

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

Re: 2794082 C&H/40 OSAGE

The truss drawing(s) referenced below have been prepared by MiTek USA, Inc. under my direct supervision based on the parameters provided by Builders FirstSource (Valley Center).

Pages or sheets covered by this seal: I46163264 thru I46163316

My license renewal date for the state of Missouri is December 31, 2021.

Missouri COA: Engineering 001193



Sevier, Scott

May 18,2021

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.

,Engineer



16023 Swingley Ridge Rd Chesterfield, MO 63017

						RELEASE FOR CONSTRUCTION
Job	Truss	Truss Type	Qty	Ply	C&H/40 OSAGE	AS NOTED FOR PLAN REVIEW
						DEVELOPMENT SERVICES
2794082	A1	Roof Special Girder	1	2		
					Job Reference (optional)	
Builders FirstSource (Valle	/ Center), Valley Center, I	KS - 67147,		8.430 s Apr	20 2021 MiTek Industries, Inc.	Mon May 17 18/22 18/2021 Page 2
			ID:cHSbhP3Ybgc	v?UC2L7?e	KUz02xT-eSpdNcjD_V17Zo4L	huqJVEm28K9xkyL27HXeyA2FWJJ

NOTES-

- 11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 12) Use Simpson Strong-Tie LUS26 (4-10d Girder, 3-10d Truss, Single Ply Girder) or equivalent at 1-10-2 from the left end to connect truss(es) to back face of bottom chord, skewed 0.0 deg.to the right, sloping 0.0 deg. down.
- 13) Use Simpson Strong-Tie LUS24 (4-10d Girder, 2-10d Truss) or equivalent spaced at 2-0-0 oc max. starting at 3-10-2 from the left end to 19-10-2 to connect truss(es) to back face of bottom chord.
- 14) Use Simpson Strong-Tie LUS24 (4-10d Girder, 2-10d Truss, Single Ply Girder) or equivalent spaced at 2-2-6 oc max. starting at 23-10-2 from the left end to 28-0-8 to connect truss(es) to back face of bottom chord.
- 15) Fill all nail holes where hanger is in contact with lumber.
- 16) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 633 lb down and 101 lb up at 21-10-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
 - Vert: 1-2=-70, 2-9=-70, 11-17=-20, 10-18=-20, 10-11=-20

Concentrated Loads (lb)

Vert: 14=-633(B) 12=-633(B) 11=-633(B) 18=-634(B) 21=-633(B) 22=-633(B) 23=-633(B) 24=-633(B) 25=-633(B) 26=-633(B) 27=-633(B) 28=-633(B) 29=-633(B) 30=-640(B)



						RELEASE FOR CONSTRUCTION
Job	Truss	Truss Type	Qty	Ply	C&H/40 OSAGE	AS NOTED FOR PLAN REVIEW
2794082	A2	Roof Special	1	1	lah Deference (antional)	LEE'S SUMMIT, MISSOURI
Builders FirstSource (Valley	Center), Valley Center, K	S - 67147,	8.	430 s Apr 2	20 2021 MiTek Industries, Ir	c. Mon Man 1718/2019/021-599 17 1
F	5-1-11	ID:cHSt 10-8-7 12-10-11 16-3-4	hP3Ybgcv'	21-10-0	CUz02xT-6eN0aykrkp9_Byf.	28-0-8 28-11-0
I	5-1-11	5-6-12 ' 2-2-3 ' 3-4-9	I	5-6-12	3-1-2	3-1-6 0-10-8
	5.00 12 4x8 =					Scale = 1:59.4
	2					
4x6		21 3x4 = 3 13 12			3x6 ≈ 4 5x5 ≈ 5 11 5x12 =	x4 ≈ 6 22 7 8 9 - 5
2x4	4x8 =	4x4 = 4x8 =			10 9	⊠ + ⊖ + 5x5 =
					3x4 4x8	=
F	5-1-11 5-1-11	<u>12-10-11</u> 7-9-0 <u>1-9-3</u>	2	1-10-0 7-2-3	24-11-2	<u>28-0-8</u> 3-1-6
Plate Offsets (X,Y) [5:0	-1-4,0-1-8], [7:0-0-0,0-1-9], [§	0:0-3-8,0-2-0], [11:0-7-12,0-3-4], [12:0-3-8,0-2-	0]			
LOADING (psf) TCLL 25.0 TCDL 10.0 BCLL 0.0 BCDL 10.0	SPACING-2-0-0Plate Grip DOL1.15Lumber DOL1.15Rep Stress IncrYESCode IRC2018/TPI2014	CSI. DEFL. TC 0.73 Vert(LI BC 0.87 Vert(C WB 0.79 Horz(C Matrix-AS	ir .) -0.24 T) -0.52 T) 0.14	(loc) 11-12 11-12 7	l/defl L/d >999 240 >638 180 n/a n/a	PLATES GRIP MT20 197/144 Weight: 132 lb FT = 20%
LUMBER- TOP CHORD 2x4 SPF N BOT CHORD 2x4 SPF N 11-13: 2x4 WEBS 2x4 SPF N WEDGE	o.2 o.2 *Except* SPF 1650F 1.5E o.2	BRACI TOP C BOT C WEBS	NG- Hord Hord	Structura Rigid cei 1 Row a	al wood sheathing directly ling directly applied. t midpt 1-15, :	applied, except end verticals. 3-14, 5-12
Right: 2x4 SP No.3						
REACTIONS. (size) Max Horz Max Uplift Max Grav	15=0-3-8, 7=0-3-8 15=-284(LC 8) 15=-178(LC 13), 7=-213(LC 15=1254(LC 1), 7=1318(LC	13) 1)				
FORCES. (lb) - Max. Cor TOP CHORD 1-2=-722	np./Max. Ten All forces 250 /204, 2-3=-787/205, 3-5=-195) (lb) or less except when shown. 56/300, 5-6=-3747/558, 6-7=-2394/369,				
1-15=-12 BOT CHORD 14-15=-1	12/213 78/292. 12-14=-88/1702. 11-	12=-498/3684, 5-11=-19/650, 9-10=-77/253,				
7-9=-293	/2133 8/1000 2 14 1220/217 2 1	2 2/612 5 12 2020/419 6 0 786/127				
9-11=-22	8/1997, 6-11=-148/1339	2=-2/013, 3-12=-2020/410, 0-9=-700/127,				
 NOTES- Unbalanced roof live loa Wind: ASCE 7-16; Vult= MWFRS (envelope) gab, Interior(1) 8-1-11 to 28 & MWFRS for reactions This truss has been des Provide mechanical con 15=178, 7=213. This truss is designed in referenced standard AN This truss design require sheetrock be applied dire 	ds have been considered for 115mph (3-second gust) Vas le end zone and C-C Exterior -11-0 zone; cantilever left and shown; Lumber DOL=1.60 pi igned for a 10.0 psf bottom cl nection (by others) of truss to accordance with the 2018 In SI/TPI 1. as that a minimum of 7/16" st ectly to the bottom chord.	this design. d=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15f r(2E) 0-1-12 to 3-1-12, Interior(1) 3-1-12 to 5-1 d right exposed ; end vertical left and right exp ate grip DOL=1.60 nord live load nonconcurrent with any other liv bearing plate capable of withstanding 100 lb ternational Residential Code sections R502.1 ructural wood sheathing be applied directly to	t; Cat. II; E -11, Exteri osed;C-C f e loads. uplift at joir I.1 and R8 the top cho	xp C; Enc or(2R) 5-1 or membe nt(s) excep 02.10.2 ar	losed; -11 to 8-1-11 rs and forces of (jt=lb) nd 2" gypsum	SCOTT M. SEVIER NUMBER PE-2001018807

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601 May 18,2021





sheetrock be applied directly to the bottom chord.



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

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



May 18,2021





	1 3-5-0 ₁ 6	-3-6		15-8-1	1			25-	0-11	27-9-0	
	3-5-0 2-	-10-6		9-4-10				9-4	4-10	2-8-5	1
Plate Offsets (X,Y)	[5:0-3-0,0-3-0], [6:0-7-2	3,Edge]									
• • •											
LOADING (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC	0.62	Vert(LL)	-0.42	8-14	>782	240	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC	0.99	Vert(CT)	-0.81	8-14	>409	180		
BCLL 0.0	Rep Stress Incr	YES	WB	0.97	Horz(CT)	0.24	7	n/a	n/a		
BCDL 10.0	Code IRC2018	/TPI2014	Matrix	-AS						Weight: 146 lb	FT = 20%
LUMBER-					BRACING-						

BOT CHORD

WEBS

LUMBER-

TOP CHORD	2x4 SPF No.2 *Except*
	5-7: 2x8 SP 2400F 2.0E
BOT CHORD	2x4 SPF No.2
WEBS	2x4 SPF No.2

REACTIONS. (size) 7=0-3-8, 11=Mechanical Max Horz 11=-286(LC 8) Max Uplift 7=-194(LC 13), 11=-176(LC 13)

Max Grav 7=1240(LC 1), 11=1236(LC 1)

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

- 2-3=-763/208, 3-4=-886/202, 4-5=-2336/445, 5-6=-2288/328, 6-7=-468/95 TOP CHORD
- BOT CHORD 10-11=0/440. 8-10=-34/1317. 6-8=-183/2105
- WEBS 2-10=-176/948, 2-11=-1152/228, 5-8=-789/262, 4-10=-925/256, 4-8=-239/1272

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-1-12 to 6-3-6, Exterior(2R) 6-3-6 to 10-6-5, Interior(1) 10-6-5 to 27-7-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

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

- 6) Bearing at joint(s) 7 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 7=194, 11=176.
- 8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 9) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



Structural wood sheathing directly applied, except end verticals.

2-11

Rigid ceiling directly applied.

1 Row at midpt





	L	9-5-13				17-3-4			1	25-0-11 27-9-0				
	1	9-5-13		1		7-9-7			1		7-9-7		2-8-5	
Plate Offse	ts (X,Y)	[4:0-5-0,0-3-0], [5:0-6-11,	0-0-0]											
LOADING TCLL TCDL BCLL BCDL	(psf) 25.0 10.0 0.0 10.0	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr Code IRC2018/TF	2-0-0 1.15 1.15 YES Pl2014	CSI. TC BC WB Matri:	0.76 0.97 0.46 x-AS		DEFL. Vert(LL) Vert(CT) Horz(CT)	in -0.33 -0.63 0.22	(loc) 7-13 7-13 6	l/defl >999 >525 n/a	L/d 240 180 n/a	PLATES MT20 MT20HS Weight: 130 lb	GRIP 197/144 148/108 FT = 20%	
LUMBER- TOP CHOP BOT CHOP WEBS REACTION	RD 2x4 SF 4-6: 2x RD 2x4 SF 2x4 SF NS. (siz Max H Max U Max G	PF No.2 *Except* (8 SP 2400F 2.0E PF No.2 PF No.2 (0) 10=Mechanical, 6=0- 10=-279(LC 13) Iplift 10=-183(LC 9), 6=-16 Iorav 10=1236(LC 1), 6=12	3-8 66(LC 13) 240(LC 1)				BRACING- TOP CHOF BOT CHOF WEBS	RD RD	Structu Rigid c 1 Row	ral wood eiling dire at midpt	sheathing dii ctly applied. 2	rectly applied. ?-10, 4-9		
FORCES. TOP CHOP BOT CHOP WEBS	(Ib) - Max. RD 2-3=- RD 9-10= 4-7=0	Comp./Max. Ten All for -1185/179, 3-4=-1403/154 =0/723, 7-9=-198/2427, 5- 0/293, 2-10=-1253/206, 2-	ces 250 (lb) or 4, 4-5=-2580/32 7=-200/2419 •9=-134/796, 4	less except 24, 5-6=-468 -9=-1363/33	when shown /85 0	n.								
NOTES- 1) Unbalar 2) Wind: A MWFRS 13-8-11 and force	ced roof live SCE 7-16; V (envelope) Interior(1) 1 es & MWFR	e loads have been conside /ult=115mph (3-second gu gable end zone and C-C 13-8-11 to 27-7-4 zone; ca S for reactions shown 1 u	ered for this de ust) Vasd=91m Exterior(2E) 0- antilever left ar umber DOL=1 (sign. ph; TCDL=6 1-12 to 3-1- d right expo 50 plate grip	6.0psf; BCDL 12, Interior(1 sed ; end ve DOL=1.60	_=4.2ps 1) 3-1-1 ertical le	sf; h=15ft; Ca l2 to 9-5-13, eft and right	at. II; Ex Exterio exposed	cp C; Er or(2R) 9- d;C-C fc	closed; 5-13 to or membe	rs			

3) Provide adequate drainage to prevent water ponding.

4) All plates are MT20 plates unless otherwise indicated

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

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

7) Bearing at joint(s) 6 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.

8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 10=183, 6=166.

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

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







	6-0-0	12-8-3	<u>18-10-7</u> 6-2-4		25-0-11		27-9-0
Plate Offsets (X,Y)	[4:0-3-4,0-3-0], [5:0-7-11,Edge], [10:0-	6-0,0-3-0]	0-2-4		0-2-4		2-0-0
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 YES Code IRC2018/TPI2014	CSI. TC 0.85 BC 1.00 WB 0.93 Matrix-AS	DEFL. in Vert(LL) -0.28 Vert(CT) -0.51 Horz(CT) 0.23	(loc) l/defl 7-15 >999 7-15 >644 6 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 135 lb	GRIP 197/144 FT = 20%
LUMBER- TOP CHORD 2x4 SF 4-6: 2x BOT CHORD 2x4 SF WEBS 2x4 SF REACTIONS. (siz Max H Max U Max C	PF No.2 *Except* R8 SP 2400F 2.0E PF No.2 PF No.2 e) 12=Mechanical, 6=0-3-8 lorz 12=-248(LC 10) Jplift 12=-202(LC 8), 6=-162(LC 13) Grav 12=1236(LC 1), 6=1240(LC 1)		BRACING- TOP CHORD BOT CHORD	Structural wood Rigid ceiling dire	sheathing directly ectly applied.	/ applied, except e	and verticals.
FORCES. (lb) - Max. TOP CHORD 1-12: 5-6=: 5 BOT CHORD 2-10: WEBS 1-10:	Comp./Max. Ten All forces 250 (lb) c =-1176/195, 1-2=-1094/204, 2-3=-1601 -468/83 =-886/228, 8-10=-42/1110, 7-8=-231/26 =-198/1479, 2-8=-130/617, 3-8=0/331,	r less except when shown '255, 3-4≕1824/252, 4-5≕ '87, 5-7≕-233/2678 4-8≕-1193/271, 4-7=0/258	-2826/342,				
NOTES- 1) Unbalanced roof live 2) Wind: ASCE 7-16; \ MWFRS (envelope) 16-11-2, Interior(1) and forces & MWFR 3) Provide adequate d 4) This truss has been 5) Refer to girder(s) fo 6) Bearing at joint(s) 6 6) Bearing at joint(s) 6 capacity of bearing : 7) Provide mechanical 12=202, 6=162. 8) This truss id esigner 9) This truss design re	e loads have been considered for this d /ult=115mph (3-second gust) Vasd=910 gable end zone and C-C Exterior(2E) (16-11-2 to 27-7-4 zone; cantilever left a S for reactions shown; Lumber DOL=1 rainage to prevent water ponding. designed for a 10.0 psf bottom chord li r truss to truss connections. considers parallel to grain value using surface. connection (by others) of truss to bear ed in accordance with the 2018 Internat d ANSI/TPI 1. quires that a minimum of 7/16" structur	esign. mph; TCDL=6.0psf; BCDL=)-1-12 to 3-1-12, Interior(1) nd right exposed ; end ver .60 plate grip DOL=1.60 ve load nonconcurrent with ANSI/TPI 1 angle to grain i ng plate capable of withsta ional Residential Code sec al wood sheathing be appli	=4.2psf; h=15ft; Cat. II; E:) 3-1-12 to 12-8-3, Exterio tical left and right expose h any other live loads. formula. Building designe anding 100 lb uplift at join ctions R502.11.1 and R80 ied directly to the top cho	kp C; Enclosed; rr(2R) 12-8-3 to d;C-C for member er should verify t(s) except (jt=lb) 02.10.2 and rd and 1/2" gypsu	ers um	STATE OF SCO SET	MISSOUR TT M. VIER

sheetrock be applied directly to the bottom chord.



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



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 0.90 BC 0.74 WB 0.42 Matrix-MS	DEFL. in Vert(LL) -0.30 Vert(CT) -0.52 Horz(CT) 0.27	(loc) l/defl L/d 9-19 >999 240 9-19 >633 180 8 n/a n/a	PLATES GRIP MT20 197/144 Weight: 305 lb FT = 20%
LUMBER- TOP CHORD 2x4 SP 5-8: 2x BOT CHORD 2x4 SP 7-12: 2 WEBS 2x4 SP	F No.2 *Except* 8 SP 2400F 2.0E F No.2 *Except* x4 SP 2400F 2.0E F No.2		BRACING- TOP CHORD BOT CHORD	Structural wood sheathing dire except end verticals. Rigid ceiling directly applied o	ectly applied or 5-2-9 oc purlins, rr 10-0-0 oc bracing.
REACTIONS. (size Max H Max U Max G	 2) 16=Mechanical, 8=0-3-8 borz 16=-196(LC 6) plift 16=-811(LC 4), 8=-664(LC 9) rav 16=3159(LC 1), 8=2893(LC 1) 				
FORCES. (Ib) - Max. TOP CHORD 1-16=	Comp./Max. Ten All forces 250 (lb) or 2997/777, 1-2=-1737/489, 2-3=-3642/9	less except when shown 946, 3-4=-5302/1338, 4-5	n. =-5302/1338,		
5-6=- BOT CHORD 13-14	5916/1448, 6-7=-8687/2045, 7-8=-1104 =-80/299, 3-13=-1579/413, 11-13=-831	/276 /3699, 10-11=-1188/5436	6, 9-10=-1907/8424,		
WEBS 1-15= 4-11=	-862/3358, 2-15=-2999/731, 13-15=-36 368/142, 5-10=-497/2136, 6-10=-3352	6/1775, 2-13=-814/3395, /806, 6-9=-169/936	3-11=-560/2075,		
 NOTES- 2-ply truss to be con Top chords connect Bottom chords conn Webs connected as All loads are conside ply connections have Wind: ASCE 7-16; V MWFRS (envelope) grip DOL=1.60 Provide adequate dr This truss has been Refer to girder(s) for Bearing at joint(s) 8 capacity of bearings Provide mechanical 16=811, 8=664. This truss is designed 	nected together with 10d (0.131"x3") na ed as follows: 2x4 - 1 row at 0-7-0 oc, 22 ected as follows: 2x4 - 1 row at 0-8-0 oc follows: 2x4 - 1 row at 0-9-0 oc. ered equally applied to all plies, except it a been provided to distribute only loads fult=115mph (3-second gust) Vasd=91m gable end zone; cantilever left and right ainage to prevent water ponding. designed for a 10.0 psf bottom chord liv truss to truss connections. considers parallel to grain value using A surface. connection (by others) of truss to bearir ed in accordance with the 2018 Internatio	ils as follows: 8 - 2 rows staggered at (inoted as front (F) or bac noted as (F) or (B), unles ph; TCDL=6.0psf; BCDL= exposed ; end vertical le e load nonconcurrent with INSI/TPI 1 angle to grain ig plate capable of withsta- onal Residential Code sec	D-9-0 oc. (B) face in the LOAD C, is otherwise indicated. =4.2psf; h=15ft; Cat. II; Ex fut and right exposed; Lum h any other live loads. formula. Building designed anding 100 lb uplift at join ctions R502.11.1 and R80	ASE(S) section. Ply to xp C; Enclosed; ber DOL=1.60 plate er should verify t(s) except (jt=lb) 12.10.2 and	SUPER SCOTT M. SEVIER NUMBER PE-2001018807
referenced standard 10) Use Simpson Stror	ANSI/TPI 1. ng-Tie LUS24 (4-10d Girder, 2-10d Trus	s, Single Ply Girder) or ea	quivalent spaced at 2-0-0	oc max. starting at	WAL DOMAL

10) 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 1-6-10 from the left end to 15-6-10 to connect truss(es) to front face of bottom chord.

Continued on page 2

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May 18,2021



						RELEASE FOR CONSTRUCTION
Job	Truss	Truss Type	Qty	Ply	C&H/40 OSAGE	AS NOTED FOR PLAN REVIEW
						DEVELOPMENT SERVICES
2794082	A8	Half Hip Girder	1	2	lab Defenses (antianal)	LEE'S SUMMIT MISSOURI
Ruildora EiratSouroo (Vallov	Contor) Valley Contor K	C 67147	0	120 o Apr (Job Reference (optional)	Mon Mar 17190925 0021-Rom 20
Builders FirstSource (Valley	Center), Valley Center, K	.S - 07 147,		430 S API 4	20 2021 MITEK Industries, Inc.	
		ID:Cl		gcv (UC2L	1 CONTRACT I - XOKHIUOCKIV8V	

NOTES-

11) 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 17-6-10 from the left end to 23-6-10 to connect truss(es) to front face of bottom chord.

12) Fill all nail holes where hanger is in contact with lumber.

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

Uniform Loads (plf) Vert: 1-5=-70, 5-7=-70, 7-8=-92, 14-16=-20, 13-17=-20

Concentrated Loads (lb)

Vert: 10=-292(F) 21=-292(F) 22=-292(F) 23=-286(F) 24=-292(F) 25=-292(F) 26=-292(F) 27=-292(F) 28=-286(F) 30=-286(F) 30=-286(F) 31=-389(F) 30=-286(F) 30=-2





- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 27, 28, 29, 30, 31, 32, 18, 25, 24, 23, 22, 21, 20.
- 9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



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 BOT CHORD
 2-10=-155/893, 8-10=-59/890

 WEBS
 5-10=-66/545, 6-10=-312/184, 4-10=-311/183

NOTES-

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

2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 10-0-0, Exterior(2R) 10-0-0 to 13-0-0, Interior(1) 13-0-0 to 20-10-8 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

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

4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=120, 8=120.

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

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







BOT CHORD 1-9=-156/898 7-9=-59/892

WEBS 4-9=-67/546, 5-9=-312/184, 3-9=-317/184

NOTES-

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

2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-0-0 to 3-0-0. Interior(1) 3-0-0 to 10-0-0, Exterior(2R) 10-0-0 to 13-0-0, Interior(1) 13-0-0 to 20-10-8 zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

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

4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (it=lb) 1=103, 7=120.

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

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



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						RELEASE FOR CONSTRUCTION
Job	Truss	Truss Type	Qty	Ply	C&H/40 OSAGE	AS NOTED FOR PLAN REVIEW
						DEVELOPMENT SERVICES
2794082	C1	Half Hip Girder	1	2	Job Reference (optional)	LEE'S SUMMIT, MISSOURI
Builders FirstSource (Valley	Center), Valley Center, H	(S - 67147,	8.	430 s Apr 2	20 2021 MiTek Industries, Inc.	Mon May 17-18/22-30/2021 - Page 2
		ID:cHSbhF	P3Ybgcv?U	C2L7?eKL	Jz02xT-ImYAujsk9BYQ?e?eC	P27_ml6_\$

LOAD CASE(S) Standard

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

Vert: 1-4=-70, 4-5=-70, 8-10=-20, 6-7=-20

Concentrated Loads (lb)

Vert: 13=-3143(F) 14=-1216(F) 15=-1216(F) 16=-1216(F) 17=-1216(F)







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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=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 9=286, 2=142.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 7) Use Simpson Strong-Tie LUS24 (4-10d Girder, 2-10d Truss, Single Ply Girder) or equivalent at 11-0-12 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.
- 8) Fill all nail holes where hanger is in contact with lumber.
- 9) "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidlines.
- 10) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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

Uniform Loads (plf) Vert: 1-5=-70, 5-8=-70, 11-14=-20, 9-10=-20 Concentrated Loads (lb)

Vert: 18=-248(F) 19=-41(F) 20=-41(F)



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BOT CHORD 2-4=-1015/269 BOT CHORD 2-7=-415/852, 6-7=-211/321

WEBS 2-7=-415/852, 6-7=-211/321 4-6=-396/249, 4-7=-215/647

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 6-9-0, Exterior(2E) 6-9-0 to 10-10-4 zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

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

- Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6, 2.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 9) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.







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

2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 5-6-0, Exterior(2R) 5-6-0 to 8-6-0, Interior(1) 8-6-0 to 11-0-0 zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

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

4) Bearing at joint(s) 6, 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.

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

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

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









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

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LOADING TCLL TCDL	i (psf) 25.0 10.0	SPACING- 2 Plate Grip DOL Lumber DOL	2-0-0 1.15 1.15	CSI. TC BC	0.21 0.12	DEFL. Vert(LL) Vert(CT)	in -0.01 -0.02	(loc) 4-5 4-5	l/defl >999 >999	L/d 240 180	PLATES MT20	GRIP 197/144
BCLL BCDL	0.0 10.0	Rep Stress Incr Code IRC2018/TPI2	YES 2014	WB Matrix	0.00 «-AS	Horz(CT)	0.01	3	n/a	n/a	Weight: 12 lb	FT = 20%

LUMBER-

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

BRACING-TOP CHORD BOT CHORD

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

REACTIONS. (size) 5=0-4-3, 3=Mechanical, 4=Mechanical Max Horz 5=72(LC 8) Max Uplift 5=-95(LC 8), 3=-48(LC 12)

Max Grav 5=327(LC 1), 3=107(LC 1), 4=69(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-5=-287/231

NOTES-

 Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) -1-7-13 to 2-7-2, Exterior(2R) 2-7-2 to 3-11-10 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

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

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

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

- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.







TOP CHORD 2-3=-747/276, 3-5=-603/144

BOT CHORD 8-9=-97/273, 3-8=-483/261, 5-7=0/502

WEBS 2-8=-256/741, 2-9=-505/240

NOTES-

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

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

3) Provide adequate drainage to prevent water ponding.

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

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

6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5 except (jt=lb) 9=111.

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

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







BOT CHORD 9-10=-190/336, 4-9=-522/281, 6-8=0/505

WEBS 2-9=-293/818, 2-10=-576/325

NOTES-

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

3) Provide adequate drainage to prevent water ponding.

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

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

6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6 except (jt=lb) 10=137.

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

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



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

6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 8 except (jt=lb) 15=145.

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

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







- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-1-12 to 2-6-0, Exterior(2R) 2-6-0 to 6-8-14, Interior(1) 6-8-14 to 15-7-0 zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

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

- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6 except (jt=lb) 11=119.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.







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

TOP CHORD 2-3=-470/192, 3-4=-514/141, 4-6=-774/126

BOT CHORD 10-11=-44/297, 9-10=-68/283, 8-9=-11/601, 6-8=-11/601

WEBS 2-11=-519/201, 2-10=-191/553, 4-9=-350/159

NOTES-

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

2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-1-12 to 3-1-12, Interior(1) 3-1-12 to 3-9-0, Exterior(2R) 3-9-0 to 7-11-14, Interior(1) 7-11-14 to 15-7-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

3) Provide adequate drainage to prevent water ponding.

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

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

6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 11=106, 6=101.

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

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



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- TOP CHORD
- 1-11=-582/174, 1-2=-380/142, 2-3=-418/152, 3-4=-510/142, 4-6=-832/122 10-11=-165/279, 9-10=-72/281, 8-9=-17/604, 6-8=-17/604

BOT CHORD

WEBS 1-10=-179/557, 4-9=-359/160

NOTES-

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

2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-1-12 to 3-1-12, Interior(1) 3-1-12 to 5-0-0, Exterior(2R) 5-0-0 to 9-2-14, Interior(1) 9-2-14 to 15-7-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

3) Provide adequate drainage to prevent water ponding.

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

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

6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 11=108, 6=102.

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.







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

May 18,2021





NOTES-

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

2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-1-12 to 3-1-12, Interior(1) 3-1-12 to 7-6-0, Exterior(2R) 7-6-0 to 11-8-14, Interior(1) 11-8-14 to 15-7-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

3) Provide adequate drainage to prevent water ponding.

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

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

6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4 except (jt=lb) 10=110.

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.







NOTES-

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

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

3) Provide adequate drainage to prevent water ponding.

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

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

6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 12, 6.

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

referenced standard ANSI/TPI 1.

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







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

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

3) Provide adequate drainage to prevent water ponding.

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

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

6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 11, 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) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



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WEBS 3-9=-639/135, 4-8=-8/321

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-1-12 to 3-2-0, Interior(1) 3-2-0 to 7-2-8, Exterior(2R) 7-2-8 to 10-2-8, Interior(1) 10-2-8 to 15-7-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

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

6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 11, 6.

- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and
- referenced standard ANSI/TPI 1.
- 8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



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

NITEK* 16023 Swingley Ridge Rd Chesterfield, MO 63017



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

2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-1-12 to 1-11-0, Interior(1) 1-11-0 to 7-2-8, Exterior(2R) 7-2-8 to 10-2-8, Interior(1) 10-2-8 to 15-7-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

3) Provide adequate drainage to prevent water ponding.

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

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

6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 11, 6.

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

referenced standard ANSI/TPI 1.

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



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- 2) Which ASCE 7-16; Vulle 115mpr (3-second gust) Vasde9 mph, ToEL=0.0psr, BCDE=4.2psr, n=15it; Cat. II; EXP C; Enclosed, MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-0-0 to 3-0-0, Interior(1) 3-0-0 to 7-2-8, Exterior(2R) 7-2-8 to 10-2-8, Interior(1) 10-2-8 to 15-7-0 zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

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

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

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

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



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6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 15, 9.

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

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



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MiTek 16023 Swingley Ridge Rd Chesterfield, MO 63017





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 Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 7-6-0, Exterior(2R) 7-6-0 to 10-6-0, Interior(1) 10-6-0 to 15-10-8 zone; cantilever left and right exposed; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

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

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

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

referenced standard ANSI/TPI 1.

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







19, 18, 17, 16.9) 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.



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSITPI1 Quality Criteria**, **DSB-89** and **BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

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LUMBER-

 TOP CHORD
 2x4 SPF No.2

 BOT CHORD
 2x4 SPF No.2

 WEBS
 2x4 SPF No.2

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

BRACING-TOP CHORD BOT CHORD

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

REACTIONS. (size) 7=Mechanical, 2=0-3-8 Max Horz 2=185(LC 11) Max Uplift 7=-86(LC 12), 2=-32(LC 12) Max Grav 7=336(LC 19), 2=370(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-4=-334/168

NOTES-

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

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

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

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



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 Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 6-10-12 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

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

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

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

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

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







				1	2-8-5	1	7-0-8		1				
					2-8-5	· ·	4-4-3		1				
Plate Offse	ets (X,Y)	[2:0-1-11,0-2-0]											
	(nsf)	SPACING-	2-0-0	CSI		DEEL	in	(loc)	l/defl	l /d	PLATES	GRIP	
TCLL	25.0	Plate Grip DOL	1.15	TC	0.94	Vert(LL)	0.29	(100)	>280	240	MT20	197/144	
TCDL	10.0	Lumber DOL	1.15	BC	0.17	Vert(CT)	-0.45	8	>183	180			
BCU	00	Rep Stress Incr	VES	\//B	0.05	Horz(CT)	0.16	7	n/a	n/a			

LUMBER-

LOADIN TCLL TCDL BCLL BCDL

TOP CHORD 2x4 SPF No.2 BOT CHORD 2x4 SPF No.2 *Except* 2-8: 2x8 SP 2400F 2.0E WEBS 2x4 SPF No.2

10.0

BRACING-TOP CHORD BOT CHORD

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

Weight: 31 lb

FT = 20%

REACTIONS. (size) 7=Mechanical, 2=0-3-8 Max Horz 2=165(LC 9) Max Uplift 7=-86(LC 12), 2=-32(LC 12) Max Grav 7=335(LC 19), 2=370(LC 1)

4-7=-288/241

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

Code IRC2018/TPI2014

TOP CHORD NOTES-

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

Matrix-AS

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

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

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







	200	0110	100	-	
	2-8-5	3-3-4	' 1-1-0	1	
LOADING (psf) SPACING- 2-0-1 TCLL 25.0 Plate Grip DOL 1.1 TCDL 10.0 Lumber DOL 1.1 BCLL 0.0 Rep Stress Incr YEI BCDL 10.0 Code IRC2018/TPI2014	CSI. TC 0.79 BC 0.32 WB 0.05 Matrix-AS	DEFL. in Vert(LL) 0.22 Vert(CT) -0.31 Horz(CT) 0.13	(loc) l/defl 8 >379 8 >264 7 n/a	L/d 240 180 n/a	PLATES GRIP MT20 197/144 Weight: 30 lb FT = 20%

BRACING-TOP CHORD

BOT CHORD

```
LUMBER-
```

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

REACTIONS. (size) 7=Mechanical, 2=0-3-8

Max Horz 2=138(LC 9) Max Uplift 7=-70(LC 12), 2=-44(LC 12)

Max Grav 7=306(LC 1), 2=375(LC 1)

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

NOTES-

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

2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 5-11-8, Exterior(2E) 5-11-8 to 6-10-12 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

3) Provide adequate drainage to prevent water ponding.

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

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

Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.

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



Structural wood sheathing directly applied, except end verticals.

Rigid ceiling directly applied.

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

TOP CHORD 2-4=-433/162 BOT CHORD 2-7=-279/397

WEBS 4-7=-150/288

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ff; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 4-8-8, Exterior(2E) 4-8-8 to 6-10-12 zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

3) Provide adequate drainage to prevent water ponding.

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

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

- Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6, 2.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 9) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



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Plate Offects (X V)	[2:0 2 0 0 0 2]		2-8-5		4-4-3				
	[2.0-2-0,0-0-2]								
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) -0.0	2 6-7	>999	240	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.21	Vert(CT) -0.0	4 6-7	>999	180		
BCLL 0.0	Rep Stress Incr	YES	WB 0.09	Horz(CT) 0.0	1 6	n/a	n/a		
BCDL 10.0	Code IRC2018/TP	912014	Matrix-AS					Weight: 28 lb	FT = 20%
LUMBER-				BRACING-					

BOT CHORD

LUMBER-

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

REACTIONS. (size) 2=0-3-8, 6=Mechanical Max Horz 2=79(LC 9)

Max Uplift 2=-48(LC 12), 6=-60(LC 9) Max Grav 2=375(LC 1), 6=306(LC 1)

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

TOP CHORD 2-4=-499/185

BOT CHORD 2-7=-252/414 6-7=-189/290

WEBS 4-6=-324/189

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 3-5-8, Exterior(2E) 3-5-8 to 6-10-12 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

3) Provide adequate drainage to prevent water ponding.

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

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

- 6) Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 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) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



Structural wood sheathing directly applied, except end verticals.

Rigid ceiling directly applied.

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T IALE OIISELS	(,,,)	[2.0-5-0,Luge], [4.0-2-5,L	uyej										
LOADING (p TCLL 25 TCDL 10 BCLL 0 BCDL 10	osf) 5.0 0.0 0.0 0.0	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr Code IRC2018/TP	2-0-0 1.15 1.15 NO 12014	CSI. TC BC WB Matrix	0.69 0.31 0.18 ĸ-MP	DEFL. Vert(LL) Vert(CT) Horz(CT)	in -0.03 -0.07 0.02	(loc) 6-7 6-7 6	l/defl >999 >999 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 27 lb	GRIP 197/144 FT = 20%	
LUMBER- TOP CHORD BOT CHORD) 2x4 SPI) 2x4 SPI	F No.2 F No.2				BRACING- TOP CHOF	RD	Structu	ral wood end verti	sheathing di	rectly applied or 5-2-3	oc purlins,	

 TOP CHORD
 2x4 SPF No.2
 TOP CHORD
 Structural wood sheathing directly applied or 5-2-3 oc purlins, except end verticals.

 BOT CHORD
 2x4 SPF No.2
 BOT CHORD
 except end verticals.

 WEBS
 2x4 SPF No.2
 BOT CHORD
 Rigid ceiling directly applied or 10-0 oc bracing.

 SLIDER
 Left 2x4 SPF No.2 -t 2-0-0
 BOT CHORD
 Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 6=Mechanical, 2=0-3-8 Max Horz 2=54(LC 8) Max Uplift 6=-91(LC 5), 2=-91(LC 8) Max Grav 6=409(LC 1), 2=467(LC 1)

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

TOP CHORD 2-4=-770/195, 4-5=-716/163, 5-6=-348/115

BOT CHORD 2-7=-186/657

WEBS 4-7=-4/267, 5-7=-172/728

NOTES-

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

2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60

3) Provide adequate drainage to prevent water ponding.

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

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

6) Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.

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

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

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

LOAD CASE(S) Standard

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

Uniform Loads (plf) Vert: 1-4=-70, 4-5=-70, 7-8=-20, 6-7=-20

Concentrated Loads (lb)

Vert: 4=-19(F) 12=-45(F) 13=-45(F) 14=-30(F) 15=-27(F) 16=-27(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, 5-6=-20, 10-11=-20, 7-9=-20

Concentrated Loads (Ib) Vert: 15=-466(F)







REACTIONS. (size) 7=Mechanical, 2=0-3-8, 11=0-3-8 Max Horz 2=205(LC 11) Max Uplift 7=-18(LC 9), 2=-32(LC 12), 11=-133(LC 12) Max Grav 7=56(LC 1), 2=328(LC 1), 11=653(LC 1)

NOTES-

 Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 11-0-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

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

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

 Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 7, 2 except (jt=lb) 11=133.

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

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





FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. WEBS 3-11=-475/205



Plate Offse	ets (X,Y)	[3:0-3-0,0-0-8]											
LOADING	(psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL	25.0	Plate Grip DOL	1.15	TC	0.18	Vert(LL)	-0.01	6	>999	240	MT20	197/144	
TCDL	10.0	Lumber DOL	1.15	BC	0.11	Vert(CT)	-0.02	6-7	>999	180			
BCLL	0.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.01	5	n/a	n/a			
BCDL	10.0	Code IRC2018/TP	912014	Matrix	-AS						Weight: 12 lb	FT = 20%	

LUMBER-

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

BRACING-TOP CHORD BOT CHORD

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

REACTIONS. (size) 5=Mechanical, 3=Mechanical, 7=0-3-8

Max Horz 7=66(LC 12) Max Uplift 3=-52(LC 12), 7=-35(LC 12)

Max Grav 5=80(LC 3), 3=115(LC 1), 7=248(LC 1)

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

NOTES-

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

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

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

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

- 5) Bearing at joint(s) 7 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 7.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 9) Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.







(lb) - Max Horz 1=242(LC 9)

Max Horz 1=242(LC 9) Max Uplift All uplift 100 lb or less at joint(s) 1, 11, 18, 17, 16, 15, 14, 13, 12 Max Grav All reactions 250 lb or less at joint(s) 1, 11, 18, 17, 16, 15, 14, 13, 12

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=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-5-4 to 3-5-4, Interior(1) 3-5-4 to 10-11-0, Exterior(2R) 10-11-0 to 14-2-9, Interior(1) 14-2-9 to 15-2-11 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) All plates are 2x4 MT20 unless otherwise indicated.

4) Gable requires continuous bottom chord bearing.

- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 11, 18, 17, 16, 15, 14, 13, 12.
- 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.





								RELEA	SE FOR CONSTRUCTION
Job	Truss	Truss Type		Qty	Ply	C&H/40 OSAGE		AS NO	TED FOR PLAN REVIEW
2794082	LG2	GABLE		1		l	otional)	LEE	'S SUMMIT. MISSOURI
Builders FirstSource	(Valley Center), Valley	y Center, KS - 67147,	F	ID:cHSbhP3Ybgc 5-4-10 5-4-10	8.430 s Ap v?UC2L7?e	r 20 2021 MiTek Indu KUz02xT-7SylHOLq	ustries, Inc. kTalpn2Kk	Mon May 17-18 omWcC v48-16	320102021 9399 2 1 9225 7 7 92 FW 2 1
				4					Scale = 1:87.8
			20.80 12 0 + 9 9 87 20.80 12 20.80 12 20.80 12 20.80 12						
			F	<u>4-0-8 5-4-10</u> 4-0-8 1-4-2					
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 YES /TPI2014	CSI. TC 0.16 BC 0.03 WB 0.11 Matrix-S	DEFL. Vert(LL) Vert(CT) Horz(CT) -0	in (loc) n/a - n/a - 00 8	l/defl L/d n/a 999 n/a 999 n/a n/a	F N	PLATES MT20	GRIP 197/144 FT = 20%

LUMBER-			BRACING-		
TOP CHORD	2x4 SP	PF No.2	TOP CHORD	Structural wood sheathing	directly applied or 5-4-10 oc purlins,
BOT CHORD	2x4 SP	PF No.2		except end verticals.	
WEBS	2x4 SP	PF No.2	BOT CHORD	Rigid ceiling directly applie	d or 10-0-0 oc bracing, Except:
OTHERS	2x4 SP	PF No.2		6-0-0 oc bracing: 1-8.	
			WEBS	2 Rows at 1/3 pts	4-5
			JOINTS	1 Brace at Jt(s): 9	
REACTIONS.	All be	earings 5-4-10.			

(lb) - Max Horz 1=333(LC 12)

Max Holz 1=353(LC 12)
 Max Uplift All uplift 100 lb or less at joint(s) 5 except 1=-307(LC 10), 7=-273(LC 12), 8=-393(LC 12)
 Max Grav All reactions 250 lb or less at joint(s) 5, 6 except 1=679(LC 12), 7=267(LC 19), 8=287(LC 19)

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

TOP CHORD 1-2=-931/707, 2-3=-475/366

WEBS 7-9=-341/373, 3-9=-341/373, 2-8=-421/498

NOTES-

 Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

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

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) 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) 5 except (jt=lb) 1=307, 7=273, 8=393.

7) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 1, 7, 8.

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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MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 13-9-12 zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

2) 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.

 Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 7, 2, 8 except (jt=lb) 9=142.

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.







LOADING (psf) TCLL 25.0 TCDL 10.0 BCLL 0.0 BCDL 10.0	SPACING-2-0-0Plate Grip DOL1.15Lumber DOL1.15Rep Stress IncrYESCode IRC2018/TPI2014	CSI. TC 0.20 BC 0.10 WB 0.06 Matrix-S	DEFL. Vert(LL) Vert(CT) Horz(CT)	in n/a n/a -0.00	(loc) - - 5	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20 Weight: 37 lb	GRIP 197/144 FT = 20%
				n	Structu	ral wood	choothing di	rectly applied or 6.0.0	

 TOP CHORD
 2x4 SPF No.2

 BOT CHORD
 2x4 SPF No.2

 WEBS
 2x4 SPF No.2

 OTHERS
 2x4 SPF No.2

BRACING-TOP CHORD BOT CHORD

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

REACTIONS. All bearings 11-11-4. (lb) - Max Horz 1=182(LC 9

Max Horz 1=182(LC 9) Max Uplift All uplift 100 lb or less at joint(s) 5, 6, 7

Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 6=386(LC 1), 7=355(LC 1)

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

WEBS 3-6=-302/174, 2-7=-271/143

NOTES-

 Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-9-1 to 3-11-13, Interior(1) 3-11-13 to 11-10-1 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60

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

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.

E. I cing In **Component** I 6023 Swingley Ridge Rd Chesterfield, MO 63017

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		1		1		-					1	
LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.25	Vert(LL)	n/a	-	n/a	999	MT20	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	YES	WB	0.05	Horz(CT)	-0.00	4	n/a	n/a		
BCDL	10.0	Code IRC2018/TI	PI2014	Matrix	x-P						Weight: 25 lb	FT = 20%
) _	ц		1		BRACING					1	

BOT CHORD

LUMBER-

 TOP CHORD
 2x4 SPF No.2

 BOT CHORD
 2x4 SPF No.2

 WEBS
 2x4 SPF No.2

 OTHERS
 2x4 SPF No.2

REACTIONS. (size) 1=8-8-13, 4=8-8-13, 5=8-8-13

Max Horz 1=129(LC 9) Max Uplift 1=-1(LC 12), 4=-22(LC 9), 5=-96(LC 12)

Max Grav 1=138(LC 1), 4=128(LC 1), 5=444(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. WEBS 2-5=-345/219

NOTES-

 Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-9-1 to 3-9-1, Interior(1) 3-9-1 to 8-7-11 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

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

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

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

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

except end verticals.



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LOADING (psf) TCLL 25.0 TCDL 10.0 BCLL 0.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES	CSI. TC 0.19 BC 0.10 WB 0.04	DEFL. Vert(LL) Vert(CT) Horz(CT)	in n/a n/a -0.00	(loc) - - 4	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20	GRIP 197/144
		INIAUTX-P						Weight. 20 b	FT = 20%

BOT CHORD

LUMBER-

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

REACTIONS. (size) 1=7-3-5, 4=7-3-5, 5=7-3-5

Max Horz 1=105(LC 9) Max Uplift 4=-21(LC 9), 5=-90(LC 12)

Max Grav 1=70(LC 20), 4=140(LC 1), 5=373(LC 1)

FORCES. (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) or less except when shown. 2-5=-290/213WEBS

NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-9-1 to 3-9-1, Interior(1) 3-9-1 to 7-2-2 zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

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



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

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

except end verticals.





v v	LOADING (psf) TCLL 25.0 TCDL 10.0 BCLL 0.0 BCDL 10.0	SPACING- 2-0- Plate Grip DOL 1.13 Lumber DOL 1.13 Rep Stress Incr YES Code IRC2018/TPI2014	CSI. TC 0.26 BC 0.13 WB 0.05 Matrix-P	DEFL. Vert(LL) r Vert(CT) r Horz(CT) -0.	in (loc) /a - /a - 00 4	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20 Weight: 25 lb	GRIP 197/144 FT = 20%
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BOT CHORD

LUMBER-

 TOP CHORD
 2x4 SPF No.2

 BOT CHORD
 2x4 SPF No.2

 WEBS
 2x4 SPF No.2

 OTHERS
 2x4 SPF No.2

REACTIONS. (size) 1=8-10-2, 4=8-10-2, 5=8-10-2

Max Horz 1=131(LC 9) Max Uplift 1=-2(LC 12), 4=-22(LC 9), 5=-96(LC 12)

Max Grav 1=143(LC 1), 4=127(LC 1), 5=450(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. WEBS 2-5=-350/220

NOTES-

 Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-9-1 to 3-9-1, Interior(1) 3-9-1 to 8-9-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

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

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

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

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

except end verticals.



PE-2001018807 May 18,2021



BOT CHORD

LUMBER-

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

REACTIONS. (size) 1=5-7-12, 4=5-7-12, 5=5-7-12 Max Horz 1=59(LC 11)

Max Uplift 1=-28(LC 12), 4=-29(LC 3), 5=-24(LC 12) Max Grav 1=162(LC 1), 4=11(LC 1), 5=259(LC 1)

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

NOTES-

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

2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-9-1 to 3-9-1, Interior(1) 3-9-1 to 4-8-5, Exterior(2E) 4-8-5 to 5-6-9 zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

3) Provide adequate drainage to prevent water ponding.

4) Gable requires continuous bottom chord bearing.

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

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



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

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

except end verticals.



