

RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI 09/27/2021

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

Re: 2925455 SUMMIT/WOODSIDE RIDGE #32/MO

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: I47771353 thru I47771439

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

Missouri COA: Engineering 001193



Sevier, Scott

September 7,2021

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



						RELEASE FOR CONSTRUCTION
Job	Truss	Truss Type	Qty	Ply	SUMMIT/WOODSIDE RIDG	E #32/MOAS NOTED FOR PLAN REVIEW
						DEVELOPMENT SERVICES
2925455	A1	Half Hip Girder	1	2	Job Reference (optional)	LEE'S SUMMIT, MISSOURI
Builders FirstSource (Valley	Center), Valley Center, K	S - 67147,		8.430 s Au	g 16 2021 MiTek Industries, I	ic. Fri Sen 212/10:49-9021 Page 2
NOTES-			ID:VPVqvFnF	POPOb1j2tZ	rlOqezdKbx-ZXI_GbncuDVQ	eszd_lz <mark>84k)ZIØiSzeE</mark> Pug?pKyhL_y

12) Use Simpson Strong-Tie HUS26 (14-10d Girder, 4-10d Truss) or equivalent at 26-5-0 from the left end to connect truss(es) to front face of bottom chord.
 13) 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: 1-6=-90, 6-9=-90, 14-15=-20

Concentrated Loads (lb)

Vert: 14=-687(F) 11=-680(F) 10=-1139(F) 18=-680(F) 19=-680(F) 20=-680(F) 21=-680(F) 22=-680(F) 23=-680(F) 24=-680(F) 25=-680(F) 26=-670(F) 28=-670(F) 28=-670(F) 26=-670(F) 26=-





Max Holz 11=-276(LC 10) Max Uplift 11=-236(LC 8), 7=-164(LC 13) Max Grav 11=1690(LC 1), 7=1690(LC 1)

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

 TOP CHORD
 1-11=-1620/256, 1-2=-1446/234, 2-3=-1465/238, 3-4=-2305/308, 4-5=-2381/256, 5-7=-2765/293

 BOT CHORD
 10-11=-162/273, 8-10=-60/1721, 7-8=-190/2378

 WEBS
 2-10=-847/239, 1-10=-256/1915, 3-10=-356/115, 4-8=-310/138, 5-8=-405/183, 3-8=-152/809

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 16-5-0, Exterior(2R) 16-5-0 to 20-7-15, Interior(1) 20-7-15 to 30-10-8 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) Provide adequate drainage to prevent water ponding.
- 4) All plates are MT20 plates unless otherwise indicated
- 5) The Fabrication Tolerance at joint 2 = 0%

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

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

8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 11=236, 7=164.

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.

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



Mitek° 16023 Swingley Ridge Rd Chesterfield, MO 63017



	5-4-4 1	0-5-0 14-5-0	17-6-8	22-7-12	27-9-1	0 28-10-8 30-10-8	3			
Diata Offacta (X V)	5-4-4 5		3-1-8	5-1-4	5-1-4	1 1-1-8 2-0-0				
Fiale Olisels (A,Y)	[4.0-0-0,0-0-15], [ð:⊏age,0-1-8], [9:Eagi	e,u-1-oj, [11:0-4-8,0-3-0], [[14.0-2-12,0-3-4], [16:0-6	-0,0-2-4]						
LOADING (psf) TCLL 25.0 TCDL 20.0 BCLL 0.0 BCDL 10.0	SPACING-2-0-0Plate Grip DOL1.15Lumber DOL1.15Rep Stress IncrYESCode IRC2018/TPI2014	CSI. TC 0.59 BC 0.79 WB 0.90 Matrix-AS	DEFL.inVert(LL)-0.26Vert(CT)-0.55Horz(CT)0.21	(loc) l/defl 16-18 >999 16-18 >669 9 n/a	L/d 240 180 n/a	PLATES MT20 MT20HS Weight: 164 lb	GRIP 197/144 148/108 FT = 20%			
LUMBER- TOP CHORD 2x4 SF BOT CHORD 2x4 SF 11-14: WEBS 2x4 SF	PF No.2 PF No.2 *Except* 2x4 SPF 1650F 1.5E PF No.2		BRACING- TOP CHORD BOT CHORD WEBS	Structural wood 2-0-0 oc purlins Rigid ceiling dire 1 Row at midpt	sheathing dire (4-10-1 max.): ctly applied. 4-	ectly applied, except e : 3-4, 7-8. 16, 2-18	nd verticals, and			
REACTIONS. (siz Max H Max L Max C	e) 9=Mechanical, 18=0-3-8 lorz 18=-184(LC 8) Jplift 9=-179(LC 13), 18=-132(LC 12) Grav 9=1682(LC 1), 18=1682(LC 1)									
FORCES. (lb) - Max. Comp./Max. Ten All forces 250 (lb) or less except when shown. TOP CHORD 2-3=-1623/274, 3-4=-1359/279, 4-5=-2326/379, 5-6=-2427/329, 6-7=-3296/351, 7-8=-290/0, 9-11=-1649/193, 1-18=-254/80 BOT CHORD 16-18=-164/1213, 5-14=-294/133, 13-14=-302/2900, 12-13=-510/4321, 11-12=-477/4288 WEBS 2-16=-15/358, 3-16=-44/317, 6-14=-1004/189, 6-13=0/476, 7-13=-1449/250, 14-16=-140/1467, 4-14=-220/1240, 4-16=-618/121, 7-11=-4373/564, 2-18=-1756/240										
NOTES- 1) Unbalanced roof liv. 2) Wind: ASCE 7-16; V MWFRS (envelope) , Interior(1) 13-6-1 t vertical left and righ 3) Provide adequate d 4) All plates are MT20 5) This truss has been 6) Refer to girder(s) fo 7) Provide mechanical 9=179, 18=132. 8) This truss is design re sheetrock be applie	e loads have been considered for this de /ult=115mph (3-second gust) Vasd=91m gable end zone and C-C Exterior(2E) 0 o 14-5-0, Exterior(2R) 14-5-0 to 17-5-9, 1 t exposed;C-C for members and forces a rainage to prevent water ponding. plates unless otherwise indicated. designed for a 10.0 psf bottom chord liv r truss to truss connections. connection (by others) of truss to bearin ed in accordance with the 2018 Internation d ANSI/TPI 1. quires that a minimum of 7/16" structura d directly to the bottom chord.	sign. ph; TCDL=6.0psf; BCDL= 1-12 to 3-2-13, Interior(1) nterior(1) 17-5-9 to 30-8-1 WWFRS for reactions sh e load nonconcurrent with g plate capable of withsta onal Residential Code sec I wood sheathing be appli-	=4.2psf; h=15ft; Cat. II; Ex) 3-2-13 to 10-5-0, Exterio 12 zone; cantilever left ar nown; Lumber DOL=1.60 n any other live loads. anding 100 lb uplift at join ctions R502.11.1 and R80 ed directly to the top choi	top C; Enclosed; r(2R) 10-5-0 to 1 d right exposed; plate grip DOL=1 t(s) except (jt=lb) 12.10.2 and rd and 1/2" gypsu	3-6-1 end .60 m	STATE OF SCATE SEV	MISSOUR TT M. VIER			

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Plate Offsets (X,Y)	[1:Edge,0-1-12], [12:0-4-0,0-3-0]						
LOADING (psf) TCLL 25.0 TCDL 20.0 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 0.63 BC 0.86 WB 0.89 Matrix-AS	DEFL. in Vert(LL) -0.20 Vert(CT) -0.55 Horz(CT) 0.14	(loc) l/defl 12-13 >999 12-13 >670 8 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 163 lb	GRIP 197/144 FT = 20%
LUMBER- TOP CHORD 2x4 SP BOT CHORD 2x4 SP WEBS 2x4 SP REACTIONS. (size Max H Max U Max G	F No.2 F No.2 F No.2 e) 8=Mechanical, 18=0-3-8 orz 18=-194(LC 8) plift 8=-191(LC 13), 18=-147(LC 12) rav 8=1682(LC 1), 18=1682(LC 1)		BRACING- TOP CHORD BOT CHORD WEBS	Structural wood 2-0-0 oc purlins Rigid ceiling dire 1 Row at midpt	sheathing dire (2-6-0 max.): ectly applied. 3-	ectly applied, except 6 6-7. •15, 2-15	end verticals, and
FORCES. (lb) - Max. TOP CHORD 1-2=- 6-7=- 6-7=- BOT CHORD 15-16 WEBS 6-12= 5-12= 5-12=	Comp./Max. Ten All forces 250 (lb) or 1578/201, 2-3=-1591/259, 3-4=-2415/38 3489/346, 8-10=-1650/197, 7-10=-1619, 5=-170/1313, 4-13=-426/166, 12-13=-30 2168/308, 7-12=-353/3618, 13-15=-91, 144/1323, 2-16=-597/126, 1-16=-137/1	less except when shown. 4, 4-5=-2423/294, 5-6=-41 193, 1-18=-1619/198 I/2677 1318, 3-13=-273/1537, 5-1 449	54/465, 13=-794/185,				
NOTES- 1) Unbalanced roof live 2) Wind: ASCE 7-16; V MWFRS (envelope) , Interior(1) 15-6-1 tc & MWFRS for reacti 3) Provide adequate dr 4) This truss has been 5) Refer to girddr(s) for 6) Provide mechanical	e loads have been considered for this de fult=115mph (3-second gust) Vasd=91m gable end zone and C-C Exterior(2E) 0- 0 30-8-12 zone; cantilever left and right e ons shown; Lumber DOL=1.60 plate grip ainage to prevent water ponding. designed for a 10.0 psf bottom chord liv truss to truss connections.	sign. ph; TCDL=6.0psf; BCDL=4 1-12 to 3-2-13, Interior(1) (xposed ; end vertical left a p DCL=1.60 e load nonconcurrent with a p plate capable of withstan	1.2psf; h=15ft; Cat. II; E; 3-2-13 to 12-5-0, Exteric nd right exposed;C-C fo any other live loads.	xp C; Enclosed; r(2R) 12-5-0 to 1 or members and for t(c) except (it=lb)	5-6-1 orces	SS OF	MISS

6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 8=191, 18=147.

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

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

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







	[1.Euge,0-1-12], [7.Euge,0-3-0], [0.Euge	,0-1-0], [10.0-0-0,0-2-0]					
LOADING (psf) TCLL 25.0 TCDL 20.0 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 0.60 BC 0.74 WB 0.68 Matrix-AS	DEFL. in Vert(LL) -0.16 Vert(CT) -0.38 Horz(CT) 0.17	(loc) l/de 12-13 >99 11-12 >97 8 n	efl L/d 99 240 76 180 n/a n/a	PLATES MT20 Weight: 166 lb	GRIP 197/144 FT = 20%
LUMBER- TOP CHORD 2x4 SP BOT CHORD 2x4 SP 10-13: WEBS 2x4 SP	F No.2 F No.2 *Except* 2x4 SPF 1650F 1.5E F No.2		BRACING- TOP CHORD BOT CHORD WEBS	Structural w 2-0-0 oc pur Rigid ceiling 1 Row at mi	vood sheathing dii rlins (6-0-0 max.): g directly applied. idpt 6	rectly applied, except e : 6-7. 3-10, 3-15, 2-15	end verticals, and
REACTIONS. (size Max H Max U Max G	e) 8=0-3-8, 18=0-5-8 orz 18=-194(LC 8) plift 8=-194(LC 13), 18=-148(LC 12) rav 8=1698(LC 1), 18=1698(LC 1)						
FORCES. (lb) - Max. TOP CHORD 1-2=- 8-10= BOT CHORD 15-16 WEBS 6-10= 3-13=	Comp./Max. Ten All forces 250 (lb) or 1595/203, 2-3=-1614/262, 3-4=-2450/38 1656/209, 1-18=-1635/200 5=-172/1328, 4-13=-444/170, 12-13=-29 3821/488, 6-12=-1020/196, 5-12=-14/5 288/1557, 2-16=-605/127, 1-16=-138/1	less except when shown. 15, 4-5=-2452/305, 5-6=-32 2/2833, 11-12=-470/3761, 170, 5-13=-948/155, 13-15 466	237/336, 10-11=-445/3794 =-125/1227,				
NOTES- 1) Unbalanced roof live 2) Wind: ASCE 7-16; V MWFRS (envelope) Interior(1) 15-66 to 3 MWFRS for reaction 3) Provide adequate dr 4) All plates are 3x4 MT 5) This truss has been 6) Provide mechanical 8=194. 18=148.	e loads have been considered for this de fult=115mph (3-second gust) Vasd=91m gable end zone and C-C Exterior(2E) 0- 31-0-4 zone; cantilever left and right exp is shown; Lumber DOL=1.60 plate grip [ainage to prevent water ponding. T20 unless otherwise indicated. designed for a 10.0 psf bottom chord liv connection (by others) of truss to bearin	sign. ph; TCDL=6.0psf; BCDL= 1-12 to 3-3-2, Interior(1) 3 osed ; end vertical left and OOL=1.60 e load nonconcurrent with g plate capable of withstar	4.2psf; h=15ft; Cat. II; E -3-2 to 12-5-0, Exterior(d right exposed;C-C for i any other live loads. nding 100 lb uplift at join	xp C; Enclosa 2R) 12-5-0 to members and it(s) except (ji	ed;) 15-6-6, d forces & t=lb)	A THE OF	MISSOL

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

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

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



16023 Swingley Ridge Rd Chesterfield, MO 63017







September 7,2021





		2-2-0	0-9-0) I	0-6-11	14-0-13	10-0-0 117-0-0	1 22-0-0)	1	27-0-0	20-10-0	31-2-0
	ſ	2-5-8	6-4-0) '	2-8-0	3-1-5	1-5-11 1-6-0	5-0-0		1	5-0-0	1-4-0	2-3-8
Plate Offse	ets (X,Y)	[5:0-4-	0,0-1-15], [8:Edge	,0-1-8], [9:Edg	e,0-1-8], [11:	0-4-8,0-3-0],	[19:0-4-8,0-2-0]						
					1								
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	0.60	Vert(LL)	-0.19 13-15	>999	240		MT20	197/144
TCDL	20.0		Lumber DOL	1.15	BC	0.83	Vert(CT)	-0.41 12-13	>911	180			
BCLL	0.0		Rep Stress Incr	YES	WB	0.74	Horz(CT)	0.25 9	n/a	n/a			
BCDL	10.0		Code IRC2018/T	PI2014	Matri	x-AS						Weight: 162 lb	FT = 20%

LUMBER-			BRACING-		
TOP CHORD	2x4 SP	'F No.2	TOP CHORD	Structural wood sheathing d	irectly applied, except end verticals, and
BOT CHORD	2x4 SP	F No.2 *Except*		2-0-0 oc purlins (3-11-2 max	.): 3-5, 7-8.
	11-14:	2x4 SPF 1650F 1.5E	BOT CHORD	Rigid ceiling directly applied	Except:
WEBS	2x4 SP	F No.2		10-0-0 oc bracing: 15-17	
			WEBS	1 Row at midpt	2-19, 7-11, 6-15
DELOTIONO					

REACTIONS. (size) 9=0-3-8, 21=0-5-8 Max Horz 21=-175(LC 8) Max Uplift 9=-173(LC 13), 21=-118(LC 12) Max Grav 9=1698(LC 1), 21=1698(LC 1)

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

 TOP CHORD
 2-3=-1859/286, 3-4=-1579/288, 4-5=-1970/315, 5-6=-2343/321, 6-7=-3396/363, 7-8=-308/0, 9-11=-1661/189, 19-21=-1658/197

 BOT CHORD
 18-19=-130/1342, 17-18=-190/1310, 15-17=-194/1866, 13-15=-318/2999, 12-13=-510/4541, 11-12=-477/4518

 WEBS
 3-17=-26/426, 2-19=-1872/276, 2-17=-35/464, 7-11=-4545/549, 7-13=-1581/247, 6-13=0/520, 5-15=-28/535, 6-15=-1172/233, 4-17=-673/120, 4-15=-82/277

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 3-3-2, Interior(1) 3-3-2 to 8-9-8, Exterior(2R) 8-9-8 to 11-10-14, Interior(1) 11-10-14 to 16-0-8, Exterior(2R) 16-0-8 to 19-1-14, Interior(1) 19-1-14 to 31-0-4 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) All plates are 2x4 MT20 unless otherwise indicated.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 9=173, 21=118.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.







<u> 2-5</u> 2-5	5-8 6-9-8 11- 5-8 4-4-0 4-4	<u>5-8 12-5-0 14-7-12</u> 3-0 0-11-8 2-2-12	2 17-6-8 18-0 ₇ 8 2 2-10-12 0-6-0	<u>28-10-8</u> 10-10-0	31-2-0
Plate Offsets (X,Y)	[1:Edge,0-2-3], [2:0-4-10,Edge], [4:0-6-0	,0-0-15], [5:0-3-0,0-3-0], [[6:0-3-3,0-0-10], [7:0-4-1	2,Edge]	
LOADING (psf) TCLL 25.0 TCDL 20.0 BCLL 0.0 BCDL 10.0	SPACING-2-0-0Plate Grip DOL1.15Lumber DOL1.15Rep Stress IncrYESCode IRC2018/TPI2014	CSI. TC 0.74 BC 0.81 WB 0.75 Matrix-AS	DEFL. in Vert(LL) -0.20 Vert(CT) -0.45 Horz(CT) 0.24	(loc) l/defl L/d 9-29 >999 240 9-29 >832 180 7 n/a n/a	PLATES GRIP MT20 197/144 Weight: 163 lb FT = 20%
LUMBER- TOP CHORD 2x4 SI 5-7: 2) BOT CHORD 2x4 SI 6-15: 2 WEBS 2x4 SI WEDGE Right: 2x4 SPF No.2	PF No.2 *Except* 48 SP 2400F 2.0E PF No.2 *Except* 2x4 SPF 1650F 1.5E PF No.2		BRACING- TOP CHORD BOT CHORD JOINTS	Structural wood sheathing din 2-0-0 oc purlins (3-4-15 max. Rigid ceiling directly applied. 1 Brace at Jt(s): 14	rectly applied, except end verticals, and): 2-4.
REACTIONS. (siz Max H Max L Max C	e) 23=0-5-8, 7=0-3-8 łorz 23=-167(LC 10) Jplift 23=-98(LC 12), 7=-155(LC 13) Grav 23=1699(LC 1), 7=1701(LC 1)				
FORCES. (lb) - Max. TOP CHORD 1-2= 6-7= 6-7= BOT CHORD 18-1 9-10 9-10 WEBS 1-19 3-16 3-16	Comp./Max. Ten All forces 250 (lb) or -1875/240, 2-3=-2235/318, 3-4=-2235/31 -691/96, 21-23=-1662/185, 1-21=-1625/1 9=-100/1578, 16-18=-98/1506, 14-16=-1)=-248/3252, 6-9=-250/3244 =-143/1544, 2-19=-435/136, 5-9=0/264, 4 =-590/160, 2-16=-152/1010	less except when shown. 9, 4-5=-2627/328, 5-6=-3 99 18/2163, 11-14=-118/2163 4-10=-60/664, 5-10=-1151	532/364, 3, 10-11=-120/2235, 1/221,		
 NOTES- 1) Unbalanced roof liv. 2) Wind: ASCE 7-16; MWFRS (envelope) Interior(1) 9-9-8 to 4 3) Provide adequate d 4) All plates are 2x4 M 5) This truss has been 6) Bearing at joint(s) 7 capacity of bearing 7) Provide mechanical 7=155. 8) This truss design resheetrock be applie 10) Graphical purlin rest 	e loads have been considered for this de /ult=115mph (3-second gust) Vasd=91m gable end zone and C-C Exterior(2E) 0- 18-0-8, Exterior(2R) 18-0-8 to 21-0-8, Inte t exposed;C-C for members and forces & rainage to prevent water ponding. IT20 unless otherwise indicated. designed for a 10.0 psf bottom chord liv considers parallel to grain value using A surface. connection (by others) of truss to bearin ed in accordance with the 2018 Internation d ANSI/TPI 1. quires that a minimum of 7/16" structural d directly to the bottom chord. presentation does not depict the size or	sign. ph; TCDL=6.0psf; BCDL= 1-12 to 3-1-12, Interior(1) prior(1) 21-0-8 to 31-0-5 zc MWFRS for reactions sh e load nonconcurrent with NSI/TPI 1 angle to grain for g plate capable of withsta onal Residential Code sec wood sheathing be applie the orientation of the purlit	4.2psf; h=15ft; Cat. II; E 3-1-12 to 6-9-8, Exterior one; cantilever left and ri rown; Lumber DOL=1.60 n any other live loads. ormula. Building design nding 100 lb uplift at join tions R502.11.1 and R8 ed directly to the top cho n along the top and/or bo	xp C; Enclosed; (2R) 6-9-8 to 9-9-8, ght exposed ; end plate grip DOL=1.60 er should verify t(s) 23 except (jt=lb) D2.10.2 and rd and 1/2" gypsum ottom chord.	SEVIER NOMBER PE-2001018807 September 7,2021

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

MiTek[®]

16023 Swingley Ridge Rd Chesterfield, MO 63017



16023 Swingley Ridge Rd Chesterfield, MO 63017

						RELEASE FOR CONSTRUCTION
Job	Truss	Truss Type	Qty	Ply	SUMMIT/WOODSIDE RIDG	E #32/MOAS NOTED FOR PLAN REVIEW
						DEVELOPMENT SERVICES
2925455	A10	Hip Girder	1	2	Job Reference (optional)	LEE'S SUMMIT, MISSOURI
Builders FirstSource (Valley	Center), Valley Center, M	(S - 67147,		8.430 s Au	ug 16 2021 MiTek Industries, I	ic. Fri Ser 212/105+9021-Page 2
NOTES-		ID:\	'PVqvFnP0P	0b1j2tZrlO	qezdKbx-VwtkgHosQql8My0N	kPnRD 117260wg/XTC66u/yhLlw/

11) Use Simpson Strong-Tie LUS26 (4-SD9112 Girder, 4-SD9212 Truss, Single Ply Girder) or equivalent at 26-5-0 from the left end to connect truss(es) to back 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: 1-2=-90, 2-5=-90, 5-8=-90, 16-17=-20

Concentrated Loads (lb)

Vert: 16=-601(B) 21=-593(B) 22=-585(B) 23=-595(B) 24=-595(B) 25=-595(B) 26=-595(B) 27=-595(B) 28=-595(B) 29=-595(B) 30=-585(B) 31=-585(B) 32=-585(B) 32=-5 33=-1100(B)





	8	-0-3	1	6-0-0		23-11-13			32-0-0	
	6	-0-3	- 7-	11-13	1	7-11-13			8-0-3	I
Plate Offsets (X	(,Y) [2:0-0-15,0	-2-10], [4:0-3-0,Edge	, [6:0-3-0,Edge], [8:	Edge,0-2-10], [10:0-4	-0,0-3-0]					
LOADING (psf TCLL 25.0 TCDL 20.0 BCLL 0.0 BCDL 10.0) SPA Plate) Lum) Rep) Cod	CING- 2-0-6 Grip DOL 1.18 ber DOL 1.18 Stress Incr YES e IRC2018/TPI2014 14	CSI. TC BC WB Matrix	0.68 V 0.74 V 0.36 H x-AS	EFL. in ert(LL) -0.12 ert(CT) -0.33 orz(CT) 0.12	n (loc) 2 10-11 3 10-11 2 8	l/defl >999 >999 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 124 lb	GRIP 197/144 FT = 20%

BRACING-

WEBS

BOT CHORD

Structural wood sheathing directly applied.

7-10, 3-10

Rigid ceiling directly applied.

1 Row at midpt

LUMBER-

TOP CHORD	2x6 SPF No.2 *Except*
	1-4,6-8: 2x4 SPF No.2
BOT CHORD	2x4 SPF No.2
WEBS	2x4 SPF No.2
WEDGE	

Left: 2x6 SPF No.2 , Right: 2x6 SPF No.2

REACTIONS. (size) 2=0-3-8, 8=0-3-8 Max Horz 2=139(LC 12) Max Uplift 2=-197(LC 12), 8=-180(LC 13)

Max Grav 2=1840(LC 1), 8=1759(LC 1)

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

TOP CHORD 2-3=-3008/305, 3-5=-2145/291, 5-7=-2145/293, 7-8=-3013/306

- BOT CHORD 2-11=-306/2555, 10-11=-306/2555, 9-10=-187/2561, 8-9=-187/2561
- WEBS 5-10=-65/1003, 7-10=-937/245, 7-9=0/302, 3-10=-930/243, 3-11=0/301

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 16-0-0, Exterior(2R) 16-0-0 to 19-0-0, Interior(1) 19-0-0 to 32-0-0 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.

 Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=197, 8=180.

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.







REACTIONS.

ONS. (size) 2=0-3-8, 9=0-3-8 Max Horz 2=129(LC 16)

Max Uplift 2=-200(LC 12), 9=-182(LC 13) Max Grav 2=1840(LC 1), 9=1759(LC 1)

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

TOP CHORD 2-3=-3059/307, 3-5=-3064/462, 5-6=-1894/292, 6-8=-2278/287, 8-9=-3046/319

- BOT CHORD 2-14=-307/2611, 12-14=-122/1865, 10-12=-203/2603, 9-10=-203/2603
- WEBS 3-14=-631/262, 5-12=-145/308, 6-12=-67/523, 8-12=-825/235, 5-14=-266/1103

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 14-8-4, Exterior(2E) 14-8-4 to 17-3-12, Exterior(2R) 17-3-12 to 21-6-11, Interior(1) 21-6-11 to 32-0-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60 3) Provide adequate drainage to prevent water ponding.

3) Provide adequate drainage to prevent water ponding.

4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=200, 9=182.

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

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

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







	 	6-4-5	12-8	3-4	19-3-12		25-7-1	11	32-0-0)
Dioto Offac	to (X X)	6-4-5	6-3-	15 '	6-7-8		6-3-1	5	6-4-5	
Plate Olise	lS (X, Y)	[2:0-3-8,Edge], [4:0-4-0	,0-1-15], [6:0-4-0	J,0-1-15], [8:0-3-8,⊑uge]						
LOADING TCLL TCDL BCLL BCDL	(psf) 25.0 20.0 0.0 10.0	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr Code IRC2018/	2-0-0 1.15 1.15 YES TPI2014	CSI. TC 0.74 BC 0.89 WB 0.56 Matrix-AS	DEFL. Vert(LL) -0. Vert(CT) -0. Horz(CT) 0.	in (loc) 14 12-13 32 12-13 13 8	l/defl >999 >999 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 132 lb	GRIP 197/144 FT = 20%
LUMBER- TOP CHOR BOT CHOR WEBS WEDGE Left: 2x4 SF	20 2x4 SP 20 2x4 SP 2x4 SP 2x4 SP 2F No.2 , Ri	PF No.2 PF No.2 PF No.2 PF No.2 ight: 2x4 SPF No.2			BRACING- TOP CHORD BOT CHORD	Structu 2-0-0 c Rigid c	ural wood sh oc purlins (3 ceiling direct	neathing direct -9-4 max.): 4-6 ly applied.	ly applied, except 3.	
REACTION	IS. (size Max H Max U Max G	e) 2=0-3-8, 8=0-3-8 orz 2=112(LC 12) plift 2=-203(LC 12), 8=- irav 2=1840(LC 1), 8=1	186(LC 13) 759(LC 1)							
FORCES. TOP CHOR BOT CHOR WEBS	(lb) - Max. 2-3=- 7-8=- 2-13= 3-12= 5-10=	Comp./Max. Ten All f 3071/327, 3-4=-2463/3 3079/329 =-318/2634, 12-13=-318 =-639/188, 4-12=-48/58 =-316/95	orces 250 (lb) or 04, 4-5=-2086/30 1/2634, 10-12=-1 2, 6-10=-47/584,	less except when shown.)7, 5-6=-2087/305, 6-7=-24 30/2155, 9-10=-221/2643, 7-10=-648/190, 5-12=-318	465/305, 8-9=-221/2643 3/96,					
NOTES- 1) Unbalan 2) Wind: AS MWFRS Interior(1) 00L=1.6 3) Provide 3 4) This trus 5) Provide 4 2=203, 8 6) This trus reference 7) This trus sheetrooc 8) Graphicz	ced roof live SCE 7-16; V (envelope) I) 16-11-3 to cal left and Co adequate dr s has been mechanical =186. s is design rec ed standard s design rec k be applied al purlin rep	e loads have been cons /ult=115mph (3-second gable end zone and C- o 19-3-12, Exterior(2R) right exposed;C-C for n rainage to prevent wate designed for a 10.0 psf connection (by others) ed in accordance with th ANSI/TPI 1. quires that a minimum co d directly to the bottom resentation does not de	dered for this de gust) Vasd=91m C Exterior(2E) -0 19-3-12 to 23-6-1 tembers and force r ponding. bottom chord liv of truss to bearin e 2018 Internation f 7/16" structural shord. pict the size or th	sign. ph; TCDL=6.0psf; BCDL= -10-8 to 2-1-8, Interior(1) 2 11, Interior(1) 23-6-11 to 3 22es & MWFRS for reaction e load nonconcurrent with g plate capable of withstar onal Residential Code sect I wood sheathing be applie and orientation of the purlin a	4.2psf; h=15ft; Cat. II: 2-1-8 to 12-8-4, Exter 2-0-0 zone; cantilever s shown; Lumber DO any other live loads. nding 100 lb uplift at j ions R502.11.1 and f d directly to the top c along the top and/or l	Exp C; Ei ior(2R) 12: left and ri L=1.60 pla bint(s) exc R802.10.2 hord and ² bottom cho	nclosed; -8-4 to 16-1 ght exposed ate grip ept (jt=lb) and 1/2" gypsum ord.	1-3, 1;	STATE OF SCALE	MISSOLD TT M. TER BER MBER







September 7,2021





L	8-8-4	14-3-4	19-10-4	25-10-15	32-0-0
Plate Offsets (X V)	8-8-4 [2:0-0-15 0-2-10] [4:0-4-0 0-1-15] [9:E/	5-7-0 100 0-3-4] [12:0-1-8 0-1-8	5-7-0	6-0-11	6-1-1
	[2.0-0-13,0-2-10], [4.0-4-0,0-1-13], [3.20	 			1
LOADING (psf) TCLL 25.0 TCDL 20.0 BCLL 0.0 BCDL 10.0	SPACING-2-0-0Plate Grip DOL1.15Lumber DOL1.15Rep Stress IncrYESCode IRC2018/TPI2014	CSI. TC 0.75 BC 0.85 WB 0.74 Matrix-AS	DEFL. in Vert(LL) -0.38 Vert(CT) -0.92 Horz(CT) 0.13	(loc) l/defl L/d 12-14 >999 240 12-14 >417 180 9 n/a n/a	PLATES GRIP MT20 197/144 Weight: 131 lb FT = 20%
LUMBER- TOP CHORD 2x4 SF BOT CHORD 2x4 SF WEBS 2x4 SF OTHERS 2x4 SF WEDGE Left: 2x6 SPF No.2 , Ri	PF No.2 PF 1650F 1.5E PF No.2 PF No.2 ght: 2x6 SPF No.2		BRACING- TOP CHORD BOT CHORD	Structural wood sheathing di 2-0-0 oc purlins (2-8-8 max.) Rigid ceiling directly applied.	rectly applied, except : 4-6.
REACTIONS. (size Max H Max U Max G	e) 2=0-3-8, 9=0-3-8 orz 2=-89(LC 17) plift 2=-243(LC 12), 9=-154(LC 13) rav 2=1839(LC 1), 9=1839(LC 1)				
FORCES. (lb) - Max. TOP CHORD 2-3=- 7-8=- 7-8=- BOT CHORD 2-14= WEBS 4-14= 7-11= 7-11=	Comp./Max. Ten All forces 250 (lb) or 3099/423, 3-4=-2833/375, 4-5=-2480/36 2947/380, 8-9=-3078/334 =-397/2661, 12-14=-378/3099, 11-12=-1 =-40/763, 5-14=-792/170, 5-12=-327/136 =-152/505, 8-11=-375/162	less except when shown 66, 5-6=-2946/355, 6-7=-3 81/2281, 9-11=-236/2649 8, 6-12=-1763/274, 7-12=-	3289/414, - -290/2192,		
 NOTES- 1) Unbalanced roof live 2) Wind: ASCE 7-16; V MWFRS (envelope) Interior(1) 11-8-4 to vertical left and right 3) Provide adequate di 4) This truss has been 5) Provide mechanical 2=243, 9=154. 6) This truss is designer referenced standard 7) This truss design re- sheetrock be applied 8) Graphical purlin repr 	e loads have been considered for this de fult=115mph (3-second gust) Vasd=91m gable end zone and C-C Exterior(2E) - 21-7-0, Exterior(2R) 21-7-0 to 24-7-0, Ir exposed;C-C for members and forces a ainage to prevent water ponding. designed for a 10.0 psf bottom chord liv connection (by others) of truss to bearin ad in accordance with the 2018 Internation ANSI/TPI 1. quires that a minimum of 7/16" structura d directly to the bottom chord. resentation does not depict the size or the	sign. hph; TCDL=6.0psf; BCDL= -10-8 to 2-1-8, Interior(1) terior(1) 24-7-0 to 32-10- & MWFRS for reactions sl e load nonconcurrent with g plate capable of withsta onal Residential Code sec I wood sheathing be appli ne orientation of the purlin	=4.2psf; h=15ft; Cat. II; E 2-1-8 to 8-8-4, Exterior(2 8 zone; cantilever left and hown; Lumber DOL=1.60 h any other live loads. anding 100 lb uplift at join ctions R502.11.1 and R80 led directly to the top cho h along the top and/or bot	xp C; Enclosed; R) 8-8-4 to 11-8-4, d right exposed ; end plate grip DOL=1.60 tt(s) except (jt=lb) D2.10.2 and rd and 1/2" gypsum tom chord.	SCOTT M. SEVIER PE-2001018807

#SSIONAL E September 7,2021



RELE CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACT	ASE FOR CONSTRUCTION
Job Truss Truss Type Qty Ply SUMMIT/WOODSIDE RIDG# #32/MOAS N	IOTED FOR PLAN REVIEW
2925455 B6 ROOF SPECIAL 1 1	VELOPMENT SERVICES
Job Reference (optional)	E'S SUMMIT, MISSOURI
Builders FirstSource (Valley Center), Valley Center, KS - 67147, 8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Şen 🎓	12/17099071 399 1 4
ID:VPVqvFnP0P0b1j2tZrlOqezdKbxO2YSR09AM0bWj∲poB6fy <mark>(m).be</mark>	c8_zAc(T3WhytLle
-0-10-8 6-8-4 + 12-3-4 + 17-10-4 + 19-10-4 + 23-3-12 + 27-7-11 +	32-0-0 32-10-8
0-10-8 6-8-4 ' 5-7-0 ' 5-7-0 ' 2-0-0 ' 3-5-8 ' 4-3-15	4-4-5 0-10-8

Scale = 1:57.0

16023 Swingley Ridge Rd Chesterfield, MO 63017



L	6-8-4	12-3-4	17-10-4	19-10-4	23-3-12	32-0-0	
	6-8-4	5-7-0 '	5-7-0	2-0-0	3-5-8	8-8-4	
Plate Offsets (X,Y)	[2:0-0-15,0-2-10], [3:0-6-0,0-0	-15], [6:0-4-0,0-1-15], [9:Edge,0-3	3-4], [12:0-3-8,0-2-8				
LOADING (psf) TCLL 25.0 TCDL 20.0 BCLL 0.0 BCDL 10.0	SPACING- 2-0 Plate Grip DOL 1. Lumber DOL 1. Rep Stress Incr YI Code IRC2018/TPI201	O-0 CSI. 15 TC 0.75 15 BC 0.99 ES WB 0.60 4 Matrix-AS	DEFL. Vert(LL) Vert(CT) Horz(CT)	in (loc) -0.24 12-14 -0.58 12-14 0.15 9	l/defl L/d >999 240 >664 180 n/a n/a	PLATES MT20 Weight: 130 lb	GRIP 197/144 FT = 20%
LUMBER- TOP CHORD 2x4 SF BOT CHORD 2x4 SF WEBS 2x4 SF OTHERS 2x4 SF WEDGE Left: 2x6 SPF No.2 , R	2F No.2 2F No.2 2F No.2 2F No.2 2F No.2 ight: 2x6 SPF No.2		BRACING- TOP CHOF BOT CHOF	RD Struct 2-0-0 RD Rigid	ural wood sheath oc purlins (2-2-0 ceiling directly ap	hing directly applied, except max.): 3-5, 6-7. oplied.	
REACTIONS. (siz Max H Max U Max G	e) 2=0-3-8, 9=0-3-8 orz 2=-75(LC 13) plift 2=-235(LC 12), 9=-137(LC rav 2=1839(LC 1), 9=1839(LC	C 13) C 1)					
FORCES. (lb) - Max. TOP CHORD 2-3=- 7-8=- 7-8=- BOT CHORD 2-15= WEBS 3-14= 7-11= 7-11=	Comp./Max. Ten All forces 2 3076/385, 3-4=-3874/486, 4-5 2799/365, 8-9=-3085/391 =-325/2639, 14-15=-326/2636, =-195/1466, 4-14=-629/167, 5- =-64/783, 8-11=-278/142	250 (lb) or less except when shov =-3874/486, 5-6=-3375/445, 6-7= 12-14=-384/3893, 11-12=-250/2 12=-1994/318, 6-12=-241/1890,	vn. =-2441/361, 913, 9-11=-288/265 6-11=-850/132,	5			
 NOTES- 1) Unbalanced roof live 2) Wind: ASCE 7-16; V MWFRS (envelope) Interior(1) 9-8-4 to 1 Interior(1) 26-3-12 tt & MWFRS for reacti 3) Provide adequate di 4) This truss has been 5) Provide mechanical 2=235, 9=137. 6) This truss is design re- referenced standard 7) This truss is design re- sheetrock be applied 8) Graphical purlin rep 	e loads have been considered f (ult=115mph (3-second gust) V gable end zone and C-C Exter 9-10-4, Exterior(2R) 19-10-4 to 32-10-8 zone; cantilever left at ons shown; Lumber DOL=1.60 rainage to prevent water pondin designed for a 10.0 psf bottom connection (by others) of truss end in accordance with the 2018 ANSI/TPI 1. quires that a minimum of 7/16" d directly to the bottom chord. resentation does not depict the	for this design. (asd=91mph; TCDL=6.0psf; BCD rior(2E) -0-10-8 to 2-1-8, Interior(o 22-10-4, Interior(1) 22-10-4 to 2 and right exposed ; end vertical le plate grip DOL=1.60 ng. o chord live load nonconcurrent w to bearing plate capable of with: International Residential Code s structural wood sheathing be ap e size or the orientation of the pur	DL=4.2psf; h=15ft; Ci 1) 2-1-8 to 6-8-4, Ex 23-3-12, Exterior(2R) eft and right exposed with any other live los standing 100 lb uplif sections R502.11.1 a plied directly to the f tin along the top and	at. II; Exp C; E terior(2R) 6-8- 23-3-12 to 26 ;C-C for mem ads. t at joint(s) exc und R802.10.2 op chord and I/or bottom cho	inclosed; -4 to 9-8-4, 5-3-12, ibers and forces cept (it=lb) and 1/2" gypsum ord.	SCOT SEVENCE SCOT SEVENCE SEVE	MISSOLUTIA MISSOLUTIA MER 1018807 AL ENGLISH Der 7,2021



16023 Swingley Ridge Rd Chesterfield, MO 63017

						RELEASE FOR CONSTRUCTION
Job	Truss	Truss Type	Qty	Ply	SUMMIT/WOODSIDE RIDG	#32/MOAS NOTED FOR PLAN REVIEW
						DEVELOPMENT SERVICES
2925455	B7	ROOF SPECIAL GIRDER	1	2	Job Reference (optional)	LEE'S SUMMIT, MISSOURI
Builders FirstSour	ce (Valley Center), Vall	ley Center, KS - 67147,		8.430 s Au	g 16 2021 MiTek Industries, I	nc. Fri Sen 212/17-12-9021-8299 2 4
NOTES-			ID:VPVqvFnP	0P0b1j2tZrl	OqezdKbx-Ozeg5T31THO9N	

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

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

14) Hange(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 962 lb down and 252 lb up at 17-10-4, and 962 lb down and 252 lb up at 25-3-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-3=-90, 3-6=-90, 6-7=-90, 7-9=-90, 9-12=-90, 21-24=-20

Concentrated Loads (lb)

Vert: 3=-87(B) 20=-388(B) 14=-962(B) 16=-962(B) 27=-87(B) 28=-87(B) 29=-87(B) 30=-49(B) 31=-49(B) 32=-49(B) 33=-392(B) 34=-344(B) 35=-344(B) 36=-344(B) 36=-360(B) 36





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 12-9-0 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) 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, 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.

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.







2) All plates are MT20 plates unless otherwise indicated.

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

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

5) Bearing at joint(s) 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) 8, 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.

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.



16023 Swingley Ridge Rd Chesterfield, MO 63017



 TOP CHORD
 2x4 SPF No.2

 BOT CHORD
 2x4 SPF No.2 *Except*

 2-13: 2x6 SPF No.2, 10-13: 2x4 SPF 1650F 1.5E

 WEBS
 2x4 SPF No.2

BRACING-TOP CHORD BOT CHORD

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

REACTIONS. (size) 8=Mechanical, 2=0-3-8 Max Horz 2=251(LC 11) Max Uplift 8=-77(LC 9), 2=-74(LC 12) Max Grav 8=700(LC 1), 2=768(LC 1)

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

- TOP CHORD 2-3=-1080/71, 3-4=-908/137, 8-10=-680/190
- BOT CHORD 2-13=-284/850, 12-13=-268/812, 11-12=-268/812, 10-11=-298/802
- WEBS 4-10=-1011/235, 4-12=-8/361

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 12-9-0 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) All plates are MT20 plates unless otherwise indicated.

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

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

- 5) Bearing at joint(s) 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) 8, 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.
- 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.





4-10=-994/227

WEBS

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 2-1-12, Interior(1) 2-1-12 to 12-9-0 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) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

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

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



MiTek 16023 Swingley Ridge Rd Chesterfield, MO 63017



LUMBER- TOP CHORD	2x6 SPF No.2 *Except* 5-6: 2x4 SPF No.2 2x4 SPF No.2	BRACING- TOP CHORD BOT CHORD	Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 5-6. Rigid ceiling directly applied.
WEBS	2x4 SPF No.2		

REACTIONS. (size) 7=Mechanical, 2=0-3-8 Max Horz 2=211(LC 11) Max Uplift 7=-110(LC 12), 2=-97(LC 12) Max Grav 7=690(LC 1), 2=775(LC 1)

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

- TOP CHORD 3-14=-445/74, 3-4=-1146/150, 4-5=-1303/267, 7-9=-669/204
- BOT CHORD 3-11=-380/1065, 10-11=-157/274, 9-10=-159/291
- WEBS 4-11=-746/291, 5-9=-609/242, 5-11=-328/1198

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 2-1-12, Interior(1) 2-1-12 to 10-8-4, Exterior(2E) 10-8-4 to 12-7-4 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2 except (jt=lb) 7=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.

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

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



16023 Swingley Ridge Rd Chesterfield, MO 63017



WEBS 4-10=-401/195, 5-10=-247/868

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 2-1-12, Interior(1) 2-1-12 to 8-8-4, Exterior(2E) 8-8-4 to 12-7-4 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6 except (jt=lb) 2=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.

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

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



Mitek° 16023 Swingley Ridge Rd Chesterfield, MO 63017



		2-3-8	1	6-8-4	1		11-4-0		12-9-0	1
		2-3-8	1	4-4-12	1		4-7-12		1-5-0	
Plate Offse	ets (X,Y)	[3:0-4-8,Edge]								
LOADING	(psf)	SPACING- 2	-0-0 CSI.		DEFL.	in (lo	c) l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15 TC	0.97	Vert(LL)	-0.15 3-1	0 >999	240	MT20	197/144
TCDL	20.0	Lumber DOL	1.15 BC	0.78	Vert(CT)	-0.33 3-1	0 >459	180		
BCLL	0.0	Rep Stress Incr	YES WB	0.24	Horz(CT)	0.21	6 n/a	n/a		
BCDL	10.0	Code IRC2018/TPI20	014 Matri	ix-AS					Weight: 53 lb	FT = 20%

LUMBER-		BRACING-	
TOP CHORD	2x6 SPF No.2 *Except*	TOP CHORD	Structural wood sheathing directly applied, except end verticals, and
	4-5: 2x4 SPF No.2		2-0-0 oc purlins (5-2-9 max.): 4-5.
BOT CHORD	2x4 SPF No.2	BOT CHORD	Rigid ceiling directly applied.
WEBS	2x4 SPF No.2		

REACTIONS. (size) 6=Mechanical, 2=0-3-8 Max Horz 2=137(LC 11) Max Uplift 6=-95(LC 9), 2=-105(LC 12) Max Grav 6=690(LC 1), 2=775(LC 1)

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

TOP CHORD 3-13=-389/84, 3-4=-1087/193, 4-5=-985/231, 6-8=-667/145, 5-8=-639/163

BOT CHORD 3-10=-310/1001

WEBS 4-10=-267/144, 5-10=-272/984

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 2-1-12, Interior(1) 2-1-12 to 6-8-4, Exterior(2R) 6-8-4 to 10-11-3, Interior(1) 10-11-3 to 12-7-4 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6 except (jt=lb) 2=105.

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

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

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







	2-3-8 2	4-12	4-0-6			2-7-6	I	1-5-0		
Plate Offsets (X,Y)	[2:0-0-0,0-0-1], [2:0-0-10,0-6-15], [3:0	-10-0,Edge], [4:0-5-4,0-2-8]], [11:0-3-12,0-2-0], [12:0	-4-8,0-1-	8]					
LOADING (psf) TCLL 25.0 TCDL 20.0 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 0.97 BC 0.76 WB 0.56 Matrix-MS	DEFL. in Vert(LL) -0.12 Vert(CT) -0.27 Horz(CT) 0.19	(loc) 3-12 3-12 7	l/defl L/d >999 240 >562 180 n/a n/a		PLATES MT20 Weight: 63 lb	GRIP 197/144 FT = 20%		
LUMBER- TOP CHORD 2x6 SF 4-6: 2x BOT CHORD 2x4 SF 3-9: 2x WEBS 2x4 SF WEDGE Left: 2x4 SPF No.2	2 2400F 2.0E *Except* 44 SPF No.2 2F No.2 *Except* 66 SPF 2100F 1.8E 2F No.2		BRACING- TOP CHORD BOT CHORD	Structur except Rigid ce	ral wood sheathing end verticals, and eiling directly appli	g directly ap 2-0-0 oc pu ed or 6-0-0	pplied or 3-5-6 urlins (3-4-10 n) oc bracing.	oc purlins, nax.): 4-6.		
REACTIONS. (siz Max H Max U Max G	e) 7=Mechanical, 2=0-3-8 lorz 2=99(LC 28) Jplift 7=-248(LC 5), 2=-242(LC 8) Grav 7=1166(LC 1), 2=1207(LC 1)									
FORCES. (lb) - Max. Comp./Max. Ten All forces 250 (lb) or less except when shown. TOP CHORD 2-3=-530/107, 3-4=-3139/686, 4-5=-2325/504, 7-9=-1139/251, 6-9=-991/230 BOT CHORD 3-12=-678/2934, 11-12=-698/3043 WEBS 4-12=-170/859, 4-11=-763/204, 5-11=-510/160, 6-11=-503/2287										
NOTES- 1) Unbalanced roof live 2) Wind: ASCE 7-16; N MWFRS (envelope) grip DOL=1.60 3) Provide adequate d 4) This truss has been 5) Refer to girder(s) fo 6) Provide mechanical 7=248, 2=242. 7) This truss is designer referenced standarc 8) Graphical purlin rep 9) "NAILED" indicates 10) Hanger(s) or other 4-8-4 on bottom cf 11) In the LOAD CASE LOAD CASE(S) Stan	 b-9-991/230 BOT CHORD 3-12=-678/2934, 11-12=-698/3043 WEBS 4-12=-170/859, 4-11=-763/204, 5-11=-510/160, 6-11=-503/2287 NOTES- Uhbalanced roof live loads have been considered for this design. 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 Provide adequate drainage to prevent water ponding. This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads. Refer to girder(s) for truss to truss connections. Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 7=248, 2=242. 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. Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord. NALLED' indicates 3-10d (0.148*x3) or 3-12d (0.148*x3.25') toe-nails per NDS guidlines. Hanger(s) or other connection device(s) is the responsibility of others. Hanger(s) no ther connection device(s) is all be provided sufficient to support concentrated load(s) 427 lb down and 147 lb up at 4-8-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others. In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B). 									

Continued on page 2

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



September 7,2021

N
N
7
1
N 7

LOAD CASE(S) Standard

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

Vert: 1-4=-90, 4-6=-90, 2-13=-20, 3-10=-20, 7-8=-20

Concentrated Loads (lb)

Vert: 4=-67(F) 12=-427(F) 5=-67(F) 11=-71(F) 15=-67(F) 16=-67(F) 17=-71(F) 18=-71(F)





grip DOL=1.60

2) All plates are MT20 plates unless otherwise indicated.

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

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

5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 7 except (jt=lb) 2=107.

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

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

LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf) Vert: 1-4=-90, 4-5=-40, 9-10=-20, 6-8=-20

Concentrated Loads (lb) Vert: 14=-59(F=-30, B=-30)







		2-10-10 2-10-10			5-9-3 2-10-10							
	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	0.15	Vert(LL)	-0.00	8	>999	240	MT20	197/144
TCDL	20.0	Lumber DOL	1.15	BC	0.10	Vert(CT)	-0.01	8	>999	180		
BCLL	0.0	Rep Stress Incr	NO	WB	0.07	Horz(CT)	0.00	7	n/a	n/a		
BCDL	10.0	Code IRC2018/TF	PI2014	Matri	x-MP						Weight: 25 lb	FT = 20%

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

BRACING-TOP CHORD BOT CHORD

Structural wood sheathing directly applied or 5-9-3 oc purlins, except end verticals. Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. 2=0-4-9, 7=Mechanical (size) Max Horz 2=95(LC 7) Max Uplift 2=-98(LC 4), 7=-66(LC 8) Max Grav 2=432(LC 1), 7=314(LC 1)

FORCES. (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) or less except when shown. 2-3=-392/65

TOP CHORD

BOT CHORD 2-8=-71/337, 7-8=-71/337 WEBS 3-7=-373/100

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

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

- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 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.
- 6) "NAILED" indicates 3-10d (0.148"x3") or 2-12d (0.148"x3.25") toe-nails per NDS guidlines.
- 7) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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

Uniform Loads (plf) Vert: 1-4=-90, 4-5=-40, 6-9=-20

Concentrated Loads (lb) Vert: 8=-14(F=-7, B=-7)







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 truss systems, see **ANSUTP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601 16023 Swingley Ridge Rd Chesterfield, MO 63017



LOADING (psf) TCLL 25.0 TCDL 20.0 BCLL 0.0 BCDL 10.0	SPACING-2-0-0Plate Grip DOL1.15Lumber DOL1.15Rep Stress IncrNOCode IRC2018/TPI2014	CSI. TC 0.15 BC 0.13 WB 0.10 Matrix-MP	DEFL. in (loc) Vert(LL) -0.00 8 Vert(CT) -0.01 8 Horz(CT) 0.00 7	l/defl L/d 3 >999 240 3 >999 180 7 n/a n/a	PLATES GRIP MT20 197/144 Weight: 28 lb FT = 20%
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LUMBER-

TOP CHORD 2x4 SPF No 2 BOT CHORD 2x6 SPF No.2 WEBS 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. 2=0-4-9, 7=Mechanical (size) Max Horz 2=105(LC 7) Max Uplift 2=-103(LC 4), 7=-78(LC 8) Max Grav 2=477(LC 1), 7=367(LC 1)

FORCES. (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) or less except when shown. 2-3=-489/80

TOP CHORD

BOT CHORD 2-8=-97/424, 7-8=-97/424 WEBS 3-7=-467/120

NOTES-

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

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

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

4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 7 except (jt=lb) 2 = 103

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

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

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

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-4=-90, 4-5=-40, 6-9=-20 Concentrated Loads (lb) Vert: 13=-31(F=-16, B=-16)







			I		4-2-3		1			7-2-9	1	
			Γ		4-2-3		1			3-0-6	1	
Plate Of	fsets (X,Y)	[2:0-3-10,0-0-14]										
LOADIN	IG (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.23	Vert(LL)	-0.03	8	>999	240	MT20	197/144
TCDL	20.0	Lumber DOL	1.15	BC	0.33	Vert(CT)	-0.05	8	>999	180		
BCLL	0.0	Rep Stress Incr	NO	WB	0.21	Horz(CT)	0.02	7	n/a	n/a		
BCDL	10.0	Code IRC2018/T	PI2014	Matr	x-MP						Weight: 27 lb	FT = 20%

LUMBER-			BRACING-		
TOP CHORD	2x4 SP	F No.2	TOP CHORD	Structural wood sheathing dir	rectly applied or 4-9-11 oc purlins,
BOT CHORD	2x4 SP	F No.2 *Except*		except end verticals.	
	2-8: 2x6	6 SPF No.2	BOT CHORD	Rigid ceiling directly applied	or 10-0-0 oc bracing.
WEBS	2x4 SP	F No.2			-

REACTIONS. (size) 2=0-3-7, 7=Mechanical Max Horz 2=99(LC 5) Max Uplift 2=-135(LC 4), 7=-133(LC 8) Max Grav 2=598(LC 1), 7=532(LC 1)

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

TOP CHORD 2-3=-1414/360

BOT CHORD 2-8=-369/1317, 7-8=-328/1177

WEBS 3-8=-165/594, 3-7=-1235/361

NOTES-

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

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

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

- 4) 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) except (jt=lb) 2=135, 7=133.
- 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) "NAILED" indicates 3-10d (0.148"x3") or 2-12d (0.148"x3.25") toe-nails per NDS guidlines.
- 8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf) Vert: 1-4=-90, 4-5=-40, 8-9=-20, 6-8=-20 Concentrated Loads (lb)

Vert: 8=-238(F=-119, B=-119)



MiTek 16023 Swingley Ridge Rd Chesterfield, MO 63017



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16023 Swingley Ridge Rd Chesterfield, MO 63017


11	IM	IRF	P_
			1.

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

Structural wood sheathing directly applied or 5-3-15 oc purlins. Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 3=Mechanical, 2=0-4-9, 4=Mechanical Max Horz 2=90(LC 4) Max Uplift 3=-58(LC 8), 2=-89(LC 4), 4=-7(LC 8) Max Grav 3=180(LC 1), 2=419(LC 1), 4=121(LC 3)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed;
- MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) Refer to girder(s) for truss to truss connections.
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 2, 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.
- 6) "NAILED" indicates 3-10d (0.148"x3") or 2-12d (0.148"x3.25") toe-nails per NDS guidlines.
- 7) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
- Vert: 1-3=-90, 4-5=-20 Concentrated Loads (lb) Vert: 9=-9(F=-5, B=-5)







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

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







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, 2.

- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and
- referenced standard ANSI/TPI 1. 8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum
- sheetrock be applied directly to the bottom chord. 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



16023 Swingley Ridge Rd Chesterfield, MO 63017



Left: 2x4 SPF No.2

REACTIONS. (size) 2=0-3-8, 5=Mechanical Max Horz 2=222(LC 11) Max Uplift 2=-79(LC 12), 5=-118(LC 12) Max Grav 2=690(LC 1), 5=605(LC 1)

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

TOP CHORD 2-3=-822/137 BOT CHORD 2-6=-244/665, 5-6=-244/665

BOT CHORD 2-6=-244/665, 5-6=-244/6 WEBS 3-5=-724/199

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 11-0-12 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 except (jt=lb) 5=118.

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

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







		1	5-5-11	1	5-8-13		1
	(psf)	SPACING- 2-0-0	CSI.	DEFL. in	i (loc) l/defl	L/d	PLATES GRIP
TCDL	25.0 20.0	Lumber DOL 1.15	BC 0.27	Vert(CT) -0.02	7-8 >999	240 180	M120 197/144
BCLL	0.0	Rep Stress Incr YES	WB 0.47 Matrix AS	Horz(CT) 0.01	7 n/a	n/a	Weight: 45 lb ET - 20%
BCDL	10.0	Code IRC2018/1712014	Matrix-AS				Weight: 45 lb $FT = 20.78$

BRACING-

TOP CHORD

BOT CHORD

```
LUMBER-
```

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

Left: 2x4 SPF No.2

REACTIONS. (size) 2=0-3-8, 7=Mechanical Max Horz 2=222(LC 11) Max Uplift 2=-69(LC 12), 7=-70(LC 12) Max Grav 2=683(LC 1), 7=615(LC 1)

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

2-3=-795/133 TOP CHORD BOT CHORD 2-8=-249/637, 7-8=-249/637

WEBS 3-7=-702/207

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 11-2-8 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.

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, 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.
- 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.



Structural wood sheathing directly applied, except end verticals.

Rigid ceiling directly applied.





 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.



16023 Swingley Ridge Rd Chesterfield, MO 63017



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

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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16023 Swingley Ridge Rd Chesterfield, MO 63017

						RELEASE FOR CONSTRUCTION
Job	Truss	Truss Type	Qty	Ply	SUMMIT/WOODSIDE RIDG	#32/MOAS NOTED FOR PLAN REVIEW
2925455	F3	Hin Girder	1	1		DEVELOPMENT SERVICES
					Job Reference (optional)	LEE'S SUMMIT, MISSOURI
Builders FirstSource (Valley	Center), Valley Center, K	S - 67147,		8.430 s Au	ig 16 2021 MiTek Industries, I	ic. Fri Sen @12/1735-9021-Page 2 /
		ID:VPV	/qvFnP0P(0b1j2tZrlOc	ezdKbx-DOXNvKKT3MluejN	

LOAD CASE(S) Standard

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

Vert: 1-4=90, 4-5=-90, 5-7=-90, 11-16=-20, 8-11=-20, 8-12=-20 Concentrated Loads (lb)

Vert: 10=-764(F) 9=-783(F)





5x8 =

Mitek* 16023 Swingley Ridge Rd Chesterfield, MO 63017



L	4-2-0	7-6-4	11-0-4	15-0-0	17-0-0 19-0-0	22-0-13 25-2-0
	4-2-0	3-4-4	3-6-0	3-11-12	2-0-0 ' 2-0-0 '	3-0-13 ' 3-1-3 '
Plate Offsets (X,Y)	[5:0-3-8,0-2-0], [7:0-4-0,0	-1-15], [9:Edge	,0-0-3], [11:0-3-8,0-4-8],	[12:0-5-8,0-1-8]		
LOADING (psf) TCLL 25.0 TCDL 20.0 BCLL 0.0 BCDL 10.0	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr Code IRC2018/TP	2-0-0 1.15 1.15 NO PI2014	CSI. TC 0.75 BC 0.46 WB 0.80 Matrix-MS	DEFL. in Vert(LL) -0.06 Vert(CT) -0.13 Horz(CT) 0.01	(loc) l/defl L/d 11-12 >999 240 11-12 >999 180 9 n/a n/a	PLATES GRIP MT20 197/144 Weight: 118 lb FT = 20%
				PRACINC		
TOP CHORD 2x4 SF BOT CHORD 2x6 SF 9-14: 2 WEBS 2x4 SF	PF No.2 PF No.2 *Except* xx6 SP 2400F 2.0E PF No.2			BRACING- TOP CHORD BOT CHORD	Structural wood sheathing except 2-0-0 oc purlins (4-0-7 ma: Rigid ceiling directly applie	directly applied or 3-0-13 oc purlins, x.): 3-6, 7-8. ed or 6-0-0 oc bracing.
REACTIONS. (siz Max H Max U Max G	e) 2=0-3-8, 13=0-3-8, 9= lorz 2=55(LC 33) lplift 2=-118(LC 8), 13=-59 irav 2=686(LC 21), 13=32	=0-3-8 97(LC 8), 9=-27 214(LC 1), 9=14	7(LC 9) I38(LC 1)			
FORCES. (lb) - Max. TOP CHORD 2-3=- 7-8=- BOT CHORD 2-15= WEBS 6-12= 4-13=	Comp./Max. Ten All ford -889/138, 3-4=-728/151, 4 -1997/471, 8-9=-2387/495 114/725, 12-13=-1458/3 882/212, 8-11=-179/714 1678/392, 5-13=-2024/4	ces 250 (lb) or -5=-292/1458, s 31, 11-12=-260 , 7-12=-313/27, 61, 4-15=-130/	less except when shown 5-6=-1430/328, 6-7=-156)/1498, 9-11=-353/2026 , 7-11=-217/939, 5-12=-6 887	66/368, 877/3271,		
 NOTES- 1) Unbalanced roof live 2) Wind: ASCE 7-16; MWFRS (envelope) grip DOL=1.60 3) Provide adequate di 4) This truss has been 5) Provide mechanical 2=118, 13=597, 9=2 6) This truss is designer referenced standard 7) Graphical purlin rep 8) Use Simpson Strong front face of bottom 9) Fill all nail holes whe 10) "NAILED" indicates 11) Hanger(s) or other 17-0-0, and 846 lb responsibility of ott 12) In the LOAD CASE LOAD CASE(S) Stan 	a loads have been conside /ult=115mph (3-second gu gable end zone; cantileve rainage to prevent water p designed for a 10.0 psf bo connection (by others) of 277. ad in accordance with the 2 I ANSI/TPI 1. resentation does not depid j-Tie LTHJA26 (LTHJA26 chord, skewed 0.0 deg.to ere hanger is in contact wi s 3-10d (0.148"x3") or 3-12 connection device(s) shal down and 255 lb up at 18 ners. E(S) section, loads applied dard	ered for this desist) Vasd=91mp er left and right of bonding. Dottom chord live truss to bearing 2018 Internatio 2018 Internatio 2018 Internatio the size or the on 1 ply, Left H the left, sloping th lumber. 2d (0.148"x3.25 Il be provided s 3-11-4 on botton	sign. sh; TCDL=6.0psf; BCDL= exposed ; end vertical lef b load nonconcurrent with g plate capable of withsta nal Residential Code sec e orientation of the purlin land Hip) or equivalent a g 0.0 deg. down. 5") toe-nails per NDS gui ufficient to support conce m chord. The design/sel he truss are noted as fro	=4.2psf; h=15ft; Cat. II; E ft and right exposed; Lum n any other live loads. anding 100 lb uplift at join ctions R502.11.1 and R80 along the top and/or bot t 4-2-6 from the left end t dlines. entrated load(s) 846 lb do ection of such connection int (F) or back (B).	xp C; Enclosed; hber DOL=1.60 plate t(s) except (jt=lb) 02.10.2 and tom chord. o connect truss(es) to wm and 255 lb up at h device(s) is the	September 7 2021

Continued on page 2

						RELEASE FOR CONSTRUCTION
Job	Truss	Truss Type	Qty	Ply	SUMMIT/WOODSIDE RIDG	#32/MOAS NOTED FOR PLAN REVIEW
						DEVELOPMENT SERVICES
2925455	F1	Roof Special Girder	1	1	lob Reference (optional)	LEE'S SUMMIT. MISSOURI
Builders FirstSource (Valley	Center), Valley Center, K	ا S - 67147,		8.430 s Au	ig 16 2021 MiTek Industries, I	IC. Fri Sen 012/1737-9021-Page 2
		10.01	v qvi tir oi			

LOAD CASE(S) Standard

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

Vert: 1-3=-90, 3-6=-90, 6-7=-90, 7-8=-90, 8-10=-90, 16-19=-20

Concentrated Loads (lb) Vert: 3=-65(F) 15=-327(F) 11=-846(F) 22=-65(F) 23=-65(F) 24=-65(F) 25=-42(F) 26=-42(F) 27=-42(F) 28=-846(F)





Scale = 1:44.6

OFFESSIONAL ET

16023 Swingley Ridge Rd Chesterfield, MO 63017

September 7,2021



	6-2-0	11-0-4	17-0-0	18-0-0	25-2-0	
Plate Offsets (X,Y)	[3:0-4-0,0-1-15]	4-10-4	5-11-12	1-0-0	7-2-0	
LOADING (psf) TCLL 25.0 TCDL 20.0 BCLL 0.0 BCDL 10.0	SPACING-2-0-0Plate Grip DOL1.15Lumber DOL1.15Rep Stress IncrYESCode IRC2018/TPI2014	CSI. TC 0.59 BC 0.47 WB 0.76 Matrix-AS	DEFL. in Vert(LL) -0.06 Vert(CT) -0.14 Horz(CT) 0.02	(loc) l/defl L/d 9-18 >999 240 9-18 >999 180 2 n/a n/a	PLATES G MT20 1 Weight: 92 lb	GRIP 97/144 FT = 20%
LUMBER- TOP CHORD 2x4 SP BOT CHORD 2x4 SP WEBS 2x4 SP WEDGE Left: 2x4 SPF No.2 , Ri	F No.2 F No.2 F No.2 ght: 2x4 SPF No.2		BRACING- TOP CHORD BOT CHORD	Structural wood sheathing di 2-0-0 oc purlins (6-0-0 max.) Rigid ceiling directly applied.	rectly applied, except : 3-5.	
REACTIONS. (size Max H Max U Max G	e) 2=0-3-8, 7=0-3-8, 10=0-3-8 orz 2=64(LC 12) plift 2=-106(LC 12), 7=-120(LC 13), 10= rav 2=666(LC 1), 7=842(LC 1), 10=141	-169(LC 12) 7(LC 1)				
FORCES. (lb) - Max. TOP CHORD 2-3=- BOT CHORD 2-12= WEBS 4-10=	Comp./Max. Ten All forces 250 (lb) or 697/145, 5-6=-853/188, 6-7=-988/165 86/531, 10-12=-87/524, 9-10=-76/826, 533/155, 3-10=-642/97, 5-10=-917/97,	less except when shown. 7-9=-58/771 6-9=-63/437, 5-9=-290/123				
NOTES- 1) Unbalanced roof live 2) Wind: ASCE 7-16; V MWFRS (envelope) Interior(1) 9-2-0 to 11 vertical left and right 3) Provide adequate dr 4) This truss has been 5) Provide mechanical 2=106, 7=120, 10=1 () This truss is design referenced standard 7) This truss design rec sheetrock be applied 8) Graphical purlin repr	e loads have been considered for this de fult=115mph (3-second gust) Vasd=91m gable end zone and C-C Exterior(2E) -0 8-0-0, Exterior(2R) 18-0-0 to 21-0-0, Int exposed;C-C for members and forces a ainage to prevent water ponding. designed for a 10.0 psf bottom chord liv connection (by others) of truss to bearir 69. di in accordance with the 2018 Internatii ANSI/TPI 1. quires that a minimum of 7/16" structura d directly to the bottom chord. esentation does not depict the size or th	sign. ph; TCDL=6.0psf; BCDL=4. -10-8 to 2-1-8, Interior(1) 2- rrior(1) 21-0-0 to 26-0-8 zon & MWFRS for reactions show e load nonconcurrent with a g plate capable of withstand onal Residential Code section wood sheathing be applied e orientation of the purlin al	2psf; h=15ft; Cat. II; E 1-8 to 6-2-0, Exterior(2 le; cantilever left and ri wn; Lumber DOL=1.60 ny other live loads. ding 100 lb uplift at join ons R502.11.1 and R80 directly to the top choi ong the top and/or bott	xp C; Enclosed; (R) 6-2-0 to 9-2-0, ght exposed ; end plate grip DOL=1.60 t(s) except (jt=lb) 02.10.2 and rd and 1/2" gypsum com chord.	SCOT SEV	MISSOLUTION





Continued on page 2

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Mitek° 16023 Swingley Ridge Rd Chesterfield, MO 63017

						RELEASE FOR CONSTRUCTION
Job	Truss	Truss Type	Qty	Ply	SUMMIT/WOODSIDE RIDG	#32/MOAS NOTED FOR PLAN REVIEW
						DEVELOPMENT SERVICES
2925455	F3	Half Hip Girder	1	2	Job Reference (optional)	LEE'S SUMMIT, MISSOURI
Builders FirstSource (Valley	Center), Valley Center, k	S - 67147,		8.430 s Au	ig 16 2021 MiTek Industries, I	ic. Fri Sen @12/1739-9021-Bage 27
		ID	VPVqvFnF	PUPUb1j2tZ	riOqezdKbx-59ntliOz6aoK6K	aYUtiAUUC CYABAZODY greaty LLA

LOAD CASE(S) Standard

Uniform Loads (plf) Vert: 1-3=-90, 3-4=-90, 5-8=-20 Concentrated Loads (lb)

Vert: 11=-1670(B) 12=-1662(B) 13=-1662(B) 14=-1662(B) 15=-1662(B)





16023 Swingley Ridge Rd Chesterfield, MO 63017



- 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 3-11-0, Exterior(2R) 3-11-0 to 6-11-0,
- Interior(1) 6-11-0 to 8-8-8 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, 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.
- 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.







				6-8-4					
	(psf)	SPACING- 2-0-0 Plate Grip DOI 1 15	CSI.	DEFL. in	(loc)	l/defl L/	d 0	PLATES	GRIP
TCDL	20.0	Lumber DOL 1.15	BC 0.51	Vert(CT) -0.21	6-9	>368 18	0	11120	137/144
BCLL BCDL	0.0 10.0	Rep Stress Incr YES Code IRC2018/TPI2014	WB 0.06 Matrix-AS	Horz(CT) 0.03	2	n/a n/	a	Weight: 22 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

Structural wood sheathing directly applied.

Rigid ceiling directly applied.

LUMBER-

 TOP CHORD
 2x4 SPF No.2

 BOT CHORD
 2x4 SPF No.2

 WEBS
 2x4 SPF No.2

 WEDGE
 Left: 2x4 SPF No.2

REACTIONS.

(size) 2=0-3-8, 6=Mechanical Max Horz 2=132(LC 12) Max Uplift 2=-35(LC 12), 6=-82(LC 12) Max Grav 2=436(LC 1), 6=364(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. WEBS 3-6=-265/182

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 6-8-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

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

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

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







				4-7-3					
LOADING TCLL	G (psf) 25.0	SPACING- 2-0-0 Plate Grip DOL 1.15	CSI. TC 0.33	DEFL. in Vert(LL) 0.03	(loc) 4-7	l/defl L >999 24	/d 10	PLATES MT20	GRIP 197/144
TCDL	20.0	Lumber DOL 1.15	BC 0.25	Vert(CT) -0.05	4-7	>997 18	30		
BCLL	0.0	Rep Stress Incr YES	WB 0.00	Horz(CT) 0.01	2	n/a n	/a		
BCDL	10.0	Code IRC2018/TPI2014	Matrix-AS					Weight: 13 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

Structural wood sheathing directly applied.

Rigid ceiling directly applied.

LUMBER-

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

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

Max Horz 2=97(LC 12) Max Uplift 3=-63(LC 12), 2=-29(LC 12)

Max Grav 3=174(LC 1), 2=336(LC 1), 4=89(LC 3)

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

NOTES-

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 4-6-7 zone; cantilever left and right
- exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) Refer to girder(s) for truss to truss connections.
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 2.
- 5) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and
- referenced standard ANSI/TPI 1.
- 6) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.







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

Structural wood sheathing directly applied or 2-7-3 oc purlins. Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 3=Mechanical, 2=0-3-8, 4=Mechanical Max Horz 2=60(LC 12) Max Uplift 3=-31(LC 12), 2=-25(LC 12), 4=-2(LC 12) Max Grav 3=82(LC 1), 2=232(LC 1), 4=56(LC 3)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed;
- MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 2-6-7 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) Refer to girder(s) for truss to truss connections.
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 2, 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.







4x6 ||

	ŀ		4-7-3 4-7-3						
LOADING (psf) TCLL 25.0 TCDL 20.0 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 0.34 BC 0.28 WB 0.00 Matrix-AS	DEFL. Vert(LL) Vert(CT) Horz(CT)	in 0.03 -0.06 0.01	(loc) 3-6 3-6 1	l/defl >999 >915 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 12 lb	GRIP 197/144 FT = 20%

BRACING-TOP CHORD

BOT CHORD

Structural wood sheathing directly applied.

Rigid ceiling directly applied.

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

REACTIONS. (size) 2=Mechanical, 3=Mechanical, 1=Mechanical

Max Horz 1=83(LC 12) Max Uplift 2=-63(LC 12), 1=-11(LC 12) Max Grav 2=177(LC 1), 3=91(LC 3), 1=250(LC 1)

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

NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed;

MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-0-0 to 3-0-0, Interior(1) 3-0-0 to 4-6-7 zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) Refer to girder(s) for truss to truss connections.
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 1.
- 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.







3x4 =

			2-7-3					
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 0.08	Vert(LL) -0.00	6	>999	240	MT20	197/144
TCDL 20.0	Lumber DOL 1.15	BC 0.06	Vert(CT) -0.00	3-6	>999	180		
BCLL 0.0	Rep Stress Incr YES	WB 0.00	Horz(CT) 0.00	1	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014	Matrix-MP					Weight: 8 lb	FT = 20%

272

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

REACTIONS. 1=Mechanical, 2=Mechanical, 3=Mechanical (size) Max Horz 1=46(LC 12)

Max Uplift 1=-5(LC 12), 2=-31(LC 12), 3=-5(LC 12)

Max Grav 1=140(LC 1), 2=85(LC 1), 3=61(LC 3)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 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) 1, 2, 3. 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 2-7-3 oc purlins.

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





LOADING (psf) TCLL 25.0 TCDL 20.0 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 0.53 BC 0.71 WB 0.00 Matrix-MP	DEFL. in (loc) l/defl L/d Vert(LL) -0.05 6-9 >969 240 Vert(CT) -0.12 6-9 >443 180 Horz(CT) 0.02 2 n/a n/a	PLATES GRIP MT20 197/144 Weight: 16 lb FT = 20%
LUMBER-			BRACING-	

LUMBER-

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

TOP CHORD Structural wood sheathing directly applied or 4-8-4 oc purlins, except end verticals. BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

Left: 2x4 SPF No.2

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

Max Horz 2=100(LC 7) Max Uplift 6=-67(LC 8), 2=-57(LC 8) Max Grav 6=412(LC 1), 2=521(LC 1)

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

NOTES-

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) Refer to girder(s) for truss to truss connections.
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6, 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) Use Simpson Strong-Tie LUS24 (4-10d Girder, 2-10d Truss, Single Ply Girder) or equivalent at 2-9-0 from the left end to connect truss(es) to back face of bottom chord.
- 7) Fill all nail holes where hanger is in contact with lumber.
- 8) "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidlines.
- 9) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)
 - Vert: 1-3=-90, 3-4=-40, 5-7=-20 Concentrated Loads (lb) Vert: 9=-122(B) 10=-230(B)







LOADING (psf) SPACING- 2-0-0 CSI. DEFL. in (loc) l/defl L/d TCLL 25.0 Plate Grip DOL 1.15 TC 0.34 Vert(LL) 0.03 4-7 >999 240	PLATES	
TCDL 20.0 Lumber DOL 1.15 BC 0.26 Vert(CT) -0.06 4-7 >942 180 BCLL 0.0 Rep Stress Incr YES WB 0.00 Horz(CT) 0.01 2 n/a n/a BCDL 10.0 Code IBC2018/TPI2014 Matrix-AS Matrix-AS Image: Code I	MT20	GRIP 197/144 ET = 20%

BRACING-

TOP CHORD

BOT CHORD

Structural wood sheathing directly applied.

Rigid ceiling directly applied.

LUMBER-

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

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

Max Harz 2-(

Max Horz 2=98(LC 12) Max Uplift 3=-64(LC 12), 2=-29(LC 12) Max Grav 3=177(LC 1), 2=341(LC 1), 4=91(LC 3)

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

NOTES-

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 4-7-8 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) 3, 2.
- 5) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and
- referenced standard ANSI/TPI 1.
- 6) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.







LUMBER-

TOP CHORD 2x4 SPF No.2 BOT CHORD 2x4 SPF No.2 *Except* 2-6: 2x6 SPF No.2 BRACING-TOP CHORD BOT CHORD

Structural wood sheathing directly applied. Rigid ceiling directly applied.

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

Max Horz 2=98(LC 12) Max Uplift 4=-50(LC 12), 2=-31(LC 12), 5=-10(LC 12) Max Grav 4=157(LC 1), 2=342(LC 1), 5=93(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=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-0-5, Interior(1) 2-0-5 to 4-7-8 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) 4, 2, 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.
- 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.





LUMBER-

TOP CHORD 2x4 SPF No.2 BOT CHORD 2x4 SPF No.2 *Except* 2-6: 2x6 SPF No.2 BRACING-TOP CHORD BOT CHORD

Structural wood sheathing directly applied or 2-7-3 oc purlins. Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) 4=Mechanical, 2=0-3-8, 5=Mechanical Max Horz 2=60(LC 12) Max Uplift 4=-21(LC 12), 2=-24(LC 12), 5=-10(LC 12)

Max Grav 4=74(LC 1), 2=234(LC 1), 5=58(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=4.2psf; h=15ft; Cat. II; Exp C; Enclosed;

MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 2-6-7 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

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

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

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







				4-2-0		
LOADING TCLL	G (psf) 25.0	SPACING- 2-0-0 Plate Grip DOL 1.15	CSI. TC 0.26	DEFL. in Vert(LL) 0.02	(loc) l/defl L/d 4-7 >999 240	PLATES GRIP MT20 197/144
TCDL	20.0	Lumber DOL 1.15	BC 0.21	Vert(CT) -0.04	4-7 >999 180	
BCLL	0.0	Rep Stress Incr YES	WB 0.00	Horz(CT) 0.01	2 n/a n/a	
BCDL	10.0	Code IRC2018/TPI2014	Matrix-AS			Weight: 12 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

Structural wood sheathing directly applied.

Rigid ceiling directly applied.

LUMBER-

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

Left: 2x4 SPF No.2

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

Max Horz 2=89(LC 12) Max Uplift 3=-56(LC 12), 2=-28(LC 12) Max Grav 3=155(LC 1), 2=313(LC 1), 4=80(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=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 4-1-4 zone; cantilever left and right
- exposed; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) Refer to girder(s) for truss to truss connections.
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 2.
- 5) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and
- referenced standard ANSI/TPI 1.
- 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.







LUMBER-

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

BRACING-TOP CHORD BOT CHORD

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

REACTIONS. 3=Mechanical, 2=0-3-8, 4=Mechanical (size) Max Horz 2=51(LC 12) Max Uplift 3=-24(LC 12), 2=-24(LC 12), 4=-2(LC 12) Max Grav 3=62(LC 1), 2=207(LC 1), 4=43(LC 3)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) Refer to girder(s) for truss to truss connections.

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







late Offsets (X,Y)	[2:Edge,0-2-5]		1		1					1	
OADING (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
CLL 25.0	Plate Grip DOL	1.15	TC	0.57	Vert(LL)	0.09	6-9	>813	240	MT20	197/144
CDL 20.0	Lumber DOL	1.15	BC	0.51	Vert(CT)	-0.20	6-9	>374	180		
CLL 0.0	Rep Stress Incr	YES	WB	0.05	Horz(CT)	0.03	2	n/a	n/a		
DL 10.0	Code IRC2018/T	PI2014	Matri	k-AS						Weight: 20 lb	FT = 20%
JMBER-					BRACING-						
JP CHORD 2x4	SPF No.2				TOP CHOP	D	Structu	ral wood	sheathing di	rectly applied.	

BOT CHORD

Rigid ceiling directly applied.

 TOP CHORD
 2x4 SPF No.2

 BOT CHORD
 2x4 SPF No.2

 WEBS
 2x4 SPF No.2

 WEDGE
 Left: 2x4 SPF No.2

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

Max Horz 2=126(LC 12) Max Uplift 2=-34(LC 12), 5=-81(LC 12) Max Grav 2=420(LC 1), 5=336(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. WEBS 3-6=-273/183

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 6-2-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

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

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

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

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.







				4-0-15			1	
LOADING TCLL TCDL BCLL	G (psf) 25.0 20.0 0.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES	CSI. TC 0.25 BC 0.20 WB 0.00	DEFL. i Vert(LL) 0.0 Vert(CT) -0.0 Horz(CT) 0.0	n (loc) 2 4-7 3 4-7 1 2	l/defl >999 >999 n/a	L/d 240 180 n/a	PLATES GRIP MT20 197/144
BCDL	10.0	Code IRC2018/TPI2014	Matrix-AS					Weight: 12 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

Structural wood sheathing directly applied.

Rigid ceiling directly applied.

LUMBER-

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

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

Max Horz 2=87(LC 12) Max Uplift 3=-55(LC 12), 2=-27(LC 12) Max Grav 3=152(LC 1), 2=308(LC 1), 4=79(LC 3)

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

NOTES-

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 4-0-3 zone; cantilever left and right
- exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) Refer to girder(s) for truss to truss connections.
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 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.







LOADING (p	(psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d PLATES GRIP Vert(LL) 0.02 4-7 >999 240 MT20 197/144 Vert(CT) -0.03 4-7 >999 180 Horz(CT) 0.01 1 n/a n/a
TCLL 2	25.0	Plate Grip DOL 1.15	TC 0.26	
TCDL 2	20.0	Lumber DOL 1.15	BC 0.20	
BCLL	0.0	Rep Stress Incr YES	WB 0.00	
BCDL 1	10.0	Code IRC2018/TPI2014	Matrix-AS	Weight: 12 lb FT = 20%

LUMBER-

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

BRACING-TOP CHORD BOT CHORD

Structural wood sheathing directly applied. Rigid ceiling directly applied.

REACTIONS. (size) 1=0-3-8, 3=Mechanical, 4=Mechanical

Max Horz 1=73(LC 12) Max Uplift 1=-8(LC 12), 3=-56(LC 12)

Max Grav 1=219(LC 1), 3=157(LC 1), 4=77(LC 3)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed;
- MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-0-0 to 3-0-0, Interior(1) 3-0-0 to 3-11-11 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) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) Refer to girder(s) for truss to truss connections.
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.
- 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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2x4 SPF No.2 TOP CHORD 2x6 SPF No.2 BOT CHORD

BRACING-TOP CHORD BOT CHORD

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

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

Max Horz 1=36(LC 12) Max Uplift 1=-3(LC 12), 2=-25(LC 12), 3=-5(LC 12)

Max Grav 1=109(LC 1), 2=66(LC 1), 3=48(LC 3)

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

NOTES-

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

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

4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 2, 3. 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.







		1	5-0-0						1		
			3-0-8		I	2-1-12		-12	1		
Plate Offsets (X,Y)	[2:0-2-4,0-1-3]										
LOADING (psf)	SPACING- 2-	0-0	CSI.	0.53	DEFL.	in 0.06	(loc)	l/defl	L/d 240	PLATES	GRIP
TCDL 20.0 BCLL 0.0	Lumber DOL 1 Rep Stress Incr Y	.15 ES	BC WB	0.23 0.04	Vert(CT) Horz(CT)	-0.11 0.04	8 7	>520 >522 n/a	180 n/a	WIZO	131/144
BCDL 10.0	Code IRC2018/TPI20	4	Matrix	-AS						Weight: 19 lb	FT = 20%
LUMBER-					BRACING-						

TOP CHORD

BOT CHORD

Structural wood sheathing directly applied.

Rigid ceiling directly applied.

LUMBER-

2x4 SPF No.2 TOP CHORD BOT CHORD 2x4 SPF No.2 *Except* 2-8: 2x6 SPF No.2 WEBS 2x4 SPF No.2

REACTIONS. (size) 2=0-3-8, 7=Mechanical Max Horz 2=108(LC 12) Max Uplift 2=-27(LC 12), 7=-72(LC 12)

Max Grav 2=355(LC 1), 7=280(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. WEBS 4-7=-255/177

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 5-2-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

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

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

- 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) 2, 7.
- 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.







Plate Offsets (X,Y)	[4:0-10-14,2-8-0]		
LOADING (psf) TCLL 25.0 TCDL 20.0 BCLL 0.0 BCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2018/TPI2014	CSI. TC 0.08 BC 0.07 WB 0.02 Matrix-MP	DEFL. in (loc) l/defl L/d Vert(LL) -0.00 7 >999 240 Vert(CT) -0.00 7 >999 180 Horz(CT) 0.00 2 n/a n/a
LUMBER-			BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

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

Max Horz 2=67(LC 12) Max Uplift 2=-24(LC 12), 3=-40(LC 12)

Max Grav 2=250(LC 1), 3=148(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=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 2-10-12 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) 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) 2, 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) Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.



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

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





		[0.0 .0]= 0 0]											
LOADING TCLL	i (psf) 25.0	SPACING- Plate Grip DOL	2-0-0 1.15	CSI. TC	0.08	DEFL. Vert(LL)	in -0.00	(loc) 6	l/defl >999	L/d 240	PLATES MT20	GRIP 197/144	
TCDL BCLL	20.0 0.0	Lumber DOL Rep Stress Incr	1.15 YES	BC WB	0.09 0.02	Vert(CT) Horz(CT)	-0.00 0.00	3-6 1	>999 n/a	180 n/a			
BCDL	10.0	Code IRC2018/TF	PI2014	Matri	x-MP						Weight: 11 lb	FT = 20%	
	-					BRACING-							

TOP CHORD

BOT CHORD

LUMBER-

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

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

Max Horz 1=53(LC 12) Max Uplift 1=-5(LC 12), 2=-42(LC 12)

Max Grav 1=159(LC 1), 2=159(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=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) zone; cantilever left and right exposed ; end vertical left and right

exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

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

- 4) Bearing at joint(s) 1 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) 1, 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) Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.



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

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




TCDL	20.0	Lumber DOL	1.15	BC 0.12
BCLL	0.0	Rep Stress Incr	YES	WB 0.00
BCDL	10.0	Code IRC2018/TP	12014	Matrix-MP

LUMBER-

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

Horz(CT)

0.00

3

n/a

n/a

Structural wood sheathing directly applied or 3-10-4 oc purlins. Rigid ceiling directly applied or 10-0-0 oc bracing.

Weight: 13 lb

FT = 20%

REACTIONS. (size) 3=Mechanical, 2=0-3-8, 4=Mechanical Max Horz 2=83(LC 12) Max Uplift 3=-48(LC 12), 2=-28(LC 12), 4=-2(LC 12) Max Grav 3=129(LC 1), 2=296(LC 1), 4=87(LC 3)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed;
- MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 3-9-8 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) 3, 2, 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.







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

TOP CHORD BOT CHORD

Structural wood sheathing directly applied or 1-9-3 oc purlins. Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. 3=Mechanical, 2=0-3-8, 4=Mechanical (size) Max Horz 2=46(LC 12) Max Uplift 3=-20(LC 12), 2=-24(LC 12), 4=-2(LC 12) Max Grav 3=52(LC 1), 2=195(LC 1), 4=36(LC 3)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) Refer to girder(s) for truss to truss connections.

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







BRACING-

TOP CHORD

BOT CHORD

LUMBER-

WEBS

OTHERS

TOP CHORD

BOT CHORD

REACTIONS.

(lb) -

FORCES. (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) or less except when shown. WEBS 5-9=-264/160

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) 0-3-15 to 3-3-15, Interior(1) 3-3-15 to 5-10-15, Exterior(2E) 5-10-15 to 8-7-10, Interior(1) 8-7-10 to 9-9-15 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

Max Uplift All uplift 100 lb or less at joint(s) 8, 10, 9 except 1=-109(LC 8), 11=-130(LC 12), 12=-123(LC 12) Max Grav All reactions 250 lb or less at joint(s) 1, 8, 10, 12 except 11=260(LC 19), 9=282(LC 20)

3) Provide adequate drainage to prevent water ponding.

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

2x4 SPF No.2

2x4 SPF No.2

2x4 SPF No.2

2x4 SPF No.2

All bearings 9-11-11. Max Horz 1=189(LC 9)

Gable requires continuous bottom chord bearing.

- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 8, 10, 9 except (jt=lb) 1=109, 11=130, 12=123.
- 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.



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

except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 6-7.

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





REACTIONS. All bearings 14-10-14.

(lb) - Max Horz 1=193(LC 9)

1-2=-275/174

Max Uplift All uplift 100 lb or less at joint(s) 1, 9 except 14=-126(LC 12), 15=-128(LC 12), 16=-109(LC 12), 12=-125(LC 13), 11=-129(LC 13), 10=-108(LC 13)

Max Grav All reactions 250 lb or less at joint(s) 1, 9, 13, 15, 16, 11, 10 except 14=253(LC 19), 12=252(LC 20)

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

NOTES-

TOP CHORD

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

 Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-3-15 to 3-5-7, Interior(1) 3-5-7 to 7-5-7, Exterior(2R) 7-5-7 to 10-5-7, Interior(1) 10-5-7 to 14-6-15 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

3) 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, 9 except (jt=lb) 14=126, 15=128, 16=109, 12=125, 11=129, 10=108.

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.



NiTek° 16023 Swingley Ridge Rd Chesterfield, MO 63017



- FORCES. (lb) Max. Comp./Max. Ten. All forces 250 (lb) or less except when shown.
- TOP CHORD 7-8=-250/190
- BOT CHORD 1-15=-214/298, 14-15=-213/308

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) 0-4-11 to 3-3-15, Interior(1) 3-3-15 to 5-3-15, Exterior(2R) 5-3-15 to 8-3-15, Interior(1) 8-3-15 to 13-3-15 zone; cantilever left and right exposed; end vertical left and right exposed;C-C for members and forces
- & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) 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) 8, 1 except (jt=lb) 14=219, 13=137, 15=157, 11=124, 10=123, 9=140.
- 7) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 1, 15.
- 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.







- FORCES. (Ib) Max. Comp./Max. Ten. All forces 250 (Ib) or less except when shown.
- WEBS 2-8=-324/203, 4-6=-324/202

NOTES-

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

3) Gable requires continuous bottom chord bearing.

- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1 except (jt=lb) 8=190, 6=190.
- 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.









16023 Swingley Ridge Rd Chesterfield, MO 63017



6 2x4 || 2x4

II	2x4	Ш

LOADING (psf) TCLL 25.0 TCDL 20.0 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 YES PI2014	CSI. TC BC WB Matrix	0.35 0.05 0.07 x-P	DEFL. Vert(LL) Vert(CT) Horz(CT)	in n/a n/a 0.00	(loc) - - 4	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20 Weight: 30 lb	GRIP 197/144 FT = 20%
LUMBER- TOP CHORD 2x4 SPF No.2				BRACING- TOP CHOR	D	Structu	ral wood	sheathing di	rectly applied or 6-0-0	oc purlins,	

BOT CHORD

except end verticals.

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

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

2x4 SPF No.2 WEBS OTHERS 2x4 SPF No.2

REACTIONS. All bearings 6-0-7.

(lb) -Max Horz 7=-222(LC 8)

Max Uplift All uplift 100 lb or less at joint(s) 7, 4 except 6=-131(LC 13), 5=-127(LC 13) Max Grav All reactions 250 lb or less at joint(s) 7, 4, 5 except 6=259(LC 20)

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

TOP CHORD 2-3=-298/319, 3-4=-420/436

BOT CHORD

6-7=-295/304, 5-6=-295/304, 4-5=-295/304 WFBS 2-6=-250/153

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) 0-1-12 to 4-4-11, Interior(1) 4-4-11 to 5-8-8 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) 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) 7, 4 except (jt=lb) 6=131.5=127.

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.







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

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 1-2=-308/323

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 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, 5, 6 except (jt=lb) 7=114.

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







LUMBER-

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

BRACING-TOP CHORD BOT CHORD

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

REACTIONS. All bearings 7-3-6.

(lb) - Max Horz 1=90(LC 9)

Max Uplift All uplift 100 lb or less at joint(s) 1, 5 except 8=-133(LC 12), 6=-133(LC 13)

Max Grav All reactions 250 lb or less at joint(s) 1, 5, 7 except 8=252(LC 19), 6=252(LC 20)

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) 0-3-15 to 3-3-15, Interior(1) 3-3-15 to 3-7-11, Exterior(2R) 3-7-11 to 6-7-11 , Interior(1) 6-7-11 to 6-11-7 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

3) Gable requires continuous bottom chord bearing.

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

5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 5 except (jt=lb) 8=133, 6=133.

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.



16023 Swingley Ridge Rd Chesterfield, MO 63017



MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-1-12 to 1-1-8, Exterior(2R) 1-1-8 to 4-1-8, Interior(1) 4-1-8 to 9-7-3 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

3) Gable requires continuous bottom chord bearing.

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

5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 7, 6 except (jt=lb) 5=132.

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) 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 1-1-8, Exterior(2R) 1-1-8 to 4-1-8, Interior(1) 4-1-8 to 7-7-3 zone; cantilever left and right exposed; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

3) Gable requires continuous bottom chord bearing.

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

5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 7, 6 except (jt=lb) 5=112.

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.







REACTIONS. (size) 5=6-2-4, 3=6-2-4, 4=6-2-4

Max Horz 5=-71(LC 8) Max Uplift 5=-46(LC 3), 3=-33(LC 13), 4=-12(LC 13)

Max Grav 5=14(LC 19), 3=237(LC 1), 4=352(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) 0-1-12 to 1-1-8, Exterior(2R) 1-1-8 to 4-1-8, Interior(1) 4-1-8 to 5-7-3 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

3) Gable requires continuous bottom chord bearing.

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

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







Max Horz 5=-34(LC 10) Max Uplift 5=-15(LC 12), 3=-19(LC 13), 4=-10(LC 13)

Max Grav 5=42(LC 1), 3=131(LC 1), 4=207(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) zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

3) Gable requires continuous bottom chord bearing.

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

5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 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/TPL1.







0- <u>0-8</u> 0-0-8	2-11-8 2-11-0		8-5-0 5-5-8
LOADING (psf) TCLL 25.0 TCDL 20.0 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 0.74 BC 0.21 WB 0.05 Matrix-P	DEFL. in (loc) l/defl L/d Vert(LL) n/a - n/a 999 Vert(CT) n/a - n/a 999 Horz(CT) -0.00 4 n/a n/a Weight: 21 lb FT = 20%

TOP CHORD

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

TOP CHORD BOT CHORD

Structural wood sheathing directly applied or 8-5-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 2-3. Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. 1=8-4-8, 4=8-4-8, 5=8-4-8 (size) Max Horz 1=38(LC 9) Max Uplift 1=-22(LC 12), 4=-47(LC 8), 5=-45(LC 9) Max Grav 1=78(LC 1), 4=283(LC 1), 5=480(LC 1)

FORCES. (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) or less except when shown. 2-5=-370/182 WEBS

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) 0-7-9 to 2-11-8, Exterior(2R) 2-11-8 to 7-2-7, Interior(1) 7-2-7 to 8-3-4 zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

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.

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







0- <u>0-8</u> 0-0-8		9-9-8 9-9-0				14-9-0 4-11-8	
LOADING (psf) TCLL 25.0 TCDL 20.0 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 0.37 BC 0.15 WB 0.06 Matrix-S	DEFL. in Vert(LL) n/a Vert(CT) n/a Horz(CT) 0.00	(loc) - - 4	l/defl L/d n/a 999 n/a 999 n/a n/a	PLATES MT20 Weight: 38 lb	GRIP 197/144 FT = 20%
LUMBER- TOP CHORD 2x4 SF BOT CHORD 2x4 SF WEBS 2x4 SF OTHERS 2x4 SF	PF No.2 PF No.2 PF No.2 PF No.2 PF No.2		BRACING- TOP CHORD BOT CHORD	Structur 2-0-0 oo Rigid ce	ral wood sheathing dir c purlins (6-0-0 max.): illing directly applied o	rectly applied or 6-0-0 2-3. or 10-0-0 oc bracing.	oc purlins, except
REACTIONS. All bearings 14-8-0. (lb) - Max Horz 1=33(LC 16) Max Uplift All uplift 100 lb or less at joint(s) 1, 4, 6, 5 Max Grav All reactions 250 lb or less at joint(s) 1, 4 except 6=547(LC 25), 5=547(LC 26)							
FORCES. (lb) - Max. Comp./Max. Ten All forces 250 (lb) or less except when shown. WEBS 2-6=-430/140, 3-5=-430/138							
NOTES- 1) Unbalanced roof live 2) Wind: ASCE 7-16; \ MWFRS (envelope) Interior(1) 9-2-7 to S for members and fo	e loads have been considered for this de /ult=115mph (3-second gust) Vasd=91m gable end zone and C-C Exterior(2E) 0 -9-8, Exterior(2E) 9-9-8 to 14-1-7 zone; rces & MWFRS for reactions shown; Lur	sign. ph; TCDL=6.0psf; BCDL= -7-9 to 3-7-9, Interior(1) 3- cantilever left and right ex nber DOL=1.60 plate grip	=4.2psf; h=15ft; Cat. II; E -7-9 to 4-11-8, Exterior(2 xposed ; end vertical left a DOL=1.60	xp C; En R) 4-11-8 and right	closed; 3 to 9-2-7, exposed;C-C		

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, 6, 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.







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.

















PE-2001018807

September 7,2021

THE SSIONAL

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2x4 💋

2x4 📚

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

$\frac{0-0-8}{0-0-8}$	[2:0.2.0.Edgo]		4-5-1 4-4-9	
Flate Olisets (X, I)	[2.0-2-0,Edge]			
LOADING (psf) TCLL 25.0	SPACING- 2-0-0 Plate Grip DOL 1.15	CSI. TC 0.05	DEFL. in (loc) l/defl L/d Vert(LL) n/a - n/a 999	PLATES GRIP MT20 197/144
TCDL 20.0 BCLL 0.0	Lumber DOL 1.15 Rep Stress Incr YES	BC 0.11 WB 0.00	Vert(CT) n/a - n/a 999 Horz(CT) 0.00 3 n/a n/a	
BCDL 10.0	Code IRC2018/TPI2014	Matrix-P		Weight: 9 lb FT = 20%
LUMBER- TOP CHORD 2x4 SF	PF No.2		BRACING- TOP CHORD Structural wood sheathing dir	ectly applied or 4-5-1 oc purlins.

BOT CHORD

BOT CHORD 2x4 SPF No.2

REACTIONS. (size) 1=4-4-1, 3=4-4-1 Max Horz 1=-13(LC 17) Max Uplift 1=-18(LC 12), 3=-18(LC 13) Max Grav 1=174(LC 1), 3=174(LC 1)

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) zone; cantilever left and right exposed ; end vertical left and right
- exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

3) Gable requires continuous bottom chord bearing.

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

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

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.







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

WEBS 2-7=-352/209

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) 0-7-9 to 3-10-15, Interior(1) 3-10-15 to 6-10-8, Exterior(2E) 6-10-8 to 8-2-4 zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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) 5, 6 except (jt=lb) 7=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) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



16023 Swingley Ridge Rd Chesterfield, MO 63017



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



September 7,2021



 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.





