		ID:DU	zAB0GCW0	oOJpyMso ⁻	zlLz3uah-jXuPV8calAbQlGLJdMHi?0NyVUYhB4kMKm8laWz2nsr

- 12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=610, 12=541.
- 13) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 14) This truss has been designed for a moving concentrated load of 250.0lb live and 100.0lb dead located at all mid panels and at all panel points along the Bottom Chord, concurrent with live and dead loads.
- 15) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 16) Use Simpson Strong-Tie LUS24 (4-10d Girder, 2-10d Truss, Single Ply Girder) or equivalent spaced at 28-0-0 oc max. starting at 1-6-0 from the left end to 33-6-0 to connect truss(es) to back face of bottom chord.
- 17) Fill all nail holes where hanger is in contact with lumber.
- 18) "NAILED" indicates 3-10d Nails (0.148" x 3") toe-nails per NDS guidelines.

LOAD CASE(S) Standard

- 1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
 - Vert: 1-3=-70, 3-5=-70, 9-11=-70, 5-7=-70, 7-9=-70, 11-13=-70, 2-12=-20
- Concentrated Loads (lb) Vert: 3=-108(B) 22=-26(B) 18=-26(B) 11=-108(B) 14=-26(B) 24=-108(B) 25=-108(B) 27=-108(B) 28=-108(B) 30=-108(B) 31=-108(B) 33=-108(B) 34=-108(B) 36=-222(B) 38=-180(B) 39=-26(B) 49=-26(B) 42=-26(B) 43=-26(B) 44=-26(B) 45=-26(B) 46=-26(B) 47=-26(B) 49=-26(B) 50=-26(B) 51=-180(B) 53=-222(B) 40=-26(B) 45=-26(B) 45=







		8-1-8 8-1-8		15-6-7 7-4-15		19-5-9 3-11-2		<u>26-10-8</u> 7-4-15			<u>35-0-0</u> 8-1-8	
Plate Offsets (2	X,Y) [2:0-8	-0,0-0-4], [5:0-6-0,0-1-	14], [7:0-6-0,0 [,]	-1-14], [10:0-8-	0,0-0-4], [14	:0-3-8,0-2-	0], [15:0-	3-8,0-2-0]				
LOADING (ps TCLL (roof) Snow (Pf) TCDL BCLL BCDL	if) 25.0 25.0 10.0 0.0 * 10.0	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr Code IRC2018	2-0-0 1.15 1.15 NO /TPI2014	CSI. TC BC WB Matri	0.48 0.46 0.96 ix-SH	DI Ve Ve Ho	EFL. ert(LL) ert(CT) orz(CT)	in (loc) -0.28 12-14 -0.49 12-14 0.08 10	l/defl >999 >857 n/a	L/d 240 180 n/a	PLATES MT20 MT18HS Weight: 203 lb	GRIP 197/144 197/144 FT = 20%
LUMBER- TOP CHORD BOT CHORD WEBS REACTIONS.	2x4 SPF No. 4-5,7-8: 2x6 2x6 SP 2400 2x4 SPF No. (size) 2: Max Horz 2: Max Uplift 2: Max Grav 2:	2 *Except* SP 2400F 2.0E F 2.0E 3 =0-3-8, 10=0-3-8 =100(LC 16) =-256(LC 16), 10=-256 =1986(LC 77), 10=198	(LC 17) 6(LC 82)			BRACIN TOP CH BOT CH WEBS	G- ORD ORD	Sheathed or 2-0-0 oc purl Rigid ceiling 1 Row at mic	2-6-8 oc ins (5-5-1 directly a dpt	purlins, exce 2 max.): 4-5 pplied or 10 5-17, ⁻	ept 5, 7-8. -0-0 oc bracing. 7-12	
FORCES. (Ib TOP CHORD BOT CHORD WEBS	 b) - Max. Comp 2-3=-3423/ 7-8=-2877/ 2-17=-426/ 3-17=-303/ 6-14=-332/ 	0./Max. Ten All forces 518, 3-4=-3278/456, 4 447, 8-9=-3278/469, 9 2934, 15-17=-422/400 177, 4-17=-37/948, 5-1 2355, 7-14=-1925/378,	250 (lb) or les 5=-2877/447, -10=-3423/506 3, 14-15=-303/ 7=-1442/181, , 7-12=-1442/1	ss except when 5-6=-4508/682 3162, 12-14=-4 5-15=-1925/37 81, 8-12=-31/9	a shown. 2, 6-7=-4508 426/4003, 1 1, 6-15=-32 148, 9-12=-3	/698, 0-12=-389/ 5/2355, 03/178	2934					
NOTES- 1) Unbalanced 2) Wind: ASCE Enclosed; M 8-1-8 to 13- 31-10-8, Intr and forces & 3) TCLL: ASCE Rough Cat (4) Unbalanced 5) This truss hi non-concurr 6) Provide ade 7) All plates ar 8) This truss hi 9) * This truss hi 9) * This truss hi 10) Provide me 2=256, 10 11) This truss i referenced 12) This truss i ganel poini 13) Graphical	d roof live loads E 7-16; Vult=11 /WFRS (envel 1-8, Interior(1) erior(1) 31-10- & MWFRS for I E 7-16; Pr=25. C; Fully Exp.; (d snow loads h as been desig rent with other equate drainag re MT20 plates as been desig has been desig been the bottom echanical conr =256. is designed in d standard ANS has been desi ts along the B¢ purlin represer	s have been considered 15mph (3-second gust) ope) gable end zone at 13-1-8 to 17-6-0, Exte 8 to 35-11-0 zone; can reactions shown; Lumb 0 psf (roof LL: Lum DC Ce=0.9; Cs=1.00; Ct=1 ave been considered for ned for greater of min r live loads. e to prevent water pon- unless otherwise indic ned for a 10.0 psf botto gned for a live load of 3 chord and any other m nection (by others) of tr accordance with the 20 SI/TPI 1. gned for a moving con- tation does not depict	d for this desig Vasd=91mph nd C-C Exterio rior(2E) 17-6-C tilever left and ber DOL=1.60 (DL=1.15 Plate I .10 or this design. oof live load o ding. .ated. om chord live Id 20.0psf on the nembers. uss to bearing D18 Internation centrated load t with live and the size or the	n. ; TCDL=6.0psf, r(2E) -0-11-0 ti) to 19-5-9, Inte right exposed plate grip DOL= DOL=1.15); Pf= f 12.0 psf or 2.0 pad nonconcurn bottom chord i plate capable nal Residential of 250.0lb live dead loads.	; BCDL=6.0 o 3-11-13, Ii rrior(1) 19-5 ; end vertica =1.60 =25.0 psf (Li 00 times flat rent with any n all areas v of withstanc Code sectio and 100.0lb the purlin al	psf; h=35ft; hterior(1) 3 -9 to 26-10 al left and ri um DOL=1 roof load of y other live vhere a reco ling 100 lb ns R502.1 o dead loca ong the top	Ke=0.96 -11-13 to -8, Exteri ght expo: 15 Plate of 25.0 ps loads. tangle 3- uplift at jo 1.1 and R ted at all and/or b	6; Cat. II; Exp C 8-1-8, Exterior lor(2R) 26-10-8 sed;C-C for me DOL=1.15); Is of on overhange 6-0 tall by 2-0- point(s) except (j 8802.10.2 and mid panels and bottom chord.	;; r(2R) s to embers =1.0; s 0 wide it=lb) d at all	and the second	STEVEN E. FOX NUMBER E-23873 SS/ONALE June 25,	
WARNING Design valid fo a truss system building design is always requ fabrication, sto Safety Inform	- Verify design par- or use only with Mi n. Before use, the l n. Bracing indicat- uired for stability ar orage, delivery, ere action available fr	ameters and READ NOTES O Tek® connectors. This desigs building designer must verify d is to prevent buckling of in d to prevent collapse with po- cection and bracing of trusses paction set late institute. 267	N THIS AND INCL n is based only up the applicability of dividual truss web possible personal in and truss systems 0 Crain Highwav.	UDED MITEK REF oon parameters sho design parameters and/or chord mem jury and property d s, see AN Suite 203 Waldorf.	ERENCE PAGE own, and is for a s and properly is bers only. Add amage. For ge SI/TPI1 Quality MD 20601	MII-7473 rev. an individual b ncorporate thi litional tempor meral guidance / Criteria, DS	5/19/2020 I uilding com s design int ary and per e regarding B-89 and B	BEFORE USE. aponent, not to the overall rmanent bracing the ICSI Building Com	nponent		16023 Swingley Ridge R Chesterfield, MO 63017	d



Plate Offsets (2	X,Y) [2:0-4-4	4,0-1-8], [8:0-4-8,0-1-8]								
LOADING (ps TCLL (roof) Snow (Pf) TCDL BCLL BCDL	f) 25.0 25.0 10.0 0.0 * 10.0	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr Code IRC2018/TPI:	2-0-0 1.15 1.15 NO 2014	CSI. TC 0.54 BC 0.97 WB 0.52 Matrix-SH	DEFL. Vert(LL) Vert(CT) Horz(CT)	in (loc) -0.20 10-12 -0.34 10-12 0.11 8	l/defl >999 >999 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 185 lb	GRIP 197/144 FT = 20%
LUMBER- TOP CHORD BOT CHORD WEBS	2x6 SPF No.2 2x6 SPF No.2 2x4 SPF No.3				BRACING- TOP CHORD BOT CHORD WEBS	Sheathed or 2-0-0 oc purli Rigid ceiling 1 Row at mid	3-9-2 oc p ins (4-2-11 directly ap lpt	ourlins, excep I max.): 4-6. plied or 10-0 5-14, 5-	ot)-0 oc bracing. -10	
REACTIONS.	(size) 8= Max Horz 2= Max Uplift 8= Max Grav 8=	Mechanical, 2=0-3-8 113(LC 16) -154(LC 17), 2=-183(LC 1 1901(LC 72), 2=1978(LC 1	6) 66)							
FORCES. (Ib TOP CHORD BOT CHORD	 Max. Comp., 2-3=-3570/4 7-8=-3485/4 2-15=-336/3 	/Max. Ten All forces 250 37, 3-4=-3024/409, 4-5=-2 27 085, 14-15=-336/3085, 12	0 (lb) or less except v 2624/401, 5-6=-2600 2-14=-271/3132, 10-	vhen shown. /393, 6-7=-299 2=-271/3132,	94/409, 9-10=-315/2985,					
WEBS	8-9=-315/29 3-15=0/419, 6-10=-49/90	85 3-14=-755/192, 4-14=-49/ 8, 7-10=-674/192, 7-9=-24	/912, 5-14=-858/169 4/418	, 5-12=0/462, \$	5-10=-882/171,					
NOTES- 1) Unbalanced 2) Wind: ASCE Enclosed; M to 17-10-6, I exposed; e grip DOL=1: 3) TCLL: ASCI Rough Cat (4) Unbalanced 5) This truss h non-concurr 6) Provide ade 7) This truss h non-concurr 6) Provide ade 7) This truss will fit betwee 9) Refer to girc 10) Provide ma 8=154, 2= 11) This truss referenced 12) This truss panel poin 13) Graphical	I roof live loads E 7-16; Vult=11f WFRS (envelo Interior(1) 17-10 nd vertical left a .60 E 7-16; Pr=25.0 C; Fully Exp.; Ca as been designerent with other li equate drainage as been designerent with other li echanical connect 183. is designed in a a standard ANSI has been designerent ta along the Bot purlin represent	have been considered for somph (3-second gust) Vas be) gable end zone and C l-6 to 24-2-8, Exterior(2R) nd right exposed;C-C for 1 psf (roof LL: Lum DOL=1. be-0.9; Cs=1.00; Ct=1.10 ve been considered for this ed for greater of min roof I ve loads. to prevent water ponding. ed for a 10.0 psf bottom clined for a 10.0 psf bottom clined for a live load of 20.0 hord and any other memb to truss connections. ection (by others) of truss 1 ccordance with the 2018 I /TPI 1. ned for a moving concentri tom Chord, concurrent with ation does not depict the s	this design. d=91mph; TCDL=6. -C Exterior(2E) -0-1 24-2-8 to 31-3-6, In members and forces .15 Plate DOL=1.15; is design. ive load of 12.0 psf of hord live load nonco psf on the bottom ch oers. to bearing plate capa International Resider rated load of 250.0lb th live and dead load size or the orientatio	Opsf; BCDL=6. 1-0 to 4-1-0, In rerior(1) 31-3-6 & MWFRS for ; Pf=25.0 psf (or 2.00 times fli- ncurrent with a ord in all areas able of withstar ntial Code sect live and 100.0 Is. n of the purlin a	Opsf; h=35ft; Ke=0.96 terior(1) 4-1-0 to 10-9 to 34-7-12 zone; can reactions shown; Lu Lum DOL=1.15 Plate at roof load of 25.0 ps ny other live loads. where a rectangle 3- nding 100 lb uplift at jo ions R502.11.1 and R lb dead located at all along the top and/or b	5; Cat. II; Exp C I-8, Exterior(2R) itilever left and mber DOL=1.60 DOL=1.15); Is= of on overhangs 6-0 tall by 2-0-0 pint(s) except (jil R802.10.2 and mid panels and pottom chord.	;) 10-9-8 right 0 plate =1.0; 5 0 wide t=lb) d at all		STEVEN E. FOX NOMBEA E-23873 S/ONALE June 25,2	SOUR 14 10 11 2021
WARNING Design valid fr a truss system building desig is always requ fabrication, sto Safety Inform	- Verify design parar or use only with MIT n. Before use, the bu n. Bracing indicated irred for stability and orage, delivery, erec lation available fro	neters and READ NOTES ON THI ek® connectors. This design is b ilding designer must verify the ag is to prevent buckling of individu to prevent collapse with possible tion and bracing of trusses and tr m Truss Plate Institute, 2670 Cra	IS AND INCLUDED MITEK ased only upon paramete pplicability of design parau lal truss web and/or chorc a personal injury and prop russ systems, see in Highway, Suite 203 Wa	REFERENCE PAC rs shown, and is fo neters and properl members only. A erty damage. For ANSI/TPI1 Qual Idorf, MD 20601	GE MII-7473 rev. 5/19/2020 1 r an individual building com y incorporate this design int dditional temporary and pei general guidance regarding ity Criteria, DSB-89 and B	BEFORE USE. uponent, not to the overall rmanent bracing the SCSI Building Com	ponent		16023 Swingley Ridge Ro Chesterfield, MO 63017	1



2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=0.96; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-11-0 to 4-1-0, Interior(1) 4-1-0 to 13-5-8, Exterior(2R) 13-5-8 to 20-6-6, Interior(1) 20-6-6 to 21-6-8, Exterior(2R) 21-6-8 to 28-7-6, Interior(1) 28-7-6 to 34-7-12 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

 TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10

4) Unbalanced snow loads have been considered for this design.

5) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 25.0 psf on overhangs non-concurrent with other live loads.

6) Provide adequate drainage to prevent water ponding.

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

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

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

10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=210, 9=181.

11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and Continuities on the continuity of the continuity of





Job	Truss	Truss Type	Qty	Ply	Juneau Townhomes - Osage
					146743633
P210273	A4	Hip	2	1	
					Job Reference (optional)
Premier Building Supply (Sp	ringhill, KS), Spring Hills,	KS - 66083,		8.510 s Ju	n 18 2021 MiTek Industries, Inc. Fri Jun 25 09:03:16 2021 Page 2
		ID:DUjzAB	0GCWoO	lpyMsoTzl	Lz3uah-0DRBpbjHdRBMnPN?0gwGjQBbwa0pIYQuU4R9pBz2nrP

12) This truss has been designed for a moving concentrated load of 250.0lb live and 100.0lb dead located at all mid panels and at all panel points along the Bottom Chord,

concurrent with live and dead loads.

13) 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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		8-1-12		16-1-8		18-10-8		26-7-12			34-8-8	
	1	8-1-12	1	7-11-12		2-9-0		7-9-4		1	8-0-12	
Plate Offsets ()	K,Y) [2:Edg	ge,0-3-2], [12:0-0-0,0-3-4	.]									
LOADING (psf	f)											
TCLL (roof)	25.0	SPACING-	2-0-0	CSI.		DEFL.		n (loc)	I/defi	L/d	PLATES	GRIP
Snow (Pf)	25.0	Plate Grip DOL	1.15	ТС	0.93	Vert(L	L) -0.3	5 16-18	>999	240	MT20	197/144
	10.0	Lumber DOL	1.15	BC	0.98	Vert(C	T) -0.5	9 16-18	>703	180		
RCU	0.0 *	Rep Stress Incr	NO	WB	0.39	Horz(C	CT) 0.1	2 12	n/a	n/a		
BCLL	10.0	Code IRC2018/T	PI2014	Matri	x-SH						Weight: 181 lb	FT = 20%
BCDL	10.0											
LUMBER-						BRACING-						
TOP CHORD	2x4 SP 1650	F 1.5E *Except*				TOP CHORE) She	eathed or	2-2-1 oc	purlins, excer	pt	
	6-7: 2x4 SPF	No.2. 1-4: 2x4 SP 2400	F 2.0E				2-0	-0 oc purl	ins (3-8-1	max.): 6-7.		
BOT CHORD	2x4 SP 2400	F 2.0E				BOT CHORE) Ria	id ceilina	directly a	pplied or 10-0	0-0 oc bracing.	
WEBS	2x4 SPE No	3				WEBS	1 R	ow at mic	Int	5-16 7	-16 8-15	
WEDGE	2/1 0/1 110/	-						on at me	·P·	0.10,1	,	
Left: 2v4 SPE N												
SLIDER	Right 2v4 SP	E No 2 3-0-2										
SLIDER	Night 2x4 Of	1 10.2 3-0-2										
REACTIONS	(size) 2-	-0-3-8 12-Mechanical										
REAGINGING.	(3120) 2- Max Horz 2-	$-158(1 \oplus 16)$										
	Max I Inlift 2	$-232(1 \oplus 16)$ 12 $-205(1 \oplus 16)$	C 17)									
	Max Opint 2-	-2268(1 - 41) 12-2107(
	Max Grav Z	=2200(LC 41), 12=2197(LC 41)									
	May Camp				ahauwa							
) - Max. Comp	410 2 E 2726/402 E 6	2726/275 6		5110WII.	770						
TOP CHORD	2-3=-4102/4	410, 3-5=-3736/402, 5-6	=-2730/375, 0-	=-2302/370	, 7-8=-2732/	311,						
DOTOUODD	8-10=-3645	/405, 10-12=-4017/415	1 - 10									
BOT CHORD	2-18=-424/	3533, 16-18=-259/2967,	15-16=-72/229	5, 13-15=-19	96/2934, 12-	13=-284/3428						
WEBS	3-18=-472/2	204, 5-18=-57/768, 5-16	=-962/249, 6-10	6=-74/832, 7	-16=-240/29	8,						
	7-15=-125/	961, 8-15=-943/245, 8-1	3=-54/711, 10-	3=-436/195								
NOTES-												
 Unbalanced 	roof live loads	have been considered f	or this design.									
Wind: ASCE	7-16; Vult=11	5mph (3-second gust) V	asd=91mph; T	CDL=6.0psf;	BCDL=6.0p	osf; h=35ft; Ke=	=0.96; Cat	. II; Exp C	;			
Enclosed; M	IWFRS (envelo	ope) gable end zone and	I C-C Exterior(2	E) -0-11-0 to	o 4-1-0, Inte	rior(1) 4-1-0 to	16-1-8, E	xterior(2E) 16-1-8			
to 18-10-8, E	Exterior(2R) 18	3-10-8 to 25-11-6, Interio	r(1) 25-11-6 to	34-8-8 zone	; cantilever l	eft and right ex	posed ; e	nd vertica	I left and			1.
right expose	d;C-C for men	nbers and forces & MWF	RS for reaction	s shown; Lu	mber DOL=	1.60 plate grip	DOL=1.60)			Nº OF MIS	011
3) TCLL: ASCE	7-16; Pr=25.	0 psf (roof LL: Lum DOL	=1.15 Plate DC	L=1.15); Pf=	25.0 psf (Lu	Im DOL=1.15 F	Plate DOL	=1.15); Is:	=1.0;		XE.	0
Rough Cat C	C; Fully Exp.; C	Ce=0.9; Cs=1.00; Ct=1.1	0							2	18	
4) Unbalanced	snow loads ha	ave been considered for	this design.							- 0	OTEVEN	. 2 -
5) This truss ha	as been desiar	ned for greater of min roo	of live load of 1	2.0 psf or 2.0	00 times flat	roof load of 25	.0 psf on d	overhands	5		SILVLIN	
non-concurr	ent with other	live loads.								- *	E. FOX	:*=
6) Provide ade	quate drainage	e to prevent water pondi	na.								$: \leq \mathcal{I}_{*}$	1:0 =
7) This truss ha	as been design	ned for a 10.0 psf bottom	chord live load	Inonconcur	ent with any	other live load	s			-	: SCAT	×:~-
8) * This truss I	has been desi	ned for a live load of 20	Onsf on the bo	ttom chord i	n all areas w	here a rectanc	ile 3-6-0 ta	all by 2-0-	0 wide	= 0	NUMBER	:
will fit betwee	en the bottom	chord and any other me	mbers with BC	DI = 10.0 m	f	noro a rootang		an by 2 0	o mao			:0:-
9) Refer to aird	ler(s) for truss	to truss connections	mbers, with be	DE = 10.0p3	···					-	A	:25
10) Provide me	chanical con	ection (by others) of true	e to bearing of	te canable	of withstand	ing 100 lb unlif	at ioint(c)	evcent (i	t-lb)		· · · · · · · · · · · · · · · · · · ·	G
2_222 42_	-205		s to bearing pl	ic capable		ing 100 ib upili	joint(5)	ovcehi ()	(-10)		1, SIGNALE	1.4
11) This truce i	-200. e designed in	accordance with the 201	8 International	Pesidential	Code section	ne R502 11 1 c	nd R802	10 2 and			UNAL	11.
referenced	standard ANC			Concillidi	0000 30010	13 11302.11.1 8	1011002.	10.2 anu			- anno	n
Continued on an		///////									June 25,2	2021
Continued on pa	age 2											
🗥 WARNING -	- Verify design para	ameters and READ NOTES ON	THIS AND INCLUD	ED MITEK REFI	ERENCE PAGE	MII-7473 rev. 5/19/	2020 BEFOR	E USE.				
Design valid fo	or use only with Mi	Tek® connectors. This design i	s based only upon	parameters sho	wn, and is for a	n individual buildin	g componen	t, not				

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

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16023 Swingley Ridge Rd Chesterfield, MO 63017

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Job	Truss	Truss Type	Qty	Ply	Juneau Townhomes - Osage	
					1467436	34
P210273	A5	Hip	2	1		
					Job Reference (optional)	
Premier Building Supply (Sp	ringhill, KS), Spring Hills,	KS - 66083,		8.510 s Ju	n 18 2021 MiTek Industries, Inc. Fri Jun 25 09:03:20 2021 Page 2	
		ID:DUjzAB0	GCWoOJ	oyMsoTzIL	z3uah-v?hiezmohghoG0hmFW?CuGMH0BJHhVPUPhPNyyz2nrL	

12) This truss has been designed for a moving concentrated load of 250.0lb live and 100.0lb dead located at all mid panels and at all panel points along the Bottom Chord,

concurrent with live and dead loads.

13) 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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Job	Truss	Truss Type	Qty	Ply	Juneau Townhomes - Osage
					146743635
P210273	A6	Common	2	1	
					Job Reference (optional)
Premier Building Supply (Sp	ringhill, KS), Spring Hills,	KS - 66083,		8.510 s Ju	in 18 2021 MiTek Industries, Inc. Fri Jun 25 09:03:21 2021 Page 2
		ID:DUjzAl	BOGCWoC)JpyMsoT	zILz3uah-NBF4sJnQSzpftAGypDWRQUuSlbfSQtVeeL8wUOz2nrK

12) This truss has been designed for a moving concentrated load of 250.0lb live and 100.0lb dead located at all mid panels and at all panel points along the Bottom Chord, concurrent with live and dead loads.





12) This truss has been designed for a moving concentrated load of 250.0lb live and 100.0lb dead located at all mid panels and at all Continued on page on page on the Bottom Chord, concurrent with live and dead loads.

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 system. See MSI/TP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

NITEK 16023 Swingley Ridge Rd Chesterfield, MO 63017

June 25.2021

Job	Truss	Truss Type	Qty	Ply	Juneau Townhomes - Osage
2010020					146743636
P210273	AZ	Roof Special	2	1	
					Job Reference (optional)
Premier Building Supply (Sp	ringhill, KS), Spring Hills,	KS - 66083,		8.510 s Ju	n 18 2021 MiTek Industries, Inc. Fri Jun 25 09:03:25 2021 Page 2
		ID:DUjz	AB0GCWo	OJpyMsoT:	zILz3uah-FyUbigqxVCJ5MnZk23bNbK38oC0SMe4DZz68d9z2nrG

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





- WEBS 3-18=0/458, 3-16=-912/200, 5-16=-32/856, 5-15=-1164/249, 6-15=-149/1453,
- 7-15=-1040/173, 7-14=-1369/253, 12-14=-337/2876, 7-12=-109/775, 9-12=-144/1657, 9-11=-2223/349

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

2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=0.96; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-11-0 to 4-1-0, Interior(1) 4-1-0 to 17-6-0, Exterior(2R) 17-6-0 to 22-6-0, Interior(1) 22-6-0 to 34-6-12 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

3) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10

4) Unbalanced snow loads have been considered for this design.

5) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 25.0 psf on overhangs non-concurrent with other live loads.

6) Provide adequate drainage to prevent water ponding.

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

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

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

10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 11=239, 2=241.

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

Continued on page 2





Job	Truss	Truss Type	Qty	Ply	Juneau Townhomes - Osage	
P210273	48	Roof Special	2	1	14	16743637
1210210	710		1		Job Reference (optional)	
Premier Building Supply (Sp	ringhill, KS), Spring Hills,	KS - 66083,		8.510 s Ju	n 18 2021 MiTek Industries, Inc. Fri Jun 25 09:03:27 2021 P	age 2
		ID:DU	JjzAB0GC\	VoOJpyMs	soTzILz3uah-CLcL6MsB1pZob5j69Udrgl8aP?ixqYkW0HbEi2z	z2nrE

12) This truss has been designed for a moving concentrated load of 250.0lb live and 100.0lb dead located at all mid panels and at all panel points along the Bottom Chord,

concurrent with live and dead loads.

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





	6	-2-0	11-10-0	17-6	-0 +	23-2-0	25-6-0	30	-6-1	34-8-8	
Plate Offsets ()	X,Y) [2:0-3	- <u></u> -4,Edge], [7:0-3-1,0-2	2-0], [14:0-2-12,0-5	-0], [16:0-3-8	6,0-4-4]	5-6-0	2-4-0		-0-1	4-2-1	
LOADING (ps TCLL (roof) Snow (Pf) TCDL BCLL	f) 25.0 25.0 10.0 0.0 *	SPACING- Plate Grip DO Lumber DOL Rep Stress In	2-0-0 IL 1.15 1.15 cr NO 8/TPI2014	CSI. TC BC WB Matrix	0.93 0.99 0.97	DEFL. Vert(LL) Vert(CT) Horz(CT)	in (loc) -0.28 18-20 -0.46 18-20 0.10 12	l/defl >999 >893 n/a	L/d 240 180 n/a	PLATES MT20	GRIP 197/144
BCDL	10.0		0/11/2014	Wath	-011					Weight. 201 lb	11 = 2078
LUMBER- TOP CHORD BOT CHORD	2x4 SPF No.: 1-4: 2x4 SP 1 2x6 SPF No.:	2 *Except* 1650F 1.5E 2 *Except*				BRACING- TOP CHORD BOT CHORD	Sheathed, ei 9-11. Rigid ceiling	xcept end directly ap	verticals, a	nd 2-0-0 oc purlins (3-1 ·0-0 oc bracing, Excep	1-4 max.): t:
	2-19: 2x6 SP	2400F 2.0E, 8-15: 2	x4 SPF No.3				6-0-0 oc brac	cing: 14-1	5.	7 47 0 40 40 40	
WEBS	2x4 SPF No.3	3				WEBS	1 Row at mid	lpt	5-17, 7	7-17, 9-13, 10-12	
REACTIONS.	(size) 12 Max Horz 2 Max Uplift 12 Max Grav 12	2=Mechanical, 2=0-3 =237(LC 13) 2=-228(LC 17), 2=-24 2=1898(LC 77), 2=19	-8 41(LC 16) 974(LC 71)								
FORCES. (Ib TOP CHORD BOT CHORD WEBS	 Max. Comp 2-3=-3576/ 8-9=-3589/ 2-20=-478/ 14-15=-82/ 3-20=0/464 7-17=-1011 9-13=-1847 	./Max. Ten All forc: 396, 3-5=-2858/392, 446, 9-10=-2068/264 3073, 18-20=-478/30 367, 13-14=-457/339 , 3-18=-859/192, 5-1 /205, 7-16=-891/189 /231, 10-13=-80/137	es 250 (lb) or less e 5-6=-2166/383, 6-7 73, 17-18=-390/24 5, 12-13=-282/206 8=-26/790, 5-17=-1 , 14-16=-314/2391 8, 10-12=-2662/31	except when '=-2161/364, 75, 16-17=-3 8 128/255, 6-' , 7-14=-209/2 9	shown. 7-8=-3501/4 36/2427, 15 17=-178/149 2027, 9-14=-	436, -16=-51/297, 2, 748/138,					
NOTES- 1) Unbalanced 2) Wind: ASCE Enclosed; M to 22-6-0, In and forces 8 3) TCLL: ASCE Rough Cat 0 4) Unbalanced 5) This truss ha 8) * This truss ha 8) * This truss ha 8) * This truss ha 9) Refer to gird 10) Provide me 12=228, 2= 11) This truss in referenced	roof live loads 7-16; Vult=11 IWFRS (envelt terior(1) 22-6-1 & MWFRS for r 7-16; Pr=25.1 C; Fully Exp.; C snow loads h as been design ent with other quate drainage as been design has been de	s have been consider 5mph (3-second gus ppe) gable end zone 0 to 34-6-12 zone; ca eactions shown; Lun 0 psf (roof LL: Lum D Ce=0.9; Cs=1.00; Ct= ave been considered ned for greater of mir live loads. a to prevent water po hed for a 10.0 psf bot gned for a live load o chord and any other to truss connections. section (by others) of accordance with the SI/TPI 1.	ed for this design. t) Vasd=91mph; Tr and C-C Exterior(2 antilever left and rig holer DOL=1.60 pla DOL=1.15 Plate DO 1.10 for this design. n roof live load of 12 onding. tom chord live load f 20.0psf on the bo members. truss to bearing pla 2018 International	CDL=6.0psf; E) -0-11-0 tc ht exposed ; te grip DOL= L=1.15); Pf= 2.0 psf or 2.0 nonconcurrent tom chord ir ate capable c Residential 0	BCDL=6.0p. 4-1-0, Inter end vertical 1.60 25.0 psf (Lui 0 times flat r ent with any all areas wh of withstandii Code section	sf; h=35ft; Ke=0.96 ior(1) 4-1-0 to 17-6 left and right expo m DOL=1.15 Plate roof load of 25.0 ps other live loads. here a rectangle 3- ng 100 lb uplift at jo is R502.11.1 and R	5; Cat. II; Exp C -0, Exterior(2R sed;C-C for me DOL=1.15); Is= of on overhangs -6-0 tall by 2-0-0 pint(s) except (ji 2802.10.2 and	;) 17-6-0 mbers =1.0; ;) wide t=lb)		STEVEN E. FOX NUMBER E-23873 SS/ONALE June 25,	

Continued on page 2



Job	Truss	Truss Type	Qty	Ply	Juneau Townhomes - Osage	
P210273	A 0	Poof Special	2	1	4	46743638
F210273	A9	Rooi Special	2		Job Reference (optional)	
Premier Building Supply (Sp	ringhill, KS), Spring Hills,	KS - 66083,		8.510 s Ju	n 18 2021 MiTek Industries, Inc. Fri Jun 25 09:03:35 2021 F	Page 2
		ID:DUj	zAB0GCW	oOJpyMs	oTzILz3uah-zt5No5yC9GagZKKfdAmj?RTrFEQdi81hsXXg_a	z2nr6

12) This truss has been designed for a moving concentrated load of 250.0lb live and 100.0lb dead located at all mid panels and at all panel points along the Bottom Chord,

concurrent with live and dead loads.

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





- Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- 4) Unbalanced snow loads have been considered for this design.
- 5) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 25.0 psf on overhangs non-concurrent with other live loads.
- 6) Provide adequate drainage to prevent water ponding.
- 7) All plates are MT20 plates unless otherwise indicated.
- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 10) Refer to girder(s) for truss to truss connections.

Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 11) 11=220, 2=241.

Continued on page 2

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STEVEN

E. FOX



Job	Truss	Truss Type	Qty	Ply	Juneau Townhomes - Osage		
P210272	A10	Poof Special	2	1	146743639		
F210273	Alo	Rooi Special	2		Job Reference (optional)		
Premier Building Supply (Springhill, KS), Spr		KS - 66083,	8.510 s Jun 18 2021 MiTek Industries, Inc. Fri Jun 25 09:01:54 2				
			ID:DUjzAB0GCWoOJpyMsoTzILz3uah-QSUBbZkrxEs?xo6ECSS2P7oblWyBXS8qeJZpxxz2nsh				

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

13) This truss has been designed for a moving concentrated load of 250.0lb live and 100.0lb dead located at all mid panels and at all panel points along the Bottom Chord,

concurrent with live and dead loads.

14) 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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Job	Truss	Truss Type	Qty	Ply	Juneau Townhomes - Osage
D210272	A11	Poof Special	2	1	146743640
P210273	ATT	Rooi Special	2	· ·	Job Reference (optional)
Premier Building Supply (Sp	ringhill, KS), Spring Hills,	KS - 66083,	8.510 s Jun 18 2021 MiTek Industries, Inc. Fri		n 18 2021 MiTek Industries, Inc. Fri Jun 25 09:02:00 2021 Page 2
	ID:DU	JjzAB0GC	NoOJpyM	soTzILz3uah-FcrSscocX4c8fjZOZjZSeO2cGx10xCAj0F088bz2nsb	

13) This truss has been designed for a moving concentrated load of 250.0lb live and 100.0lb dead located at all mid panels and at all panel points along the Bottom Chord,

concurrent with live and dead loads.

14) 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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MiTek

Job	Truss	Truss Type	Qty	Ply	Juneau Townhomes - Osage
5040070					146743641
P210273	A12	Common Supported Gable	2	1	
					Job Reference (optional)
Premier Building Supply (Springhill, KS), Spring F		KS - 66083,	8.510 s Jun 18 2021 MiTek Industries, Inc. Fri Jun 25 09:02:09 20		
			UjzAB0GC	WoOJpyN	soTzILz3uah-ULusIhvFPrktF6I7b6DZWIvMIZDqYP4148i6yZz2nsS

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

14) This truss has been designed for a moving concentrated load of 250.0lb live and 100.0lb dead located at all mid panels and at all panel points along the Bottom Chord, concurrent with live and dead loads.





Continued on page 2

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Job	Truss	Truss Type	Qty	Ply	Juneau Townhomes - Osage		
					146743642		
P210273	A13	Common Supported Gable	2	1			
					Job Reference (optional)		
Premier Building Supply (Springhill, KS), Spring Hills,		KS - 66083,	8.510 s Jun 18 2021 MiTek Industries, Inc. Fri Jun 25 09:02:21 2021				
			ID:DUjzAB0GCWoOJpyMsoTzILz3uah-7edOGo2naXFAhygQldRN?qPPkPLSMr2or0clOtz2nsG				

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

14) This truss has been designed for a moving concentrated load of 250.0lb live and 100.0lb dead located at all mid panels and at all panel points along the Bottom Chord, concurrent with live and dead loads.





	H	6-2-0 6-2-0	<u>11-10-0</u> 5-8-0		17-6-0 5-8-0		23-2-0			28-10-0 5-8-0			<u>35-0-0</u> 6-2-0	1
LOADING (psf TCLL (roof) Snow (Pf) TCDL BCLL BCDL) 25.0 25.0 10.0 0.0 * 10.0	SPACING- Plate Grip D Lumber DO Rep Stress Code IRC2	2-0-0 IOL 1.15 L 1.15 Incr NO 018/TPI2014	CSI TC BC WB Mat	0.93 0.62 0.73 rix-SH		DEFL. Vert(LL) Vert(CT) Horz(CT)	in -0.33 -0.52 0.07	(loc) 15-17 15-17 10	l/defl >999 >798 n/a	L/d 240 180 n/a		PLATES MT20 Weight: 196 lb	GRIP 197/144 FT = 20%
LUMBER- TOP CHORD BOT CHORD WEBS REACTIONS.	2x4 SPF No 1-4,8-11: 2x 2x6 SP 2400 14-16: 2x6 S 2x4 SPF No (size) 2 Max Horz 2 Max Horz 2 Max Uplift 2 Max Grav 2	.2 *Except* 4 SP 1650F 1.5E F 2.0E *Except* SPF No.2 .3 2=0-3-8, 10=0-3-8 =168(LC 16) 2=-243(LC 16), 10=- 2=1986(LC 46), 10=	243(LC 17) 1986(LC 52)			BR TO BO WE	RACING- DP CHORD DT CHORD EBS	Shea Rigid 1 Ro	thed. I ceiling w at mid	directly ap	oplied c 7	or 10-0-0 (-15, 5-15	oc bracing.	
FORCES. (Ib) TOP CHORD BOT CHORD WEBS	FORCES. (lb) - Max. Comp./Max. Ten All forces 250 (lb) or less except when shown. TOP CHORD 2-3=-3505/403, 3-5=-2909/397, 5-6=-2204/387, 6-7=-2204/387, 7-9=-2909/397, 9-10=-3505/403 BOT CHORD 2-18=-426/3012, 17-18=-426/3012, 15-17=-258/2520, 13-15=-170/2520, 12-13=-260/3012, 10-12=-260/3012 WEBS 6-15=-184/1542, 7-15=-1044/258, 7-13=-28/700, 9-13=-856/194, 9-12=-23/462, 5-15=-164/1542, 7-15=-28/700, 2-17, 955(102, 2-18, -22)(452)													
NOTES- 1) Unbalanced 2) Wind: ASCE Enclosed; M to 22-6-0, Int and forces & 3) TCLL: ASCE Rough Cat C 4) Unbalanced 5) This truss ha non-concurre 6) All plates are 7) This truss ha 8) * This truss ha 8) * This truss ha 8) * This truss ha 9) Provide mec 2=243, 10=2 10) This truss ha referenced 11) This truss ha panel point	 WEBS 6-15=-184/1542, 7-15=-1044/258, 7-13=-28/700, 9-13==656/194, 9-12=-23/462, 5-15=-1044/258, 5-17=-28/700, 3-17=-856/193, 3-18=-23/462 NOTES- Unbalanced roof live loads have been considered for this design. Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=0.96; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 10-11-0 to 41-10, therrior(1) 4-1-0 to 17-6-0, Exterior(2R) 17-6-0 to 22-6-0, Interior(1) 22-6-0 to 35-11-0 zone; cantilever left and right exposed; c-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60 TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15); Pf=25.0 psf (Lum DOL=1.15); Is=1.0; Rough Cat C; Fully Exp. Ce=0.9; Cs=1.00; CL=1.0 Unbalanced snow loads have been considered for this design. This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 25.0 psf on overhangs non-concurrent with other live loads. All plates are 3x4 MT20 unless otherwise indicated. This truss has been designed for a 10.0 psf bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit thetween the bottom chord and any other members. Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=243, 10=243. This truss has been designed for a moving concentrated load of 250.0 lb live and 100.0 lb dead located at all mid panels and at all panel points along the Bottom Chord, concurrent with live and dead loads. 													
WARNING - Design valid fo	Verify design pa r use only with N	rameters and READ NOT	ES ON THIS AND INCLUDI	ED MITEK REI	FERENCE PAGE	MII-74	473 rev. 5/19/2020 I vidual building com	BEFORE	USE. not					

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

16023 Swingley Ridge Rd Chesterfield, MO 63017



Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to 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

MiTek 16023 Swingley Ridge Rd Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Juneau Townhomes - Osage
					146743644
P210273	A15	Roof Special Girder	2	1	
					JOD Reference (optional)
Premier Building Supply (Springhill, KS). Spring Hills, KS - 6608		KS - 66083.		8.510 s Ju	n 18 2021 MiTek Industries, Inc. Fri Jun 25 09:02:41 2021 Page 2

ID:DUjzAB0GCWoOJpyMsoTzILz3uah-YVqyTdlKthnK40CGTqo3p2EdHT3m2jRIR7Sp4iz2nry

NOTES-

- 11) This truss has been designed for a moving concentrated load of 250.0lb live and 100.0lb dead located at all mid panels and at all panel points along the Bottom Chord, concurrent with live and dead loads.
- 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 13) Use Simpson Strong-Tie TJC37 (4 nail 90-150) or equivalent at 34-2-7 from the left end to connect truss(es) to front face of bottom chord, skewed 53.1 deg.to the right, sloping 0.0 deg. down.
- 14) Fill all nail holes where hanger is in contact with lumber.
- 15) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 48 lb down and 89 lb up at 34-2-7 on top chord. The design/selection of such connection device(s) is the responsibility of others.
- 16) 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 + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
- Vert: 1-6=-70, 6-9=-70, 9-10=-70, 10-11=-70, 11-12=-70, 2-13=-20 Concentrated Loads (lb)

Vert: 14=1(F)





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

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

Job	Truss	Truss Type	Qty	Ply	Juneau Townhomes - Osage		
P210273	A16	Roof Special	2	1	146743645		
					Job Reference (optional)		
Premier Building Supply (Sp	ringhill, KS), Spring Hills,	KS - 66083,		8.510 s Ju	n 18 2021 MiTek Industries, Inc. Fri Jun 25 09:02:47 2021 Page 2		
			ID:DUjzAB0GCWoOJpyMsoTzILz3uah-NeBEjhN5SXXUoxfQp4vT2JUeqt6ESRGdq3v7HMz2nrs				

11) This truss has been designed for a moving concentrated load of 250.0lb live and 100.0lb dead located at all mid panels and at all panel points along the Bottom Chord,

concurrent with live and dead loads.

12) 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



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

16023 Swingley Ridge Rd Chesterfield, MO 63017

MiTek

Job	Truss	Truss Type	Qty	Ply	Juneau Townhomes - Osage
D040070	440	Reaf Special			146743647
P210273	Alo	Rooi Special	2	1	Job Reference (optional)
Premier Building Supply (Springhill, KS), Sprir		KS - 66083,	8.510 s Jun 18 2021 MiTek Industries, Inc. Fri Jun 25 09:02:54 2021		
			DUjzAB00	CWoOJp	/MsoTzILz3uah-g?6tB4SUpgPU80imj2X6qnHtJiVlbcnfRf6?1Sz2nrl

12) This truss has been designed for a moving concentrated load of 250.0lb live and 100.0lb dead located at all mid panels and at all panel points along the Bottom Chord,

concurrent with live and dead loads.

13) 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

Job	Truss	Truss Type	Qty	Ply	Juneau Townhomes - Osage		
D010070					146743648		
P210273	A19	Roof Special	2	1			
					Job Reference (optional)		
Premier Building Supply (Springhill, KS), Spring		KS - 66083,	8.510 s Jun 18 2021 MiTek Industries, Inc. Fri Jun 25 09:02:58 2021 Pag				
		ID:DUjzAB0	ID:DUjzAB0GCWoOJpyMsoTzILz3uah-YmMO1RV?svwwde?Xyuc2?dRWSJo3XPkFLG4CADz2nrh				

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

12) This truss has been designed for a moving concentrated load of 250.0lb live and 100.0lb dead located at all mid panels and at all panel points along the Bottom Chord,

concurrent with live and dead loads.

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





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

16023 Swingley Ridge Rd Chesterfield, MO 63017

June 25.2021
Job	Truss	Truss Type	Qty	Ply	Juneau Townhomes - Osage			
					146743649			
P210273	A20	Hip	2	1				
					Job Reference (optional)			
Premier Building Supply (Sp	ringhill, KS), Spring Hills,	KS - 66083,		8.510 s Ju	in 18 2021 MiTek Industries, Inc. Fri Jun 25 09:03:04 2021 Page 2			
		ID:DU	lD:DUjzAB0GCWoOJpyMsoTzILz3uah-NwjfHValSlg3LZThJ9iSEuhYWkzux8Z7kCXXOtz2nrb					

NOTES-

12) This truss has been designed for a moving concentrated load of 250.0lb live and 100.0lb dead located at all mid panels and at all panel points along the Bottom Chord,

concurrent with live and dead loads.

13) 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

MiTek



Job	Truss	Truss Type	Qty	Ply	Juneau Townhomes - Osage		
D040070	100	Osmana Quananta d Oshla			146743652		
P210273	AZ3	Common Supported Gable	2	1	Job Reference (ontional)		
Premier Building Supply (Sp	ringhill, KS), Spring Hills,	KS - 66083,		8.510 s Ju	n 18 2021 MiTek Industries, Inc. Fri Jun 25 09:03:12 2021 Page 2		
0 117(1		ID:DU	ID:DUjzAB0GCWoOJpyMsoTzILz3uah-8SCgzEgnZCgxIn4EnqsKZa07syjfpvuJZSTygPz2nrT				

NOTES-

- 12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 24, 2, 35, 37, 38, 39, 40, 41, 42, 43, 44, 32, 31, 30, 29, 28, 27, 26 except (jt=lb) 25=132.
- 13) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 2.
- 14) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

15) This truss has been designed for a moving concentrated load of 250.0lb live and 100.0lb dead located at all mid panels and at all panel points along the Bottom Chord, concurrent with live and dead loads.









			⊢	<u>6-10</u> 6-10	I-O I-O		13-8-0 5-10-0		—		
Plate Offsets (X,	Y) [2:0-3	-5,0-1-5]									
LOADING (psf) TCLL (roof) Snow (Pf)	25.0 25.0	SPACING- Plate Grip DOL	2-0-0 1.15 1.15	CSI. TC BC	0.96	DEFL. Vert(LL) Vert(CT)	in -0.16 -0.26	(loc) 7-8 7-8	l/defl >999 >616	L/d 240 180	PLATES MT20

TCDL BCLL BCDL	10.0 0.0 * 10.0	Lumber DOL Rep Stress Incr Code IRC2018/TF	1.15 NO PI2014	BC WB Matrix	0.70 0.36 <-SH	Vert(CT) Horz(CT)	-0.26 0.01	7-8 7	>616 n/a	180 n/a	Weight: 72 lb	FT = 20%
LUMBER- TOP CHORD BOT CHORD WEBS SLIDER	2x4 SP 1650 1-5: 2x4 SPF 2x4 SP 2400 2x4 SPF No. Left 2x4 SPF	F 1.5E *Except* No.2 IF 2.0E 3 No.2 4-0-11				BRACING- TOP CHORD BOT CHORD WEBS	Sheat Rigid 1 Row	hed or ceiling / at mid	4-10-14 directly a lpt	oc purlins, e pplied or 10- 6-7, 4-	except end verticals. -0-0 oc bracing. -7	
REACTIONS.	(size) 7: Max Horz 2: Max Uplift 7: Max Grav 7:	=0-3-8, 2=0-3-8 =392(LC 13) =-193(LC 16), 2=-76(LC 1 =956(LC 40), 2=1025(LC	l6) 38)									

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. 2-4=-1021/146, 4-6=-263/216, 6-7=-335/190 TOP CHORD BOT CHORD 2-8=-306/722, 7-8=-306/722 WEBS 4-8=0/515. 4-7=-887/259

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=0.96; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-11-0 to 4-1-0, Interior(1) 4-1-0 to 13-6-4 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) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.
- 4) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 25.0 psf on overhangs non-concurrent with other live loads.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide 6) will fit between the bottom chord and any other members.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2 except (jt=lb) 7=193.
- 8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 9) This truss has been designed for a moving concentrated load of 250.0lb live and 100.0lb dead located at all mid panels and at all panel points along the Bottom Chord, concurrent with live and dead loads.



Scale = 1:58.8

GRIP

197/144



Job	Truss	Truss Type	Qty	Ply	Juneau Townhomes - Osa	ge 46743655
P210273	B3	MONOPITCH GIRDER	2	2	Job Reference (ontional)	
Premier Building Supply	(Springhill, KS), Spring Hills	s, KS - 66083,		8.510 s Ju	n 18 2021 MiTek Industries,	Inc. Fri Jun 25 09:03:53 2021 Page 1
		2-2-0 5-3-3 8-4-5	5 11-5-8 3-1-3	13-8-0		JSIOINSYJDDWIOGWWEWE I RUUCKZZNYY
		2-2-0 3-1-3 3-1-3	5 5-1-5	2-2-0		Scolo - 1:60 4
		T	8.00 12	5x8 💋	7	Scale = 1.00.4
			440	6 / 5	Ŧ	
			/	A		
		7x8 🖉 57	x5 1/			
		. 4	, A			
		약 5x10 🖉	¥ \\			
		3				
				Å K		
		$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	18 ¹¹ 1920	21		
		5x8 / ¹³ HUS28 HUS26 HI	US26 HUS28	3x4 ⁴	5x5 =	
		9x18 MT18HS ≔		Special		
		HUS26				
		$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	5 <u>11-5-8</u> 3 3-1-3	13-8-0		
Plate Offsets (X,Y)	2:0-9-12,0-2-10], [4:0-4-0,Edg	ej, [5:0-0-12,0-1-8], [7:0-2-9,0-2-8], [8:0-1	1-12,0-2-12], [10:0·	-2-4,0-6-0], [11:0-3-8,0-5-8], [12:0-6	-4,0-1-8]
TCLL (roof) 25.0	SPACING- Plate Grip DOL	2-0-0 CSI. 1.15 TC 0.92	DEFL. Vert(LL)	in (l -0.14 2	oc) I/defl L/d -12 >999 240	PLATES GRIP MT20 118/123
Snow (Pf) 25.0 TCDL 10.0	Lumber DOL Rep Stress Incr	1.15 BC 0.60	Vert(CT)	-0.22 2	-12 >725 180 8 n/a n/a	MT18HS 113/123
BCLL 0.0 BCDL 10.0	Code IRC2018/TF	Pl2014 Matrix-SH	11012(01)	0.15	0 11/4 11/4	Weight: 291 lb FT = 20%
LUMBER-			BRACING-	0		
TOP CHORD 2x6 SF 1-4: 1	F No.2 *Except* /2" x 9 1/4" 2.0E Microllam® L'	/L	TOP CHORD BOT CHORD	Sheathe Rigid ce	d or 6-0-0 oc purlins, exce iling directly applied or 10-	ept end verticals. 0-0 oc bracing, Except:
BOT CHORD 2x6 SF 2-13,6	2400F 2.0E *Except* 9: 2x8 SPF No.2, 2-10: 2x8 SP	2400F 2.0E	WEBS	6-0-0 oc 1 Row a	bracing: 9-10. t midpt 7-8	
WEBS 2x4 SF	F No.2				·	
REACTIONS. (size) 8=0-3-8, 1=0-3-8					
Max U	blift 8=-911(LC 16), 1=-728(LC	16)				
Max G	av 8=5884(LC 45), 1=6681(L0	5 22)				
FORCES. (lb) - Max. TOP CHORD 1-2=	Comp./Max. Ten All forces 2 4306/454, 2-3=-9849/1111, 3-5	50 (lb) or less except when shown. =-5475/614, 5-6=-1750/158, 6-7=-1171/	152,			
7-8=- BOT CHORD 2-13:	4710/743 -311/2418. 2-12=-1356/9116. ⁻	11-12=-1370/9225. 10-11=-687/4491. 6-1	10=-179/460.			
8-9=- WERS 2.12	280/1746 464/4221 2 11- 5054/850 5	11_ 222/61/11 5 10_ 52/1/215 2 10_ 2	0000/225			
7-10:	-783/5120	11=-022/0141, 5-10=-3544/015, 6-10=-2	.029/323,			
NOTES-						
 2-ply truss to be cor Top chords connect 	nected together with 10d (0.13 ed as follows: 1 1/2" x 9 1/4" - 2	1"x3") nails as follows: rows staggered at 0-9-0 oc, 2x6 - 2 rows	s staggered at 0-9-	-0 oc, 2x4	- 1 row at	
0-9-0 oc. Bottom chords conr	ected as follows: 2x6 - 2 rows s	taggered at 0-9-0 oc, 2x8 - 4 rows stagg	ered at 0-2-0 oc.			
Webs connected as 2) All loads are consid	follows: 2x4 - 1 row at 0-9-0 oc	except if noted as front (E) or back (B) fa	ace in the LOAD C		ection Ply to	OF MISSIN
ply connections hav	been provided to distribute or	ly loads noted as (F) or (B), unless other	wise indicated.			TE.
Enclosed; MWFRS	envelope) gable end zone and	C-C Exterior(2E) 0-1-12 to 5-2-6, Interior	r(1) 5-2-6 to 13-6-4	zone; ca	intilever left	STEVEN P
exposed ; end vertic DOL=1.60	al left exposed;C-C for membe	s and forces & MWERS for reactions sho	own; Lumber DOL:	=1.60 plai	te grip	E.FOX *=
4) TCLL: ASCE 7-16; I Rough Cat C; Fully	r=25.0 psf (roof LL: Lum DOL= Exp.; Ce=0.9; Cs=1.00; Ct=1.10	1.15 Plate DOL=1.15); Pf=25.0 psf (Lum)	n DOL=1.15 Plate I	DOL=1.15	5); ls=1.0;	Stabert -
5) Unbalanced snow lo	ads have been considered for t	his design. ad			= 7	E-23873
7) This truss has been	designed for a 10.0 psf bottom	chord live load nonconcurrent with any o	other live loads.		2.0.0 wide	
will fit between the k	ottom chord and any other mer	nbers.			2-0-0 wide	SONAL ENIN
9) Provide mechanical 8=911, 1=728.	connection (by others) of truss	to bearing plate capable of withstanding	100 ID uplift at join	t(s) excep	ot (jt=ID)	June 25 2021
Continued on page 2						54.10 20,2021
Design valid for use only	ign parameters and READ NOTES ON 1	HIS AND INCLUDED MITEK REFERENCE PAGE M	II-7473 rev. 5/19/2020 B	EFORE USE	E.	

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

Job	Truss	Truss Type	Qty	Ply	Juneau Townhomes - Osage
					146743655
P210273	B3	MONOPITCH GIRDER	2	2	
					Job Reference (optional)
Premier Building Supply (Sp	pringhill, KS), Spring Hills,	KS - 66083,		8.510 s Ju	n 18 2021 MiTek Industries, Inc. Fri Jun 25 09:03:53 2021 Page 2

ID:DUjzAB0GCWoOJpyMsoTzILz3uah-RLAAaFAVvor6j5i6hx5yjDDwlUgwwLwL?KudcXz2nqq

NOTES-

- 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 11) This truss has been designed for a moving concentrated load of 250.0lb live and 100.0lb dead located at all mid panels and at all panel points along the Bottom Chord, concurrent with live and dead loads.
- Use Simpson Strong-Tie HUS26 (14-10d Girder, 6-10d Truss, Single Ply Girder) or equivalent spaced at 6-0-0 oc max. starting at 1-6-12 from the left end to 7-6-12 to connect truss(es) to back face of bottom chord.
- 13) Use Simpson Strong-Tie HUS28 (22-10d Girder, 4-10d Truss) or equivalent at 3-6-12 from the left end to connect truss(es) to back face of bottom chord.
- 14) Use Simpson Strong-Tie HUS26 (14-10d Girder, 6-10d Truss) or equivalent at 5-6-12 from the left end to connect truss(es) to back face of bottom chord.
- 15) Use Simpson Strong-Tie HUS28 (22-10d Girder, 4-10d Truss, Single Ply Girder) or equivalent at 9-6-12 from the left end to connect truss(es) to back face of bottom chord.
- 16) Fill all nail holes where hanger is in contact with lumber.
- 17) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1718 lb down and 235 lb up at 11-9-2 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

- 1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
 - Uniform Loads (plf) Vert: 1-2=-70, 2-7=-70, 1-13=-20, 2-10=-20, 8-9=-20

Concentrated Loads (lb)

Vert: 12=-2298(B) 10=-1618(B) 15=-1942(B) 16=-1967(B) 18=-1618(B) 19=-1618(B)





16023 Swingley Ridge Rd Chesterfield, MO 63017

MiTek

Job	Truss	Truss Type	Qty	Ply	Juneau Townhomes - Osage		
P210273	R/	Manapitch Supported Gable	1	1	146743656		
F 210273	D4		'	'	Job Reference (optional)		
Premier Building Supply (Sp	ringhill, KS), Spring Hills,	KS - 66083,		8.510 s Ju	n 18 2021 MiTek Industries, Inc. Fri Jun 25 09:03:59 2021 Page 2		
		ID:DUjzAB0	ID:DUjzAB0GCWoOJpyMsoTzILz3uah-GVYSqIEFVebGR0AG1CCMzUTx9vq6K85ENGLxpBz2nqk				

NOTES-

13) This truss has been designed for a moving concentrated load of 250.0lb live and 100.0lb dead located at all mid panels and at all panel points along the Bottom Chord, concurrent with live and dead loads.





Job	Truss	Truss Type	Qty	Ply	Juneau Townhomes - Osage		
D040070		Common Otherstand Coble			146743657		
P210273	C1	Common Structural Gable	2	1 1	Ich Reference (antional)		
					Job Reference (optional)		
Premier Building Supply (Sp	ringhill, KS), Spring Hills,	KS - 66083,		8.510 s Ju	n 18 2021 MiTek Industries, Inc. Fri Jun 25 09:04:12 2021 Page 2		
		ID:DUjzAB	ID:DUjzAB0GCWoOJpyMsoTzILz3uah-N?qMZlOPReEQV?fmlRxP?EVFV89msuj8Mn?7nxz2nqX				

NOTES-

- 12) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 13) This truss has been designed for a moving concentrated load of 250.0lb live and 100.0lb dead located at all mid panels and at all panel points along the Bottom Chord, concurrent with live and dead loads.





Job	Truss	Truss Type	Qty	Ply	Juneau Townhomes - Osage
2010020					146743658
P210273	62	ROOF SPECIAL GIRDER	2	3	Job Reference (optional)
Premier Building Supply (St	pringhill, KS). Spring Hills.	KS - 66083.		8.510 s Ju	n 18 2021 MiTek Industries, Inc. Fri Jun 25 09:05:00 2021 Page 2

ID:DUjzAB0GCWoOJpyMsoTzILz3uah-zEkVe9_W8OHcFOK_6WofxMVObVTP6ftCPFdfS9z2npn

NOTES-

- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=1164, 9=1075.
- 11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 12) This truss has been designed for a moving concentrated load of 250.0lb live and 100.0lb dead located at all mid panels and at all panel points along the Bottom Chord, concurrent with live and dead loads.
- 13) Use Simpson Strong-Tie HUS26 (14-10d Girder, 6-10d Truss) or equivalent spaced at 12-1-8 oc max. starting at 1-11-12 from the left end to 18-1-4 to connect truss(es) to back face of bottom chord.
- 14) Use Simpson Strong-Tie HUS28 (22-10d Girder, 4-10d Truss, Single Ply Girder) or equivalent spaced at 6-0-0 oc max. starting at 4-1-4 from the left end to 10-1-4 to connect truss(es) to back face of bottom chord.
- 15) Use Simpson Strong-Tie HUS26 (14-10d Girder, 6-10d Truss, Single Ply Girder) or equivalent spaced at 6-0-0 oc max. starting at 6-1-4 from the left end to 12-1-4 to connect truss(es) to back face of bottom chord.
- 16) Use Simpson Strong-Tie HUS26 (14-10d Girder, 4-10d Truss) or equivalent at 8-1-4 from the left end to connect truss(es) to back face of bottom chord.
- 17) Fill all nail holes where hanger is in contact with lumber.

LOAD CASE(S) Standard

- 1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
 - Vert: 1-2=-70, 2-5=-70, 5-8=-70, 1-16=-20, 2-12=-20, 9-11=-20

Concentrated Loads (lb)

Vert: 16=-1782(B) 14=-1682(B) 20=-1594(B) 21=-1528(B) 24=-1828(B) 26=-1531(B) 28=-2177(B) 29=-2036(B) 31=-1810(B)





TCLL (roof) Snow (Pf) TCDL BCLL BCDL	25.0 25.0 10.0 0.0 * 10.0	Plate Grip DOL Lumber DOL Rep Stress Incr Code IRC2018/TPI20	1.15 1.15 NO 014	TC BC WB Matri	0.31 0.09 0.00 x-P	Vert(LL) Vert(CT) Horz(CT)	-0.00 -0.00 -0.00	(IOC) 2 2 3	>999 >999 n/a	240 180 n/a	Weight: 6 lb	197/144 FT = 20%	
						5540W/0							

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LUMBER-
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TOP CHORD 2x4 SPF No.2 BOT CHORD 2x6 SPF No.2 BRACING-TOP CHORD BOT CHORD

Sheathed or 1-2-13 oc purlins. Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 3=Mechanical, 2=0-4-13, 4=Mechanical Max Horz 2=45(LC 16)

Max Uplift 3=-113(LC 22), 2=-92(LC 12)

Max Grav 3=17(LC 12), 2=586(LC 37), 4=362(LC 38)

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

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=0.96; 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) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.
- 4) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 25.0 psf on overhangs non-concurrent with other live loads.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2 except (jt=lb) 3=113.
- 9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 10) This truss has been designed for a moving concentrated load of 250.0lb live and 100.0lb dead located at all mid panels and at all panel points along the Bottom Chord, concurrent with live and dead loads.







Left: 2x4 SPF No.2

REACTIONS. (size) 3=Mechanical, 4=Mechanical, 2=0-5-13

Max Horz 2=45(LC 16)

Max Uplift 3=-28(LC 22), 2=-54(LC 12)

Max Grav 3=44(LC 23), 4=366(LC 38), 2=527(LC 37)

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

NOTES-

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=0.96; 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) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.
- 4) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 25.0 psf on overhangs non-concurrent with other live loads.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Refer to girder(s) for truss to truss connections.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 2.
- 9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 10) This truss has been designed for a moving concentrated load of 250.0lb live and 100.0lb dead located at all mid panels and at all panel points along the Bottom Chord, concurrent with live and dead loads.







LUMBER-

TOP CHORD 2x4 SPF No.2 2x4 SPF No.2 BOT CHORD WEBS 2x4 SPF No.3 TOP CHORD BOT CHORD

Sheathed or 2-10-11 oc purlins, except end verticals. Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 5=0-4-13, 3=Mechanical, 4=Mechanical Max Horz 5=78(LC 13) Max Uplift 5=-59(LC 12), 3=-50(LC 16), 4=-3(LC 13) Max Grav 5=624(LC 37), 3=92(LC 23), 4=371(LC 38)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-5=-362/236

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=0.96; 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) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.
- 4) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 25.0 psf on overhangs non-concurrent with other live loads.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Refer to girder(s) for truss to truss connections.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 3, 4.
- 9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and
- referenced standard ANSI/TPI 1.
- 10) This truss has been designed for a moving concentrated load of 250.0lb live and 100.0lb dead located at all mid panels and at all panel points along the Bottom Chord, concurrent with live and dead loads.







NITEK* 16023 Swingley Ridge Rd Chesterfield, MO 63017



LOADING (psf) TCLL (roof) 25 Snow (Pf) 25 TCDL 10 DOLL 20	5.0 5.0 0.0	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr	2-0-0 1.15 1.15 NO	CSI. TC BC WB	0.81 0.92 0.00	DEFL. Vert(LL) Vert(CT) Horz(CT)	in -0.25 -0.44 -0.00	(loc) 2-4 2-4 3	l/defl >317 >183 n/a	L/d 240 180 n/a	PLATES MT20	GRIP 197/144
BCDL 0	0.0 ^ 0.0	Code IRC2018/TF	912014	Matri	x-P						Weight: 26 lb	FT = 20%
LUMBER-						BRACING-						

TOP CHORD

BOT CHORD

Sheathed or 6-0-0 oc purlins, except end verticals.

Rigid ceiling directly applied or 8-1-8 oc bracing.

LUMBER-

TOP CHORD 2x4 SP 2400F 2.0E 2x4 SP 2400F 2.0E BOT CHORD WEBS 2x4 SPF No 3

REACTIONS. (size) 3=Mechanical, 2=0-3-8 Max Horz 2=117(LC 13) Max Uplift 3=-69(LC 16), 2=-103(LC 12) Max Grav 3=646(LC 38), 2=732(LC 37)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 3-4=0/417

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=0.96; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-11-0 to 4-1-0, Interior(1) 4-1-0 to 6-10-4 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) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.
- 4) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 25.0 psf on overhangs non-concurrent with other live loads.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide 6) will fit between the bottom chord and any other members.
- 7) Refer to girder(s) for truss to truss connections
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3 except (jt=lb) 2=103.
- 9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 10) This truss has been designed for a moving concentrated load of 250.0lb live and 100.0lb dead located at all mid panels and at all panel points along the Bottom Chord, concurrent with live and dead loads.
- 11) Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.







LOADING (psf) TCLL (roof) 25.0 Snow (Pf) 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 0.64 BC 0.85 WB 0.00 Matrix-P	DEFL. Vert(LL) - Vert(CT) - Horz(CT) -	in (loc) -0.12 2-4 -0.19 2-4 -0.00 3	l/defl L/d >483 240 >295 180 n/a n/a	PLATES MT20 Weight: 16 lb	GRIP 197/144 FT = 20%
LUMBER-		·	BRACING-			·	

TOP CHORD

BOT CHORD

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

LUMBER-

TOP CHORD 2x4 SPF No.2 BOT CHORD 2x4 SP 1650F 1.5E WEBS 2x4 SPF No.3

REACTIONS. (size) 3=Mechanical, 2=0-3-8 Max Horz 2=86(LC 13) Max Uplift 3=-48(LC 16), 2=-88(LC 12) Max Grav 3=553(LC 38), 2=645(LC 37)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 3-4=0/397

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=0.96; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-11-0 to 4-1-0, Interior(1) 4-1-0 to 4-10-4 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) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.
- 4) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 25.0 psf on overhangs non-concurrent with other live loads.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide 6) will fit between the bottom chord and any other members.
- 7) Refer to girder(s) for truss to truss connections.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 2.
- 9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 10) This truss has been designed for a moving concentrated load of 250.0lb live and 100.0lb dead located at all mid panels and at all panel points along the Bottom Chord, concurrent with live and dead loads.
- 11) Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.







Mitek° 16023 Swingley Ridge Rd Chesterfield, MO 63017



- 7) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 8) Gable studs spaced at 2-0-0 oc.
- 9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 10) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 9, 6, 7 except (jt=lb) 8=158.
- 12) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 13) This truss has been designed for a moving concentrated load of 250.0lb live and 100.0lb dead located at all mid panels and at all panel points along the Bottom Chord, concurrent with live and dead loads.







			5-0-0					
LOADING (psf) TCLL (roof) 25.0 Snow (Pf) 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 0.64 BC 0.85 WB 0.08 Matrix-P	DEFL. Vert(LL) -(Vert(CT) -(Horz(CT) -(in (loc) -0.12 4-5 -0.19 4-5 -0.00 4	l/defl >484 >296 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 24 lb	GRIP 197/144 FT = 20%

BRACING-

TOP CHORD

BOT CHORD

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

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LUMBER-
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 TOP CHORD
 2x4 SPF No.2

 BOT CHORD
 2x4 SP 1650F 1.5E

 WEBS
 2x4 SPF No.3

REACTIONS. (size) 4=Mechanical, 5=0-3-8 Max Horz 5=130(LC 13) Max Uplift 4=-52(LC 16), 5=-84(LC 12)

Max Opint 4=-52(LC - 16), 5=-64(LC - 12)Max Grav 4=553(LC - 38), 5=-645(LC - 37)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-5=-365/273

BOT CHORD 4-5=-277/168

NOTES-

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=0.96; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-11-0 to 4-1-0, Interior(1) 4-1-0 to 4-10-4 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) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.
- 4) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 25.0 psf on overhangs non-concurrent with other live loads.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 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. 10) This truss has been designed for a moving concentrated load of 250 OF
- 10) This truss has been designed for a moving concentrated load of 250.0lb live and 100.0lb dead located at all mid panels and at all panel points along the Bottom Chord, concurrent with live and dead loads.











June 25,202



Job	Truss	Truss Type	Qty	Ply	Juneau Townhomes - Osag	e 146743671
P210273	HG2	GABLE	4	1		140140011
Premier Building Supply (Sp	ringhill, KS), Spring Hills,	KS - 66083,		3.510 s Ju	n 18 2021 MiTek Industries, li	nc. Fri Jun 25 09:07:33 2021 Page 1
		11-1	ID:DUjzAB0GCWo0	DJpyMsoT	zlLz3uah-?gTLlTqU6PZv6uX	OZ81XedKfkAqMTz1jbZBGKnz2nnO
		11-1	10-6			
				3x4		Scale = 1:62.0
		I			I	
			6			
		10.82 12	5		-5-0	
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		ې دو 4 /	15			
		10	f			
		3		8		
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		2		9 3x4	r	
			21			
			~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	10.8	32 12	
		16 14 17 13 18 13	2 19 11 10 ²⁰ 3x4 //			
		3.4 1/	3,4 7			
		7-1-7	4-8-15	6 5		
LOADING (psf)	SPACING.	2-0-0 <b>CSI</b>	DEEL	in (l	loc) I/defl I/d	PLATES GRIP
TCLL (roof) 25.0 Snow (Pf) 25.0	Plate Grip DOL	1.15 TC 0.38	Vert(LL)	n/a	- n/a 999	MT20 197/144
TCDL 10.0	Rep Stress Incr	1.15 BC 0.29 NO WB 0.20	Vert(CT) Horz(CT)	n/a -0.00	- n/a 999 8 n/a n/a	
BCDL 10.0	Code IRC2018/TPI	2014 Matrix-SH				Weight: 64 lb FT = 20%
			BRACING-	Shootha	d or 6.0.0 op purling _over	at and varticala
BOT CHORD 2x4 SPF N	0.2		BOT CHORD	Rigid ce	iling directly applied or 6-0-0	0 oc bracing.
WEBS 2x4 SPF N OTHERS 2x4 SPF N	o.3 o.3					
REACTIONS. All bearing	nas 11-10-6					
(lb) - Max Horz	1=349(LC 13)	int/a) avaant 1 - 121/L C 14) 8 - 147/L C	2 15) 11- 110/1 0	40) 0 1	07/1 C	
	16), 10=-102(LC 16), 12=-10	07(LC 16), 13=-106(LC 16), 14=-102(LC	C 16)	40), 9=-1	07(20	
Max Grav	All reactions 250 lb or less 48), 10=522(LC 47), 12=526	at joint(s) except 1=399(LC 42), 8=419 6(LC 45), 13=533(LC 44), 14=524(LC 43	(LC 49), 11=359(L0 3)	C 46), 9=	540(LC	
FORCES. (lb) - Max Cor	nn /Max Ten - All forces 250	) (lb) or less except when shown				
TOP CHORD 1-2=-672	/476, 2-3=-579/418, 3-4=-47	0/349, 4-5=-362/282, 5-6=-260/221				
WEBS 0-9=-207	/1/2					
NOTES- 1) Wind: ASCE 7-16; Vult=	115mph (3-second gust) Vas	sd=91mph; TCDL=6.0psf; BCDL=6.0psf	f; h=35ft; Ke=0.96;	Cat. II; E	xp C;	
Enclosed; MWFRS (env	elope) gable end zone and C	C-C Exterior(2E) 0-4-9 to 5-4-9, Interior(	1) 5-4-9 to 11-8-10	zone; ca	ntilever left	
DOL=1.60 plate grip DC	DL=1.60	45 Diete DOI - 4.45\; Df - 25.0 mef /l				
Rough Cat C; Fully Exp.	; Ce=0.9; Cs=1.00; Ct=1.10	.15 Plate DOL=1.15), PI=25.0 pSI (Luit	I DOL=1.15 Plate L	JOL=1.13	<i>b)</i> , is=1.0,	
<ol> <li>Unbalanced snow loads</li> <li>All plates are 1.5x4 MT2</li> </ol>	have been considered for th 0 unless otherwise indicated	is design. I.				
<ul><li>5) Gable requires continuo</li><li>6) This truss has been des</li></ul>	us bottom chord bearing.	bord live load nonconcurrent with any o	other live loads			NOF MISSIL
<ul> <li>7) * This truss has been de will fit between the better</li> </ul>	esigned for a live load of 20.0	psf on the bottom chord in all areas who	ere a rectangle 3-6	i-0 tall by	2-0-0 wide	XE.
8) Provide mechanical con	nection (by others) of truss to	bearing plate capable of withstanding	131 lb uplift at join	t 1, 147 ll	o uplift at	STEVEN
joint 8, 119 lb uplift at jo uplift at joint 14.	int 11, 107 lb uplift at joint 9,	102 lb uplift at joint 10, 107 lb uplift at jo	oint 12, 106 lb uplifi	t at joint 1	3 and 102 lb	E.FOX
<ol> <li>Beveled plate or shim re</li> <li>This truss is designed</li> </ol>	equired to provide full bearing in accordance with the 2018	surface with truss chord at joint(s) 8, 9 International Residential Code sections	), 10. s R502 11 1 and R8	302 10 2	and	Cost -
referenced standard A	NSI/TPI 1.	roted load of 250 0th live and 400 0th d				E-23873
panel points along the	Bottom Chord, concurrent wi	th live and dead loads.	eau iucaleu al all fi	nu panel	sanuatan	
						SONAL ENGIN
						(ATTAL)
						June 25,2021





#### Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083







WEBS

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

OTHERS 2x4 SPF No.3

REACTIONS. All bearings 14-0-15.

Max Horz 16=-296(LC 14) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 16, 13, 12, 11, 10, 9 except 8=-113(LC 13), 14=-233(LC 14), 15=-119(LC 13)

Max Grav All reactions 250 lb or less at joint(s) except 16=420(LC 44), 8=409(LC 52), 14=357(LC 46), 15=559(LC 36), 13=528(LC 47), 12=531(LC 48), 11=530(LC 49), 10=529(LC 50), 9=536(LC 51)

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

13-14=-270/255, 12-13=-267/250, 11-12=-267/250, 10-11=-267/250, 9-10=-268/250, BOT CHORD 8-9=-265/242

#### NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=0.96; 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) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- 3) Provide adequate drainage to prevent water ponding.
- All plates are 1.5x4 MT20 unless otherwise indicated.
- 5) Gable requires continuous bottom chord bearing.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

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

- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 16, 13, 12, 11, 10, 9 except (jt=lb) 8=113, 14=233, 15=119.
- 9) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 8, 13, 12, 11, 10, 9.
- 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 11) This truss has been designed for a moving concentrated load of 250.0lb live and 100.0lb dead located at all mid panels and at all panel points along the Bottom Chord, concurrent with live and dead loads.
- 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



Scale = 1:65.2



10-0-0 oc bracing: 15-16,14-15.

1 Row at midpt

1-16, 2-15, 3-13



	, o i oj, [2.0 i 0,0 0 0]							
LOADING         (psf)           TCLL (roof)         25.0           Snow (Pf)         25.0           TCDL         10.0           BCLL         0.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr NO	<b>CSI.</b> TC 0.11 BC 0.24 WB 0.00	<b>DEFL.</b> Vert(LL) - Vert(CT) - Horz(CT) -	in (loc) -0.00 2-4 -0.00 2-4 -0.00 3	l/defl >999 >999 n/a	L/d 240 180 n/a	PLATES MT20	<b>GRIP</b> 197/144
BCDL 10.0	Code IRC2018/TPI2014	Matrix-P					Weight: 5 lb	FT = 20%
LUMBER-			BRACING-					

TOP CHORD

BOT CHORD

Sheathed or 1-5-4 oc purlins.

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

# LUMBER-

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

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

Max Horz 2=48(LC 16)

Max Uplift 3=-26(LC 16), 2=-31(LC 16) Max Grav 3=37(LC 23), 2=501(LC 37), 4=364(LC 38)

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

# NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=0.96; 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) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.
- 4) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 25.0 psf on overhangs non-concurrent with other live loads.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide 6) will fit between the bottom chord and any other members.
- 7) Refer to girder(s) for truss to truss connections.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 2.
- 9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 10) This truss has been designed for a moving concentrated load of 250.0lb live and 100.0lb dead located at all mid panels and at all panel points along the Bottom Chord, concurrent with live and dead loads.







Job	Truss	Truss Type	Qty	Ply	Juneau Townhomes - Osage
P210273	JA2	Half Hip Girder	4	1	146743674
					Job Reference (optional)

Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083,

8.510 s Jun 18 2021 MiTek Industries, Inc. Fri Jun 25 09:07:57 2021 Page 2 ID:DUjzAB0GCWoOJpyMsoTzILz3uah-IHwQnh7YSmbV_aM?zBTAchKnvr2a4rHG6I?XBOz2nn0

# LOAD CASE(S) Standard

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

Concentrated Loads (lb) Vert: 3=34(B)





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



LOADING (psf) TCLL (roof) Snow (Pf) TCDL	25.0 25.0 10.0	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr	2-0-0 1.15 1.15 NO	CSI. TC BC WB	0.33 0.68 0.00	DEI Ver Ver Hor	<b>"L.</b> (LL) - (CT) - z(CT)	in -0.05 -0.08 0.02	(loc) 4-5 4-5 3	l/defl >886 >567 n/a	L/d 240 180 n/a	PLATES MT20	<b>GRIP</b> 197/144
BCLL BCDL	0.0 * 10.0	Code IRC2018/TPI	2014	Matri	k-R		-()		-			Weight: 12 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

Sheathed or 3-10-0 oc purlins, except end verticals.

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

# LUMBER-

TOP CHORD2x4 SPF No.2BOT CHORD2x4 SPF No.2WEBS2x4 SPF No.3

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

Max Horz 5=124(LC 16)

Max Uplift 5=-19(LC 16), 3=-80(LC 16)

Max Grav 5=610(LC 37), 3=178(LC 23), 4=391(LC 38)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-5=-382/140

# NOTES-

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=0.96; 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) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10

3) Unbalanced snow loads have been considered for this design.

- 4) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 25.0 psf on overhangs non-concurrent with other live loads.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Refer to girder(s) for truss to truss connections.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 3.
- 9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 10) This truss has been designed for a moving concentrated load of 250.0lb live and 100.0lb dead located at all mid panels and at all panel points along the Bottom Chord, concurrent with live and dead loads.









June 25,2021










LOADING (psf)           TCLL (roof)         25.0           Snow (Pf)         25.0           TCDL         10.0           BCLL         0.0           BCDL         10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr NO Code IRC2018/TPI2014	CSI. TC 0.50 BC 0.60 WB 0.19 Matrix-SH	DEFL. Vert(LL) Vert(CT) Horz(CT)	in n/a n/a -0.00	(loc) - - 5	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES         GRIP           MT20         197/144           Weight: 40 lb         FT = 20%				
BRACING-       TOP CHORD     2x4 SPF No.2       BOT CHORD     2x4 SPF No.2       BOT CHORD     2x4 SPF No.2       BOT CHORD     2x4 SPF No.3       OTHERS     2x4 SPF No.3         REACTIONS.     All bearings 10-8-7.												
REACTIONS. All bearings 10-8-7. (lb) - Max Horz 1=277(LC 13) Max Uplift All uplift 100 lb or less at joint(s) 1, 5 except 6=-164(LC 16), 7=-126(LC 16) Max Grav All reactions 250 lb or less at joint(s) except 1=412(LC 38), 5=490(LC 41), 6=748(LC 40), 7=657(LC 39) ECRCES (lb) - Max Comp (Max Tep - All forces 250 (lb) or less except when shown												
FORCES.       (lb) - Max. Comp./Max. Ten All forces 250 (lb) or less except when shown.         TOP CHORD       1-2=-445/282, 2-3=-342/236         WEBS       3-6=-473/275, 2-7=-271/187												
<ul> <li>NOTES-</li> <li>1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=0.96; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-5-12 to 5-5-12, Interior(1) 5-5-12 to 10-6-11 zone; cantilever left and right exposed; end vertical left and right exposed;C-C for members and forces &amp; MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60</li> <li>2) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10</li> <li>3) Unbalanced snow loads have been considered for this design.</li> <li>4) Gable requires continuous bottom chord bearing.</li> <li>5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.</li> <li>6) "This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.</li> <li>7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 5 except (jt=lb) G=164, 7=126.</li> <li>8) This truss has been designed for a moving concentrated load of 250.0lb live and 100.0lb dead located at all mid panels and at all panel points along the Bottom Chord, concurrent with live and dead loads.</li> </ul>												

STEVEN E.FOX E.FOX E-23873 June 25,2021

> NITEK 16023 Swingley Ridge Rd Chesterfield, MO 63017





		ł								
LOADING (ps TCLL (roof) Snow (Pf) TCDL BCLL BCDL	if) 25.0 25.0 10.0 0.0 * 10.0	SPACING-2-0-0Plate Grip DOL1.15Lumber DOL1.15Rep Stress IncrNOCode IRC2018/TPI2014	CSI. TC 0.43 BC 0.76 WB 0.15 Matrix-SH	DEFL. Vert(LL) Vert(CT) Horz(CT)	in n/a n/a -0.00	(loc) - - 4	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20 Weight: 32 lb	<b>GRIP</b> 197/144 FT = 20%
LUMBER- TOP CHORD BOT CHORD WEBS OTHERS	2x4 SPF No.2 2x4 SPF No.2 2x4 SPF No.3 2x4 SPF No.3	2 2 3 3		BRACING- TOP CHORD BOT CHORD	Sheath Rigid ce	ed or 6 eiling c	6-0-0 oc directly a	purlins, exc pplied or 6-	cept end verticals. 0-0 oc bracing.	

REACTIONS. (size) 1=9-2-7, 4=9-2-7, 5=9-2-7 Max Horz 1=236(LC 13)

Max Uplift 4=-48(LC 13), 5=-197(LC 16)

Max Grav 1=520(LC 37), 4=472(LC 39), 5=829(LC 38)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 1-2=-357/244 WEBS 2-5=-514/311

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=0.96; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-5-12 to 5-2-7, Interior(1) 5-2-7 to 9-0-11 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
- 2) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.

4) Gable requires continuous bottom chord bearing.

- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide
- will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4 except (jt=lb) 5=197
- 8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 9) This truss has been designed for a moving concentrated load of 250.0lb live and 100.0lb dead located at all mid panels and at all panel points along the Bottom Chord, concurrent with live and dead loads.



Scale = 1:39.9







LOADING (ps TCLL (roof) Snow (Pf) TCDL	f) 25.0 25.0 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr NO	CSI. TC 0.36 BC 0.61 WB 0.12	DEFL. Vert(LL) Vert(CT) Horz(CT)	in n/a n/a -0.00	(loc) - - 4	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20	<b>GRIP</b> 197/144
BCLL BCDL	10.0	Code IRC2018/TPI2014	Matrix-P						Weight: 26 lb	FT = 20%
LUMBER-				BRACING-						

BOT CHORD

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

#### LUMBER-

TOP CHORD 2x4 SPF No.2 BOT CHORD 2x4 SPF No.2 WEBS 2x4 SPF No.3 OTHERS 2x4 SPF No.3

REACTIONS. (size) 1=7-8-1, 4=7-8-1, 5=7-8-1

Max Horz 1=194(LC 13) Max Uplift 1=-10(LC 12), 4=-42(LC 13), 5=-163(LC 16)

Max Grav 1=460(LC 37), 4=479(LC 39), 5=748(LC 38)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 1-2=-333/223 WEBS 2-5=-478/292

NOTES-	

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=0.96; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-5-12 to 5-5-12, Interior(1) 5-5-12 to 7-6-11 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
- 2) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.

4) Gable requires continuous bottom chord bearing.

- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide
- will fit between the bottom chord and any other members.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 4 except (jt=lb) 5=163.
- 8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 9) This truss has been designed for a moving concentrated load of 250.0lb live and 100.0lb dead located at all mid panels and at all panel points along the Bottom Chord, concurrent with live and dead loads.



Scale: 3/8"=1'





						·				
LOADING (psf) TCLL (roof) 25.0 Snow (Pf) 25.0 TCDL 10.0 PCLL 0.0 t	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr NO	CSI. TC 0.25 BC 0.46 WB 0.09	DEFL. Vert(LL) Vert(CT) Horz(CT)	in n/a n/a 0.00	(loc) - - 4	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20	<b>GRIP</b> 197/144	
BCDL 0.0	Code IRC2018/TPI2014	Matrix-P						Weight: 21 lb	FT = 20%	
			BBACING.							

BOT CHORD

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

#### LUMBER-

TOP CHORD2x4 SPF No.2BOT CHORD2x4 SPF No.2WEBS2x4 SPF No.3OTHERS2x4 SPF No.3

**REACTIONS.** (size) 1=6-2-1, 4=6-2-1, 5=6-2-1

Max Horz 1=153(LC 13)

Max Uplift 1=-9(LC 12), 4=-34(LC 13), 5=-129(LC 16) Max Grav 1=434(LC 37), 4=453(LC 39), 5=664(LC 38)

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

 TOP CHORD
 1-2=-279/187

 WEBS
 2-5=-404/249

NOTES-

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=0.96; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-5-12 to 5-5-12, Interior(1) 5-5-12 to 6-0-11 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
- 2) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.

Gable requires continuous bottom chord bearing.

- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide
- will fit between the bottom chord and any other members.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 4 except (jt=lb) 5=129.
- 8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 9) This truss has been designed for a moving concentrated load of 250.0lb live and 100.0lb dead located at all mid panels and at all panel points along the Bottom Chord, concurrent with live and dead loads.







LOADING (psf) TCLL (roof) Snow (Pf) TCDL BCLL	25.0 25.0 10.0 0.0 *	SPACING-2-0-0Plate Grip DOL1.15Lumber DOL1.15Rep Stress IncrNO	CSI. TC 0.14 BC 0.32 WB 0.06	DEFL. Vert(LL) Vert(CT) Horz(CT)	in n/a n/a 0.00	(loc) - - 4	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20	<b>GRIP</b> 197/144
BCDL	10.0	Code IRC2018/TPI2014	Matrix-P						Weight: 15 lb	FT = 20%
LUMBER-				BRACING-						

BOT CHORD

Sheathed or 4-8-7 oc purlins, except end verticals.

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

# LUMBER-

TOP CHORD 2x4 SPF No.2 2x4 SPF No.2 BOT CHORD WEBS 2x4 SPF No.3 OTHERS 2x4 SPF No.3

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

Max Horz 1=112(LC 13)

Max Uplift 1=-7(LC 12), 4=-25(LC 13), 5=-94(LC 16)

Max Grav 1=409(LC 37), 4=428(LC 39), 5=580(LC 38)

FORCES. (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) or less except when shown. WEBS 2-5=-288/192

## NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=0.96; 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) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.
- 4) Gable requires continuous bottom chord bearing.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 4, 5.
- 8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and
- referenced standard ANSI/TPI 1.
- 9) This truss has been designed for a moving concentrated load of 250.0lb live and 100.0lb dead located at all mid panels and at all panel points along the Bottom Chord, concurrent with live and dead loads.









LOADING (psf)           TCLL (roof)         25.0           Snow (Pf)         25.0           TCDL         10.0           BCLL         0.0         *	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr NO Code IBC2018/TPI2014	CSI. TC 0.20 BC 0.50 WB 0.00 Matrix-P	DEFL. Vert(LL) Vert(CT) Horz(CT)	in (lo n/a n/a 0.00	loc) l/defl - n/a - n/a 3 n/a	L/d 999 999 n/a	PLATES MT20 Weight: 9 lb	<b>GRIP</b> 197/144 FT = 20%
BCDL 10.0	Code IRC2018/TPI2014	Matrix-P					Weight: 9 lb	FI = 20%
			BRACING.					

BOT CHORD

Sheathed or 3-2-7 oc purlins, except end verticals.

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

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

BOT CHORD2x4 SPF No.2WEBS2x4 SPF No.3

REACTIONS. (size) 1=3-2-1, 3=3-2-1 Max Horz 1=71(LC 13) Max Uplift 1=-11(LC 16), 3=-36(LC 16) Max Grav 1=466(LC 36), 3=466(LC 37)

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

### NOTES-

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=0.96; 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
- right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60 2) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.

4) Gable requires continuous bottom chord bearing.

- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 9) This truss has been designed for a moving concentrated load of 250.0lb live and 100.0lb dead located at all mid panels and at all panel points along the Bottom Chord, concurrent with live and dead loads.







LOADING (psf) TCLL (roof) Snow (Pf) TCDL BCLL	25.0 25.0 10.0 0.0 *	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr Code IBC2048/00	2-0-0 1.15 1.15 NO	CSI. TC BC WB	0.03 0.18 0.00	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	<b>GRIP</b> 197/144	
BCDL	10.0		12014	Matri	х-Р						weight: 4 lb	FT = 20%	
LUMBER-						BRACING-					·		

BOT CHORD

Sheathed or 1-8-7 oc purlins, except end verticals.

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

TOP CHORD 2x4 SPF No.2 BOT CHORD 2x4 SPF No.2 WEBS 2x4 SPF No.3

REACTIONS. (size) 1=1-8-1, 3=1-8-1 Max Horz 1=30(LC 13) Max Uplift 1=-5(LC 16), 3=-15(LC 16) Max Grav 1=398(LC 36), 3=398(LC 37)

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

#### NOTES-

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=0.96; 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
- right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60 2) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.
- 4) Gable requires continuous bottom chord bearing.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 9) This truss has been designed for a moving concentrated load of 250.0lb live and 100.0lb dead located at all mid panels and at all panel points along the Bottom Chord, concurrent with live and dead loads.







	1											
LOADING (psf)           TCLL (roof)         25.0           Snow (Pf)         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 0.51 BC 0.60 WB 0.19 Matrix-SH	DEFL. Vert(LL) Vert(CT) Horz(CT)	in (l n/a n/a -0.00	(loc) l/defl - n/a - n/a 5 n/a	L/d 999 999 n/a	PLATES MT20 Weight: 40 lb	<b>GRIP</b> 197/144 FT = 20%				
LUMBER- TOP CHORD 2x4 SPF No BOT CHORD 2x4 SPF No WEBS 2x4 SPF No OTHERS 2x4 SPF No	.2 .2 .3 .3		BRACING- TOP CHORD BOT CHORD	Sheathe Rigid ce	ed or 6-0-0 o eiling directly	c purlins, exc applied or 10-	ept end verticals. -0-0 oc bracing.					
REACTIONS. All bearings 10-8-15. (lb) - Max Horz 1=278(LC 13) Max Uplift All uplift 100 lb or less at joint(s) 1, 5 except 6=-164(LC 16), 7=-127(LC 16) Max Grav All reactions 250 lb or less at joint(s) except 1=414(LC 38), 5=490(LC 41), 6=748(LC 40), 7=658(LC 39)												
FORCES.       (lb) - Max. Comp./Max. Ten All forces 250 (lb) or less except when shown.         TOP CHORD       1-2=-445/282, 2-3=-342/236         WEBS       3-6=-473/274, 2-7=-272/187												
<ul> <li>NOTES-</li> <li>1) Wind: ASCE 7-16; Vult=1 Enclosed; MWFRS (enveleft and right exposed; er DOL=1.60 plate grip DOL</li> <li>2) TCLL: ASCE 7-16; Pr=25 Rough Cat C; Fully Exp.;</li> <li>3) Unbalanced snow loads f</li> <li>4) Gable requires continuou</li> <li>5) This truss has been desig</li> <li>6) * This truss has been desig</li> <li>6) * This truss has been desig</li> <li>6) * This truss is designed in a referenced standard ANS</li> <li>9) This truss has been desig</li> <li>9) This truss has been desig</li> </ul>	15mph (3-second gust) Vasd=91mph; Tr lope) gable end zone and C-C Exterior(2 nd vertical left and right exposed;C-C for .=1.60 .0 psf (roof LL: Lum DOL=1.15 Plate DO Ce=0.9; Cs=1.00; Ct=1.10 nave been considered for this design. s bottom chord bearing. ned for a 10.0 psf bottom chord live load igned for a live load of 20.0psf on the bo n chord and any other members, with BC ection (by others) of truss to bearing plat accordance with the 2018 International F i//TPI 1. gned for a moving concentrated load of 2 thom Chord, concurrent with live and design	CDL=6.0psf; BCDL=6.0ps E) 0-5-12 to 5-5-12, Inter members and forces & M L=1.15); Pf=25.0 psf (Lur nonconcurrent with any ttom chord in all areas wi DL = 10.0psf. e capable of withstanding esidential Code sections 50.0lb live and 100.0lb dr d loads.	sf; h=35ft; Ke=0.96 ior(1) 5-5-12 to 10- IWFRS for reaction m DOL=1.15 Plate other live loads. here a rectangle 3- g 100 lb uplift at join R502.11.1 and R8 ead located at all m	; Cat. II; E -7-3 zone; is shown; DOL=1.15 6-0 tall by nt(s) 1, 5 e 02.10.2 an nid panels	Exp C; ; cantilever Lumber 5); ls=1.0; / 2-0-0 wide except (jt=lb) and : and at all		STEVEN E.FOX	SOUR				



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



SPACING-2-0-0Plate Grip DOL1.15Lumber DOL1.15Rep Stress IncrNOCode IRC2018/TPI2014	<b>CSI.</b> TC 0.43 BC 0.77 WB 0.15 Matrix-SH	DEFL. Vert(LL) Vert(CT) Horz(CT)	in (loc) n/a - n/a - -0.00 4	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20 Weight: 32 lb	<b>GRIP</b> 197/144 FT = 20%
2 2 3 3		BRACING- TOP CHORD BOT CHORD	Sheathed or Rigid ceiling	6-0-0 oc p directly ap	ourlins, exce oplied or 6-0-	pt end verticals. 0 oc bracing.	
	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr NO Code IRC2018/TPI2014	SPACING-         2-0-0         CSI.           Plate Grip DOL         1.15         TC         0.43           Lumber DOL         1.15         BC         0.77           Rep Stress Incr         NO         WB         0.15           Code         IRC2018/TPI2014         Matrix-SH           2         3         3	SPACING- Plate Grip DOL2-0-0 1.15CSI. TCDEFL. Vert(LL) Vert(LL) Vert(CT) Horz(CT)Lumber DOL1.15BC0.77 Vert(CT)Vert(CT) Horz(CT)Rep Stress IncrNOWB0.15 Matrix-SHHorz(CT)2BRACING- TOP CHORD BOT CHORDTOP CHORD BOT CHORD333BOT CHORD	SPACING- Plate Grip DOL2-0-0 1.15CSI.DEFL.in (loc) Vert(LL)Plate Grip DOL1.15BC0.77Vert(LL)n/aLumber DOL1.15BC0.77Vert(CT)n/aRep Stress IncrNOWB0.15Horz(CT)-0.004Code IRC2018/TPI2014Matrix-SHBRACING-23TOP CHORDSheathed or BOT CHORD33Sheathed or BOT CHORD	SPACING- Plate Grip DOL2-0-0 1.15CSI. TCDEFL.in(loc)l/defl V/deflLumber DOL1.15BC0.77 WBVert(LL)n/a-n/aRep Stress IncrNO Code IRC2018/TPI2014WB0.15 Matrix-SHHorz(CT)-0.004n/a2BRACING- TOP CHORD BOT CHORDSheathed or 6-0-0 oc p Rigid ceiling directly ap	SPACING- Plate Grip DOL2-0-0 1.15CSI. TCDEFL.in(loc)l/deflL/dPlate Grip DOL1.15TC0.43 BCVert(LL)n/a-n/a999 999 Vert(CT)Rep Stress IncrNOWB0.15 Matrix-SHVert(CT)n/a-n/a999 999 Horz(CT)2BRACING- TOP CHORD 3TOP CHORD Rigid ceiling directly applied or 6-0-0	SPACING- Plate Grip DOL2-0-0 1.15 Lumber DOLCSI. TCDEFL. Vert(LL)in (loc)l/deflL/d PLATES MT20PLATES MT20Lumber DOL1.15 Rep Stress IncrBC0.77 WBVert(LL)n/a-n/a999 999 Horz(CT)MT20Code IRC2018/TPI2014WB0.15 Matrix-SHBRACING- TOP CHORD BOT CHORDSheathed or 6-0-0 oc purlins, except end verticals. Rigid ceiling directly applied or 6-0-0 oc bracing.

1.5x4 ||

3x4 ||

REACTIONS. (size) 1=9-2-15, 4=9-2-15, 5=9-2-15 Max Horz 1=237(LC 13) Max Uplift 4=-48(LC 13), 5=-198(LC 16) Max Grav 1=522(LC 37), 4=471(LC 39), 5=832(LC 38)

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

 TOP CHORD
 1-2=-358/245

 WEBS
 2-5=-516/311

WEBS		

#### NOTES-

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=0.96; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-5-12 to 5-2-15, Interior(1) 5-2-15 to 9-1-3 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) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0;
- Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10 3) Unbalanced snow loads have been considered for this design.

Gable requires continuous bottom chord bearing.

- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide
- will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4 except (jt=lb) 5=198.
- 8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 9) This truss has been designed for a moving concentrated load of 250.0lb live and 100.0lb dead located at all mid panels and at all panel points along the Bottom Chord, concurrent with live and dead loads.









LOADING (psf) TCLL (roof) Snow (Pf) TCDL BCLL	25.0 25.0 10.0	SPACING- 2 Plate Grip DOL Lumber DOL Rep Stress Incr	2-0-0 1.15 1.15 NO	CSI. TC BC WB	0.36 0.61 0.12	DEFL. Vert(LL) Vert(CT) Horz(CT)	in n/a n/a -0.00	(loc) - - 4	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20	<b>GRIP</b> 197/144	
BCDL	10.0	Code IRC2018/TPI20	014	Matri	x-P						Weight: 26 lb	FT = 20%	
LUMBER-						BRACING-							

BOT CHORD

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

TOP CHORD 2x4 SPF No.2 BOT CHORD 2x4 SPF No.2 WEBS 2x4 SPF No.3 OTHERS 2x4 SPF No.3

REACTIONS. (size) 1=7-8-9, 4=7-8-9, 5=7-8-9 Max Horz 1=196(LC 13)

Max Uplift 1=-10(LC 12), 4=-43(LC 13), 5=-164(LC 16)

Max Grav 1=461(LC 37), 4=479(LC 39), 5=751(LC 38)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 1-2=-334/224 WEBS 2-5=-480/293

# NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=0.96; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-5-12 to 5-5-12, Interior(1) 5-5-12 to 7-7-3 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) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0;
- Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.
- 4) Gable requires continuous bottom chord bearing.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide
- will fit between the bottom chord and any other members.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 4 except (jt=lb) 5=164.
- 8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 9) This truss has been designed for a moving concentrated load of 250.0lb live and 100.0lb dead located at all mid panels and at all panel points along the Bottom Chord, concurrent with live and dead loads.



Scale: 3/8"=1'





LOADING (ps TCLL (roof) Snow (Pf) TCDL BCLL BCDL	f) 25.0 25.0 10.0 0.0 * 10.0	SPACING-2-0-0Plate Grip DOL1.15Lumber DOL1.15Rep Stress IncrNOCodeIRC2018/TPI2014	CSI. TC 0.25 BC 0.47 WB 0.09 Matrix-P	DEFL. Vert(LL) Vert(CT) Horz(CT)	in n/a n/a 0.00	(loc) - - 4	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20 Weight: 21 lb	<b>GRIP</b> 197/144 FT = 20%
LUMBER- TOP CHORD	2x4 SPF No.2			BRACING- TOP CHORD	Sheat	thed or	6-0-0 oc	purlins, exc	cept end verticals.	

BOT CHORD

# TOP CHORD

2x4 SPF No.2 BOT CHORD 2x4 SPF No.2 WEBS 2x4 SPF No.3 OTHERS 2x4 SPF No.3

REACTIONS. (size) 1=6-2-9, 4=6-2-9, 5=6-2-9

Max Horz 1=154(LC 13)

Max Uplift 1=-9(LC 12), 4=-34(LC 13), 5=-130(LC 16) Max Grav 1=435(LC 37), 4=454(LC 39), 5=666(LC 38)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 1-2=-281/188

WEBS 2-5=-407/250

#### NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=0.96; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-5-12 to 5-5-12, Interior(1) 5-5-12 to 6-1-3 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) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0;
- Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.
- 4) Gable requires continuous bottom chord bearing.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide
- will fit between the bottom chord and any other members.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 4 except (jt=lb) 5=130.
- 8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 9) This truss has been designed for a moving concentrated load of 250.0lb live and 100.0lb dead located at all mid panels and at all panel points along the Bottom Chord, concurrent with live and dead loads.



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





LOADING (psf) TCLL (roof) Snow (Pf) TCDL	25.0 25.0 10.0	<b>SPACING-</b> Plate Grip DOL Lumber DOL Rep Stress Incr	2-0-0 1.15 1.15 NO	CSI. TC BC WB	0.14 0.33 0.07	DEFL. Vert(LL) Vert(CT) Horz(CT)	in n/a n/a 0.00	(loc) - - 4	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20	<b>GRIP</b> 197/144
BCLL BCDL	10.0	Code IRC2018/TF	912014	Matri	ix-P						Weight: 15 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

Sheathed or 4-8-15 oc purlins, except end verticals.

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

# LUMBER-

TOP CHORD2x4 SPF No.2BOT CHORD2x4 SPF No.2WEBS2x4 SPF No.3OTHERS2x4 SPF No.3

REACTIONS. (size) 1=4-8-9, 4=4-8-9, 5=4-8-9

Max Horz 1=113(LC 13)

Max Uplift 1=-7(LC 12), 4=-25(LC 13), 5=-95(LC 16)

Max Grav 1=410(LC 37), 4=429(LC 39), 5=582(LC 38)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. WEBS 2-5=-291/193

## NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=0.96; 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) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.
- 4) Gable requires continuous bottom chord bearing.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 4, 5.
- 8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and
- referenced standard ANSI/TPI 1.
- 9) This truss has been designed for a moving concentrated load of 250.0lb live and 100.0lb dead located at all mid panels and at all panel points along the Bottom Chord, concurrent with live and dead loads.







LOADING (psf) TCLL (roof) 25 Snow (Pf) 25 TCDL 10 BCLL 00 BCDL 10	5.0 SP 5.0 Pla 5.0 Lui 0.0 * Co 0.0 * Co	PACING- ate Grip DOL Imber DOL ep Stress Incr ode IRC2018/TPI	2-0-0 1.15 1.15 NO 2014	<b>CSI.</b> TC BC WB Matrix	0.21 0.51 0.00 (-P	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 Weight: 9 lb	<b>GRIP</b> 197/144 FT = 20%	
LUMBER- TOP CHORD 2x4	SPF No.2					BRACING- TOP CHORD	Sheat	thed or :	3-2-15 oc	purlins, e	cept end verticals.		

BOT CHORD

TOP CHORD 2x4 SPF No.2 BOT CHORD 2x4 SPF No.2 WEBS 2x4 SPF No.3

REACTIONS. (size) 1=3-2-9, 3=3-2-9 Max Horz 1=72(LC 13) Max Uplift 1=-11(LC 16), 3=-36(LC 16)

Max Grav 1=468(LC 36), 3=468(LC 37)

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

### NOTES-

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=0.96; 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
- right exposed; C-C for members and forces & MVFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60 2) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.

4) Gable requires continuous bottom chord bearing.

- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 9) This truss has been designed for a moving concentrated load of 250.0lb live and 100.0lb dead located at all mid panels and at all panel points along the Bottom Chord, concurrent with live and dead loads.



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





LOADING (psf) TCLL (roof) 25.0 Snow (Pf) 25.0 TCDL 10.0 BCL 0.0 *	SPACING-2-0-0Plate Grip DOL1.15Lumber DOL1.15Rep Stress IncrNO	CSI. TC 0.03 BC 0.19 WB 0.00	<b>DEFL.</b> 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	<b>GRIP</b> 197/144
BCDL 10.0	Code IRC2018/TPI2014	Matrix-P						Weight: 4 lb	FT = 20%

BOT CHORD

Sheathed or 1-8-15 oc purlins, except end verticals.

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

TOP CHORD 2x4 SPF No.2 BOT CHORD 2x4 SPF No.2 WEBS 2x4 SPF No.3

REACTIONS. (size) 1=1-8-9, 3=1-8-9 Max Horz 1=31(LC 13) Max Uplift 1=-5(LC 16), 3=-16(LC 16)

Max Grav 1=400(LC 36), 3=400(LC 37)

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

#### NOTES-

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=0.96; 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
- right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60 2) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.

4) Gable requires continuous bottom chord bearing.

- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 9) This truss has been designed for a moving concentrated load of 250.0lb live and 100.0lb dead located at all mid panels and at all panel points along the Bottom Chord, concurrent with live and dead loads.







BOT CHORD

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

TOP	CHORD
BOT	CHORD

BOT CHORD2x4 SPF No.2WEBS2x4 SPF No.3OTHERS2x4 SPF No.3

REACTIONS. (size) 1=8-0-1, 5=8-0-1, 6=8-0-1 Max Horz 1=240(LC 13)

2x4 SPF No.2

Max Tiol2 1=240(LC 13) Max Uplift 1=-14(LC 12), 5=-120(LC 13), 6=-155(LC 16) Max Grav 1=471(LC 38), 5=608(LC 40), 6=738(LC 39)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 1-2=-392/249, 3-5=-391/240

WEBS 2-6=-392/269

#### NOTES-

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=0.96; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-5-12 to 5-5-12, Interior(1) 5-5-12 to 9-3-14 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) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.
- 4) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 25.0 psf on overhangs
- non-concurrent with other live loads.
- 5) Gable requires continuous bottom chord bearing.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

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

- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1 except (jt=lb) 5=120, 6=155.
- 9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 10) This truss has been designed for a moving concentrated load of 250.0lb live and 100.0lb dead located at all mid panels and at all panel points along the Bottom Chord, concurrent with live and dead loads.



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 sand truss system. See **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

16023 Swingley Ridge Rd Chesterfield, MO 63017



BOT CHORD

Sheathed or 6-0-0 oc purlins, except end verticals.

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

#### LUMBER-

TOP CHORD 2x4 SPF No.2 2x4 SPF No.2 BOT CHORD WEBS 2x4 SPF No.3 OTHERS 2x4 SPF No.3

REACTIONS. (size) 1=6-6-1, 5=6-6-1, 6=6-6-1 Max Horz 1=199(LC 13)

Max Uplift 1=-12(LC 12), 5=-115(LC 13), 6=-116(LC 16) Max Grav 1=447(LC 38), 5=589(LC 40), 6=647(LC 39)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 1-2=-347/216, 3-5=-365/234

WEBS 2-6=-315/228

#### NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=0.96; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-5-12 to 5-5-12, Interior(1) 5-5-12 to 7-9-14 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) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.
- 4) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 25.0 psf on overhangs
- non-concurrent with other live loads.
- 5) Gable requires continuous bottom chord bearing.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1 except (jt=lb) 5=115, 6=116.
- 9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 10) This truss has been designed for a moving concentrated load of 250.0lb live and 100.0lb dead located at all mid panels and at all panel points along the Bottom Chord, concurrent with live and dead loads.



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



LOADING (psf) TCLL (roof) 2 Snow (Pf) 2 TCDL	25.0 25.0 10.0	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr	2-0-0 1.15 1.15 NO	CSI. TC BC WB	0.29 0.35 0.05	DEFL. Vert(LL) Vert(CT) Horz(CT)	in -0.02 -0.02 0.00	(loc) 4 3-4 5	l/defl n/r n/r n/a	L/d 120 90 n/a	PLATES MT20	<b>GRIP</b> 197/144
BCDL ²	0.0  10.0	Code IRC2018/TF	912014	Matri	x-P						Weight: 18 lb	FT = 20%
LUMBER-						BRACING-						

BOT CHORD

1

Sheathed or 5-0-7 oc purlins, except end verticals. Rigid ceiling directly applied or 10-0-0 oc bracing.

# LUMBER-

TOP CHORD 2x4 SPF No.2 BOT CHORD 2x4 SPF No.2 WEBS 2x4 SPF No.3 OTHERS 2x4 SPF No.3

REACTIONS. (size) 1=5-0-1, 5=5-0-1, 6=5-0-1

Max Horz 1=158(LC 13)

Max Uplift 1=-10(LC 12), 5=-112(LC 13), 6=-75(LC 16) Max Grav 1=424(LC 38), 5=572(LC 40), 6=551(LC 39)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 1-2=-286/174, 3-5=-342/226

#### NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=0.96; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-5-12 to 5-5-12, Interior(1) 5-5-12 to 6-3-14 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) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.
- 4) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 25.0 psf on overhangs non-concurrent with other live loads.
- 5) Gable requires continuous bottom chord bearing.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 6 except (jt=lb) 5=112.
- 9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 10) This truss has been designed for a moving concentrated load of 250.0lb live and 100.0lb dead located at all mid panels and at all panel points along the Bottom Chord, concurrent with live and dead loads.







Code IRC2018/TPI2014 Matrix-P Weight: 12 lb FT =	LOADING (psf) TCLL (roof) 25 Snow (Pf) 25 TCDL 10 BCLL 0 BCDL 10	5.0 5.0 0.0 0.0 *	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr Code IRC2018/TF	2-0-0 1.15 1.15 NO Pl2014	CSI. TC BC WB Matri	0.30 0.58 0.00 x-P	DEFL. Vert(LL) Vert(CT) Horz(CT)	in -0.01 -0.01 0.00	(loc) 3 3 4	l/defl n/r n/r n/a	L/d 120 90 n/a	PLATES MT20 Weight: 12 lb	<b>GRIP</b> 197/144 FT = 20
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BRACING-

TOP CHORD

BOT CHORD

Sheathed or 3-6-7 oc purlins, except end verticals. Rigid ceiling directly applied or 10-0-0 oc bracing.

# LUMBER-

TOP CHORD 2x4 SPF No.2 BOT CHORD 2x4 SPF No.2 WEBS 2x4 SPF No.3

REACTIONS. (size) 1=3-6-1, 4=3-6-1 Max Horz 1=116(LC 13) Max Uplift 4=-113(LC 16)

Max Grav 1=456(LC 37), 4=606(LC 38)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-4=-370/280

#### NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=0.96; 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) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.
- 4) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 25.0 psf on overhangs non-concurrent with other live loads.
- 5) Gable requires continuous bottom chord bearing.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=113.
- 9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 10) This truss has been designed for a moving concentrated load of 250.0lb live and 100.0lb dead located at all mid panels and at all panel points along the Bottom Chord, concurrent with live and dead loads.







LOADING (psf) TCLL (roof) Snow (Pf) TCDL BCLL	25.0 25.0 10.0 0.0 *	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr NO	CSI. TC 0.27 BC 0.24 WB 0.00	<b>DEFL.</b> Vert(LL) -0.0 Vert(CT) -0.0 Horz(CT) 0.0	in (loc) 01 3 02 3 00 4	l/defl n/r n/r n/a	L/d 120 90 n/a	PLATES MT20	<b>GRIP</b> 197/144
BCDL	10.0	Code IRC2018/1PI2014	Matrix-P					vveight: 7 ib	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

Sheathed or 2-0-7 oc purlins, except end verticals.

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

## LUMBER-

TOP CHORD 2x4 SPF No.2 BOT CHORD 2x4 SPF No.2 WEBS 2x4 SPF No.3

REACTIONS. (size) 1=2-0-1, 4=2-0-1 Max Horz 1=70(LC 17) Max Uplift 1=-60(LC 22), 4=-88(LC 16) Max Grav 1=362(LC 37), 4=565(LC 38)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-4=-274/301

# NOTES-

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=0.96; 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) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.
- 4) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 25.0 psf on overhangs non-concurrent with other live loads.
- 5) Gable requires continuous bottom chord bearing.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 4.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 10) This trues has have desired
- 10) This truss has been designed for a moving concentrated load of 250.0lb live and 100.0lb dead located at all mid panels and at all panel points along the Bottom Chord, concurrent with live and dead loads.





