

RE: P230786-01 - Roof

Site Information: Project Customer: Clover & Hive Project Name: Juneau - Farmhouse Lot/Block: 13 Subdivision: Osage Model: Address: 3710/3712/3716/3718 SW Maryville Place City: Lees Summit State: MO

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

Design Code: IRC2018/TPI2014 Wind Code: ASCE 7-16 [IV/indRSpeced: 115 mph Roof Load: 45.0 psf

Design Program: MiTek 20/20 8.6 Design Method: MWFRS (Envelope) ASCE 7-16 [Low Rise] Floor Load: N/A psf

MiTek, Inc.

314.434.1200

16023 Swingley Ridge Rd.

Chesterfield, MO 63017

Mean Roof Height (feet): 25

Exposure Category: C

/30/23 /30/23

No.	Seal#	Truss Name	Date	No.	Seal#	Truss Name	Date
1 2 3 4 5 6 7 8 9 10 11 2 3 4 5 6 7 8 9 10 12 3 4 5 6 7 8 9 10 12 3 4 5 6 7 8 9 10 12 3 4 5 6 7 10 12 3 4 5 6 7 10 10 10 10 10 10 10 10 10 10 10 10 10	le1698967 le1698968 le1698969 le1698970 le1698970 le1698972 le1698973 le1698973 le1698973 le1698974 le1698975 le1698975 le1698977 le1698978 le1698979	A2 A3 A4 A5 A6 A7 A8 A9 A10 A11 A12 A13 A14	10/30/23 10/30/23 10/30/23 10/30/23 10/30/23 10/30/23 10/30/23 10/30/23 10/30/23 10/30/23 10/30/23 10/30/23	35 36 37 38 39 40 41 42 43 445 445 445 47	Ic1699001 Ic1699002 Ic1699003 Ic1699004 Ic1699005 Ic1699005 Ic1699007 Ic1699008 Ic1699009 Ic1699010 Ic1699011 Ic1699012 Ic1699013	CJA3 D1 D2 D3 D4 D5 D6 D7 D7 D8 HG1 HG2 HG3 HG4	10/30/ 10/30/ 10/30/ 10/30/ 10/30/ 10/30/ 10/30/ 10/30/ 10/30/ 10/30/ 10/30/ 10/30/ 10/30/
14 1567 1890 1223 24567 2890 2333 2333	161698980           161698981           161698982           161698982           161698983           161698983           161698985           161698986           161698988           161698988           161698988           161698988           161698989           161698998           161698993           161698993           161698993           161698995           161698995           161698998           161698998           161698998           161698998           161698998           161698998           161698998           161698998	A15 A16 A17 A18 A20 A21 A22 A22 A23 A24 A25 A26 B1 B2 B3 B3 B4 B5 C1 C2	10/30/23 10/30/23 10/30/23 10/30/23 10/30/23 10/30/23 10/30/23 10/30/23 10/30/23 10/30/23 10/30/23 10/30/23 10/30/23 10/30/23 10/30/23 10/30/23 10/30/23 10/30/23	.8 49015555555555555661234566 6666666666666666666666666666666666	i61699014 i61699015 i61699015 i61699017 i61699018 i61699020 i61699022 i61699022 i61699023 i61699024 i61699025 i61699025 i61699027 i61699028 i61699029 i61699031 i61699031	JA1 JA2 JA3 JA4 JA5 JA6 JA7 V1 V2 V3 VB1 VB2 VB3 VB4 VB5 VB6 VB6 VB7 VC1 VC2	10/30/, 10/30/
33 34	161698999	CJA1	10/30/23	ь7 68	161699033	VC3 VC4	10/30/

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: Sevier, Scott

My license renewal date for the state of Missouri is December 31, 2023.

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.



October 30,2023



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MiTek, Inc. 16023 Swingley Ridge Rd. Chesterfield, MO 63017 314.434.1200

No. Seal# Truss Name Date 69 I61699035 VC5 10/30/23



and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcscomponents.com)

16023 Swingley Ridge Rd. Chesterfield MO 63017 314.434.1200 / MiTek-US.com

### RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMUT PM SS SG H, Rts), 1<u>1/20</u>/2023 4:55:47

98967
32
2f

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

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

12) Use Simpson Strong-Tie LUS24 (4-10d Girder, 2-10d Truss, Single Ply Girder) or equivalent spaced at 2-0-0 oc max. starting at 9-6-0 from the left end to 25-6-0 to

connect truss(es) to front face of bottom chord. 13) Fill all nail holes where hanger is in contact with lumber.

14) "NAILED" indicates 3-10d Nails (0.148" x 3") toe-nails per NDS guidelines.

15) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 270 lb down and 401 lb up at 9-6-0, 270 lb down and 401 lb up at 11-6-0, 270 lb down and 401 lb up at 13-6-0, 270 lb down and 401 lb up at 15-6-0, 270 lb down and 401 lb up at 19-6-0, 270 lb down and 401 lb up at 21-6-0, and 270 Ib down and 401 lb up at 23-6-0, and 270 lb down and 401 lb up at 25-6-0 on top chord. The design/selection of such connection device(s) is the responsibility of others.

#### LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert 1-4=-70 4-8=-70 8-11=-70 2-10=-20

Concentrated Loads (lb)

Vert: 19=-91(F) 16=-577(F) 13=-91(F) 24=-65(F) 25=-46(F) 27=-78(F) 28=77(F) 29=77(F) 30=77(F) 31=77(F) 32=77(F) 33=77(F) 34=77(F) 35=77(F) 35=77(F) 36=-78(F) 36=-78(F 38=-46(F) 39=-65(F) 40=-84(F) 41=-104(F) 42=-156(F) 43=-577(F) 44=-577(F) 45=-577(F) 46=-577(F) 47=-577(F) 48=-577(F) 49=-577(F) 50=-577(F) 51=-156(F) 52=-104(F) 53=-84(F)

 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 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 beigh valid for use only with with with with the contractions. This design is based only door plantaters shown, and is for an individual dualing 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**, and **DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcscomponents.com)







L	6-0-5	10-9-8	17-6-0	1	24-2-8	28-11-	-11 34-8-	8
	6-0-5	4-9-3	6-8-8		6-8-8	4-9-	3 5-8-1	3
Plate Offsets (X,Y)	[2:0-0-0,0-2-0], [2:0-2-8,1	Edge]						
LOADING         (psf)           TCLL         25.0           TCDL         10.0           BCLL         0.0           BCDL         10.0	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr Code IRC2018/T	2-0-0 1.15 1.15 NO PI2014	CSI. TC 0.75 BC 0.90 WB 0.38 Matrix-SH	DEFL. Vert(LL) -( Vert(CT) -( Horz(CT) (	in (loc) ).17 13 ).34 13-15 ).13 9	l/defl L/d >999 240 >999 180 n/a n/a	PLATES MT20 Weight: 170 lb	<b>GRIP</b> 197/144 FT = 20%
LUMBER- TOP CHORD 2x4 SF 4-6: 2x BOT CHORD 2x4 SF WEBS 2x4 SF WEDGE Left: 2x4 SP No.2 SLIDER Right 2	P No.2 *Except*			BRACING- TOP CHORD BOT CHORD	Sheath 2-0-0 o Rigid c	ed or 2-7-6 oc purl c purlins (3-10-11 ı eiling directly applic	ins, except max.): 4-6. ed or 10-0-0 oc bracing.	
REACTIONS. (siz Max H Max U Max C	e) 9=Mechanical, 2=0-3 Horz 2=102(LC 8) Jplift 9=-115(LC 9), 2=-14 Grav 9=1554(LC 1), 2=16	3-8 0(LC 8) 31(LC 1)						
FORCES. (lb) - Max. TOP CHORD 2-3= 7-9=	. Comp./Max. Ten All fo -2835/193, 3-4=-2411/220 -2735/192	rces 250 (lb) or ), 4-5=-2521/26	less except when shown 3, 5-6=-2521/263, 6-7=-2	2385/217,				
BOT CHORD 2-16	=-187/2402, 15-16=-187/2 103/2308	2402, 13-15=-1	50/2088, 11-13=-87/2078	, 10-11=-103/2308,				
WEBS 3-15 6-11	= 103/2300 =-385/168, 4-15=-23/374, =-19/341, 7-11=-290/161	4-13=-146/688	, 5-13=-585/220, 6-13=-1	46/700,				
NOTES- 1) Unbalanced roof liv. 2) Wind: ASCE 7-16; V Enclosed; MWFRS DOL=1.60 plate grip 3) Provide adequate d 4) This truss has been 5) * This truss has been will fit between the fl 6) Refer to girder(s) fo 7) Provide mechanical 9=115, 2=140. 8) This truss is design referenced standard	e loads have been consid Vult=115mph (3-second g (envelope) gable end zor o DOL=1.60 Irainage to prevent water   o designed for a 10.0 psf b en designed for a live load bottom chord and any oth r truss to truss connectior I connection (by others) of ed in accordance with the d ANSI/TPI 1.	ered for this de: ust) Vasd=91m e; cantilever lef conding. ottom chord live of 20.0psf on ti er members. is. t russ to bearin 2018 Internatic	sign. ph; TCDL=6.0psf; BCDL= t and right exposed ; end e load nonconcurrent with ne bottom chord in all are g plate capable of withsta nal Residential Code sec	=6.0psf; h=25ft; Ke=( vertical left and righ n any other live loads as where a rectangle anding 100 lb uplift at ctions R502.11.1 and	0.96; Cat. II; t exposed; Li e 3-6-0 tall by joint(s) exce R802.10.2 a	Exp C; umber y 2-0-0 wide ept (jt=lb) and	SINTE OF SINTE OF SE SE PE-200	MISSOLT

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



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L	6-0-4	13-5-8	3	21-6-8		28-11-1	3 3	4-8-8
I	6-0-4	7-5-4	- I	8-1-0	1	7-5-5		-8-12
Plate Offsets (X,Y)	[2:0-2-8,Edge], [2:0-0-0	),0-1-12], [10:0-3	-12,0-0-3]					
LOADING         (psf)           TCLL         25.0           TCDL         10.0           BCLL         0.0           BCDL         10.0	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr Code IRC2018/	2-0-0 1.15 1.15 NO TPI2014	CSI. TC 0.94 BC 0.99 WB 0.87 Matrix-SH	DEFL. Vert(LL) Vert(CT) Horz(CT)	in (loc) -0.35 13-14 -0.58 13-14 0.13 10	l/defl L/d >999 240 >712 180 n/a n/a	PLATES MT20 Weight: 172	<b>GRIP</b> 197/144 Ib FT = 20%
LUMBER- TOP CHORD 2x4 SP 5-7: 2x BOT CHORD 2x4 SP 12-15: WEBS 2x4 SP WEDGE Left: 2x4 SP No.2 SLIDER Right 2	1650F 1.5E *Except* 4 SP No.2, 7-10: 2x4 SI No.2 *Except* 2x4 SP 1650F 1.5E F No.3 x4 SP No.2 3-1-12	P 2400F 2.0E		BRACING- TOP CHORE BOT CHORE	0 Sheath 2-0-0 c 0 Rigid c	ned, except oc purlins (3-11- eiling directly ap	6 max.): 5-7. oplied or 10-0-0 oc bracing	
REACTIONS. (size Max H Max U Max G	e) 10=Mechanical, 2= orz 2=125(LC 12) plift 10=-141(LC 9), 2=- rav 10=1623(LC 2), 2=	0-3-8 -166(LC 8) :1686(LC 2)						
FORCES.         (lb) - Max.           TOP CHORD         2-3=-           8-10=           BOT CHORD         2-16=           WEBS         3-16=           8-13=	Comp./Max. Ten All f 2982/268, 3-5=-2328/1 2891/253 287/2578, 14-16=-287 -0/275, 3-14=-667/246, 558/223	orces 250 (lb) or 91, 5-6=-1980/21 7/2578, 13-14=-5 5-14=0/690, 6-1-	less except when showr 7, 6-7=-1976/215, 7-8=- 7/2055, 11-13=-147/2468 4=-345/123, 6-13=-349/1	n. 2310/185, 3, 10-11=-147/2468 22, 7-13=0/657,				
<ul> <li>NOTES-</li> <li>1) Unbalanced roof live</li> <li>2) Wind: ASCE 7-16; V Enclosed; MWFRS ( DOL=1.60 plate grip</li> <li>3) Provide adequate dr</li> <li>4) This truss has been</li> <li>5) * This truss has been will fit between the b</li> <li>6) Refer to girder(s) for</li> <li>7) Provide mechanical 10–141, 2=166.</li> <li>8) This truss is designer referenced standard</li> <li>9) Graphical purlin repr</li> </ul>	e loads have been consi ult=115mph (3-second envelope) gable end zo DOL=1.60 designed for a 10.0 psf n designed for a 10.0 psf n designed for a live loa ottom chord and any ot truss to truss connectic connection (by others) of d in accordance with th ANSI/TPI 1. esentation does not dep	idered for this de gust) Vasd=91m one; cantilever lei r ponding. bottom chord liv d of 20.0psf on t her members, wi ons. of truss to bearin the 2018 Internation pict the size or th	sign. ph; TCDL=6.0psf; BCDL ft and right exposed ; end e load nonconcurrent wit he bottom chord in all ar th BCDL = 10.0psf. g plate capable of withst onal Residential Code se he orientation of the purlin	=6.0psf; h=25ft; Ke= d vertical left and rigit h any other live load eas where a rectang anding 100 lb uplift a ctions R502.11.1 an h along the top and/o	0.96; Cat. II; nt exposed; L s. le 3-6-0 tall b at joint(s) exc d R802.10.2 or bottom cho	Exp C; umber y 2-0-0 wide ept (jt=lb) and rd.	SCHUTE O SCHUTE O SCH	F MISSOL

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October 30,2023

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<u> </u>	8-4-13 8-4-13		16-1-8 7-8-11	2-9-0	24-2-5 5-3-13	25-6-8 26-7-	12 28-1-0	31-5-2 3-4-2	34-8-8 3-3-6
Plate Offsets (X,Y)	[2:Edge,0-3-2], [3:0-2-8,0	0-3-0], [6:0-4-6,	Edge], [7:0-1-12,0-5-4], [9	Edge,0-5-15], [10:	:0-3-8,0-2-0],	[12:0-10-4,0-3-1	2], [14:0-5-8	8,0-6-0]	
LOADING         (psf)           TCLL         25.0           TCDL         10.0           BCLL         0.0           BCDL         10.0	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr Code IRC2018/T	2-0-0 1.15 1.15 NO PI2014	<b>CSI.</b> TC 0.65 BC 0.94 WB 1.00 Matrix-SH	DEFL. Vert(LL) Vert(CT) Horz(CT)	in (loc) -0.50 17-19 -0.87 17-19 0.44 9	l/defl L/d >827 240 >477 180 n/a n/a		<b>PLATES</b> MT20 MT18HS Weight: 239 lb	<b>GRIP</b> 185/144 197/144 FT = 20%
LUMBER- TOP CHORD 2x4 SF 6-7: 2x BOT CHORD 2x4 SF 9-11: 2 13-15; WEBS 2x4 SF 7-14: 2 WEDGE Left: 2x4 SP No.2 REACTIONS (siz Max H	P No.2 *Except* 66 SP 2400F 2.0E, 1-3: 2) 2 1550F 1.5E *Except* 2x4 SP No.2, 12-14: 2x6 S 7-11: 2x6 SPF No.2 PF No.3 *Except* 2x4 SP 1650F 1.5E, 10-12 e) 2=0-3-8, 9=Mechani lorz 2=148(LC 12)	4 SP 1650F 1. SP 2400F 2.0E 2,8-12: 2x4 SP cal	5E, 7-9: 2x10 HF No.2 No.2	BRACING- TOP CHOR BOT CHOR WEBS JOINTS	D Sheati 2-0-0 D Rigid ( 8-11-2 1 Row 2 Row 1 Brac	hed or 3-0-2 oc p oc purlins (3-4-1 ceiling directly ap 2 oc bracing: 11- 2 at midpt se at 1/3 pts at at Jt(s): 14	burlins, exce 5 max.): 5-6 plied or 10- 12. 5-17 7-14	ept 5. -0-0 oc bracing, ⊟	Except:
FORCES. (Ib) - Max. U Max U Max C TOP CHORD 2-3= 7-8= BOT CHORD 2-19: 13-1 WEBS 4-19: 7-14:	Max Horz 2=148(LC 12) Max Uplift 2=-187(LC 8), 9=-162(LC 9) Max Grav 2=1713(LC 2), 9=1664(LC 2)         FORCES. (lb) - Max. Comp./Max. Ten All forces 250 (lb) or less except when shown.         TOP CHORD       2-3=-2922/272, 3-4=-2741/263, 4-5=-2079/228, 5-6=-2346/239, 6-7=-2764/201, 7-8=-7171/505, 8-9=-3020/282         BOT CHORD       2-19=-300/2499, 17-19=-202/2231, 16-17=-40/298, 10-11=-38/440, 9-10=-204/2579, 13-14=-329/6822, 12-13=-313/7021, 7-12=-45/2363         WEBS       4-19=-1/483, 4-17=-649/221, 5-17=-374/0, 14-17=-13/1896, 6-14=-0/768, 7-14=-4673/407, 8-10=-1390/158, 5-14=-78/1217, 10-12=-200/2576, 8-12=-143/3832								
<ul> <li>NOTES-</li> <li>1) Unbalanced roof live</li> <li>2) Wind: ASCE 7-16; \ Enclosed; MWFRS</li> <li>DOL=1.60 plate grip</li> <li>3) Provide adequate d</li> <li>4) All plates are MT20</li> <li>5) This truss has been</li> <li>6) * This truss has been will fit between the b</li> <li>7) Refer to girder(s) fo</li> <li>8) Provide mechanical 2=187, 9=162.</li> <li>9) This truss is designer referenced standarc</li> <li>10) Graphical purlin references</li> </ul>	e loads have been consid /ult=115mph (3-second g (envelope) gable end zor o DOL=1.60 rainage to prevent water   plates unless otherwise i designed for a 10.0 psf b in designed for a live load oottom chord and any oth r truss to truss connectior connection (by others) of ed in accordance with the I ANSI/TPI 1. presentation does not de	ered for this de ust) Vasd=91m e; cantilever lei ponding. ndicated. pottom chord liv of 20.0psf on t er members, wi ns. f truss to bearin 2018 Internatio pict the size or	sign. ph; TCDL=6.0psf; BCDL= t and right exposed ; end e load nonconcurrent with he bottom chord in all are th BCDL = 10.0psf. g plate capable of withsta onal Residential Code sec the orientation of the purli	6.0psf; h=25ft; Ke vertical left and rig any other live loa as where a rectan nding 100 lb uplift tions R502.11.1 an	=0.96; Cat. II; pht exposed; I ds. gle 3-6-0 tall b at joint(s) exc nd R802.10.2 d/or bottom cl	Exp C; .umber by 2-0-0 wide eept (jt=lb) and hord.		State OF State OF SE SE NUR PE-200 Octob	MISSOLUTI MISSOLUTI VIER MBER 1018807

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# MiTek

16023 Swingley Ridge Rd. Chesterfield MO 63017

314.434.1200 / MiTek-US.com



	6-0-5 <u>11-6-3</u> 6-0-5 <u>5-5-14</u>	<u>11-10-0 17-6-0</u>	<u>21-5-8</u> 23- 3-11-8 2-3	7-8 25-6-0	34-8-8 9-2-8			
Plate Offsets (X,Y)	[2:0-2-8,Edge], [2:0-0-0,0-1-4], [12:0-4-0	),0-1-8], [14:Edge,0-3-8]	0110 22		020			
LOADING         (psf)           TCLL         25.0           TCDL         10.0           BCLL         0.0           BCDL         10.0	SPACING-2-0-0Plate Grip DOL1.15Lumber DOL1.15Rep Stress IncrNOCode IRC2018/TPI2014	CSI. TC 0.67 BC 0.95 WB 0.69 Matrix-SH	DEFL.         in           Vert(LL)         -0.39           Vert(CT)         -0.64           Horz(CT)         0.07	i (loc) l/defl 11-12 >341 11-12 >207 11 n/a	L/d 240 180 n/a	PLATES MT20 MT18HS Weight: 199 lb	<b>GRIP</b> 197/144 197/144 FT = 20%	
BRACING-         TOP CHORD       2x4 SP No.2         BOT CHORD       2x4 SP No.2 *Except*         12-14: 2x4 SPF No.3, 11-13: 2x4 SP 1650F 1.5E       BOT CHORD         WEBS       2x4 SPF No.3         WEDGE       WEBS         Left: 2x4 SP No.2       WEBS         Uter in the second							and 2-0-0 oc cept:	
REACTIONS.       (size)       11=Mechanical, 15=0-3-8, 2=0-3-8 Max Horz       2=288(LC 5) Max Uplift         Max Uplift       11=-194(LC 23), 15=-140(LC 9), 2=-185(LC 8) Max Grav       11=150(LC 22), 15=2553(LC 2), 2=924(LC 21)         FORCES.       (lb) - Max. Comp./Max. Ten All forces 250 (lb) or less except when shown.         TOP CHORD       2-3=-1369/270, 3-5=-835/258, 5-6=-265/216, 7-8=-8/914, 8-9=-10/902								
WEBS 5-18 3-18	=-349/1112, 16-19=-349/1112, 16-16=-2 2=-373/0, 8-15=-281/117 =-4/479, 6-16=-267/32, 7-15=-1233/119, 3=-535/134, 3-19=0/263, 5-16=-796/227,	13-15=-893/89, 9-13=-913/99 7-16=-9/1191	-432/0, , 9-11=0/570,					
NOTES- 1) Unbalanced roof liv. 2) Wind: ASCE 7-16; V Enclosed; MWFRS DOL=1.60 plate grip 3) Provide adequate d 4) All plates are MT200 5) This truss has been 6) * This truss has been will fit between the fit 7) Refer to girder(s) fo 8) Provide mechanical 11=194, 15=140, 2= 0) This trues is decision	e loads have been considered for this de /ult=115mph (3-second gust) Vasd=91m (envelope) gable end zone; cantilever le o DOL=1.60 rainage to prevent water ponding. plates unless otherwise indicated. designed for a 10.0 psf bottom chord liv in designed for a live load of 20.0psf on to zottom chord and any other members, wi r truss to truss connections. connection (by others) of truss to bearin =185.	sign. ph; TCDL=6.0psf; BCDL=6.0p it and right exposed ; end verti e load nonconcurrent with any he bottom chord in all areas w th BCDL = 10.0psf. g plate capable of withstandin	osf; h=25ft; Ke=0.96 ical left and right exp other live loads. where a rectangle 3-1 g 100 lb uplift at joir	; Cat. II; Exp C; posed; Lumber 6-0 tall by 2-0-0 wid ht(s) except (jt=lb)	de	STATE OF SCOT	MISSOLUT TT M. TER	

referenced standard ANSI/TPI 1.

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



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NOTES-

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

2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Ke=0.96; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60

- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 6) Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 12=109, 16=124, 2=180.

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and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcscomponent.com)

- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



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Plate Offsets (X, Y)-	[2:0-2-8,Edge], [2:0-0-0,0-1-4], [8:0-2-0	,0-2-3], [13:0-2-0,0-2-0]			
LOADING         (psf)           TCLL         25.0           TCDL         10.0           BCLL         0.0         *           BCDL         10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr NO Code IRC2018/TPI2014	CSI. TC 0.68 BC 0.97 WB 0.76 Matrix-SH	<b>DEFL.</b> ir Vert(LL) -0.32 Vert(CT) -0.64 Horz(CT) 0.07	n (loc) I/defl L/d 2 12-13 >417 240 4 12-13 >207 180 7 12 n/a n/a	PLATES         GRIP           MT20         197/144           Weight: 189 lb         FT = 20%
LUMBER- TOP CHORD 2x4 BOT CHORD 2x4 13-	SP No.2 SP No.2 *Except* 4: 2x4 SPF No.3		BRACING- TOP CHORD BOT CHORD	Sheathed or 3-7-0 oc purlins, purlins (6-0-0 max.): 9-11. Rigid ceiling directly applied of	except end verticals, and 2-0-0 oc
WEBS 2x4 WEDGE	SPF No.3		WEBS	4-9-0 oc bracing: 7-15 1 Row at midpt 6	-16, 5-16

Left: 2x4 SP No.2

- REACTIONS. (size) 12=Mechanical, 15=0-3-8, 2=0-3-8 Max Horz 2=216(LC 5) Max Uplift 12=-75(LC 5), 15=-160(LC 9), 2=-165(LC 8) Max Grav 12=291(LC 22), 15=2048(LC 2), 2=1034(LC 23)
- FORCES. (Ib) Max. Comp./Max. Ten. All forces 250 (Ib) or less except when shown.
- TOP CHORD 2-3=-1598/229, 3-5=-1051/216, 5-6=-466/173, 6-7=-460/196, 7-8=-54/572,

	8-10=-38/441
BOT CHORD	2-19=-305/1363, 18-19=-305/1363, 16-18=-188/915, 15-16=-434/15, 9-15=-1417/188,
	7-9=-1460/187
WEBS	5-18=-6/471, 13-15=-536/36, 10-13=-483/144, 10-12=-1/265, 3-18=-521/136,
	3-19=0/262, 5-16=-786/229, 7-16=-58/1076

#### NOTES-

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

- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Ke=0.96; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 6) Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 12 except (jt=lb) 15=160, 2=165.
- 8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



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WEBS

LOWIDER	
TOP CHORD	2x4 SP No.2
BOT CHORD	2x4 SP No.2 *Except*
	9-14: 2x4 SPF No.3
WEBS	2x4 SPF No.3
WEDGE	

Sheathed or 3-6-10 oc purlins, except end verticals, and 2-0-0 oc TOP CHORD purlins (6-0-0 max.): 8-11. BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing. 1 Row at midpt 6-16, 5-16 JOINTS 1 Brace at Jt(s): 8, 11

#### Left: 2x4 SP No.2

REACTIONS. (size) 12=Mechanical, 2=0-3-8, 15=0-3-8 Max Horz 2=189(LC 8) Max Uplift 12=-64(LC 9), 2=-162(LC 8), 15=-166(LC 9) Max Grav 12=329(LC 22), 2=1055(LC 2), 15=1961(LC 2)

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

- TOP CHORD 2-3=-1642/223, 3-5=-1095/209, 5-6=-497/165, 6-7=-501/189, 7-10=-27/475
- 2-19=-295/1403, 18-19=-295/1403, 16-18=-178/957, 15-16=-341/34, 14-15=-286/21, BOT CHORD 12-13=-155/286, 8-15=-1594/196, 7-8=-1472/187
- WFBS 5-18=-7/468, 10-13=-483/226, 3-18=-518/136, 3-19=0/262, 5-16=-785/230, 7-16=-58/1015

#### NOTES-

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

2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Ke=0.96; Cat. II: Exp C: Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60

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

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

- Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 12 except (jt=lb) 2=162.15=166
- 8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



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



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L			34-8-8		
I			34-8-8		
Plate Offsets (X,Y)	[2:0-0-0,0-1-0], [2:0-2-8,Edge]				
LOADING         (psf)           TCLL         25.0           TCDL         10.0           BCLL         0.0         *           BCDL         10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr NO Code IRC2018/TPI2014	CSI. TC 0.09 BC 0.07 WB 0.20 Matrix-SH	DEFL. ir Vert(LL) -0.00 Vert(CT) -0.00 Horz(CT) 0.01	i (loc) l/defl L/d 1 n/r 120 1 n/r 90 23 n/a n/a	PLATES         GRIP           MT20         197/144           Weight: 200 lb         FT = 20%
LUMBER- TOP CHORD 2x4 S BOT CHORD 2x4 S WEBS 2x4 S	5P No.2 5P No.2 5PF No.3		BRACING- TOP CHORD BOT CHORD WEBS	Sheathed or 6-0-0 oc purlins, Rigid ceiling directly applied o 1 Row at midpt 1.	except end verticals. r 10-0-0 oc bracing. 2-33

WEBS 2x4 SPF No.3 OTHERS 2x4 SPF No.3 WEDGE

Left: 2x4 SP No.2

#### REACTIONS. All bearings 34-8-8.

Max Horz 2=162(LC 8) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 23, 2, 34, 35, 37, 38, 39, 40, 41, 42, 32, 31, 29, 28, 27, 26, 25 except 24=-108(LC 9) Max Grav

All reactions 250 lb or less at joint(s) 23, 2, 33, 34, 35, 37, 38, 39, 40, 41, 42, 32, 31, 29, 28, 27, 26, 25, 24

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

#### NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Ke=0.96; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) All plates are 1.5x4 MT20 unless otherwise indicated.
- 5) Gable requires continuous bottom chord bearing
- 6) Gable studs spaced at 2-0-0 oc.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide
- will fit between the bottom chord and any other members.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 23, 2, 34, 35, 37, 38, 39, 40, 41, 42, 32, 31, 29, 28, 27, 26, 25 except (jt=lb) 24=108.
- 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.





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			35-0-0			
Plate Offsets (X,Y)	[2:0-0-0,0-1-0], [2:0-2-8,Edge], [22:0-0-0	0,0-1-0], [22:0-2-8,Edge]				
LOADING         (psf)           TCLL         25.0           TCDL         10.0           BCLL         0.0         *           BCDL         10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr NO Code IRC2018/TPI2014	CSI. TC 0.09 BC 0.04 WB 0.20 Matrix-SH	DEFL. in Vert(LL) -0.00 Vert(CT) -0.00 Horz(CT) 0.01	i (loc) l/defl L/d 1 n/r 120 1 n/r 90 22 n/a n/a	PLATES MT20 Weight: 201 lb	<b>3RIP</b> 197/144 FT = 20%
LUMBER- TOP CHORD 2x4 3 BOT CHORD 2x4 3 OTHERS 2x4 3	SP No.2 SP No.2 SPF No.3		BRACING- TOP CHORD BOT CHORD WEBS	Sheathed or 6-0-0 oc purlins. Rigid ceiling directly applied of 1 Row at midpt 1	or 10-0-0 oc bracing. 2-32	

35-0-0

3x4 =

2x4 SPF No.3 JIHERS WEDGE

Left: 2x4 SP No.2 , Right: 2x4 SP No.2

#### REACTIONS. All bearings 35-0-0.

Max Horz 2=160(LC 8) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 2, 33, 34, 36, 37, 38, 39, 40, 41, 31, 30, 28, 27, 26, 25, 24, 23

3x4 =

Max Grav All reactions 250 lb or less at joint(s) 2, 32, 33, 34, 36, 37, 38, 39, 40, 41, 31, 30, 28, 27, 26, 25, 24, 23, 22

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

#### NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Ke=0.96; Cat. II; Exp C;
- Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- All plates are 1.5x4 MT20 unless otherwise indicated.
- 5) Gable requires continuous bottom chord bearing.
- 6) Gable studs spaced at 2-0-0 oc.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* 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 8) will fit between the bottom chord and any other members.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 33, 34, 36, 37, 38, 39, 40, 41, 31, 30, 28, 27, 26, 25, 24, 23.
- 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.



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October 30,2023

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RE	LEASE FOR CONST	RUCTION
AS	<b>NOTED ON PLANS</b>	REVIEW
- 0	DEVEROPMENT SER	VICES
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1	1/20/2023 4:5	55:48

NЦ							
,	Truss Type	Qty	Ply	Roof			
/				l61698980			
	Roof Special Girder	2	1				
				Job Reference (optional)			
	Spring Hills, KS - 66083,		8.630 s Au	g 30 2023 MiTek Industries, Inc. Fri Oct 27 15:15:10 2023 Page 2			
	ID:DUjzAB0GCWoOJpyMsoTzILz3uah-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f						
	Spring Hills, KS - 66083,	ID:DUjzAB0GCWo	8.630 s Au OJpyMsoT	g 30 2023 MiTek Industries, Inc. Fri Oct 27 15:15:10 2023 Page 2 zILz3uah-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f			

12) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 84 lb down and 50 lb up at 35-2-7 on top chord. The design/selection

of such connection device(s) is the responsibility of others.

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

LOAD CASE(S) Standard 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf) Vert: 1-6=-70, 6-8=-70, 8-9=-70, 9-10=-70, 10-11=-70, 2-12=-20

Concentrated Loads (lb)

Vert: 13=2(F)

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I	<u>6-0-5</u> <u>11-6-3</u> 6-0-5 <u>5-5-14</u>	17-6-0	23-5-13	24-10-7	29-10-7	33-11-12	38-0-0	
Plate Offsets (X,Y)	[2:Edge,0-3-2], [7:0-5-0,0-1-14], [10:0-2	-15,0-2-0], [13:0-3-8,0-3-0	], [16:0-3-0,0-5-0],	[18:0-3-8,0-4-	·8], [19:0-4-8,0-2-8],	[21:0-2-12,0-1-8]	+0-0	
LOADING         (psf)           TCLL         25.0           TCDL         10.0           BCLL         0.0         *           BCDL         10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr NO Code IRC2018/TPI2014	CSI. TC 0.95 BC 0.79 WB 0.97 Matrix-SH	DEFL. Vert(LL) Vert(CT) Horz(CT)	in (loc) -0.55 18-19 -0.90 18-19 0.33 12	l/defl L/d >828 240 >501 180 n/a n/a	PLATES MT20 MT18HS Weight: 24	<b>GRIP</b> 197/144 197/144 4 lb FT = 20%	
LUMBER- TOP CHORD 2x4 SI 6-7: 22 BOT CHORD 2x4 SI 12:15: WEBS 2x4 SI 8-14,1 WEDGE Left: 2x4 SP No.2	P No.2 *Except* 44 SP 2400F 2.0E P 1650F 1.5E *Except* 2x4 SP No.2, 16-19: 2x6 SP 2400F 2.0E PF No.3 *Except* 0-12,9-16,13-16: 2x4 SP No.2	E, 15-17: 2x4 SPF No.3	BRACING- TOP CHORI BOT CHORI WEBS JOINTS	D Sheath purlins D Rigid c 6-0-0 o 1 Row 2 Rows 1 Brace	ned or 1-11-5 oc purl (2-2-5 max.): 7-8. eiling directly applied c bracing: 14-15,13- at midpt s at 1/3 pts e at Jt(s): 19, 16	ins, except end vert d or 10-0-0 oc bracir 14,15-17. 5-21 7-19	icals, and 2-0-0 oc g, Except:	
REACTIONS. (siz Max H Max U Max C	te) 12=0-3-8, 2=0-3-8 Horz 2=156(LC 8) Jplift 12=-227(LC 9), 2=-201(LC 8) Grav 12=1902(LC 2), 2=1884(LC 2)							
FORCES.         (lb) - Max.           TOP CHORD         2-3=           8-9=         8-9=           BOT CHORD         13-1           18-1         18-1           WEBS         7-19           14-1         14-1	Comp./Max. Ten All forces 250 (lb) or -3357/304, 3-5=-2854/292, 5-6=-2304/29 -4775/358, 9-10=-2292/269, 10-12=-182 4=-709/0, 2-24=-333/2871, 23-24=-333/2 9=-399/2703, 17-18=-380/4670, 16-17=- =-2903/436, 19-21=-44/453, 6-19=-99/16 6=0/1113, 8-16=-44/1810, 5-23=-11/419 7=-1204/0, 18-21=-81/1768, 13-16=-92/3	less except when shown. 11, 6-7=-2337/264, 7-8=-4 4/245 2871, 21-23=-218/2493, 2 257/5495 528, 5-21=-733/229, 7-16= , 3-23=-456/133, 3-24=0/2 3033, 9-13=-1906/155, 10	280/350, D-21=0/257, -592/222, -61, 9-16=0/2338, -13=-183/2015					
NOTES- 1) Unbalanced roof liv 2) Wind: ASCE 7-16; ' Enclosed; MWFRS DOL=1.60 plate grij 3) Provide adequate d 4) All plates are MT20 5) This truss has been 6) * This truss has been	e loads have been considered for this de /ult=115mph (3-second gust) Vasd=91m (envelope) gable end zone; cantilever le o DOL=1.60 rainage to prevent water ponding. plates unless otherwise indicated. designed for a 10.0 psf bottom chord liv no designed for a live load of 20 0csf or t	sign. ph; TCDL=6.0psf; BCDL= ft and right exposed ; end e load nonconcurrent with	6.0psf; h=25ft; Ke vertical left and rig any other live load	=0.96; Cat. II; ht exposed; Li ds.	Exp C; umber	STATE S	OF MISSOL	

b) I his truss has been designed for a live load of 20.0ps on the obtain chord in all areas where a rectangle 3-b-0 tail by 2-0will 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) except (jt=lb) 12=227, 2=201.
8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and

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

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

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H	6-0-5 5-5-14	8-0-5	3-11-5	2-0-4 6-5-11	5-8-13	-
Plate Offsets (X,Y)	[2:0-3-8,Edge], [8:0-8-6,Edge], [16:0-2-	0,0-0-8]				
LOADING         (psf)           TCLL         25.0           TCDL         10.0           BCLL         0.0         *           BCDL         10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr NO Code IRC2018/TPI2014	CSI. TC 0.89 BC 0.65 WB 0.54 Matrix-SH	DEFL. in Vert(LL) -0.07 Vert(CT) -0.14 Horz(CT) 0.03	(loc) I/defl L/d 21-23 >999 240 21-23 >999 180 12 n/a n/a	PLATES MT20 MT18HS Weight: 209 lb	<b>GRIP</b> 197/144 197/144 FT = 20%
LUMBER- TOP CHORD 2x4 S BOT CHORD 2x4 S WEBS 2x4 S WEDGE Left: 2x4 SP No.2 SLIDER Right	P No.2 P No.2 PF No.3 2x4 SP No.2 2-10-11		BRACING- TOP CHORD BOT CHORD WEBS	Sheathed or 4-2-11 oc pu 2-0-0 oc purlins (10-0-0 n Rigid ceiling directly appli 1 Row at midpt	rlins, except nax.): 7-8. ed or 6-0-0 oc bracing. 5-20, 7-19, 8-19, 9-17	
REACTIONS. (si Max Max Max	ze) 2=0-3-8, 19=0-3-8, 12=Mechanical Horz 2=190(LC 8) Jplift 2=-179(LC 8), 19=-84(LC 9), 12=-1 Grav 2=1007(LC 2), 19=2218(LC 2), 12=	47(LC 9) 457(LC 22)				
FORCES.         (lb) - Max           TOP CHORD         2-3a           9-11         9-11           BOT CHORD         2-23           15-7         15-7           WEBS         5-22	. Comp./Max. Ten All forces 250 (lb) o 1570/274, 3-5=-1021/246, 5-6=-424/22 =-607/256 =-347/1346, 21-23=-347/1346, 20-21=-2 6=-162/472, 14-15=-162/472, 11-14=-12 )=-814/225, 5-21=-7/506, 7-19=-1180/13 (	r less except when shown. 4, 6-7=-349/232, 7-8=0/49 108/881, 18-19=-304/0, 16- 12/420, 11-12=-463/150 5, 17-19=-884/170, 8-17=- 7 20, 0.72	7, 8-9=0/538, -17=-157/674, 588/95,			
<ul> <li>9-17</li> <li>NOTES-</li> <li>1) Unbalanced roof lin</li> <li>2) Wind: ASCE 7-16; Enclosed; MWFRS DOL=1.60 plate gri</li> <li>3) Provide adequate of 4) All plates are MT20</li> <li>5) This truss has been</li> <li>6) * This truss has been</li> <li>6) * This truss has been</li> <li>7) Refer to girder(s) for</li> <li>8) Provide mechanica</li> <li>2=179, 12=147.</li> </ul>	er loads have been considered for this de Vult=115mph (3-second gust) Vasd=91n (envelope) gable end zone; cantilever le p DOL=1.60 drainage to prevent water ponding. ) plates unless otherwise indicated. In designed for a 10.0 psf bottom chord life en designed for a live load of 20.0psf on bottom chord and any other members, wo or truss to truss connections. I connection (by others) of truss to bearing	r-20=0/769 asign. hph; TCDL=6.0psf; BCDL= ft and right exposed ; end re load nonconcurrent with the bottom chord in all are ith BCDL = 10.0psf. ng plate capable of withsta	6.0psf; h=25ft; Ke=0.96; vertical left and right exp any other live loads. as where a rectangle 3-6 nding 100 lb uplift at join	; Cat. II; Exp C; bosed; Lumber 6-0 tall by 2-0-0 wide ht(s) 19 except (jt=lb)	State of M	MISSOURIER

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

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



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1	6-0-5	11-6-3	18-1-9	23-5-12	25-6-0	31-11-	11	37-8-8	
F	6-0-5	5-5-14	6-7-6	5-4-3	2-0-4	6-5-1	1	5-8-13	1
Plate Offsets (X,Y)	[2:0-3-8,Edge]								
I OADING (nsf)	SPACING-	2-0-0	CSI	DEEI i	n (loc)	l/defl L	/d	PI ATES	GRIP
	Ploto Grip DOI	1 15	TC 0.77	Vort(LL) 0.0	0 21 22	>000 24		MT20	107/144
TCEL 25.0	Flate Glip DOL	- 1.10			4 04 00	>999 24		101120	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.68	Vert(CT) -0.14	4 21-22	>999 18	50		
BCLL 0.0 *	Rep Stress Inc	r NO	WB 0.92	Horz(CT) 0.0	/ 13	n/a n	/a		
BCDL 10.0	Code IRC2018	8/TPI2014	Matrix-SH					Weight: 208 lb	FT = 20%
LUMBER- TOP CHORD 2x4 SI BOT CHORD 2x4 SI WEBS 2x4 SI WEDGE Left: 2x4 SP No.2 SLIDER Right 2	P No.2 P No.2 PF No.3 2x4 SP No.2 2-10-11			BRACING- TOP CHORD BOT CHORD WEBS	Sheath 2-0-0 o Rigid ce 1 Row :	ed or 3-11-12 c purlins (6-0- eiling directly at midpt	oc purlins, e -0 max.): 6-7 applied or 6- 6-21	except 0-0 oc bracing. , 5-21, 7-20	
REACTIONS. (siz Max H Max U Max C	te) 2=0-3-8, 20=0-3-4 Horz 2=194(LC 8) Jplift 2=-181(LC 8), 20 Grav 2=1012(LC 21), 2	8, 13=Mechanical =-64(LC 8), 13=-12 20=2330(LC 2), 13:	28(LC 9) =380(LC 22)						
FORCES. (Ib) - Max.	. Comp./Max. Ten Al	l forces 250 (lb) or	less except when shown.						
TOP CHORD 2-3=	-1565/271. 3-5=-1038/	247. 5-6=-415/201	6-7=-279/223.7-8=0/693	3. 8-9=-360/279.					
9-12	=-423/198	, • • • • • • • • • • • • •	,	.,,					
BOT CHORD 2-24	346/1296 22-2434	46/1296 21-22=-2 <sup>.</sup>	5/857 20-21=-289/101 1	5-16=-100/289					
12-1	2_358/118	+0/1230, 21 22= 2	13/037, 20 21= 203/101, 1	10 10= 100/200,					
WERS 6.21	- 254/24 5 21- 946/2	20 5 22-0/500 7	21- 122/1094 7 20- 157	4/100					
WEDO 0-21 10.0	-204/04, 0-21=-040/2	.30, 3-22=0/309, 7-	27 2 22 522/162 9 16	77/502					
10-2	0=-055/222, 0-10=-042	2/230, 9-10=-209/1	37, 3-22=-322/152, 8-16=	-11/592					
NOTES									
1) Upholonood roof live	a laada haya haar arr	aidarad far this da	lan						
Onbalanced roof live	e loads have been con	ISIGERED FOR THIS DE	sign.						
2) Wind: ASCE 7-16; \	Vult=115mph (3-secon	d gust) Vasd=91m	ph; ICDL=6.0psf; BCDL=	6.0psf; h=25ft; Ke=0.96	b; Cat. II; I	Exp C;			
Enclosed; MWFRS	(envelope) gable end	zone; cantilever lef	t and right exposed ; end	vertical left and right ex	(posed; Li	umber		000	100
DOL=1.60 plate grip	p DOL=1.60							POF	MIG
<ol><li>Provide adequate d</li></ol>	Irainage to prevent wat	er ponding.						A SE	
<ol><li>This truss has been</li></ol>	designed for a 10.0 p	sf bottom chord live	e load nonconcurrent with	any other live loads.				RIV	1.5
5) * This truss has bee	en designed for a live lo	bad of 20.0psf on t	ne bottom chord in all area	as where a rectangle 3	-6-0 tall by	/ 2-0-0 wide		AS SCOT	M NON
will fit between the b	bottom chord and any	other members, wi	h BCDL = 10.0psf.					SET.	TEP Y
6) Refer to girder(s) fo	r truss to truss connec	tions.					t		
7) Provide mechanical	I connection (by others	) of truss to bearin	g plate capable of withstar	nding 100 lb uplift at joi	int(s) 20 e	xcept (jt=lb)	6		0
2=181, 13=128.	· ·			,		/	0		
8) This truss is design	ed in accordance with	the 2018 Internatio	nal Residential Code sect	tions R502.11.1 and R	302.10.2 a	and	<u> </u>	arour	X RMen)
referenced standard	d ANSI/TPI 1.	10.10					-	NOT THUR	
<ol> <li>Graphical purlin rep</li> </ol>	vesentation does not d	lonict the size or th	e orientation of the purlin	along the top and/or he	ttom chor	d		WOX PE-2001	1018807

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



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LOADING         (psf)           TCLL         25.0           TCDL         10.0           BCLL         0.0         *           BCDL         10.0	SPACING-2-0-0Plate Grip DOL1.15Lumber DOL1.15Rep Stress IncrNOCodeIRC2018/TPI2014	<b>CSI.</b> TC 0.78 BC 0.91 WB 0.83 Matrix-SH	DEFL.         in           Vert(LL)         -0.20           Vert(CT)         -0.39           Horz(CT)         0.08	(loc) l/defl 21-23 >999 21-23 >727 13 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 210 lb	<b>GRIP</b> 197/144 FT = 20%
LUMBER- TOP CHORD       2x4 SP No.2 *Except* 4-6: 2x4 SP 1650F 1.5E       BRACING- TOP CHORD       TOP CHORD       Sheathed or 3-8-4 oc purlins. BOT CHORD       BOT CHORD       Rigid ceiling directly applied or 6-0-0 oc bracing.         BOT CHORD       2x4 SP No.2       WEBS       1 Row at midpt       6-21, 5-21, 7-20         WEBS       2x4 SP No.3       WEBS       1 Row at midpt       6-21, 5-21, 7-20         WEDGE       Edf: 2x4 SP No.2       SLIDER       Right 2x4 SP No.2 2-10-11         REACTIONS.       (size)       2=0-3-8, 20=0-3-8, 13=Mechanical Max Horz       2=211(LC 8) Max Horz       2=211(LC 8) Max Horz       2=0.989(1 C 9), 12 - 134(1 C 9)							
FORCES. (lb) - Max. Max C FORCES. (lb) - Max. TOP CHORD 2-3= BOT CHORD 2-24: 12-12 WEBS 6-21: 18-20 8-16:	IDI2 2=211(LC 8) Jplift 2=-183(LC 8), 20=-88(LC 8), 13=-1: 3rav 2=1005(LC 21), 20=2285(LC 2), 13 Comp./Max. Ten All forces 250 (lb) or -1540/269, 3-5=-1028/263, 5-6=-251/213 =-359/1267, 23-24=-359/1267, 21-23=-2 5=-56/253, 12-13=-373/121 =-392/0, 5-21=-990/288, 5-23=0/513, 7-2 0=-613/177, 8-18=-560/197, 9-16=-291/1 =-90/628	31(LC 9) =394(LC 22) less except when shown. , 7-8=0/650, 8-9=-398/287, 9- 53/862, 20-21=-513/74, 15-16 21=-60/1306, 7-20=-1664/104, 51, 3-23=-497/122, 3-24=0/25	12=-450/200 =-102/311, 66,				
NOTES- 1) Unbalanced roof live 2) Wind: ASCE 7-16; \ Enclosed; MWFRS DOL=1.60 plate grip	e loads have been considered for this de /ult=115mph (3-second gust) Vasd=91m (envelope) gable end zone; cantilever let o DOL=1.60	sign. ph; TCDL=6.0psf; BCDL=6.0p t and right exposed ; end vert	sf; h=25ft; Ke=0.96; cal left and right exp	; Cat. II; Exp C; posed; Lumber		STE OF	MISSO

- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 20 except (jt=lb) 2=183, 13=131.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



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F			37-8-8 37-8-8		
Plate Offsets (X,Y)	[2:0-3-8,Edge], [30:0-2-8,0-3-0], [37:0-2	-8,0-3-0]			
LOADING (psf) TCLL 25.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING-2-0-0Plate Grip DOL1.15Lumber DOL1.15Rep Stress IncrNOCode IRC2018/TPI2014	CSI. TC 0.09 BC 0.06 WB 0.15 Matrix-SH	DEFL.         ir           Vert(LL)         -0.00           Vert(CT)         -0.00           Horz(CT)         0.00	i (loc) l/defl L/d 1 n/r 120 1 n/r 90 24 n/a n/a	PLATES         GRIP           MT20         197/144           Weight: 235 lb         FT = 20%
LUMBER- TOP CHORD 2x4 S BOT CHORD 2x4 S WEBS 2x4 S OTHERS 2x4 S	P No.2 P No.2 PF No.3 PF No.3		BRACING- TOP CHORD BOT CHORD WEBS	Sheathed or 6-0-0 oc purlins, Rigid ceiling directly applied of 1 Row at midpt 1	except end verticals. r 10-0-0 oc bracing. 3-33, 12-34, 11-35, 14-32, 15-31

### WEDGE

Left: 2x4 SP No.2

- REACTIONS. All bearings 37-8-8. (lb) - Max Horz 2=186(LC 8)
  - Max Uplift All uplift 100 lb or less at joint(s) 34, 35, 36, 37, 38, 39, 40, 41, 42, 32, 31, 30, 29, 28, 27, 26, 2 except 25=-102(LC 9)
  - Max Grav All reactions 250 lb or less at joint(s) 24, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 32, 31, 30, 29, 28, 27, 26, 25, 2

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

TOP CHORD 10-11=-67/274, 11-12=-56/300, 12-13=-49/319, 13-14=-48/311, 14-15=-44/273

#### NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Ke=0.96; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) All plates are 1.5x4 MT20 unless otherwise indicated.
- 5) Gable requires continuous bottom chord bearing.
- 6) Gable studs spaced at 2-0-0 oc.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 34, 35, 36, 37, 38, 39, 40, 41, 42, 32, 31, 30, 29, 28, 27, 26, 2 except (jt=lb) 25=102.
- 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.



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⊢	6-0-5	11-6-3	20-1-12	23-5-12	25-6-0	31-5-8	31-11-11	37-8-8	
Plate Offsets (X,Y)	[2:0-3-8,Edge], [12:0-4-3	Edge]	0-7-9	3-4-0	2-0-4	5-11-0	0-0-3	5-6-13	
LOADING         (psf)           TCLL         25.0           TCDL         10.0           BCLL         0.0           BCDL         10.0	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr Code IRC2018/TI	2-0-0 1.15 1.15 NO PI2014	<b>CSI.</b> TC 0.78 BC 0.80 WB 0.81 Matrix-SH	DEFL. Vert(LL) - Vert(CT) - Horz(CT)	in (loc) 0.19 18-19 0.35 18-19 0.05 12	l/defl L/a >999 240 >804 180 n/a n/a	d ) ) a	PLATES MT20 Weight: 206 lb	<b>GRIP</b> 197/144 FT = 20%
LUMBER- TOP CHORD 2x4 SF 4-6: 2x BOT CHORD 2x4 SF 14-16: WEBS 2x4 SF WEDGE Left: 2x4 SP No.2 SLIDER Right 2	2 No.2 *Except* 4 SP 1650F 1.5E 2 No.2 *Except* 2x4 SPF No.3 2F No.3 2x4 SP No.2 3-1-13			BRACING- TOP CHORD BOT CHORD WEBS	Sheath Rigid ce 1 Row a	ed or 3-8-2 oc eiling directly a at midpt	purlins. Ipplied or 6- 6-18,	0-0 oc bracing. 5-18, 7-17	
REACTIONS. (siz Max H Max U Max G	e) 2=0-3-8, 12=Mechar lorz 2=204(LC 8) lplift 2=-185(LC 8), 12=-1 Grav 2=1006(LC 21), 12=-	iical, 17=0-3-8 38(LC 9), 17=-8 409(LC 22), 17:	34(LC 8) =2285(LC 2)						
FORCES.         (lb) - Max.           TOP CHORD         2-3=:           10-12           BOT CHORD         2-21:           WEBS         6-18:           5-19:	Comp./Max. Ten All foi 1534/279, 3-5=-1039/260 2=-485/217 =-360/1259, 19-21=-360/1 =-389/0, 5-18=-1008/279, =0/532, 7-18=-59/1296, 1	rces 250 (lb) or ), 5-6=-252/221  259, 18-19=-24  7-17=-1660/10  0-13=-314/162,	less except when shown. , 7-8=0/653, 8-10=-429/30 44/871, 17-18=-508/77, 12 5, 15-17=-608/178, 8-15=- 3-19=-464/134, 8-13=-10	8, -13=-106/334 -557/194, 5/658					
<ul> <li>NOTES-</li> <li>1) Unbalanced roof live</li> <li>2) Wind: ASCE 7-16; M Enclosed; MWFRS DOL=1.60 plate grip</li> <li>3) This truss has been will fit between the b</li> <li>5) Refer to girder(s) for</li> <li>6) Provide mechanical 2=185, 12=138.</li> <li>7) This truss is designer referenced standard</li> </ul>	e loads have been consid /ult=115mph (3-second g (envelope) gable end zon o DOL=1.60 designed for a 10.0 psf b in designed for a live load bottom chord and any other r truss to truss connection connection (by others) of ed in accordance with the I ANSI/TPI 1.	ered for this de- ust) Vasd=91m e; cantilever lef ottom chord live of 20.0psf on ti er members, wi s. truss to bearin 2018 Internatic	sign. ph; TCDL=6.0psf; BCDL=6 t and right exposed ; end v e load nonconcurrent with i he bottom chord in all area th BCDL = 10.0psf. g plate capable of withstan onal Residential Code secti	6.0psf; h=25ft; Ke= rertical left and righ any other live loads s where a rectangl iding 100 lb uplift a tons R502.11.1 and	0.96; Cat. II; E tt exposed; Lu s. e 3-6-0 tall by t joint(s) 17 e: d R802.10.2 a	Exp C; imber 2-0-0 wide xcept (jt=lb) ind	ý	STATE OF SCOT	MISSOLUT MISSOLUT MER Serven

HESSIONAL ET October 30,2023

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WEBS

1 Row at midpt

WEBS

WEDGE Left: 2x4 SP No.2

SLIDER Right 2x4 SP No.2 3-1-13

2x4 SPF No.3

REACTIONS. (size) 12=Mechanical, 2=0-3-8, 17=0-3-8 Max Horz 2=187(LC 8) Max Uplift 12=-136(LC 9), 2=-183(LC 8), 17=-59(LC 8) Max Grav 12=392(LC 22), 2=1011(LC 21), 17=2336(LC 2)

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

 TOP CHORD
 2-3=-1564/275, 3-5=-1037/251, 5-6=-414/205, 6-7=-277/227, 7-8=0/701, 8-9=-374/294, 9-12=-448/212

 BOT CHORD
 2-21=-342/1294
 18-19=-212/855
 17-18=-291/105
 12-13=-101/301

 
 BOT CHORD
 2-21=-342/1294, 19-21=-342/1294, 18-19=-212/855, 17-18=-291/105, 12-13=-101/301

 WEBS
 6-18=-254/33, 5-18=-846/230, 5-19=0/510, 7-18=-120/1085, 15-17=-660/224, 8-15=-648/238, 7-17=-1577/95, 9-13=-276/140, 3-19=-523/151, 8-13=-82/606

#### NOTES-

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

2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Ke=0.96; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60

- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 6) Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 17 except (jt=lb) 12=136, 2=183.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



6-18, 5-18, 7-17

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#### 13-6-4 13-6-4

Plate Off	sets (X,Y)	[2:0-2-12,0-0-1], [12:0-2-12,0-2-1]		
LOADIN	G (psf)	<b>SPACING-</b> 2-0-0	CSI.	DEFL. in (loc) I/defl L/d PLATES GRIP
TCLL	25.0	Plate Grip DOL 1.15	TC 0.07	Vert(LL) -0.00 12 n/r 120 MT20 197/144
TCDL	10.0	Lumber DOL 1.15	BC 0.02	Vert(CT) -0.00 13 n/r 90
BCLL	0.0 *	Rep Stress Incr NO	WB 0.05	Horz(CT) 0.00 12 n/a n/a
BCDL	10.0	Code IRC2018/TPI2014	Matrix-SH	Weight: 80 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

Sheathed or 6-0-0 oc purlins.

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

#### LUMBER-

2x4 SP No.2 TOP CHORD BOT CHORD 2x4 SP No.2 OTHERS 2x4 SPF No.3 SLIDER

Left 2x4 SP No.2 1-6-15, Right 2x4 SP No.2 1-6-14

REACTIONS.

All bearings 13-6-4. Max Horz 2=129(LC 7) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 2, 12, 19, 20, 21, 22, 17, 16, 15, 14 Max Grav All reactions 250 lb or less at joint(s) 2, 12, 18, 19, 20, 21, 22, 17, 16, 15, 14

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

#### NOTES-

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

- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Ke=0.96; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) All plates are 1.5x4 MT20 unless otherwise indicated.
- 5) Gable requires continuous bottom chord bearing.
- Gable studs spaced at 1-4-0 oc.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 12, 19, 20, 21, 22, 17, 16, 15, 14.
- 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.





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#### RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVEEOPMENT SERVICES LEE'S SUMMET MISSOURS, 11/20/2023 4:55:48



7x8 =

1 Brace at Jt(s): 14, 16

		6-9-2 6-9-2		3-6-4 -9-2	
Plate Offsets (X,Y)	[2:0-3-13,0-0-9], [11:Edge,0-1-8]				
LOADING         (psf)           TCLL         25.0           TCDL         10.0           BCLL         0.0           BCDL         10.0	SPACING-2-0-0Plate Grip DOL1.15Lumber DOL1.15Rep Stress IncrNOCode IRC2018/TPI2014	<b>CSI.</b> TC 0.76 BC 0.45 WB 0.54 Matrix-SH	DEFL.         ir           Vert(LL)         0.06           Vert(CT)         -0.10           Horz(CT)         0.01	n (loc) l/defl L/d 5 2-12 >999 240 2-12 >999 180 11 n/a n/a	PLATES         GRIP           MT20         197/144           Weight: 97 lb         FT = 20%
LUMBER- TOP CHORD 2x4 S BOT CHORD 2x4 S WEBS 2x4 S	P No.2 P No.2 PF No.3		BRACING- TOP CHORD BOT CHORD WEBS	Sheathed or 6-0-0 oc purlin: Rigid ceiling directly applied 1 Row at midot	s, except end verticals. l or 10-0-0 oc bracing. 10-11

JOINTS

1.5x4 ||

 WEBS
 2X4 SPF No.3

 OTHERS
 2x4 SPF No.3

 SLIDER
 Left 2x4 SP No.2 4-0-2

REACTIONS. (size) 11=0-3-8, 2=0-3-8 Max Horz 2=361(LC 5) Max Uplift 11=-167(LC 8), 2=-58(LC 8) Max Grav 11=645(LC 15), 2=668(LC 1)

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

 TOP CHORD
 2-4=-696/39, 11-13=-560/210

 BOT CHORD
 2-12=-130/537, 11-12=-130/537

 WEBS
 4-12=0/283, 4-17=-591/236, 16-17=-587/224, 15-16=-622/247, 14-15=-625/255, 13-14=-657/249

#### NOTES-

 Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Ke=0.96; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60

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

3) Gable studs spaced at 1-4-0 oc.

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

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

6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2 except (jt=lb) 11=167.

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



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#### RELEASE FOR CONSTRUCTION **AS NOTED ON PLANS REVIEW** DEVELOPMENT SERVICES LEE'S SUMMET POMSSOU, R.S., 11/20/2023 4:55:49



BCDL	10.0	Code IRC2018/TPI2014	Matrix-SH			Weight: 220 lb	FT = 2
LUMBER-				BRACING-		·	
TOP CHOP	RD 2x4 SP	No.2		TOP CHORD	Sheathed or 6-0-0 oc	purlins, except end verticals	i.
BOT CHOF	RD 2x6 SP	'F No.2 *Except*		BOT CHORD	Rigid ceiling directly a	pplied or 10-0-0 oc bracing,	Except:
	2-12: 1	1/2" x 5 1/2" 2.0E Microllam® LVL			6-0-0 oc bracing: 8-9.		
WEBS	2x4 SP	'F No.3 *Except*		WEBS	1 Row at midpt	6-7	
	6-7: 2x	6 SPF No.2					
WEDGE							

Left: 2x4 SP No.2

Plate Offsets (X,Y)--

25.0

10.0

0.0

LOADING (psf)

TCLL

TCDL

BCLL

**RE** 

CTIONS.	(size)	7=0-3-8, 1=0-3-8
	Max Horz	1=352(LC 5)
	Max Uplift	7=-647(LC 8), 1=-460(LC 8)
	Max Grav	7=2758(LC 1), 1=2000(LC 1

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

TOP CHORD 1-2=-2920/702, 2-3=-2290/567, 3-5=-783/200, 5-6=-563/193, 6-7=-2376/564

- BOT CHORD 1-12=-654/2070, 11-12=-125/551, 2-11=-208/870, 10-11=-1612/4970, 9-10=-574/1841, 7-8=-124/476
- WEBS 2-10=-3147/1114, 3-10=-543/1765, 3-9=-1815/653, 7-9=-572/250, 6-9=-615/2571

#### NOTES-

- 1) 2-ply truss to be connected together with 10d (0.120"x3") nails as follows:
- Top chords connected as follows: 2x4 1 row at 0-9-0 oc, 2x6 2 rows staggered at 0-9-0 oc. Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
- Webs connected as follows: 2x4 1 row at 0-9-0 oc.
- 2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- 3) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Ke=0.96; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide 5) will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 7=647, 1=460.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 8) Use Simpson Strong-Tie LUS26 (4-10d Girder, 3-10d Truss, Single Ply Girder) or equivalent spaced at 4-0-0 oc max. starting at 1-6-12 from the left end to 9-6-12 to connect truss(es) to front face of bottom chord.
- 9) Use Simpson Strong-Tie LUS24 (4-10d Girder, 2-10d Truss, Single Ply Girder) or equivalent at 5-6-12 from the left end to connect truss(es) to front face of bottom chord, skewed 0.0 deg.to the right, sloping 0.0 deg. down. Co)tiniled on bages where hanger is in contact with lumber.

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AS	NOTED ON PLANS	REVIEW
- 1	DEVEROPMENT SER	
	EE'S SUMMIT. MIS	SOUR
		migim, KS),
1	1/20/2023 4:5	5:49

	Truss Type	Qty	Ply	Roof	
					l61698994
	Monopitch Girder	1	2		
			2	Job Reference (optional)	
g Hills,	KS - 66083,	8	8.630 s Au	g 30 2023 MiTek Industries, Inc. Fri Oct 27 15:15:47 2023	Page 2
-	ID:DUjzAB0GCWoOJpyMsoTzILz3uah-RfC?PsB70Hq3NSqPqnL8w3uITXbGKWrCDoi7J4zJC?f				

11) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1590 lb down and 208 lb up at 11-8-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

#### LOAD CASE(S) Standard

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

Uniform Loads (plf) Vert: 1-6=-70, 1-12=-20, 9-11=-20, 7-8=-20

Concentrated Loads (lb)

Vert: 10=-389(F) 9=-1537(F) 13=-449(F) 14=-439(F) 15=-372(F) 16=-389(F)

Sprin

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#### RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMET POMSSOU, R.S., 11/20/2023 4:55:49







BOT CHORD

WEBS

			10-0-4				
Plate Offsets (X,Y)	[2:0-2-12,0-0-1], [3:0-2-12,0-3-0]						
LOADING         (psf)           TCLL         25.0           TCDL         10.0           BCLL         0.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr NO	CSI. TC 0.63 BC 0.21 WB 0.12	DEFL. Vert(LL) Vert(CT) Horz(CT)	in (loc 0.00 -0.00 -0.00 1	c) l/defl 1 n/r 1 n/r 3 n/a	L/d 120 80 n/a	PLATES MT20
BCDL 10.0	Code IRC2018/TPI2014	Matrix-SH					Weight: 108 lb
LUMBER- TOP CHORD 2x4 S	SP No.2		BRACING- TOP CHORI	D She	athed or 6-	0-0 oc purlins	s, except end verticals.

TOP BOT CHORD 2x4 SP No.2

WEBS 2x4 SPF No.3 OTHERS 2x4 SPF No.3 SLIDER Left 2x4 SP No.2 1-8-4

REACTIONS. All bearings 13-6-4. (lb) -

Max Horz 2=361(LC 5) Max Uplift All uplift 100 lb or less at joint(s) 13, 2, 14, 15, 16, 17, 18, 19, 20, 21, 22 Max Grav All reactions 250 lb or less at joint(s) 13, 2, 14, 15, 16, 17, 18, 19, 20, 21, 22

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

TOP CHORD 2-3=-347/216, 3-4=-316/204, 4-5=-270/171

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Ke=0.96; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- All plates are 1.5x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- 5) Gable studs spaced at 1-4-0 oc.
- 6) 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 7) 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) 13, 2, 14, 15, 16, 17, 18, 19, 20, 21, 22.
- 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.



12-13, 11-14

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

1 Row at midpt

GRIP

197/144

FT = 20%

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## RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE: SUMMUT PM SSQ H, Rb, 11/20/2023 4:55:49

Plate Offsets (X,Y)-- [1:0-5-8,Edge], [7:0-2-12,0-4-4]



14

HUS26

6

4x6 =

LUS24 LUS24 LUS24

11

Ø

3x10 ||

-

9

LUS26

10

8

3x4 ||

4-6-1	8-9-9	13-6-4
4-6-1	4-3-9	4-8-11

12

LUS24 6x6 =

7 13

LOADING         (psf)           TCLL         25.0           TCDL         10.0           BCLL         0.0           BCDL         10.0	SPACING-2-0-0Plate Grip DOL1.15Lumber DOL1.15Rep Stress IncrNOCode IRC2018/TPI2014	CSI. TC 0.40 BC 0.92 WB 0.57 Matrix-SH	DEFL. ir Vert(LL) -0.05 Vert(CT) -0.09 Horz(CT) 0.01	i (loc) l/defl 6-7 >999 6-7 >999 6 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 167 lb	<b>GRIP</b> 197/144 FT = 20%		
LUMBER- TOP CHORD 2x4 SF BOT CHORD 2x6 SF WEBS 2x4 SF WEDGE Left: 2x4 SP No.2	P No.2 PF No.2 PF No.3		BRACING- TOP CHORD BOT CHORD WEBS	Sheathed or 6-0 Rigid ceiling dire 1 Row at midpt	)-0 oc purlins, exc ectly applied or 10 5-6	ept end verticals. -0-0 oc bracing.			
REACTIONS. (siz Max H Max U Max G	e) 6=0-3-8, 1=0-3-8 orz 1=354(LC 24) plift 6=-629(LC 8), 1=-450(LC 8) rav 6=2707(LC 1), 1=2016(LC 1)								
FORCES. (lb) - Max. Comp./Max. Ten All forces 250 (lb) or less except when shown.         TOP CHORD       1-2=-2548/604, 2-4=-1606/369         BOT CHORD       1-8=-600/1983, 7-8=-600/1983, 6-7=-365/1263         WEBS       2-8=-269/879, 2-7=-909/381, 4-7=-580/2210, 4-6=-2095/635									
<ul> <li>WEBS 2-8=269/879, 2-7=-909/381, 4-7=-580/2210, 4-6=-2095/635</li> <li>NOTES- <ol> <li>2.9 JP truss to be connected together with 100 (0.120"x3") nails as follows:</li> <li>Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.</li> <li>Bottom chords connected as follows: 2x4 - 1 row at 0-9-0 cc.</li> <li>2.4 Je add are considered equally applied to all piles, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.</li> <li>3. Winch ASC 7-16; VuH=115mph (3-second gust ) Vasd=91mph; TOLD=6.0psf; hE=C35f; KE=O.96; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60</li> <li>3. Yinis truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.</li> <li>5. * This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.</li> <li>6. Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except ([t=lb) 6=629, 1=450.</li> <li>7. This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TP1 1.</li> <li>8. Use Simpson Strong-Tie LUS26 (4-10d Girder, 3-10d Truss, Single Ply Girder) or equivalent at 1-6-12 from the left end to connect truss(es) to back face of bottom chord.</li> <li>9. Use Simpson Strong-Tie LUS26 (14-10d Girder, 2-10d Truss, Single Ply Girder) or equivalent at 11-6-12 from the left end to a -6-12 to connect truss(es) to back face of bottom chord.</li> <li>10. Use Simpson Strong-Tie LUS26 (14-10d Girder, 6-10d Truss, Single Ply Girder) or equivalent at 11-6-12 from the left end to connect truss(es) to back face of bottom chord.</li> <li>11. Fill all nail holes where hanger is in contact with lumber.</li> </ol></li></ul>									
LOAD CASE(S) Stan WARNING - Verify Design valid for use o a truss system. Befor building design. Brac is always required for fabrication, storage, d and BCSI Building C	dard design parameters and READ NOTES ON THIS A hy with MITek® connectors. This design is based of use, the building designer must verify the application ing indicated is to prevent buckling of individual trus stability and to prevent collapse with possible perse elivery, erection and bracing of trusses and truss sy omponent Safety Information available from th	ND INCLUDED MITEK REFERENT Inly upon parameters shown, an illity of design parameters and p s web and/or chord members or onal injury and property damage stretms, see ANS/TPI Quality a Structural Building Component	NCE PAGE MII-7473 rev. 1/2/2/ d is for an individual building cr oroperly incorporate this design only. Additional temporary and p For general guidance regardi ( Criteria, and DSB-22 availabl t Association (www.sbcscompo	23 BEFORE USE. omponent, not into the overall bermanent bracing ng the e from Truss Plate Ins nents.com)	titute (www.tpinst.org)	16023 S Cheste 314.434.12	Wingley Ridge Rd. Wingley Ridge Rd. Wifield, MO 63017 200 / MITek-US.com		

RE	LEASE FOR CONST	RUCTION
AS	NOTED ON PLANS	REVIEW
	DEVELOPMENT SER	WICES
	Fremier Building Supply (Sp	inghil, KS),
1	1/20/2023 4:5	55:49

	Truss Type	Qty	Ply	Roof	
					161698996
	Monopitch Girder	1	2	Job Reference (optional)	
Spring Hills,	KS - 66083,		8.630 s Au	g 30 2023 MiTek Industries, Inc. Fri Oct 27 15:15:49 2023	Page 2

ID:DUjzAB0GCWoOJpyMsoTzILz3uah-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

LOAD CASE(S) Standard

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

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

Concentrated Loads (lb)

Vert: 9=-449(B) 10=-437(B) 11=-360(B) 12=-374(B) 13=-374(B) 14=-1537(B)

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and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcscomponent.com)

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and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcscomponents.com)

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## RELEASE FOR CONSTRUCTION **AS NOTED ON PLANS REVIEW** DEVELOPMENT SERVICES LEE'S SUMMUT PM SS GHIRE), 1/20/2023 4:55:49 1

	Truss Type	Qty	Ply	Roof	
					l61698999
	ROOF SPECIAL GIRDER	2	2		
			~	Job Reference (optional)	
Spring Hills,	KS - 66083,		8.630 s Au	g 30 2023 MiTek Industries, Inc. Fri Oct 27 15:15:54 2023	Page 2
	ID:DUjzA	B0GCWo	OJpyMsoT:	zILz3uah-RfC?PsB70Hq3NSqPqnL8w3uITXbGKWrCDoi7J	J4zJC?f

11) Use Simpson Strong-Tie LUS26 (4-10d Girder, 3-10d Truss, Single Ply Girder) or equivalent at 11-11-8 from the left end to connect truss(es) to back face of bottom chord.

12) Use Simpson Strong-Tie HUS26 (14-10d Girder, 6-10d Truss, Single Ply Girder) or equivalent at 13-11-8 from the left end to connect truss(es) to back face of bottom

chord. 13) Use Simpson Strong-Tie HUS26 (14-10d Girder, 4-10d Truss) or equivalent spaced at 2-0-0 oc max. starting at 15-11-8 from the left end to 17-11-8 to connect truss(es)

to back face of bottom chord. 14) Fill all nail holes where hanger is in contact with lumber.

15) "NAILED" indicates 3-10d Nails (0.148" x 3") toe-nails per NDS guidelines.

## LOAD CASE(S) Standard

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

Vert: 1-2=-70, 2-4=-70, 4-6=-70, 1-14=-20, 2-11=-20, 7-9=-20

Concentrated Loads (lb)

Vert: 14=-320(B) 15=-80(B) 16=-309(B) 17=-271(B) 18=-215(B) 19=-399(B) 20=-1531(B) 23=-1534(B) 24=-1534(B)



## RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVECOPMENT SERVICES LEE'S SUMMSTRUCES 11/20/2023 4:55:49



3x4 =

BRACING-

TOP CHORD

BOT CHORD

1-2-13

Sheathed or 1-2-13 oc purlins.

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

		Г	1-2-4		1		
LOADING (psf)         SPACING- Plate Grip DOL         2-0-0         CSI.           TCLL         25.0         Plate Grip DOL         1.15         TC           TCDL         10.0         Lumber DOL         1.15         BC           BCLL         0.0 *         Rep Stress Incr         NO         WB           BCDL         10.0         Code IBC2018/TPI2014         Matrix-	0.22 Vert 0.01 Vert 0.00 Horz	FL.         in           rt(LL)         -0.00           rt(CT)         -0.00           rz(CT)         -0.00	(loc) 2 2 3	l/defl >999 >999 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 7 lb	<b>GRIP</b> 197/144 FT = 20%

LUMBER-

TOP CHORD2x4 SP No.2BOT CHORD2x6 SPF No.2

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

Max Horz 2=42(LC 8)

Max Uplift 3=-32(LC 1), 2=-83(LC 4)

Max Grav 3=15(LC 4), 2=236(LC 1), 4=24(LC 3)

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

## NOTES-

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Ke=0.96; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.

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

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





# RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVEEOPMENT SERVICES LEE & SUMMATPHISSONRES, 11/20/2023 4:55:49



		2-10-5									
LOADING	i (psf)	<b>SPACING-</b> 2-0-0	CSI.	DEFL. in (loc) I/defl L/d	PLATES GRIP						
TCLL	25.0	Plate Grip DOL 1.15	TC 0.26	Vert(LL) -0.00 4-5 >999 240	MT20 197/144						
TCDL	10.0	Lumber DOL 1.15	BC 0.09	Vert(CT) -0.00 4-5 >999 180							
BCLL	0.0 *	Rep Stress Incr NO	WB 0.00	Horz(CT) -0.02 3 n/a n/a							
BCDL	10.0	Code IRC2018/TPI2014	Matrix-R		Weight: 13 lb $FT = 20\%$						

## LUMBER-

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

BRACING-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=73(LC 5) Max Uplift 5=-51(LC 4), 3=-46(LC 8), 4=-2(LC 5) Max Grav 5=274(LC 1), 3=63(LC 1), 4=49(LC 3)

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

### NOTES-

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Ke=0.96; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.

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

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







LOADING         (psf)           TCLL         25.0           TCDL         10.0           BCLL         0.0         *           BCDL         10.0	SPACING- 5-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr NO Code IRC2018/TPI2014	CSI. TC 0.39 BC 0.09 WB 0.12 Matrix-P	DEFL. ii Vert(LL) -0.00 Vert(CT) 0.00 Horz(CT) -0.00	n (loc) 0 1 0 1 0 6	l/defl n/r n/r n/a	L/d 120 80 n/a	PLATES MT20 Weight: 26 lb	<b>GRIP</b> 197/144 FT = 20%
	PNo 2		BRACING-	2004		ovcont onc	Vorticals	

TOP CHORD	2x4 SP No.2	TOP CHORD	2-0-0 oc purlins, except end verticals
BOT CHORD	2x6 SPF No.2		(Switched from sheeted: Spacing > 2-8-0).
WEBS	2x4 SPF No.3	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
OTHERS	2x4 SPF No.3		

REACTIONS. All bearings 5-11-8.

(lb) - Max Horz 2=231(LC 5)

Max Uplift All uplift 100 lb or less at joint(s) 6, 7 except 2=-126(LC 4), 8=-157(LC 8) Max Grav All reactions 250 lb or less at joint(s) 6, 7 except 2=491(LC 1), 8=716(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. WEBS 3-8=-543/261

### NOTES-

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Ke=0.96; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 3) Gable requires continuous bottom chord bearing.
- 4) Gable studs spaced at 1-4-0 oc.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6, 7 except (jt=lb) 2=126, 8=157.
- 8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



e Institute (www.tpinst.org) Mittek-US.com



		1			0-11-0					1	
		1			5-11-8						
Plate Offsets (X,Y)	[4:Edge,0-2-0]										
LOADING (psf) TCLL 25.0 TCDL 10.0 BCLL 0.0 *	SPACING- Plate Grip DOL Lumber DOL Rep Stress Ipcr	2-0-0 1.15 1.15 NO	CSI. TC BC WB	0.80 0.16 0.00	DEFL. Vert(LL) Vert(CT) Horz(CT)	in -0.02 -0.03	(loc) 2-4 2-4	l/defl >999 >999	L/d 240 180	PLATES MT20	<b>GRIP</b> 197/144
BCDL 10.0	Code IRC2018/T	PI2014	Matri	x-P	1012(01)	0.00	-	n/a	11/4	Weight: 23 lb	FT = 20%
LUMBER-					BRACING						

TOP CHORD

BOT CHORD

Sheathed or 5-11-8 oc purlins, except end verticals.

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

### LUMBER-

TOP CHORD 2x4 SP No.2 BOT CHORD 2x6 SPF No.2 WEBS 2x4 SPF No.3

REACTIONS. (size) 2=0-3-8, 4=0-1-0 Max Horz 2=92(LC 5)

Max Uplift 2=-84(LC 4), 4=-49(LC 8) Max Grav 2=336(LC 1), 4=248(LC 1)

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

### NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Ke=0.96; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Bearing at joint(s) 4 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 4.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 4.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



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BRACING-

BOT CHORD

LUM	BE	R-
TOD	~	

BCDL

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

10.0

VEBS 2x4 SP No.2 2x4 SPF No.3

REACTIONS. (size) 2=0-3-8, 4=0-1-0 Max Horz 2=80(LC 5) Max Uplift 2=-77(LC 4), 4=-40(LC 8) Max Grav 2=293(LC 1), 4=202(LC 1)

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

Code IRC2018/TPI2014

### NOTES-

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Ke=0.96; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.

Matrix-P

- 4) Bearing at joint(s) 4 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 4.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 4.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



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Weight: 18 lb

Sheathed or 4-11-8 oc purlins, except end verticals.

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

FT = 20%







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			3-7-8 3-7-8	3 3			-	4-11-8 1-4-0	———————————————————————————————————————	
LOADING (psf) TCLL 25.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr Code IRC2018/TPl2	2-0-0 1.15 1.15 NO 2014	CSI. TC 0.21 BC 0.06 WB 0.05 Matrix-P	DEFL. Vert(LL) Vert(CT) Horz(CT)	in -0.00 -0.01 -0.00	(loc) 2-6 2-6 5	l/defl >999 >999 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 21 lb	<b>GRIP</b> 197/144 FT = 20%

BRACING-

TOP CHORD

BOT CHORD

Sheathed or 4-11-8 oc purlins, except end verticals.

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

## LUMBER-

 TOP CHORD
 2x4 SP No.2

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

 2-6: 2x6 SPF No.2

 WEBS
 2x4 SPF No.3

BS 2x4 SPF No.3

### REACTIONS. All bearings 4-8-0. (lb) - Max Horz 2=70(LC state)

 Max Horz 2=70(LC 5) Max Uplift All uplift 100 lb or less at joint(s) 5, 2, 6

Max Grav All reactions 250 lb or less at joint(s) 5, 5, 2 except 6=274(LC 1)

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

### NOTES-

 Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Ke=0.96; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60

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

3) Gable studs spaced at 1-4-0 oc.

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

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

- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 2, 6.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



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 fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSITPH1 Quality Criteria, and DSB-22 available from Truss Plate Institute (www.tpinst.org)
 and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcscomponents.com)

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### NOTES-

 Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Ke=0.96; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60

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

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

 Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 2 except (jt=lb) 6=241.

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

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



stitute (www.tpinst.org) Stitute (wwww.tpinst.org) Stitute (www.tpinst.org) Stitute (www.tpinst.







4-8-8 17-4-15 12-8-7 4-8-8

		100	12 0 1	
Plate Offsets (X,Y)	[10:0-3-9,Edge]			
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d	PLATES GRIP
TCLL 25.0	Plate Grip DOL 1.15	TC 0.11	Vert(LL) n/a - n/a 999	MT20 197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.07	Vert(CT) n/a - n/a 999	
BCLL 0.0 *	Rep Stress Incr NO	WB 0.05	Horz(CT) -0.01 10 n/a n/a	
BCDL 10.0	Code IRC2018/TPI2014	Matrix-SH		Weight: 94 lb $FT = 20\%$

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

TOP CHORD BOT CHORD

Sheathed or 6-0-0 oc purlins. Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 12-14.

4-9-1

### REACTIONS. All bearings 17-4-15.

(lb) -Max Horz 1=478(LC 8)

Max Uplift All uplift 100 lb or less at joint(s) 1, 18, 12, 14, 15 except 10=-168(LC 8), 16=-106(LC 8), 17=-103(LC 8), 19=-128(LC 8)

Max Grav All reactions 250 lb or less at joint(s) 10, 18, 11, 12, 14, 15, 16, 17 except 1=301(LC 8), 19=267(LC 15)

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

TOP CHORD 1-2=-475/207, 2-3=-358/157, 3-5=-268/128

## NOTES-

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

- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Ke=0.96; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- All plates are 1.5x4 MT20 unless otherwise indicated.
- 4) Gable requires continuous bottom chord bearing.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide 6) will fit between the bottom chord and any other members.
- 7) Bearing at joint(s) 10, 11, 12 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 18, 12, 14, 15 except (jt=lb) 10=168, 16=106, 17=103, 19=128.
- 9) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 10, 11, 12, 14, 15, 16, 17.
- 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.



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		0- <u>0-4 7-1-7</u> 0-0-4 7-1-3	9-4-9	
LOADING (psf)	<b>SPACING-</b> 2-0-0	CSI.	DEFL. in (loc) I/defl L/d	PLATES GRIP
FCLL 25.0	Plate Grip DOL 1.15	TC 0.27	Vert(LL) n/a - n/a 999	MT20 197/144
CDL 10.0	Lumber DOL 1.15	BC 0.09	Vert(CT) n/a - n/a 999	
CLL 0.0 *	Rep Stress Incr NO	WB 0.12	Horz(CT) -0.00 7 n/a n/a	
3CDL 10.0	Code IRC2018/TPI2014	Matrix-SH		Weight: 56 lb FT = 20%

10

1.5x4 ||

9 8

3x4 🥢

11

1.5x4 ||

## LUMBER-

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

REACTIONS. All bearings 9-4-5.

(lb) -Max Horz 1=275(LC 5)

Max Uplift All uplift 100 lb or less at joint(s) 9, 12, 11 except 1=-109(LC 6), 7=-139(LC 7), 10=-101(LC 8), 8=-132(LC 8)

1.5x4 || 2

> 3x4 🥢 12

> > 1.5x4 ||

0-0-4

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

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

TOP CHORD 1-2=-330/193, 2-3=-259/170

### NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Ke=0.96; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60

2) Gable requires continuous bottom chord bearing.

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

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

- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 9, 12, 11 except (it=lb) 1=109, 7=139, 10=101, 8=132.
- 6) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 7, 8.

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



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October 30,2023



TOP CHORD BOT CHORD Sheathed or 6-0-0 oc purlins, except end verticals. Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 7-8.

2-0-7

Ш 3x4

10.82 12

1.5x4 ||

## RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVECTION SERVICES LEE'S SUMMET MISSOURS, 11/20/2023 4:55:50



	<u>2-4-14</u> 2-4-14		13-11-13 11-6-15			
LOADING         (psf)           TCLL         25.0           TCDL         10.0           BCLL         0.0         *           BCDL         10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr NO Code IRC2018/TPI2014	CSI. TC 0.06 BC 0.04 WB 0.14 Matrix-SH	DEFL. Vert(LL) r Vert(CT) r Horz(CT) 0.	in (loc) n/a - n/a - 00 9	l/defl L/d n/a 999 n/a 999 n/a n/a	PLATES         GRIP           MT20         197/144           Weight: 87 lb         FT = 20%

## LUMBER-

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

BRACING-TOP CHORD BOT CHORD WEBS

2-0-0 oc purlins (10-0-0 max.): 1-8. Rigid ceiling directly applied or 6-0-0 oc bracing. 1 Row at midpt 2-15, 3-13

REACTIONS. All bearings 13-11-13.

(Ib) - Max Uplift All uplift 100 lb or less at joint(s) 1, 8, 15, 13, 12, 11, 10, 9 Max Grav All reactions 250 lb or less at joint(s) 1, 8, 16, 14, 15, 13, 12, 11, 10, 9

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

### NOTES-

 Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Ke=0.96; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60

2) Provide adequate drainage to prevent water ponding.

3) All plates are 1.5x4 MT20 unless otherwise indicated.

4) Gable requires continuous bottom chord bearing.

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

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

7) Bearing at joint(s) 1 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.

8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 8, 15, 13, 12, 11, 10, 9.

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







FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 1-2=-195/406

## NOTES-

 Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Ke=0.96; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60

2) Gable requires continuous bottom chord bearing.

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

5) Bearing at joint(s) 1 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.

- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4 except (jt=lb) 1=122, 6=218, 5=172.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.





## RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMATPO MISSON RES. 11/20/2023 4:55:50



1-5-4

Sheathed or 1-5-4 oc purlins.

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

				1-5-4		1		
LOADING TCLL	(psf) 25.0	SPACING- 2-0-0 Plate Grip DOL 1.15	<b>CSI.</b> TC 0.08	DEFL. in Vert(LL) -0.00 Vert(CT) -0.00	(loc)  , 2 >	/defl L/d •999 240	PLATES MT20	<b>GRIP</b> 197/144
BCLL BCDL	0.0 * 10.0	Rep Stress Incr NO Code IRC2018/TPI2014	WB 0.00 Matrix-P	Horz(CT) -0.00	3	n/a n/a	Weight: 7 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

## LUMBER-

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

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

Max Horz 2=44(LC 8)

Max Uplift 3=-21(LC 8), 2=-29(LC 8)

Max Grav 3=26(LC 1), 2=151(LC 1), 4=28(LC 3)

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

### NOTES-

 Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Ke=0.96; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60

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

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

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

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













		<u> </u>								
LOADING         (psf)           TCLL         25.0           TCDL         10.0           BCLL         0.0         *           BCDL         10.0	SPACING-2-0-0Plate Grip DOL1.15Lumber DOL1.15Rep Stress IncrNOCode IRC2018/TPI2014	CSI. TC 0.46 BC 0.42 WB 0.02 Matrix-P	DEFL.         in         (loc)         l/defl         L/d           Vert(LL)         -0.05         2-7         >999         240           Vert(CT)         -0.10         2-7         >673         180           Horz(CT)         0.02         5         n/a         n/a	PLATES         GRIP           MT20         197/144           Weight: 24 lb         FT = 20%						
LUMBER- TOP CHORD 2x6 SF 3-5: 2x	PF No.2 *Except* 4 SP No.2		BRACING- TOP CHORD Sheathed or 5-8-6 oc purlins, exception 2-0-0 oc purlins: 3-5.	ot						

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

BOT CHORD

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

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

Max Horz 2=44(LC 8) Max Uplift 5=-24(LC 5), 2=-27(LC 5), 6=-17(LC 5)

Max Grav 5=135(LC 22), 2=302(LC 1), 6=104(LC 22)

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

### NOTES-

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

2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Ke=0.96; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60

3) Provide adequate drainage to prevent water ponding.

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

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

- Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 2, 6.

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

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

- 10) "NAILED" indicates 3-10d skew 45 to 135 degrees (0.148" x 3") toe-nails per NDS guidelines.
- 11) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B)

### LOAD CASE(S) Standard

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

Vert: 1-3=-70, 3-5=-70, 2-6=-20 Concentrated Loads (lb) Vert: 3=30(B)





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			2-3-13		1-8-9				1-8-0	-	
LOADING         (psf)           TCLL         25.0           TCDL         10.0           BCLL         0.0         *           BCDL         10.0	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr Code IRC2018/T	2-0-0 1.15 1.15 NO PI2014	CSI. TC 0.27 BC 0.81 WB 0.04 Matrix-P	DEFL. Vert(LL) Vert(CT) Horz(CT)	in -0.09 -0.18 0.14	(loc) 5-6 5-6 4	l/defl >736 >367 n/a	L/d 240 180 n/a	PLATI MT20 Weigh	E <b>S</b> t: 23 lb	<b>GRIP</b> 197/144 FT = 20%
LUMBER-				BRACING							

TOP CHORD 2x6 SPF No.2 \*Except\* 3-4: 2x4 SP No.2 BOT CHORD 2x4 SP No.2 WEBS 2x4 SPF No.3

TOP CHORD BOT CHORD

Sheathed or 5-8-6 oc purlins, except 2-0-0 oc purlins: 3-4. Rigid ceiling directly applied or 10-0-0 oc bracing.

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

Max Horz 2=83(LC 8) Max Uplift 4=-45(LC 4), 2=-39(LC 8)

Max Grav 4=116(LC 1), 2=329(LC 1), 5=129(LC 3)

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

### NOTES-

2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Ke=0.96; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60

3) Provide adequate drainage to prevent water ponding.

- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 2.
- 8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



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<sup>1)</sup> Unbalanced roof live loads have been considered for this design.

# RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMET POMSSOU, R.S., 11/20/2023 4:55:50



				<u>3-9-13</u> 3-9-13	3			5-8-6 1-10-9				
LOADING         (psf)           TCLL         25.0           TCDL         10.0           BCLL         0.0         *           BCDL         10.0	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr Code IRC2018/TPI2	2-0-0 1.15 1.15 NO 2014	CSI. TC BC WB Matri	0.11 0.76 0.05 x-P	DEFL. Vert(LL) Vert(CT) Horz(CT)	in -0.08 -0.17 0.11	(loc) 2-6 2-6 4	l/defl >822 >396 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 25 lb	<b>GRIP</b> 197/144 FT = 20%	
LUMBER- TOP CHORD 2x6 SI	PF No.2 *Except*				BRACING- TOP CHOR	D	Sheath	ed or 5-8	8-6 oc purlir	ns, except		

LOWIDER	
TOP CHORD	2x6

3-4: 2x4 SP No.2 BOT CHORD 2x4 SP No.2 WEBS 2x4 SPF No.3

TOP CHORD BOT CHORD

Sheathed or 5-8-6 oc purlins, except 2-0-0 oc purlins: 3-4. Rigid ceiling directly applied or 10-0-0 oc bracing.

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

Max Horz 2=122(LC 8) Max Uplift 4=-25(LC 4), 2=-34(LC 8), 5=-33(LC 8) Max Grav 4=64(LC 1), 2=329(LC 1), 5=176(LC 1)

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

## NOTES-

2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Ke=0.96; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60

3) Provide adequate drainage to prevent water ponding.

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

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

- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 2, 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) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.





<sup>1)</sup> Unbalanced roof live loads have been considered for this design.

## RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVEEOPMENT SERVICES LEE & SUMMATPHISSON RES. 11/20/2023 4:55:50



purlins: 3-4.

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

		<u> </u>	<u>5-8-6</u> 5-8-6					
Plate Offsets (X,Y)	[2:0-0-4,0-0-1]		1				1	
LOADING (psf)	<b>SPACING-</b> 2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL 1.15	TC 0.41	Vert(LL) -0.	01 2-6	>999	240	MT20	197/144
CDL 10.0	Lumber DOL 1.15	BC 0.18	Vert(CT) -0.	03 2-6	>999	180		
SCLL 0.0 *	Rep Stress Incr NO	WB 0.00	Horz(CT) 0.	00 4	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014	Matrix-R					Weight: 27 lb	FT = 20%
LUMBER-		1	BRACING-					
TOP CHORD 2x6 SPI	F No.2		TOP CHORD	Sheath	ed or 5-8	B-6 oc purlins	, except end verticals	, and 2-0-0 oc

BOT CHORD

TOP CHORD2x6 SPF No.2BOT CHORD2x4 SP No.2WEBS2x4 SPF No.3

\_\_\_\_\_

REACTIONS. (size) 4=Mechanical, 2=0-3-8, 5=Mechanical Max Horz 2=149(LC 7)

Max Uplift 2=-42(LC 8), 5=-95(LC 5)

Max Grav 4=179(LC 3), 2=329(LC 1), 5=125(LC 15)

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

## NOTES-

 Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Ke=0.96; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60

2) Provide adequate drainage to prevent water ponding.

- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 5.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and
- referenced standard ANSI/TPI 1.
- 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSUTPIT Quality Criteria, and DSE-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcscomponents.com) October 30,2023





5

Sheathed or 5-8-6 oc purlins.

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

3x4 ||

						<u>5-8-6</u> 5-8-6				-1		
LOADING TCLL TCDL	(psf) 25.0 10.0	SPACING- Plate Grip DOL Lumber DOL	2-0-0 1.15 1.15	CSI. TC BC	0.21 0.38	DEFL. Vert(LL) Vert(CT)	in -0.05 -0.09	(loc) 2-6 2-6	l/defl >999 >692	L/d 240 180	PLATES MT20	<b>GRIP</b> 197/144
BCLL BCDL	0.0 * 10.0	Rep Stress Incr Code IRC2018/TF	NO 912014	WB Matrix	0.19 <-P	Horz(CT)	-0.00	4	n/a	n/a	Weight: 27 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

## LUMBER-

TOP CHORD 2x6 SPF No.2 BOT CHORD 2x4 SP No.2 WEBS 2x4 SPF No.3

REACTIONS. 4=Mechanical, 2=0-3-8, 6=Mechanical (size) Max Horz 2=170(LC 8) Max Uplift 4=-354(LC 15), 6=-355(LC 8) Max Grav 4=242(LC 8), 2=304(LC 1), 6=633(LC 15)

FORCES. (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) or less except when shown. WEBS 3-6=-574/390

## NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Ke=0.96; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60

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

3x4 =

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

5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=354, 6=355.

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









## 1-10-0

LOADIN	G (psf)	<b>SPACING-</b> 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES GRIP
TCLL	25.0	Plate Grip DOL 1.15	TC 0.12	Vert(LL) -0.00 4-5 >999 240	MT20 197/144
TCDL	10.0	Lumber DOL 1.15	BC 0.08	Vert(CT) -0.00 4-5 >999 180	
BCLL	0.0 *	Rep Stress Incr NO	WB 0.00	Horz(CT) -0.01 3 n/a n/a	
BCDL	10.0	Code IRC2018/TPI2014	Matrix-R		Weight: 9 lb FT = 20%

1-10-0

## LUMBER-

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

BRACING-TOP CHORD BOT CHORD

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

REACTIONS. (size) 5=0-3-8, 3=Mechanical, 4=Mechanical Max Horz 5=68(LC 5) Max Uplift 3=-51(LC 8), 4=-16(LC 5) Max Grav 5=173(LC 1), 3=53(LC 15), 4=37(LC 6)

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

### NOTES-

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Ke=0.96; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.

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

- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 4.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPL1.



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

2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Ke=0.96; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60

3) All plates are 1.5x4 MT20 unless otherwise indicated.

4) Gable requires continuous bottom chord bearing.

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

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

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

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



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 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 ANSITPH Quality Criteria, and DSB-22 available from Truss Plate Institute (www.tpinst.org)
 and BCSI Building Component Safety Information
 available from the Structural Building Component Association (www.sbcscomponents.com)

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2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Ke=0.96; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60

3) Gable requires continuous bottom chord bearing.

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

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

6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3, 4.

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

referenced standard ANSI/TPI 1.



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Qty

Ply

Roof

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

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

LOADING         (psf)           TCLL         25.0           TCDL         10.0           BCLL         0.0           BCDL         10.0	SPACING-2-0-0Plate Grip DOL1.15Lumber DOL1.15Rep Stress IncrNOCodeIRC2018/TPI2014	CSI. TC 0.36 BC 0.18 WB 0.12 Matrix-SH	DEFL. in Vert(LL) n/a Vert(CT) n/a Horz(CT) -0.00	(loc) - - 5	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20 Weight: 47 lb	<b>GRIP</b> 197/144 FT = 20%
			DD A OINIO					

TOP CHORD

BOT CHORD

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

REACTIONS. All bearings 10-7-2.

Max Horz 1=256(LC 5) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 1, 5 except 6=-146(LC 8), 7=-111(LC 8)

Truss Type

Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 6=513(LC 15), 7=357(LC 15)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. WEBS 3-6=-328/186

NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Ke=0.96; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60

2) Gable requires continuous bottom chord bearing.

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

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

5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 5 except (jt=lb) 6=146.7=111.

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



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

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

			1	
LOADING (psf) TCLL 25.0 TCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15	<b>CSI.</b> TC 0.36 BC 0.23	<b>DEFL.</b> in (loc) I/defl L/d Vert(LL) n/a - n/a 999 Vert(CT) n/a - n/a 999	PLATES         GRIP           MT20         197/144
BCLL 0.0 * BCDL 10.0	Rep Stress Incr NO Code IRC2018/TPI2014	WB 0.10 Matrix-SH	Horz(CT) -0.00 4 n/a n/a	Weight: 38 lb FT = 20%
LUMBER-			BRACING-	

TOP CHORD

BOT CHORD

LUMBER-

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

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

Max Horz 1=218(LC 5) Max Uplift 4=-42(LC 5), 5=-173(LC 8)

Max Grav 1=218(LC 16), 4=186(LC 15), 5=585(LC 15)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. WEBS 2-5=-370/208

NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Ke=0.96; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60

2) Gable requires continuous bottom chord bearing.

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

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

5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4 except (jt=lb) 5 = 173

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



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									1		1	
	i (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.28	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.14	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.07	Horz(CT)	-0.00	4	n/a	n/a		
BCDL	10.0	Code IRC2018/T	PI2014	Matri	x-P						Weight: 31 lb	FT = 20%
						BRACING-						

TOP CHORD

BOT CHORD

## LUMBER-

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

REACTIONS. (size) 1=7-7-2, 4=7-7-2, 5=7-7-2

Max Horz 1=179(LC 5) Max Uplift 1=-11(LC 4), 4=-38(LC 5), 5=-144(LC 8)

Max Grav 1=128(LC 16), 4=152(LC 15), 5=409(LC 15)

FORCES. (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) or less except when shown. WEBS 2-5=-321/197

### NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Ke=0.96; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60

2) Gable requires continuous bottom chord bearing.

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

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

5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 4 except (jt=lb) 5 = 144

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



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

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





LOADING (psf)	<b>SPACING-</b> 2-0-0	CSI.	DEFL. in (loc) I/defl L/d PLA	ATES GRIP
TCLL 25.0	Plate Grip DOL 1.15	TC 0.26	Vert(LL) n/a - n/a 999 MT2	20 197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.13	Vert(CT) n/a - n/a 999	
BCLL 0.0 *	Rep Stress Incr NO	WB 0.06	Horz(CT) -0.00 4 n/a n/a	
BCDL 10.0	Code IRC2018/TPI2014	Matrix-P	Wei	ght: 24 lb FT = 20%
LUMBER-	·		BRACING-	

TOP CHORD

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

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

Max Horz 1=141(LC 5) Max Uplift 1=-48(LC 6), 4=-33(LC 5), 5=-130(LC 8)

Max Grav 1=74(LC 5), 4=154(LC 15), 5=368(LC 15)

FORCES. (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) or less except when shown. 2-5=-288/177 WEBS

### NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Ke=0.96; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60

2) Gable requires continuous bottom chord bearing.

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

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

5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 4 except (jt=lb) 5 = 130

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







LOADING TCLL TCDL BCLL	(psf) 25.0 10.0 0.0 *	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr NO	CSI. TC 0.35 BC 0.18 WB 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	Code IRC2018/TPI2014	Matrix-P						Weight: 16 lb	FT = 20%

BRACING-TOP CHORD

BOT CHORD

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

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

LUMBER-

TOP CHORD 2x4 SP No 2 BOT CHORD 2x4 SP No.2

WEBS 2x4 SPF No.3

REACTIONS. (size) 1=4-7-2, 3=4-7-2 Max Horz 1=102(LC 5)

Max Uplift 1=-9(LC 8), 3=-48(LC 8) Max Grav 1=167(LC 1), 3=180(LC 15)

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

NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Ke=0.96; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60

2) Gable requires continuous bottom chord bearing.

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



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Chesterfield MO 63017 314.434.1200 / MiTek-US.com



LOADING TCLL TCDL BCU	(psf) 25.0 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Ippr	CSI. TC 0.15 BC 0.08 WB 0.00	DEFL. Vert(LL) Vert(CT) Horz(CT)	in n/a n/a	(loc) - - 3	l/defl n/a n/a	L/d 999 999	PLATES MT20	<b>GRIP</b> 197/144
BCDL	10.0	Code IRC2018/TPI2014	Matrix-P	1012(01)	-0.00	3	n/a	11/a	Weight: 11 lb	FT = 20%

LUMBER-

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

BRACING-TOP CHORD BOT CHORD

Sheathed or 3-1-8 oc purlins, except end verticals. Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. 1=3-1-2, 3=3-1-2 (size) Max Horz 1=64(LC 5) Max Uplift 1=-8(LC 8), 3=-30(LC 8) Max Grav 1=112(LC 1), 3=120(LC 15)

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

### NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Ke=0.96; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60

2) Gable requires continuous bottom chord bearing.

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







LOADING	(psf)	SPACING- 2-0	0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL 1.	.15	TC	0.02	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL 1.	.15	BC	0.01	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.00	Horz(CT)	-0.00	3	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matri	x-P						Weight: 5 lb	FT = 20%

3x4 💋

LUMBER-

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

2x4 SPF No.3

REACTIONS. (size) 1=1-7-2, 3=1-7-2 Max Horz 1=25(LC 5) Max Uplift 1=-3(LC 8), 3=-12(LC 8) Max Grav 1=45(LC 1), 3=48(LC 15)

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

NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Ke=0.96; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60

2) Gable requires continuous bottom chord bearing.

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

0-0-4

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



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1.5x4 ||

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BRACING-

TOP CHORD BOT CHORD Sheathed or 1-7-8 oc purlins, except end verticals. Rigid ceiling directly applied or 10-0-0 oc bracing.



			1									
	(psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	тс	0.27	Vert(LL)	0.00	4	n/r	120	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.15	Vert(CT)	0.00	4	n/r	80		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.07	Horz(CT)	-0.00	5	n/a	n/a		
BCDL	10.0	Code IRC2018/T	PI2014	Matri	x-P						Weight: 35 lb	FT = 20%
						DD A OINIO						
LUMBER	-					BRACING-						

TOP CHORD

BOT CHORD

## LUMBER-

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

REACTIONS. (size) 1=8-0-7, 5=8-0-7, 6=8-0-7

Max Horz 1=222(LC 5)

Max Uplift 1=-11(LC 4), 5=-104(LC 5), 6=-138(LC 8)

Max Grav 1=156(LC 16), 5=260(LC 15), 6=405(LC 15)

FORCES. (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) or less except when shown. WEBS 2-6=-313/194

### NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Ke=0.96; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60

2) Gable requires continuous bottom chord bearing.

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

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

5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1 except (jt=lb) 5=104. 6=138

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



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

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


### RELEASE FOR CONSTRUCTION **AS NOTED ON PLANS REVIEW** DEVECOPMENT SERVICES EFE Scherger 11/20/2023 4:55:50



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LOADING	(psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.20	Vert(LL)	0.00	4	n/r	120	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.13	Vert(CT)	0.00	4	n/r	80		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.06	Horz(CT)	-0.00	5	n/a	n/a		
BCDL	10.0	Code IRC2018/T	PI2014	Matri	x-P						Weight: 28 lb	FT = 20%
LUMBER-				1		BRACING-						

TOP CHORD

BOT CHORD

### LUMBER-

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

REACTIONS. (size) 1=6-6-7, 5=6-6-7, 6=6-6-7

Max Horz 1=184(LC 5) Max Uplift 1=-29(LC 6), 5=-100(LC 5), 6=-114(LC 8) Max Grav 1=93(LC 5), 5=267(LC 15), 6=340(LC 15)

FORCES. (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) or less except when shown. WEBS 2-6=-260/162

NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Ke=0.96; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60

2) Gable requires continuous bottom chord bearing.

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

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

5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1 except (jt=lb) 5=100. 6=114.

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



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

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

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LOADING	(psf)	<b>SPACING-</b> 2-0-0	CSI.	DEFL. in (loc) I/defl L/d PLATES	GRIP
TCLL	25.0	Plate Grip DOL 1.15	TC 0.41	Vert(LL) -0.00 3 n/r 120 MT20	197/144
TCDL	10.0	Lumber DOL 1.15	BC 0.26	Vert(CT) 0.01 3 n/r 80	
BCLL	0.0 *	Rep Stress Incr NO	WB 0.00	Horz(CT) -0.00 4 n/a n/a	
BCDL	10.0	Code IRC2018/TPI2014	Matrix-P	Weight: 21 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

Sheathed or 5-0-7 oc purlins, except end verticals.

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

LUMBER-

TOP CHORD 2x4 SP No.2 2x4 SP No.2 BOT CHORD

WEBS 2x4 SPF No.3

REACTIONS. 1=5-0-7, 4=5-0-7 (size) Max Horz 1=145(LC 5)

Max Uplift 4=-111(LC 8) Max Grav 1=182(LC 1), 4=315(LC 15)

FORCES. (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) or less except when shown. TOP CHORD 2-4=-272/138

### NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Ke=0.96; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60

2) Gable requires continuous bottom chord bearing.

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

5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=111.

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



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LOADING	G (psf)	SPACING- 2	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	тс	0.17	Vert(LL)	0.00	3	n/r	120	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.09	Vert(CT)	0.00	3	n/r	80		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.00	Horz(CT)	-0.00	4	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI20	014	Matrix	k-P						Weight: 15 lb	FT = 20%

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 SP No 2 2x4 SP No.2 BOT CHORD

WEBS 2x4 SPF No.3

REACTIONS. (size) 1=3-6-7, 4=3-6-7 Max Horz 1=107(LC 5) Max Uplift 4=-99(LC 8)

Max Grav 1=109(LC 16), 4=246(LC 15)

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

NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Ke=0.96; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60

2) Gable requires continuous bottom chord bearing.

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







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3x4 🥢

1.5x4 ||

	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.17	Vert(LL)	0.00	3	n/r	120	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.02	Vert(CT)	-0.00	2	n/r	80		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.00	Horz(CT)	-0.00	4	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2	2014	Matrix	k-P						Weight: 9 lb	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 SP No 2 2x4 SP No.2 BOT CHORD WEBS

2x4 SPF No.3

REACTIONS. (size) 1=2-0-7, 4=2-0-7 Max Horz 1=68(LC 5) Max Uplift 1=-10(LC 4), 4=-91(LC 8) Max Grav 1=61(LC 5), 4=205(LC 1)

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

NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Ke=0.96; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60

2) Gable requires continuous bottom chord bearing.

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









# **General Safety Notes**

## Damage or Personal Injury Failure to Follow Could Cause Property

- Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI
- Ņ Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves may require bracing, or alternative Tor I bracing should be considered.
- ω Never exceed the design loading shown and never stack materials on inadequately braced trusses.
- 4 Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.

TOP CHORD

- ςī Cut members to bear tightly against each other
- <u>о</u> Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TPI 1.
- Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI 1.

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- œ Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
- <u>ب</u> Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
- 10. Camber is a non-structural consideration and is the camber for dead load deflection responsibility of truss fabricator. General practice is to
- 11. Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
- Lumber used shall be of the species and size, and in all respects, equal to or better than that specified
- Top chords must be sheathed or purlins provided at spacing indicated on design.
- . Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
- 15. Connections not shown are the responsibility of others
- Do not cut or alter truss member or plate without prior approval of an engineer.
- 17. Install and load vertically unless indicated otherwise.
- Use of green or treated lumber may pose unacceptable project engineer before use. environmental, health or performance risks. Consult with
- 19. Review all portions of this design (front, back, words is not sufficient. and pictures) before use. Reviewing pictures alone
- 20. Design assumes manufacture in accordance with ANSI/TPI 1 Quality Criteria.
- 21. The design does not take into account any dynamic or other loads other than those expressly stated.