

release for construction As noted for plan review development services lee's summit, missouri 11/23/2021

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

Re: 2975764 Summit/5 Cobey Creek

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: I48681037 thru I48681112

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

Missouri COA: Engineering 001193



November 8,2021

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.



Scale = 1:37.7



F	<u>3-1-0</u> 3-1-0	+ <u>5-8-0</u> 2-7-0		<u>15-4-0</u> 9-8-0		17-11-0	21-0-0
LOADING (psf) TCLL 25.0 TCDL 10.0 BCLL 0.0 BCDL 10.0	SPACI Plate G Lumber Rep Str Code II	NG- 2-0-0 rip DOL 1.15 DOL 1.15 ess Incr NO RC2018/TPI2014	CSI. TC 0.71 BC 0.92 WB 0.37 Matrix-MS	DEFL. ii Vert(LL) -0.25 Vert(CT) -0.61 Horz(CT) 0.07	n (loc) l/defl 9 8-10 >869 1 8-10 >412 7 6 n/a	L/d 240 180 n/a	PLATES GRIP MT20 197/144 Weight: 70 lb FT = 20%
LUMBER- TOP CHORD 2	x4 SPF No.2			BRACING- TOP CHORD	Structural wood	d sheathing directly	applied or 2-10-4 oc purlins,

BOT CHORD

except

2-0-0 oc purlins (3-6-15 max.): 3-5.

Rigid ceiling directly applied or 8-8-13 oc bracing.

TOP CHORD 2x4 SPF No.2

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

REACTIONS. (size) 2=0-3-8, 6=0-3-8 Max Horz 2=50(LC 8) Max Uplift 2=-335(LC 8), 6=-335(LC 9)

Max Grav 2=1480(LC 1), 6=1480(LC 1)

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

2-3=-2568/539, 3-4=-2204/519, 4-5=-2204/519, 5-6=-2568/540 TOP CHORD

BOT CHORD 2-10=-457/2239, 8-10=-630/2675, 6-8=-407/2239

WEBS 3-10=-89/727, 5-8=-89/727, 4-10=-632/294, 4-8=-632/294

NOTES-

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

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

3) Provide adequate drainage to prevent water ponding.

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

5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 335 lb uplift at joint 2 and 335 lb uplift at joint 6.

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

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

8) "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

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

Uniform Loads (plf)

Vert: 1-3=-70, 3-5=-70, 5-7=-70, 11-14=-20

Concentrated Loads (lb)

Vert: 4=-50(B) 18=-50(B) 19=-50(B) 20=-50(B) 21=-50(B) 23=-152(B) 24=-120(B) 25=-30(B) 26=-30(B) 27=-30(B) 28=-30(B) 29=-30(B) 30=-120(B) 31=-152(B)







L	8-4-0	l.	12-8-0	21	-0-0		
	8-4-0	Ι	4-4-0	8-	4-0		
Plate Offsets (X,Y)	[2:0-6-4,0-0-4], [5:0-2-12,0-0-12], [7:0-6	-4,0-0-4]					
LOADING (psf) TCLL 25.0 TCDL 10.0 BCLL 0.0 BCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2018/TPI2014	CSI. TC 0.28 BC 0.52 WB 0.10 Matrix-AS	DEFL. in Vert(LL) -0.10 Vert(CT) -0.23 Horz(CT) 0.04	(loc) I/defi L/d 9-17 >999 240 9-17 >999 180 7 n/a n/a	PLATES GRIP MT20 197/144 Weight: 77 lb FT = 20%		
LUMBER- IOP CHORD BRACING- TOP CHORD 30T CHORD 2x4 SPF No.2 WEBS 2x4 SPF No.2 BOT CHORD Structural wood sheathing directly applied, except 2-0-0 oc purlins (5-1-3 max.): 4-5. BOT CHORD Rigid ceiling directly applied.							
REACTIONS. (size) 2=0-3-8, 7=0-3-8 Max Horz 2=-72(LC 13) Max Uplift 2=-140(LC 12), 7=-140(LC 13) Max Grav 2=1006(LC 1), 7=1006(LC 1)							
FORCES. (lb) - Max. TOP CHORD 2-3=- BOT CHORD 2-11= WEBS 3-11=	Comp./Max. Ten All forces 250 (lb) or 1635/283, 3-4=-1371/247, 4-5=-1172/2 205/1428, 9-11=-101/1171, 7-9=-194/ 305/135, 4-11=-15/323, 5-9=-29/323, 6	less except when shown 17, 5-6=-1370/247, 6-7=-1 1428 3-9=-306/136	1635/283				
NOTES- 1) Unbalanced roof live 2) Wind: ASCE 7-16; V MWFRS (envelope) Exterior(2R) 12-8-0 exposed;C-C for me 3) Provide adequate dr 4) This truss has been 5) Provide mechanical joint 7. 6) This truss is designer referenced standard	a loads have been considered for this de /ult=115mph (3-second gust) Vasd=91m gable end zone and C-C Exterior(2E) -0 to 16-10-15, Interior(1) 16-10-15 to 21-1 mbers and forces & MWFRS for reactio rainage to prevent water ponding. designed for a 10.0 psf bottom chord liv connection (by others) of truss to bearin ed in accordance with the 2018 Internatii	sign. ph; TCDL=6.0psf; BCDL= -10-8 to 2-1-8, Interior(1) 0-8 zone; cantilever left a ns shown; Lumber DOL= e load nonconcurrent with g plate capable of withsta onal Residential Code sec	=4.2psf; h=15ft; Cat. II; E 2-1-8 to 8-4-0, Exterior(2 nd right exposed ; end vi 1.60 plate grip DOL=1.60 n any other live loads. anding 140 lb uplift at joir ctions R502.11.1 and R8	xp C; Enclosed; 2E) 8-4-0 to 12-8-0, ertical left and right) ht 2 and 140 lb uplift at 02.10.2 and	S OF MISS		

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

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



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BOT CHORD WEBS 2x4 SPF No.2

REACTIONS. (size) 2=0-3-8, 6=0-3-8 Max Horz 2=90(LC 12) Max Uplift 2=-136(LC 12), 6=-136(LC 13) Max Grav 2=1006(LC 1), 6=1006(LC 1)

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

- 2-3=-1531/296, 3-4=-1181/251, 4-5=-1181/251, 5-6=-1531/296 TOP CHORD
- BOT CHORD 2-8=-181/1321, 6-8=-178/1321

4-8=-130/799, 5-8=-450/187, 3-8=-450/187 WFBS

NOTES-

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

2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 10-6-0, Exterior(2R) 10-6-0 to 13-6-0, Interior(1) 13-6-0 to 21-10-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

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

4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 136 lb uplift at joint 2 and 136 lb uplift at ioint 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.







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

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Space Tors: Tors:							RELEASE FOR CONSTRUCTION					
partner is Partner Par	Job	Truss	Truss Type	Qty	Ply	Summit/5 Cobey Creek	AS NOTED FOR PLAN REVIEW					
Builder Freissons (noting Cave), Yelling Care (k): 527(2), 1 (10): 2012/2012/2012/2012/2012/2012/2012/2012	2975764	A4	ROOF SPECIAL GIRDER	1	2							
Displace	Builders FirstSource (Valley	Center), Valley Center, K	S - 67147,		3.430 s Aug	16 2021 MiTek Industries, In	. Thu Nav 41758343021 395 2					
 11) Last carefy 1, 2, 3, 4, 6, 7, 5, 8, 10, 11, 12, (13, 14, 15, 16, 17, 16, 19, 20, 21, 22, 23, 24 hashave been modified building desgner must evident basis for hearts of the transmit evident	NOTES-		ID:3G	mZIGCHwWZG	ARvEUeXV	yXyPZ34-SUflk3pUamFY7lO\	vz?45lv31edXDJk2erPRG6g/MVOd					
 The part of the function of the function of the part of the part along the top and/or bottom chool. CARC SERSES Chard S, Rould L, Lunder Interesson - 1.15, Plane Increases - 1.15 Chard S, Rould L, Begharneski L, Lunder Increases - 1.15, Plane Increases - 1.15 Dead S, Rould L, Begharneski L, Lunder Increases - 1.15, Plane Increases - 1.15 Dead S, Rould L, Begharneski L, Lunder Increases - 1.15, Plane Increases - 1.25 Dead S, Rould L, Begharneski L, Lunder Increases - 1.15, Plane Increases - 1.25 Dead S, Rould L, Begharneski L, Lunder Increases - 1.25, Plane Increases - 1.26 Dead S, Ling M, Sang M, Sang	11) Load case(s) 1, 2, 3, 4	, 5, 6, 7, 8, 9, 10, 11, 12, 13,	14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24	has/have been	modified. E	Building designer must revie	w loads to verify that					
b. Dotart FSOL Under Forderade, Lumber forenaes-1.5, Plans forenaes-1.5 V 100 met FSOL Forderade, Plansberg, Lumber forenaes-1.5, Plans forenaes-1.5 V 100 met FSOL Forderade, Plansberg, Lumber forenaes-1.5, Plans forenaes-1.5 V 100 met FSOL Forderade, Plansberg, Lumber forenaes-1.5, Plans forenaes-1.26 V 100 met FSOL Forderade, Plansberg, Lumber forenaes-1.26, Plans forenaes-1.26 V 100 met FSOL Forderade, Plansberg, Lumber forenaes-1.26, Plans forenaes-1.26 V 100 met FSOL Forderade, Plansberg, Lumber forenaes-1.26, Plans forenaes-1.26 V 100 met FSOL Forderade, Plansberg, Lumber forenaes-1.26, Plansberg, P	12) Graphical purlin repres	sentation does not depict the	size or the orientation of the purlin along t	the top and/or b	ottom cho	rd.						
 Ded - Soft Lee (balanced): Lumber Increase-1.15. Plane Increase-1.15. Durbon Loads (p), 71. Lev. 70, 52.22. https://doi.org/10.1202/s011.15.23345(F-273). Ded - V 77, Roy Lee (balanced): Lumber Increase-1.16. Plane Increase-1.16. Uniform Loads (p), 71. Lev. 70, 52.22. https://doi.org/10.1202/s011.15.23345(F-420), 15.23345(F-420), 15.2	LOAD CASE(S)											
Um 2: 2007, D. 7: 44=7, 16:22=0, 12=20[47=40], 2:44=20[7], 14:23=20[47=40], 15:23=240[7=20], Deal + 0.75 Month Treatment - 15:20 Uniform Lands (pf) Um 2: 200, 200, 200, 200, 200, 200, 200, 2	1) Dead + Roof Live (balar	1) Dead + Roof, Live (balanced): Lumber Increase=1.15, Plate Increase=1.15										
 2) Dad 4 73 Rod Like (balance): Lumber Increase-1.5, Plate Increase-1.5 3) Dad 4 73 Rod Like (balance): Lumber Increase-1.26, Plate Increase-1.26 3) Dad 4 Unrehabate Atta Without Storage: Lumber Increase-1.26, Plate Increase-1.20 4) Dad 4 Unrehabate Atta Without Storage: Lumber Increase-1.26, Plate Increase-1.20 4) Dad 4 Unrehabate Atta Without Storage: Lumber Increase-1.26, Plate Increase-1.20 4) Dad 4 Unrehabate Atta Without Storage: Lumber Increase-1.26, Plate Increase-1.20 4) Dad 4 Unrehabate Atta Without Storage: Lumber Increase-1.20, Plate Increase-1.00 4) Dad 4 Unrehabate Atta Without Storage: Lumber Increase-1.20, Plate Increase-1.00 4) Dad 4 Unrehabate Atta Without Storage: Lumber Increase-1.50, Plate Increase-1.00 4) Dad 4 Unrehabate Atta Without Storage: Lumber Increase-1.50, Plate Increase-1.50 4) Dad 4 Unrehabate Atta Without Storage: Lumber Increase-1.50, Plate Increase-1.50 4) Dad 4 Unrehabate Atta Without Storage: Lumber Increase-1.50, Plate Increase-1.50 4) Dad 4 Unrehabate Atta Without Storage: Lumber Increase-1.50, Plate Increase-1.50 4) Dad 4 Unrehabate Atta Without Storage: Lumber Increase-1.50, Plate Increase-1.50 4) Unrehabate Atta Without Storage: Lumber Increase-1.50, Plate Increase-1.50 4) Unrehabate Atta Without Storage: Lumber Increase-1.50, Plate Increase-1.50 4) Unrehabate Atta Without Storage: Lumber Increase-1.50, Plate Increase-1.50 4) Unrehabate Atta Without Storage: Lumber Increase-1.50, Plate Increase-1.50 4) Unrehabate Atta Without Storage: Lumber Increase-1.50, Plate Increase-1.50 4) Unrehabate Atta Without Storage: Lumber Increase-1.50, Plate Increase-1.50 4) Unrehabate Atta Without Storage: Lumber Increase-1.50, Plate Increase-1.50 4) Unrehabate Atta Without Storage: Lumber Increase-1.50, Pl	Vert: 2-7=-70, 7	7-14=-70, 16-22=-20, 1-2=-56	64(F=-494), 2-14=-494(F), 14-23=-564(F=	-494), 15-23=-3	845(F=-275	i)						
 Vert 27–58, 744–58, 1622–60, 12–430, F–425, F–44–52(6), 1422–430, F–425, 1523–264(F–206) Joad + J. Britker Store, London Encosen - 120, Pit4-231–203(F–210), 15-23–20 Vert 27–58, 744–51, 16-22–6, 12–230(F–210), 214–219(F), 14-23–230(F–210), 15-23–4 Joad + J. B. WYRES Word (Pos. Internal) Rel: Luncher Increase-1.60 Unform Lack (pf) Vert 27–61, 714–61, 16-22–6, 12–210(F–210), 214–219(F), 14-23–201(F–210), 15-23–14 Vert 27–61, 714–64, 714–61, 15-16–11 Unform Lack (pf) Vert 27–61, 71–64, 714–61, 15-16–11 Unform Lack (pf) Vert 27–61, 71–64, 714–61, 15-16–11 Unform Lack (pf) Vert 27–61, 71–64, 714–61, 15–61–61 Unform Lack (pf) Vert 27–61, 71–64, 71–64, 71–64, 15–76–71 Vert 27–61, 71–64, 71–64, 71–64, 71–64 Unform Lack (pf) Vert 27–61, 71–64, 71–64, 71–64, 71–64 Vert 27–67, 71–64, 71–65, 71–64, 71 Vert 27–67, 71–64, 71–64, 71–64 Vert 27–76, 71–74, 71–64, 16–22–01, 72–224(F–210), 71–62, 71–64, 71–64 Vert 27–76, 71–74, 71–64, 71–64, 71–64 Vert 27–76, 71–44, 71, 64–66 Vert 27–76, 71–74, 71–64, 71–64 Vert 27–76, 71–74, 71–64, 71–64 Vert 27–76, 71–74, 71–74, 71–76, 71–64 Vert 27–76, 71–74, 71–74, 71–76, 71–64 Vert 27–76, 71–74, 71–74, 71–76, 71–76, 71–76, 71–76, 71–76, 71–76, 71–76, 71–77, 71–74, 71–76, 71–77, 71–74, 71–	 Dead + 0.75 Root Live (Uniform Loads (plf) 	balanced): Lumber Increase=	=1.15, Plate Increase=1.15									
 Unitary Lands, (p)/ Unitary Lands, (p)/<	Vert: 2-7=-58, 7	7-14=-58, 16-22=-20, 1-2=-48	3(F=-425), 2-14=-425(F), 14-23=-483(F=	-425), 15-23=-2	264(F=-206	i)						
 Dester Marker 2, Price J. Price J. B. 1922–40, 129–238 [P=219], 214–218 [P, 14/23–238 [P=219], 15/23–20 Uniform Lands (pM) Uniform Lands (pM) Uniform Lands (PA) Dester J. D. A. 1942, 214, 27–46, 77–442, 15-16–61 Dester J. D. K. 1944, 214, 214, 214, 214, 214, 214, 214, 2	Uniform Loads (plf)	and Winfour Storage. Lumber										
Unitor Loads (eff) Vert 2: 74, 74.44, 16.22-8, 1.22-205(F-219), 2.42-219(F), 14.23-205(F-219), 15.23-4 Vert 2: 72.17, 74.44, 16.22-8, 1.22-215(F-219), 2.14-219(F), 14.23-205(F-219), 15.23-4 Vert 2: 74.18, 74.44, 16.22-8, 1.22-215(F-219), 2.14-219(F), 14.23-205(F-219), 15.23-4 Vert 2: 74.18, 74.44, 16.22-8, 1.22-215(F-219), 2.14-219(F), 14.23-205(F-219), 15.23-14 Vert 2: 74.18, 74.44, 16.22-8, 1.22-215(F-219), 2.14-219(F), 14.23-205(F-219), 15.23-14 Vert 2: 74.18, 74.44, 16.22-8, 1.22-215(F-219), 2.14-219(F), 14.23-205(F-219), 15.23-14 Vert 2: 74.18, 74.44, 16.22-8, 1.22-205(F-219), 2.14-219(F), 14.23-205(F-219), 15.23-5 Vert 2: 74.18, 74.44, 16.22-8, 1.22-205(F-219), 2.14-219(F), 14.23-205(F-219), 15.23-5 Vert 2: 74.18, 74.74, 74.45, 15.16-2 Vert 2: 74.18, 74.44, 16.22-8, 1.22-205(F-219), 2.14-219(F), 14.23-205(F-219), 15.23-5 Vert 2: 74.18, 74.74, 74.43, 15.16-2 Vert 2: 74.18, 74.44, 14.22-8, 1.22-205(F-219), 2.14-219(F), 14.23-219(F-219), 15.23-5 Vert 2: 74.18, 74.74, 74.43, 15.22-8, 1.22-205(F-219), 2.14-219(F), 14.23-219(F-219), 15.23-4 Vert 2: 74.18, 74.44, 14.22-8, 1.22-205(F-219), 2.14-219(F), 14.23-219(F-219), 15.23-4 Vert 2: 74.18, 74.44, 14.22-8, 1.22-205(F-219), 2.14-219(F), 14.23-205(F-219), 15.23-4 Vert 2: 74.18, 74.44, 14.22-8, 1.22-205(F-219), 2.14-219(F), 14.23-205(F-219), 15.23-4 Hor: 1: 72-4, 74.43, 15.12-8, 1.22-8, 1.22-205(F-219), 2.14-219(F), 14.23-205(F-219), 15.23-4 Hor: 1: 72-4, 74.43, 15.12-8, 1.22-8, 1.	Vert: 2-7=-20, 7 4) Dead + 0.6 MWFRS Wi	7-14=-20, 16-22=-40, 1-2=-23 nd (Pos. Internal) Left: Lumb	9(F=-219), 2-14=-219(F), 14-23=-239(F= er Increase=1.60, Plate Increase=1.60	-219), 15-23=-2	20							
Here: 1-22-11, 7-2-16, 7-14-16, 16-22-6, 1-2-20[F-210, 2-14-210[F, 14-23-20]F-210, 15-23-14 Hor: 1-22-16, 7-14-1, 16-22-6, 1-2-20[F-210, 2-14-210[F], 14-23-20]F-210, 15-23-14 Hor: 1-22-16, 7-14-1, 16-22-6, 1-2-20[F-210, 2-14-210[F], 14-23-20]F-210, 15-23-14 Hor: 1-22-16, 7-14-1, 16-22-6, 1-2-20]F-210, 2-14-210[F], 14-23-20]F-210, 15-23-14 Hor: 1-22-2, 7-25, 7-14-15, 15-16-1 10 Uniform Loads (p) Hor: 1-22-16, 7-14-1, 16-22-6, 1-2-20]F-210, 2-14-210[F], 14-23-20]F-210, 15-23-14 Hor: 1-22-2, 7-25, 7-14-15, 15-16-1 10 Uniform Loads (p) Hor: 1-22-2, 7-25, 7-14-15, 15-16-2 10 Deat + 0.8 MWRS Wind (Nea, Internal) Net Function Increase-1.60, Plate Increase-1.60 Uniform Loads (p) Hor: 1-22-6, 7-7, 7-14-5, 15-16-4 10 Deat + 0.8 MWRS Wind (Nea, Internal) Net Function Increase-1.60, Plate Increase-1.60 Uniform Loads (p) Hor: 1-22-6, 7-7, 7-14-5, 15-16-4 10 Deat + 0.8 MWRS Wind (Nea, Internal) Net Function Increase-1.60, Plate Increase-1.60 Uniform Loads (p) Hor: 1-22-6, 7-42, 7-14-26, 15-16-14 10 Dead + 0.8 MWRS Wind (Pos. Internal) Net Function Increase-1.60, Plate Increase-1.60 Uniform Loads (p) Hor: 1-22-6, 7-42, 7-14-26, 15-16-14 10 Dead + 0.8 MWRS Wind (Pos. Internal) Net Function Increase-1.60, Plate Increase-1.60 Uniform Loads (p) Hor: 1-22-6, 7-42, 7-14-26, 15-16-14 10 Dead + 0.8 MWRS Wind (Pos. Internal) Net Panallel: Lumber Increase-1.60, Plate Increase-1.60 Uniform Loads (p) Hor: 7-18, 7-14-30, 16-22-6, 1-2-20(FF-210), 14-23-20(FF-210), 15-23-14 Hor: 1-22-14, 27-20, 1-14-20, 15-16-14 10 Dead + 0.8 MWRS Wind (Pos. Internal) Net Panalle: Lumber Increase-1.60 Uniform Loads (p) Wind X-7-16, 7-30, 7-14-27, 1-14-21, 15-16-4 10 Dead + 0.8 MWRS Wind (Pos. Internal) Net Panalle: Lumber Increase-1.60 Uniform Loads (p) Wind X-7-16, 7-40, 7-14-25, 15-16-4 10 Dead + 0.8 MWRS Wind (Wes. Internal Star Panalle: Lumber Increase-1.60 Uniform Loads (p) Wind X-7-16, 7-40, 7-14-25, 15-16-4 10 Dead + 0.8 MWRS Wind (Wes. Internal Star Panalle: Lumber Increase-1.60 Uniform Loads (p) Wind X-7-16,	Uniform Loads (plf)	14-16 16-22-8 1-2-205/F	210) 2-14210(E) 14-23215(E210) 15-23-1								
 5) Dead + 0.8 MWFRS Wind (Pos. Internal) Right: Lumber Increase-1.60, Plate Increase-1.60 b) Dead + 0.8 MWFRS Wind (Pos. Internal) Right: Lumber Increase-1.60, Plate Increase-1.60 b) Dead + 0.8 MWFRS Wind (Pos. Internal) Right: Lumber Increase-1.60, Plate Increase-1.60 b) Dead + 0.8 MWFRS Wind (Pos. Internal) Right: Lumber Increase-1.60, Plate Increase-1.60 b) Dead + 0.8 MWFRS Wind (Pos. Internal) Right: Lumber Increase-1.60, Plate Increase-1.60 b) Dead + 0.8 MWFRS Wind (Pos. Internal) Right: Lumber Increase-1.60, Plate Increase-1.60 b) Dead + 0.8 MWFRS Wind (Pos. Internal) Right: Lumber Increase-1.60, Plate Increase-1.60 b) Dead + 0.8 MWFRS Wind (Pos. Internal) Right: Lumber Increase-1.60, Plate Increase-1.60 b) Dead + 0.8 MWFRS Wind (Pos. Internal) Right: Lumber Increase-1.60, Plate Increase-1.60 b) Dead + 0.8 MWFRS Wind (Pos. Internal) Right: Lumber Increase-1.60, Plate Increase-1.60 b) Dead + 0.8 MWFRS Wind (Pos. Internal) Right: Lumber Increase-1.60, Plate Increase-1.60 b) Dead + 0.8 MWFRS Wind (Pos. Internal) Right: Lumber Increase-1.60, Plate Increase-1.60 b) Dead + 0.8 MWFRS Wind (Pos. Internal) Right: Lumber Increase-1.60, Plate Increase-1.60 b) Dead + 0.8 MWFRS Wind (Pos. Internal) Right: Lumber Increase-1.60, Plate Increase-1.60 b) Dead + 0.8 MWFRS Wind (Pos. Internal) Right Parallet: Lumber Increase-1.60, Plate Increase-1.60 b) Dead + 0.8 MWFRS Wind (Pos. Internal) Right Parallet: Lumber Increase-1.60, Plate Increase-1.60 b) Dead + 0.8 MWFRS Wind (Pos. Internal) Right Parallet: Lumber Increase-1.60, Plate Increase-1.60 b) Dintom Loads (pl) b) Dead + 0.8 MWFRS Wind (Pos. Internal) Right Parallet: Lumber Increase-1.60, Plate Increase-1.60 b) Dintom Loads (pl) b) Dead + 0.8 MWFRS Wind (Pos. Internal) Right Parallet: Lumber Increase-1.	Horz: 1-22=11,	2-7=-16, 7-14=28, 15-16=16), 10 20-4								
 Vert: 27-16, 71-44, 16:22-8, 12-2216[F=219, 214=219[F], 14:23=236[F=219], 15:23=14 Hoter, 12-246, 27-42, 714=7, 15:16:26 Deed + 0.6 MVFRS Wind (Neg. Internal) Let: Lumber Increase=1.60, Plate Increase=1.60 Vert: 72-26, 27-42, 714=7, 15:16:26 Deed + 0.6 MVFRS Wind (Neg. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60 Vert: 72-76, 77:14=7, 15:16:26 Deed + 0.6 MVFRS Wind (Neg. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60 Vert: 77:10, 714=26, 51:622=20, 12-233[F=219], 214=239[F], 14:23=224[F=219], 15:23=6 Hotz: 12-26, 27-42, 77:14=5, 15:16=22 Deed + 0.6 MVFRS Wind (Pos. Internal) Sta Panalek: Lumber Increase=1.60, Plate Increase=1.60 Vert: 27-30, 71:44, 71:42-36, 27:42, 72:42, 71:42, 71:44, 71:42-36, 71:44, 71:44-36, 15:16:14 Deed + 0.6 MVFRS Wind (Pos. Internal) 20 Panalek: Lumber Increase=1.60, Plate Increase=1.60 Vert: 27-10, 71:44, 71:42,	 Dead + 0.6 MWFRS Wi Uniform Loads (plf) 	nd (Pos. Internal) Right: Lum	ber Increase=1.60, Plate Increase=1.60									
 (a) Deat 4 0.0 MWFRS Wind (Pos. Interna) Left: Lumber Increase=1.60, Plate Increase=1.60 (b) MWFRS Wind (Pos. Interna) Right: Lumber Increase=1.60, Plate Increase=1.60 (b) WWRS WING (Pos. Interna) Right: Lumber Increase=1.60, Plate Increase=1.60 (b) WWRS WWRS WING (Pos. Interna) Right: Lumber Increase=1.60, Plate Increase=1.60 (b) WWRS WWRS WING (Pos. Interna) Right: Lumber Increase=1.60, Plate Increase=1.60 (b) WWRS WWRS WING (Pos. Interna) Right: Lumber Increase=1.60, Plate Increase=1.60 (b) WWRS WWRS WING (Pos. Interna) Right: Lumber Increase=1.60, Plate Increase=1.60 (b) WWRS WWRS WING (Pos. Interna) Right: Lumber Increase=1.60, Plate Increase=1.60 (b) Deat 4.0 & MWRS WWING (Pos. Interna) Size Parallet: Lumber Increase=1.60, Plate Increase=1.60 (b) Deat 4.0 & MWRS WWING (Pos. Interna) Size Parallet: Lumber Increase=1.60, Plate Increase=1.60 (b) Uniform Loads (plf) (Wr. 2.7-14, 7.14-23, 15-16-14 (b) Deat 4.0 & MWRS WWING (Pos. Interna) Size Parallet: Lumber Increase=1.60, Plate Increase=1.60 (b) Uniform Loads (plf) (Wr. 2.7-14, 7.14-23, 15-16-14 (b) Deat 4.0 & MWRS WWING (Pos. Interna) Size Parallet: Lumber Increase=1.60, Plate Increase=1.60 (b) Uniform Loads (plf) (Wr. 2.7-14, 7.14-23, 15-12-205(F=219), 2-14-219(F), 14-23=-215(F=219), 15-23=4 (Horm Loads (plf) (Wr. 2.7-14, 7.14-23, 15-12-205(F=219), 7.14-23, 15-12-13 (Horm Loads (plf) (Wr. 2.7-17, 7.14-23, 15-16-3 (Horm Loads (plf) (Wr. 2.7-17, 7.14-3, 15-16-3	Vert: 2-7=16, 7	-14=4, 16-22=-8, 1-2=-215(F:	=-219), 2-14=-219(F), 14-23=-205(F=-219	9), 15-23=14								
Uniom Loads (pl) Vert. 27-22.2.7-7.2. 1) Dead + 0.6 MWFRS Wind (No., Internal) Right: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (pl) Vert. 27-41, 7.14=-5, 16-22-40, 1-22-33(F=219), 2-14=-219(F), 14-23=-224(F=219), 15-23=-5 Horz: 1-22-6, 2-7=-7, 7.14=-5, 16-22-81, 1-22-321(F=219), 2-14=-219(F), 14-23=-224(F=219), 15-23=-5 Horz: 1-22-6, 2-7=-7, 7.14=-5, 16-22-81, 1-22-321(F=219), 2-14=-219(F), 14-23=-224(F=219), 15-23=-5 Horz: 1-22-6, 2-7=-7, 7.14=-5, 16-22-81, 1-22-321(F=219), 2-14=-219(F), 14-23=-216(F=219), 15-23=-4 Vert. 27-226, 2-7=-7, 7.14=-5, 16-22-81, 1-22-216(F=219), 2-14=-219(F), 14-23=-216(F=219), 15-23=-4 Vert. 27-226, 2-7=-7, 7.14=-5, 16-22-81, 1-22-216(F=219), 2-14=-219(F), 14-23=-216(F=219), 15-23=-14 Horz: 1-22-14, 2-7=-80, 16-22-81, 1-22-216(F=219), 2-14=-219(F), 14-23=-216(F=219), 15-23=-14 Horz: 1-22-14, 2-7=-80, 16-22-81, 1-22-216(F=219), 2-14=-219(F), 14-23=-216(F=219), 15-23=-14 Horz: 1-22-14, 2-7=-80, 16-22-81, 1-22-216(F=219), 2-14=-219(F), 14-23=-216(F=219), 15-23=-14 Horz: 1-22-14, 2-7=-17, 7.14=-19, 16-22-8-1, 1-22-216(F=219), 1-23=-216(F=219), 15-23=-14 Horz: 1-22-14, 2-7=-17, 7.14=-19, 16-22-8-1, 1-22-216(F=219), 2-14=-219(F), 14-23=-236(F=219), 15-23=-14 Horz: 1-22-14, 2-7=1, 7.14=-19, 16-22-8-1, 1-22-216(F=219), 2-14=-219(F), 14-23=-236(F=219), 15-23=-14 Horz: 1-22-14, 2-7=1, 7.14=-19, 16-22-8-1, 1-22-216(F=219), 14-23=-236(F=219), 15-23=-14 Horz: 1-22-14, 2-7=1, 7.14=-19, 16-22-8-1, 1-22-22(F=219), 2-14=-219(F), 14-23=-236(F=219), 15-23=-14 Horz: 1-22-14, 2-7=1, 7.14=-19, 16-22-8-1, 1-2-22(F=219), 2-14=-219(F), 14-23=-236(F=219), 15-23=-14 Horz: 1-22-14, 2-7=, 7.14=-19, 16-22-8-1, 1-2-236(F=219), 14-23=-236(F=219), 15-23=-14 Horz: 1-22-14, 2-7=, 7.14=-19, 16-22-8-1, 1-2-236(F=219), 2-14=-219(F), 14-23=-236(F=219), 15-23=-160 Uniform Loads (p) Wer: 1-22-14, 2-7=, 7.14=-14, 15-16=-10 Uniform Loads (p) Ver: 1-22-14, 2-7=, 7.14=-14, 15-16=-10 Hord: 1-22-14, 2-7=, 7.14=-14, 15-16=-10 Hord: 1-22-14, 2-7=, 7.14=-14, 16-22=-20, 1-2-236(F=219), 1-14=-	6) Dead + 0.6 MWFRS Wi	nd (Neg. Internal) Left: Lumb	er Increase=1.60, Plate Increase=1.60									
 Horz: 1:22-22, 27-65, 7-14-7, 15-16-6 Dead + 0.6 MVFRS Wind (Pos, Internal) Right: Lumber Increase=1.60, Plate Increase=1.60 Unitom Loads (pli) Vent: 27-13, 7-14-42, 15-16-22 Horz: 1:22-6, 27-42, 7-14-42, 15-16-22 Horz: 27-60, 7-14-44, 15-25-62, 1-22-20(F-2-19), 2-14-219(F), 14-23=-216(F-2-19), 15-23-4 Horz: 1-22-6, 27-42, 7-14-42, 15-16-14 Dead + 0.6 MVFRS Wind (Pos, Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (pli) Vent: 2-7-61, 7-14-7, 15-16-14 Dead + 0.6 MVFRS Wind (Pos, Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (pli) Vent: 2-7-14, 7-14-30, 15-16-36 Dead + 0.6 MVFRS Wind (Pos, Internal) 3rd Parallel: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (pli) Vent: 2-7-14, 7-14-30, 15-16-36 Dead + 0.6 MVFRS Wind (Pos, Internal) 3rd Parallel: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (pli) Vent: 7-2-8, 7-4-11, 15-16-31 Dead + 0.6 MVFRS Wind (Pos, Internal) 3rd Parallel: Lumber Increase=1.60 Uniform Loads (pli) Vent: 7-2-9, 7-14-9, 15-22-8, 1-2-2-216(F-219), 2-14-219(F), 14-23-236(F-219), 15-23-14 Horz: 1-22-4, 2-7-21, 7-14-31, 15-16-6 Dead + 0.6 MVFRS Wind (Pos, Internal) 3rd Parallel: Lumber Increase=1.60 Uniform Loads (pli) Vent: 7-2-16, 7-14-19, 16-22-8, 1-2-2-216(F-219), 2-14-219(F), 14-23-236(F-219), 15-23-14 Horz: 1-22-74, 7-74-21, 7-14-25, 15-16-3 Dead + 0.6 MVFRS Wind (Pos, Internal) Parallel: Lumber Increase=1.60 Uniform Loads (pli) Vent: 7-2-16, 7-14-41, 15-16-22-20, 1-2-224(F-219), 2-14-219(F), 14-23-239(F-219), 15-23-14 Horz: 1-22-4, 2-7-21, 7-14-45, 15-16-3 Dead + 0.75, 7-14-41, 15-22-20, 1-2-232(F-	Uniform Loads (plf) Vert: 2-7=-25, 7	7-14=-13, 16-22=-20, 1-2=-22	4(F=-219), 2-14=-219(F), 14-23=-233(F=	-219), 15-23=-1	4							
 ¹¹ Unitern Loads (pl) ¹² Unitern Loads (pl) ¹³ Unitern Loads (pl) ¹⁴ Unitern Loads (pl) <l< td=""><td>Horz: 1-22=22,</td><td>2-7=5, 7-14=7, 15-16=6</td><td>her Increase-1.60. Plate Increase-1.60</td><td></td><td></td><td></td><td></td></l<>	Horz: 1-22=22,	2-7=5, 7-14=7, 15-16=6	her Increase-1.60. Plate Increase-1.60									
 Vert: 2:/-13, 7:14=2, 16:22=0, 1:/=2:23(F=219), 2:14=219(F), 14:23=221(F=219), 15:23=5 B) Deat + 0.5 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60 Uniform Loads (D) Vert: 1:22=6, 2:7=42, 7:14=2, 15:15=14 B) Dead + 0.5 MWFRS Wind (Pos. Internal) 2:04 Parallel: Lumber Increase=1.60 Uniform Loads (D) Vert: 7:24, 7:14=3, 15:12=42, 7:14=2, 15:15=14 B) Dead + 0.5 MWFRS Wind (Pos. Internal) 2:04 Parallel: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (D) Vert: 2:7=14, 7:14=3, 16:22=8, 1:2=205(F=219), 2:14=219(F), 14:23=-205(F=219), 15:23=14 Horz: 1:22=4, 2:7=38, 7:14=9, 16:22=8, 1:2=205(F=219), 2:14=219(F), 14:23=-205(F=219), 15:23=4 Horz: 1:22=4, 2:7=31, 7:14=2, 16:22=8, 1:2=205(F=219), 2:14=219(F), 14:23=-205(F=219), 15:23=4 Horz: 1:22=4, 2:7=21, 7:14=3, 15:15=6 10: Dead + 0.6 MWFRS Wind (Neg. Internal) aft Parallel: Lumber Increase=1.60 Uniform Loads (D) Uniform Loads (D) Vert: 2:7=17, 7:14=1, 16:22=8, 1:2=215(F=219), 2:14=219(F), 14:23=-235(F=219), 15:23=14 Horz: 1:22=4, 2:7=21, 7:14=3, 1:5:16=6 11: Dead + 0.6 MWFRS Wind (Neg. Internal) aft Parallel: Lumber Increase=1.60 Uniform Loads (D) Vert: 2:7=17, 7:14=5, 16:22=0, 1:2=224(F=219), 2:14=219(F), 14:23=233(F=219), 15:23=14 Horz: 1:22=4, 2:7=21, 7:14=3, 1:5:16=6 13: Dead + 0.6 MWFRS Wind (Neg. Internal) aft Parallel: Lumber Increase=1.60 Uniform Loads (D) Vert: 2:7=17, 7:14=7, 1:5:16=6 13: Dead + 0.6 MWFRS Wind (Neg. Internal) 2:0 Parallel: Lumber Increase=1.60 Uniform Loads (D) Vert: 2:7=17, 7:14=7, 1:5:16=6 14: 2:24=12, 2:7=17, 7:14=1, 1:5:2=20, 1:2=234(F=219), 1:5:23=-20 15: Dead + 0.75; 0:6 MWFRS Wind (Neg. Int) Hitty: Lumber Increase=1.60 Uniform Loads (D) Vert: 2:7=43, 7:14=44, 1:5:2=20, 1:2=234(F=219), 2:14=2234(F=219), 1:5:23=-20 15: Dead	Uniform Loads (plf)											
 B) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60 Uniform Loads (pf) Vert: 27-30, 77-44-1, 16-22=-8, 1-2=-205(F=219), 2-14=219(F), 14-23=-215(F=219), 15-23=4 Hor: 12-26-5, 27-46, 25, 1-56-14 Bead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (pf) Vert: 27-14, 7.14-20, 16-22=-8, 1-2=-215(F=219), 2-14=-219(F), 14-23=-205(F=219), 15-23=14 Hor: 12-72=14, 27-26, 7.14-42, 15-16=-6 Bead + 0.6 MWFRS Wind (Pos. Internal) 3nd Parallel: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (pf) Vert: 27-16, 7.14-21, 15-16=-1 Bead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (pf) Vert: 27-49, 7.14-10, 16-22=-8, 1-2=-205(F=219), 2-14=-219(F), 14-23=-205(F=219), 15-23=14 Hor: 12-2=4, 27-31, 7.14-21, 15-16=-1 Bead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.60 Uniform Loads (pf) Vert: 12-49, 7.14-10, 16-22=-8, 22-2(F)=-219), 2.14=-219(F), 14-23=-205(F=-219), 15-23=14 Hor: 12-2=14, 27-21, 7.14-23, 15-16=-6 20 Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60 Uniform Loads (pl) Vert: 27-41, 7.14-43, 15-16=-6 30 Dead + 0.6 MWFRS Wind (Pos. 200, 1-2=-224(F=-219), 14-23=23(F=-219), 15-23=-14 Hor: 12-2=14, 27-21, 7.14=23, 15-16=-3 30 Dead + 0.6 MWFRS Wind (Pos. 200, 1-2=-224(F=-219), 14-23=-224(F=-219), 15-23=-14 Hor: 12-2=-5, 7.14=21, 15-16=-3 30 Dead + 0.6 MWFRS Wind (Pos. 200, 1-2=-234(F=-219), 14-23=23(F=-219), 15-23=-20 15 Dead + 0.75 Root Luke (pla.1) + 0.75(0.6 MWFRS Wind (Neg. Int) Lumber Increase=1.60 Uniform Loads (pl) Vert: 27-63, 7.14=21, 15-16=-17 16 Dead + 0.75 Root Luke (pla.1) + 0.75(0.6 MWFRS Wind (Neg. Int) 14+23=-239(F=-219), 15-23=-20 15 Dead + 0	Vert: 2-7=-13, 7 Horz: 1-22=-6,	2-7=-7, 7-14=-5, 15-16=-22	53(F=-219), 2-14=-219(F), 14-23=-224(F=	-219), 15-23=-5)							
 Vert. 27-50, 7-14-14, 16-22-8, 1-2-205(F-219), 2-14-219(F), 14-23-215(F=219), 15-23-4 Hozt. 122-6, 27-42, 7-14-25, 15-16-4 Vert. 27-14, 7-14-50, 16-22-8, 1-2-215(F=219), 2-14-219(F), 14-23-205(F=219), 15-23-14 Hozt. 122-6, 27-42, 7-14-51, 15-16-6 Dada + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase-1.60, Plate Increase-1.60 Unform Loads (plf) Vert. 27-19, 7-14-9, 16-22-8, 1-2-215(F=-219), 2-14-219(F), 14-23-205(F=-219), 15-23-4 Hotz: 12-26, 27-27, 7-14-21, 15-16-4 Hoda + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase-1.60, Plate Increase-1.60 Unform Loads (plf) Vert: 27-19, 7-14-9, 16-22-8, 1-2-215(F=-219), 2-14-219(F), 14-23-215(F=-219), 15-23-4 Hotz: 12-26, 27-27, 7-14-31, 15-16-4 Hotz: 12-27-1, 7-14-31, 15-16-4 Lumber Increase-1.60, Plate Increase-1.60 Unform Loads (plf) Vert: 27-27, 7-21, 7-14-31, 15-16-5 Dead + 0.6 MWFRS Wind (Weg. Internal) 3rd Parallel: Lumber Increase-1.60, Plate Increase-1.60 Unform Loads (plf) Vert: 27-27, 7-71, 7-14, 7-14-5, 15-16-3 Joed + 0.6 MWFRS Wind (Weg. Internal) 2nd Parallel: Lumber Increase-1.60, Plate Increase-1.60 Vertiz: 27-21, 7-74-21, 7-14-5, 15-16-3 Joed + 0.6 MWFRS Wind (Weg. Internal) 2nd Parallel: Lumber Increase-1.60, Plate Increase-1.60 Vertiz: 27-21, 7-14-20, 15-22-20, 12-2-23(F=219), 2-14-219(F), 14-23-23(F=219), 15-23-14 Hotz: 12-2-3, 27-5, 7-14-20, 12-2-23(F=219), 2-14-219(F), 14-23-23(F=219), 15-23-5 Hotz: 12-2-3, 27-5, 7-14-20, 16-22-20, 12-2-23(F=219), 2-14-219(F), 14-23-23(F=219), 15-23-50 Vert: 27-80, 7-14-20, 16-22-20, 12-2-23(F=219), 2-14-219(F), 14-23-23(F=219), 15-23-20 Dad + 0.75 Kool Luve (bal) + 0.75(0.6 MWFRS Wind (Weg. Int) Left): Lumber Increase-1.60, Plate Increase-1.60 Unform Loads (plf) Vert: 27-80, 7-14-80, 16-22-20, 1-2-478(F=425), 2-14-425(F), 14-23-478(F	8) Dead + 0.6 MWFRS Wi Uniform Loads (plf)	nd (Pos. Internal) 1st Parallel	: Lumber Increase=1.60, Plate Increase=	1.60								
 Hof: 1-22-6, 2-7-642, 7-14-26, 15-16-14 Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (pl) Vert: 7-27-14, 7-14-30, 16-22-8, 1-2=215(F=219), 2-14=-219(F), 14-23=-205(F=-219), 15-23=14 Hor:: 1-22-14, 2-7-26, 7-14-42, 15-16=-6 Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.60 Uniform Loads (pl) Vert: 2-7-30, 7-14-80, 16-22-8, 1-2=205(F=219), 2-14=-219(F), 14-23=-215(F=-219), 15-23=4 Hor:: 1-22-6, 2-7-31, 7-14-421, 15-16-14 Dead + 0.6 MWFRS Wind (Pos. Internal) 4m Parallel: Lumber Increase=1.60 Uniform Loads (pl) Vert: 2-7-8, 7-14-19, 16-22-8, 1-2=216(F=-219), 2-14=-219(F), 14-23=-205(F=-219), 15-23=14 Hor:: 1-22-4, 2-7=21, 7-14-31, 15-16=-0 Dead + 0.6 MWFRS Wind (Neg. Internal) 18 Parallel: Lumber Increase=1.60 Uniform Loads (pl) Vert: 2-7-14, 7-14=5, 16-22-20, 1-2=-224(F=-219), 2-14=-219(F), 14-23=-233(F=-219), 15-23=14 Hor:: 1-27-14, 7-14=5, 16-22-20, 1-2=-234(F=-219), 2-14=-219(F), 14-23=-234(F=-219), 15-23=-14 Hor:: 1-27-14, 7-14=5, 16-22-20, 1-2=-234(F=-219), 2-14=-219(F), 14-23=-234(F=-219), 15-23=-14 Hor:: 1-27-15, 7-14=7, 1-14=5, 15-16=4 Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.60 Uniform Loads (pl) Vert: 2-7=-5, 7-14=2, 1, 1-16=37 Dead + 0.6 MWFRS Wind (Neg. Internal) 2.12=224(F=-219), 2-14=-219(F), 14-23=-224(F=-219), 15-23=-56 Vert: 2-7=-6, 7-14=2, 1, 1-20=-72, 1-2=-323(F=-219), 2-14=-219(F), 14-23=-224(F=-219), 15-23=-20 Dead + 0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60 Uniform Loads (pl) Vert: 2-7=-6, 7-14=2, 1, 1-16=-77 Dead + 0.75 Root Live (Dai) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60 <li< td=""><td>Vert: 2-7=30, 7</td><td>-14=14, 16-22=-8, 1-2=-205(</td><td>=-219), 2-14=-219(F), 14-23=-215(F=-21</td><td>19), 15-23=4</td><td></td><td></td><td></td></li<>	Vert: 2-7=30, 7	-14=14, 16-22=-8, 1-2=-205(=-219), 2-14=-219(F), 14-23=-215(F=-21	19), 15-23=4								
Uniform Loads (plf) Vert: 27-14, 714-93, 16-22=-8, 1-2=215(F=219), 2-14=-219(F), 14-23=-205(F=-219), 15-23=14 Horz: 1-22=-14, 2-7=-28, 7-14=-24, 15-16=-16 Uniform Loads (plf) Vert: 27-19, 7-14=9, 16-22=-8, 1-2=-205(F=219), 2-14=-219(F), 14-23=-215(F=-219), 15-23=4 Horz: 1-22=6, 2-7=-31, 7-14=21, 15-16=14 11) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert: 27-29, 7-14=9, 16-22=-8, 1-2=-216(F=-219), 2-14=-219(F), 14-23=-205(F=-219), 15-23=14 Horz: 1-22=-14, 2-7=21, 7-14=-31, 15-16=-3 12) Dead + 0.6 MWFRS Wind (Neg. Internal) 4th Parallel: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert: 27-7=1, 7-14=-51, 15-16=-3 13) Dead + 0.6 MWFRS Wind (Neg. Internal) 2th Parallel: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert: 27-7=7, 7-14=-51, 15-16=-3 13) Dead + 0.6 MWFRS Wind (Neg. Internal) 2th Parallel: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert: 27-20, 7-14=-5, 15-16=-17 Horz: 1-22=-0, 27-20, 7-14=-5, 15-16=-17 Horz: 1-22=-0, 27-20, 7-14=-5, 15-16=-17 Horz: 1-22=-0, 27-20, 7-14=-2, 15-2=-239(F=-219), 2-14=-219(F), 14-23=-239(F=-219), 15-23=-5 Horz: 1-22=-0, 27-20, 7-14=-20, 15-22=-0, 1-2=-239(F=-219), 2-14=-219(F), 14-23=-239(F=-219), 15-23=-50 Uniform Loads (plf) Vert: 27-20, 7-14=-20, 15-22=-0, 1-2=-239(F=-219), 2-14=-219(F), 14-23=-239(F=-219), 15-23=-20 15) Dead + 0.75 Root Live (Dal) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60 Uniform Loads (plf) Vert: 27-26, 7-14=-4, 15-16=-1 10 Dead + 0.75 Root Live (Dal) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60 Uniform Loads (plf) Vert: 27-26, 7-14=-4, 15-16=-16 10 Dead + 0.75 Root Live (Dal) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60 Uniform Loads (plf) Vert: 27-26, 7-14=-4, 15-16=-16 10 Dead + 0.75 Root Live (Dal) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60 Uniform Loads (plf) Vert: 27-26, 7-14=-4, 16-22=-20, 1-2=-479(F=-425),	Horz: 1-22=6, 2 9) Dead + 0.6 MWFRS Wi	2-7=-42, 7-14=26, 15-16=14 nd (Pos. Internal) 2nd Paralle	I: Lumber Increase=1.60, Plate Increase=	=1.60								
 Horz: 12:2=14, 2:7=26, 7:14=2, 15:16=4 Do Bad + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.60, Plate Increase=1.60 Unform Loads (pl) Vett 2:7-18, 7:14=2, 15:16=14 Pasad + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.60, Plate Increase=1.60 Unform Loads (pl) Vett 2:7-29, 7:14=21, 15:16=14 Pasad + 0.6 MWFRS Wind (Neg. Internal) 4th Parallel: Lumber Increase=1.60, Plate Increase=1.60 Unform Loads (pl) Vett 2:7-29, 7:14=21, 15:16=24 Pasad + 0.6 MWFRS Wind (Neg. Internal) 5th Parallel: Lumber Increase=1.60, Plate Increase=1.60 Unform Loads (pl) Vett 2:7-21, 7:14=51, 15:16=22 Pasad + 0.6 MWFRS Wind (Neg. Internal) 3th Parallel: Lumber Increase=1.60, Plate Increase=1.60 Unform Loads (pl) Vett 2:7-21, 7:14=51, 15:16=22 Pasad + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60 Unform Loads (pl) Vett 2:7-215, 7:14=21, 15:16=32 Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60 Unform Loads (pl) Vett 2:7-25, 7:14=21, 15:16=17 Pada: Lumber Increase=0.30, Plate Increase=0.90 Plt. metal=0.90 Unform Loads (pl) Vett 2:7-20, 7:14=20, 1:2=2:39(F=2:19), 2:14=:219(F), 14:23=:239(F=2:19), 15:23=-20 Pad + 0:75 Roof Live (plus) + 0:75(0:6 MWFRS Wind (Neg. Ini) Left): Lumber Increase=1.60, Plate Increase=1.60 Unform Loads (pl) Vett: 2:7-e3, 7:14=5, 15:16=4 Pad + 0:75 Roof Live (plus) + 0:75(0:6 MWFRS Wind (Neg. Ini) Left): Lumber Increase=1.60, Plate Increase=1.60 Unform Loads (pl) Vett: 2:7-e3, 7:14=-61, 16:22=-20, 1:2=-279(F=:425(F), 14:23=-479(F=:425), 15:23=-260(F=:206) Horz: 1:2:2=16, 2:7=4, 7:14=-61, 16:2	Uniform Loads (plf) Vert: 2-7=14, 7	-14=30, 16-22=-8, 1-2=-215()	=-219), 2-14=-219(F), 14-23=-205(F=-21	(9), 15-23=14								
 10) Dead + 0.6 MWFRS Wind (PG. Imemail) 3/D Parallel: Lumber Increase=1.00, Plate Increase=1.00 Uniform Loads (plf) Veri: 27-19, 7-14=9, 16-92=-8, 1-2=-205(F=-219), 2-14=-219(F), 14-23=-215(F=-219), 15-23=4 Horz: 1-22=6, 27-31, 7-14=21, 15-16=-1 11) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Veri: 27-39, 7-14=19, 16-22=-8, 1-2=-215(F=-219), 2-14=-219(F), 14-23=-205(F=-219), 15-23=14 Horz: 1-22=-14, 27-21, 7-14=-1, 15-16=-6 12) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Veri: 27-17, 7-14=-71, 16-22=-20, 1-2=-224(F=-219), 2-14=-219(F), 14-23=-233(F=-219), 15-23=-14 Horz: 1-22=14, 2-72-17, 7-14=-51, 16-22=-20, 1-2=-233(F=-219), 2-14=-219(F), 14-23=-224(F=-219), 15-23=-14 Horz: 1-22=-13, 2-7=5, 7-14=21, 15-16=-17 14) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Veri: 27=-20, 7-14=20, 16-22=-20, 1-2=-239(F=-219), 2-14=-219(F), 14-23=-239(F=-219), 15-23=-20 15) Dead + 0.75 Root Live (bal), + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Veri: 27=-61, 7-14=-53, 16-22=-20, 1-2=-472(F=-425), 2-14=-479(F=-425), 15-23=-260(F=-206) Horz: 1-22=16, 2-74, 7-14=5, 15-16=-16 16) Dead + 0.75 Root Live (bal), + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Veri: 27=-63, 7-14=-64, 15-16=-16 17) Dead + 0.75 Root Live (bal), + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Veri: 27=-63, 7-14=-64, 15-16=-16 17) Dead + 0.75 Root Live (bal), + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60 <l< td=""><td>Horz: 1-22=-14</td><td>, 2-7=-26, 7-14=42, 15-16=-6</td><td></td><td>4.00</td><td></td><td></td><td></td></l<>	Horz: 1-22=-14	, 2-7=-26, 7-14=42, 15-16=-6		4.00								
 Vert: 27=19, 7-14=9, 16-22=-8, 1-2e-205(F=219), 2-14=-219(F), 14-23=-215(F=-219), 15-23=4 H1) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (pl) Vert: 27=9, 7-14=19, 16-22=-8, 1-2e-215(F=-219), 2-14=-219(F), 14-23=-205(F=-219), 15-23=14 Horz: 1.22=-14, 2-7=21, 7-14=3, 1.5-16=-3 Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (pl) Vert: 2.7=11, 7-14=-15, 16-22=-20, 1-2=-224(F=-219), 2-14=-219(F), 14-23=-233(F=-219), 15-23=-14 Horz: 1.22=17, 2.7=21, 7.14=5, 15-16=-3 Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.60 Uniform Loads (pl) Vert: 2.7=15, 7.14=1, 16-22=-20, 1-2=-233(F=-219), 2-14=-219(F), 14-23=-224(F=-219), 15-23=-5 Horz: 1.22=-5, 2.7=5, 7.14=21, 15-16=-17 Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=-1.60 Uniform Loads (pl) Vert: 2.7=-20, 7.14=-20, 16-22=-20, 1-2=-239(F=-219), 2-14=-219(F), 14-23=-239(F=-219), 15-23=-5 Horz: 1.22=6, 2.7=5, 7.14=21, 15-16=-17 Dead + 0.75 Root Live (Dal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (pl) Vert: 2.7=-61, 7.14=-51, 51-16=4 Dead + 0.75 Root Live (Dal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (pl) Vert: 2.7=-61, 7.14=-51, 51-16=4 Dead + 0.75 Root Live (Dal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (pl) Vert: 2.7=42, 7.14=-51, 51-16=4 Dead + 0.75 Root Live (Dal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (pl) V	10) Dead + 0.6 MWFRS W Uniform Loads (plf)	And (Pos. Internal) 3rd Parall	el: Lumber Increase=1.60, Plate Increase	=1.60								
 11) Dead + 0.6 INVFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (pl) Vert: 27-8, 7:14=19, 16-22=8, 1-2=-216(F=-219), 2-14=-219(F), 14-23=-205(F=-219), 15-23=14 Horz: 1-22=-14, 2-7=-21, 7:14=31, 15-16=-6 21) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (pl) Vert: 2-7=1, 7:14=-15, 16-22=-20, 1-2=-224(F=-219), 2-14=-219(F), 14-23=-233(F=-219), 15-23=-14 Horz: 1-22=-17, 2-7=-21, 7:14=5, 15-16=-3 21) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (pl) Vert: 2-7=-15, 7:14=-1, 16-22=-20, 1-2=-233(F=-219), 2-14=-219(F), 14-23=-224(F=-219), 15-23=-5 Horz: 1-22=-3, 2-7=5, 7:14=21, 15-16=-17 14) Dead: Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90 Uniform Loads (pl) Vert: 2-7=-20, 7:14=-20, 16-22=-20, 1-2=-239(F=-219), 2-14=-219(F), 14-23=-239(F=-219), 15-23=-20 15) Dead + 0.75 Root Live (bal), + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (pl) Vert: 2-7=61, 7:14=-51, 5-16=4 16) Dead + 0.75 Root Live (bal), + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (pl) Vert: 2-7=61, 7:14=-51, 16-22=-20, 1-2=-472(F=-425), 2.14=-425(F), 14-23=-479(F=-425), 15-23=-260(F=-206) Horz: 1-22=4, 2-7=4, 7:14=-5, 15-16=4 17) Dead + 0.75 Root Live (bal), + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (pl) Vert: 2-7=-63, 7:14=-61, 16-22=-20, 1-2=-472(F=-425), 2.14=-425(F), 14-23=-472(F=-425), 15-23=-253(F=-206) Horz: 1-22=-4, 2-7=-5, 7:14=-4, 15-16=-16 17) Dead + 0.75 Root Live (bal), + 0.75(0.6 MWFRS Wind (Neg. Int) raterase=1.60, Plate Increase=1.60 Uniform Loads (pl) Vert: 2-7=-64, 7:14=-44, 15-16=-16 18) Dead + 0.75 Root Live (bal), + 0.75(0.6 MWFRS Wind (Neg. Int) raterase=1.60, Plate Increase=1.60 Uniform Loads (pl) <li< td=""><td>Vert: 2-7=19, Horz: 1-22=6.</td><td>7-14=9, 16-22=-8, 1-2=-205(2-7=-31, 7-14=21, 15-16=14</td><td>F=-219), 2-14=-219(F), 14-23=-215(F=-21</td><td>19), 15-23=4</td><td></td><td></td><td></td></li<>	Vert: 2-7=19, Horz: 1-22=6.	7-14=9, 16-22=-8, 1-2=-205(2-7=-31, 7-14=21, 15-16=14	F=-219), 2-14=-219(F), 14-23=-215(F=-21	19), 15-23=4								
 Uniform Loads (pit) Vert: 27–89, 7-14=19, 16-22=8, 1-2=-215(F=-219), 2-14=-219(F), 14-23=-205(F=-219), 15-23=14 Horz: 1-22=-11, 2-7=-21, 7-14=-31, 15-16=-6 Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (pit) Vert: 27–1, 7-14=-15, 16-22=-20, 1-2=-224(F=-219), 2-14=-219(F), 14-23=-233(F=-219), 15-23=-14 Horz: 1-22=-17, 2-7=-21, 7-14=5, 15-16=-3 Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (pit) Vert: 27–81, 7-14=-1, 16-22=-20, 1-2=-233(F=-219), 2-14=-219(F), 14-23=-224(F=-219), 15-23=-5 Horz: 1-22=-3, 27–5, 7-14=21, 15-16=-17 Dead: Lumber Increase=0.90, Plate Increase=0.90 Plt: metal=0.90 Uniform Loads (pit) Vert: 2-7=20, 7-14=-20, 16-22=-20, 1-2=-239(F=-219), 2-14=-219(F), 14-23=-239(F=-219), 15-23=-20 Dead: Lumber Increase=0.90, Plate Increase=0.90 Plt: metal=0.90 Uniform Loads (pit) Vert: 2-7=-20, 7-14=-20, 16-22=-20, 1-2=-239(F=-219), 2-14=-219(F), 14-23=-239(F=-219), 15-23=-20 Dead + 0.75 Root Live (bal) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (pit) Vert: 2-7=61, 7-14=-53, 16-22=-20, 1-2=-472(F=-425), 2-14=-425(F), 14-23=-479(F=-425), 15-23=-260(F=-206) Horz: 1-22=-16, 2-7=4, 7-14=-5, 15-16=4 Dead + 0.75 Root Live (bal) + 0.75(0.6 MWFRS Wind (Neg. Int) Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (pit) Vert: 2-7=53, 7-14=-4, 15-16=-16 Dead + 0.75 Root Live (bal) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60 Hoirz: 1-22=-32, 7-14=, 4, 15-16=2 Dead + 0.75 Root Live (bal) + 0.75(0.6 MWFRS Wind (Neg. Int) 2n4 Parallel): Lumber Increase=1.60, Plate Increase=1.60 Hoird: 1-22=-13, 2-7=-16, 7-14=-156 Dead + 0.75 Root	11) Dead + 0.6 MWFRS W	√ind (Pos. Internal) 4th Parall	el: Lumber Increase=1.60, Plate Increase	=1.60								
 Horz: 1-22-14, 2-7-21, 7-14-31, 15-16-6 12) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert: 2-7-1, 7-14-51, 16-22-20, 1-2224(F=-219), 2-14=-219(F), 14-23=-233(F=-219), 15-23=-14 Horz: 1-22=17, 2-7-21, 7-14-5, 15-16-3 13) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert: 2-7-15, 7-14-1, 16-2220, 1-2233(F=-219), 2-14=-219(F), 14-23=-224(F=-219), 15-23=-5 Horz: 1-22=-3, 2-7=-5, 7-14=21, 15-16=-17 Vert: 2-7=20, 7-14=-20, 16-22=-20, 1-2=-239(F=-219), 2-14=-219(F), 14-23=-239(F=-219), 15-23=-20 Uniform Loads (plf) Vert: 2-7=20, 7-14=-20, 16-22=-20, 1-2=-239(F=-219), 2-14=-219(F), 14-23=-239(F=-219), 15-23=-20 Dead + 0.75 Root Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert: 2-7=-61, 7-14=-53, 16-22=-20, 1-2=-472(F=-425), 2-14=-425(F), 14-23=-479(F=-425), 15-23=-260(F=-206) Horz: 1-22=16, 2-7=4, 7-14=-5, 15-16=4 16) Dead + 0.75 Root Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert: 2-7=-53, 7-14=-4, 15-16=-16 17) Dead + 0.75 Root Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert: 2-7=-53, 7-14=-4, 15-16=-16 17) Dead + 0.75 Root Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert: 2-7=-42, 7-14=-44, 15-16=-16 17) Dead + 0.75 Root Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert: 2-7=-42, 7-14=-44, 15-16=-2 18) Dead + 0.75 Root Live (bal.) + 0.75(0.6 MWFRS Wind	Vert: 2-7=9, 7	-14=19, 16-22=-8, 1-2=-215(F=-219), 2-14=-219(F), 14-23=-205(F=-21	19), 15-23=14								
 Uniform Loads (plf) Vert: 2-7=1, 7-14=-15, 16-22=-20, 1-2=-224(F=-219), 2-14=-219(F), 14-23=-233(F=-219), 15-23=-14 Horz: 1-22=17, 2-7=-12, 7-14=5, 15-16=-3 13) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert: 2-7=-15, 7-14=-21, 15-16=-17 14) Dead: Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90 Uniform Loads (plf) Vert: 2-7=-20, 7-14=-20, 16-22=-20, 1-2=-239(F=-219), 2-14=-219(F), 14-23=-239(F=-219), 15-23=-20 15) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert: 2-7=-61, 7-14=-53, 16-22=-20, 1-2=-472(F=-425), 2-14=-425(F), 14-23=-479(F=-425), 15-23=-260(F=-206) Horz: 1-22=61, 2-74, 7-14=5, 15-16=-1 16) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert: 2-7=-63, 7-14=-6, 16-22=-20, 1-2=-472(F=-425), 2-14=-425(F), 14-23=-472(F=-425), 15-23=-263(F=-206) Horz: 1-22=-4, 2-7=-5, 7-14=-4, 15-16=-16 17) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert: 2-7=-63, 7-14=-4, 15-16=-16 17) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert: 2-7=-42, 7-14=-42, 16-22=-20, 1-2=-472(F=-425), 2-14=-425(F), 14-23=-472(F=-425), 15-23=-253(F=-206) Horz: 1-22=-3, 2-7=-6, 7-14=-4, 16-16=-2 18) Dead + 0.75 Roof Live (bal.) + 0.5(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert: 2-7=-64, 7-14=-42, 16-22=-20, 1-2=-472(F=-425), 2-14=-425(F), 14-23=-472(F=-425), 15-23=-253(F=-206) Horz: 1-22=-23, 2-7=-4,	Horz: 1-22=-1 12) Dead + 0.6 MWFRS W	4, 2-7=-21, 7-14=31, 15-16=- Vind (Neg. Internal) 1st Parall	6 el: Lumber Increase=1.60. Plate Increase	=1.60								
 Velt: 2-7=1, 7-14=51, 16-22=0, 1-2=-220, 1-2=-23(F=-219), 14-23=-23(F=-219), 15-23=-14 Horz: 1-22=1, 2-7=15, 7-14=5, 15-16=3 13) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert: 2-7=51, 7-14=1, 16-22=-20, 1-2=-233(F=-219), 2-14=-219(F), 14-23=-224(F=-219), 15-23=-5 Horz: 1-22=-3, 2-7=5, 7-14=21, 15-16=-17 14) Dead: Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90 Uniform Loads (plf) Vert: 2-7=20, 7-14=-20, 16-22=-20, 1-2=-239(F=-219), 2-14=-219(F), 14-23=-239(F=-219), 15-23=-20 15) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert: 2-7=61, 7-14=53, 16-22=-20, 1-2=-472(F=-425), 2-14=-425(F), 14-23=-479(F=-425), 15-23=-260(F=-206) Horz: 1-22=16, 2-7=4, 7-14=5, 15-16=4 16) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert: 2-7=53, 7-14=61, 16-22=-20, 1-2=-479(F=-425), 2-14=-425(F), 14-23=-472(F=-425), 15-23=-253(F=-206) Horz: 1-22=-4, 2-7=5, 7-14=-4, 15-16=-4 17) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert: 2-7=53, 7-14=61, 16-22=-20, 1-2=-479(F=-425), 2-14=-425(F), 14-23=-472(F=-425), 15-23=-253(F=-206) Horz: 1-22=-4, 2-7=5, 7-14=-4, 15-16=-16 19) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60 10 Iniform Loads (plf) Vert: 2-7=4, 2-7=16, 7-14=4, 15-16=-2 18) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60 10 Uniform Loads (plf) Vert: 2-7=24, 7-14=42, 16-22=-20, 1-2=-479(F=-425), 2-14=-425(F), 14-23=-472(F=-425), 15-23=-253(F=-206) Horz: 1-22=-2, 2-7=4, 7-14=-6, 15-16=-13 19) Dead + 0.6 WVFRS Wind Kinc Lit: Lumber Increase=1.60 1	Uniform Loads (plf)	14 15 10 22 20 1 2 22	4(E 240) 2.44 240(E) 44.22 222(E	240) 45 22 4								
 13) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert: 2-7=-15, 7-14=21, 16-22=-20, 1-2=-233(F=-219), 2-14=-219(F), 14-23=-224(F=-219), 15-23=-5 HOTZ: 1-22=-3, 2-7=-5, 7-14=-21, 15-16=-17 14) Dead: Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90 Uniform Loads (plf) Vert: 2-7=-20, 7-14=-20, 16-22=-20, 1-2=-239(F=-219), 2-14=-219(F), 14-23=-239(F=-219), 15-23=-20 15) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert: 2-7=-61, 7-14=-53, 16-22=-20, 1-2=-472(F=-425), 2-14=-425(F), 14-23=-479(F=-425), 15-23=-260(F=-206) Horz: 1-22=16, 2-7=4, 7-14=5, 15-16=4 16) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert: 2-7=-53, 7-14=-61, 16-22=-20, 1-2=-479(F=-425), 2-14=-425(F), 14-23=-472(F=-425), 15-23=-263(F=-206) HOrz: 1-22=-4, 2-7=-5, 7-14=-4, 15-16=-16 17) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert: 2-7=-42, 7-14=-44, 15-16=-16 19 Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert: 2-7=-42, 7-14=-54, 16-22=-20, 1-2=-472(F=-425), 2-14=-425(F), 14-23=-479(F=-425), 15-23=-260(F=-206) HOrz: 1-22=-4, 2-7=-5, 7-14=-44, 15-16=2 19 Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert: 2-7=-54, 7-14=-42, 16-22=-20, 1-2=-479(F=-425), 2-14=-425(F), 14-23=-472(F=-425), 15-23=-253(F=-206) HOrz: 1-22=-3, 2-7=-4, 7-14=-16, 15-16=-13 19 Dead + 0.6 MWFRS Wind Kine Lit: Lumber Increase=1.60, Plate Increase=1.60 Vert: 2-7=-54, 7-14=-42, 16-2==-20, 1-2=-479(F=-425), 2-14=-425(F), 14-23=-	Horz: 1-22=17	7, 2-7=-21, 7-14=5, 15-16=3	+(F=-219), 2-14=-219(F), 14-25=-255(F=-	219), 15-25=-1	4							
 Vert: 2-7=15, 7-14=1, 16-22=-20, 1-2=-233(F=-219), 2-14=-219(F), 14-23=-224(F=-219), 15-23=-5 Horz: 1-22=-3, 2-7=-5, 7-14=-21, 15-16=-17 14) Dead: Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90 Uniform Loads (plf) Vert: 2-7=-20, 7-14=-20, 16-22=-20, 1-2=-239(F=-219), 2-14=-219(F), 14-23=-239(F=-219), 15-23=-20 15) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert: 2-7=-61, 7-14=-53, 16-22=-20, 1-2=-472(F=-425), 2-14=-425(F), 14-23=-479(F=-425), 15-23=-260(F=-206) Horz: 1-22=16, 2-7=4, 7-14=-51, 15-16=4 16) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert: 2-7=-63, 7-14=-61, 16-22=-20, 1-2=-479(F=-425), 2-14=-425(F), 14-23=-472(F=-425), 15-23=-253(F=-206) Horz: 1-22=4, 2-7=-5, 7-14=-4, 15-16=-16 17) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert: 2-7=-63, 7-14=-61, 16-22=-20, 1-2=-472(F=-425), 2-14=-425(F), 14-23=-472(F=-425), 15-23=-253(F=-206) Horz: 1-22=-4, 2-7=-5, 7-14=-4, 15-16=-16 17) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert: 2-7=-42, 7-14=-54, 16-22=-20, 1-2=-472(F=-425), 2-14=-425(F), 14-23=-479(F=-425), 15-23=-260(F=-206) Horz: 1-22=-13, 2-7=-16, 7-14=-4, 15-16=-2 18) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert: 2-7=-54, 7-14=-42, 16-22=-20, 1-2=-479(F=-425), 2-14=-425(F), 14-23=-472(F=-425), 15-23=-253(F=-206) Horz: 1-22=-2, 2-7=-4, 7-14=-16, 15-16=-13 19) Dead + 0.6 MWFRS Wind In. Left: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert: 2-7=-54, 7-14=-42, 16-22=-20, 1-2=-479(F=-425), 2-14=-425(Dead + 0.6 MWFRS W Uniform Loads (plf) 	/ind (Neg. Internal) 2nd Paral	Iel: Lumber Increase=1.60, Plate Increase	e=1.60								
 110 Dead: 1.22=0, 27=0, 7.14=21, 10=10=17 12 Dead: Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90 13 Dead: 4 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60 14 Dead: 12 D	Vert: 2-7=-15,	7-14=1, 16-22=-20, 1-2=-23	3(F=-219), 2-14=-219(F), 14-23=-224(F=-	219), 15-23=-5								
Uniform Loads (plf) Vert: 2-7=-20, 7-14=-20, 16-22=-20, 1-2=-239(F=-219), 2-14=-219(F), 14-23=-239(F=-219), 15-23=-20 15) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert: 2-7=-61, 7-14=-53, 16-22=-20, 1-2=-472(F=-425), 2-14=-425(F), 14-23=-479(F=-425), 15-23=-260(F=-206) Horz: 1-22=16, 2-7=4, 7-14=5, 15-16=4 16) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert: 2-7=-53, 7-14=-61, 16-22=-20, 1-2=-479(F=-425), 2-14=-425(F), 14-23=-472(F=-425), 15-23=-253(F=-206) Horz: 1-22=-4, 2-7=-5, 7-14=-4, 15-16=-16 17) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert: 2-7=-42, 7-14=-54, 16-22=-20, 1-2=-472(F=-425), 2-14=-425(F), 14-23=-479(F=-425), 15-23=-260(F=-206) Horz: 1-22=13, 2-7=-16, 7-14=4, 15-16=-2 18) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert: 2-7=-42, 7-14=-42, 16-22=-20, 1-2=-472(F=-425), 2-14=-425(F), 14-23=-479(F=-425), 15-23=-260(F=-206) Horz: 1-22=13, 2-7=-16, 7-14=4, 15-16=-2 18) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert: 2-7=-54, 7-14=-42, 16-22=-20, 1-2=-479(F=-425), 2-14=-425(F), 14-23=-472(F=-425), 15-23=-253(F=-206) Horz: 1-22=-2, 2-7=-4, 7-14=-6, 15-16=-13 19) Dead + 0.6 MWFRS Wind Min. Left: Lumber Increase=1.60, Plate Increase=1.60 Horz: 1-22=-2, 2-7=-4, 7-14=-6, 15-16=-13	14) Dead: Lumber Increas	e=0.90, Plate Increase=0.90	Plt. metal=0.90									
 15) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert: 2-7=-61, 7-14=-53, 16-22=-20, 1-2=-472(F=-425), 2-14=-425(F), 14-23=-479(F=-425), 15-23=-260(F=-206) Horz: 1-22=16, 2-7=4, 7-14=5, 15-16=-4 16) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert: 2-7=-53, 7-14=-61, 16-22=-20, 1-2=-479(F=-425), 2-14=-425(F), 14-23=-472(F=-425), 15-23=-253(F=-206) Horz: 1-22=-4, 2-7=-5, 7-14=-4, 15-16=-16 17) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert: 2-7=-42, 7-14=-54, 16-22=-20, 1-2=-472(F=-425), 2-14=-425(F), 14-23=-479(F=-425), 15-23=-260(F=-206) Horz: 1-22=13, 2-7=-16, 7-14=4, 15-16=2 18) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert: 2-7=-42, 7-14=-54, 16-22=-20, 1-2=-479(F=-425), 2-14=-425(F), 14-23=-479(F=-425), 15-23=-260(F=-206) Horz: 1-22=-3, 2-7=-16, 7-14=4, 15-16=2 18) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert: 2-7=-54, 7-14=-42, 16-22=-20, 1-2=-479(F=-425), 2-14=-425(F), 14-23=-472(F=-425), 15-23=-253(F=-206) Horz: 1-22=-2, 2-7=-4, 7-14=-16, 15-16=-13 19) Dead + 0.6 MWFRS Wind Min. Left: Lumber Increase=1.60, Plate Increase=1.60 	Uniform Loads (plf) Vert: 2-7=-20,	, 7-14=-20, 16-22=-20, 1-2=-2	239(F=-219), 2-14=-219(F), 14-23=-239(F	=-219), 15-23=	-20							
 Viniti Deads (pii) Vert: 2-7=-61, 7-14=-53, 16-22=-20, 1-2=-472(F=-425), 2-14=-425(F), 14-23=-479(F=-425), 15-23=-260(F=-206) Horz: 1-22=16, 2-7=4, 7-14=5, 15-16=4 16) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert: 2-7=-53, 7-14=-61, 16-22=-20, 1-2=-479(F=-425), 2-14=-425(F), 14-23=-472(F=-425), 15-23=-253(F=-206) Horz: 1-22=-4, 2-7=-5, 7-14=-4, 15-16=-16 17) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert: 2-7=-42, 7-14=-54, 16-22=-20, 1-2=-472(F=-425), 2-14=-425(F), 14-23=-479(F=-425), 15-23=-260(F=-206) Horz: 1-22=13, 2-7=-16, 7-14=4, 15-16=2 18) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert: 2-7=-54, 7-14=-64, 15-16=2 18) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert: 2-7=-54, 7-14=-42, 16-22=-20, 1-2=-479(F=-425), 2-14=-425(F), 14-23=-472(F=-425), 15-23=-253(F=-206) Horz: 1-22=13, 2-7=-40, 7-14=-40, 15-16=-13 19) Dead + 0.6 MWFRS Wind Min. Left: Lumber Increase=1.60, Plate Increase=1.60 	15) Dead + 0.75 Roof Live	(bal.) + 0.75(0.6 MWFRS W	ind (Neg. Int) Left): Lumber Increase=1.60	0, Plate Increas	e=1.60							
 Horz: 1-22=16, 2-7=4, 7-14=5, 15-16=4 16) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert: 2-7=-53, 7-14=-61, 16-22=-20, 1-2=-479(F=-425), 2-14=-425(F), 14-23=-472(F=-425), 15-23=-253(F=-206) Horz: 1-22=-4, 2-7=-5, 7-14=-4, 15-16=-16 17) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert: 2-7=-42, 7-14=-54, 16-22=-20, 1-2=-472(F=-425), 2-14=-425(F), 14-23=-479(F=-425), 15-23=-260(F=-206) Horz: 1-22=13, 2-7=-16, 7-14=-4, 15-16=2 18) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert: 2-7=-54, 7-14=-6, 7-14=-4, 15-16=2 18) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert: 2-7=-54, 7-14=-6, 15-16=-13 19) Dead + 0.6 MWFRS Wind Min. Left: Lumber Increase=1.60, Plate Increase=1.60 	Vert: 2-7=-61,	7-14=-53, 16-22=-20, 1-2=-4	72(F=-425), 2-14=-425(F), 14-23=-479(F	=-425), 15-23=	-260(F=-20	06)						
Uniform Loads (plf) Vert: 2-7=-53, 7-14=-61, 16-22=-20, 1-2=-479(F=-425), 2-14=-425(F), 14-23=-472(F=-425), 15-23=-253(F=-206) Horz: 1-22=-4, 2-7=-5, 7-14=-4, 15-16=-16 17) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert: 2-7=-42, 7-14=-54, 16-22=-20, 1-2=-472(F=-425), 2-14=-425(F), 14-23=-479(F=-425), 15-23=-260(F=-206) Horz: 1-22=13, 2-7=-16, 7-14=4, 15-16=2 18) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert: 2-7=-54, 7-14=-42, 16-22=-20, 1-2=-479(F=-425), 2-14=-425(F), 14-23=-472(F=-425), 15-23=-253(F=-206) Horz: 1-22=-2, 2-7=-4, 7-14=16, 15-16=-13 19) Dead + 0.6 MWFRS Wind Min. Left: Lumber Increase=1.60, Plate Increase=1.60	Horz: 1-22=16, 2-7=4, 7-14=5, 15-16=4 16) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60. Plate Increase=1.60											
 Horz: 1-22=4, 2-7=-5, 7-14=-4, 15-16=-16 17) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert: 2-7=-42, 7-14=-54, 16-22=-20, 1-2=-472(F=-425), 2-14=-425(F), 14-23=-479(F=-425), 15-23=-260(F=-206) Horz: 1-22=13, 2-7=-16, 7-14=4, 15-16=2 18) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert: 2-7=-54, 7-14=-42, 16-22=-20, 1-2=-479(F=-425), 2-14=-425(F), 14-23=-472(F=-425), 15-23=-253(F=-206) Horz: 1-22=-2, 2-7=-42, 7-14=-16, 15-16=-13 19) Dead + 0.6 MWFRS Wind Min. Left: Lumber Increase=1.60, Plate Increase=1.60 	Uniform Loads (plf)	Uniform Loads (plf)										
 17) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert: 2-7=-42, 7-14=-54, 16-22=-20, 1-2=-472(F=-425), 2-14=-425(F), 14-23=-479(F=-425), 15-23=-260(F=-206) Horz: 1-22=13, 2-7=-16, 7-14=4, 15-16=2 18) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert: 2-7=-54, 7-14=-42, 16-22=-20, 1-2=-479(F=-425), 2-14=-425(F), 14-23=-472(F=-425), 15-23=-253(F=-206) Horz: 1-22=-2, 2-7=-4, 7-14=16, 15-16=-13 19) Dead + 0.6 MWFRS Wind Min. Left: Lumber Increase=1.60, Plate Increase=1.60 	Horz: 1-22=-4, 2-7=-5, 7-14=-4, 15-16=-16											
 Vert: 2-7=-42, 7-14=-54, 16-22=-20, 1-2=-472(F=-425), 2-14=-425(F), 14-23=-479(F=-425), 15-23=-260(F=-206) Horz: 1-22=13, 2-7=-16, 7-14=4, 15-16=2 18) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert: 2-7=-54, 7-14=-42, 16-22=-20, 1-2=-479(F=-425), 2-14=-425(F), 14-23=-472(F=-425), 15-23=-253(F=-206) Horz: 1-22=-2, 2-7=-4, 7-14=16, 15-16=-13 19) Dead + 0.6 MWFRS Wind Min. Left: Lumber Increase=1.60, Plate Increase=1.60 	17) Dead + 0.75 Roof Live Uniform Loads (plf)	 Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) 										
 18) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert: 2-7=-54, 7-14=-42, 16-22=-20, 1-2=-479(F=-425), 2-14=-425(F), 14-23=-472(F=-425), 15-23=-253(F=-206) Horz: 1-22=-2, 2-7=-4, 7-14=16, 15-16=-13 19) Dead + 0.6 MWFRS Wind Min. Left: Lumber Increase=1.60, Plate Increase=1.60 	Vert: 2-7=-42, Horz: 1-22=13	7-14=-54, 16-22=-20, 1-2=-4	72(F=-425), 2-14=-425(F), 14-23=-479(F	=-425), 15-23=	-260(F=-20	06)						
Uniform Loads (pii) Vert: 2-7=-54, 7-14=-42, 16-22=-20, 1-2=-479(F=-425), 2-14=-425(F), 14-23=-472(F=-425), 15-23=-253(F=-206) Horz: 1-22=-2, 2-7=-4, 7-14=16, 15-16=-13 19) Dead + 0.6 MWFRS Wind Min. Left: Lumber Increase=1.60, Plate Increase=1.60	18) Dead + 0.75 Roof Live	(bal.) + 0.75(0.6 MWFRS W	ind (Neg. Int) 2nd Parallel): Lumber Increa	ase=1.60, Plate	Increase=	1.60						
Horz: 1-22=-2, 2-7=-4, 7-14=16, 15-16=-13 19) Dead + 0.6 MWFRS Wind Min. Left: Lumber Increase=1.60, Plate Increase=1.60	Vert: 2-7=-54,	, 7-14=-42, 16-22=-20, 1-2=-4	179(F=-425), 2-14=-425(F), 14-23=-472(F	=-425), 15-23=	-253(F=-20	96)						
	Horz: 1-22=-2 19) Dead + 0.6 MWFRS W	, 2-7=-4, 7-14=16, 15-16=-13 Vind Min. Left: Lumber Increa	se=1.60, Plate Increase=1.60									

Continued on page 3



						RELEASE FOR CONSTRUCT
Job	Truss	Truss Type	Qty	Ply	Summit/5 Cobey Creek	AS NOTED FOR PLAN REVIE
						DEVELOPMENT SERVICE
2975764	A4	ROOF SPECIAL GIRDER	1	2		
				L	Job Reference (optional)	LEE 3 SOWIWIT, WISSOUR
Builders FirstSource (Valley	Center), Valley Center, K	S - 67147,		8.430 s Aug	16 2021 MiTek Industries, In	. Thu Nov 41756-34-2021 Rage 2
			ID:3GmZIGCHwWZ	ZGARvEUeXV	yXyPZ34-SUflk3pUamFY7IO	Vz?45lv31edXDJk2erPRG6g/MVCd



LOAD CASE(S)

Uniform Loads (plf)

Vert: 2-7=-16, 7-14=-12, 16-22=-8, 1-2=-231(F=-219), 2-14=-219(F), 14-23=-231(F=-219), 15-23=-12

Horz: 1-22=16, 2-7=4

20) Dead + 0.6 MWFRS Wind Min. Right: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf)

Vert: 2-7=-12, 7-14=-16, 16-22=-8, 1-2=-231(F=-219), 2-14=-219(F), 14-23=-231(F=-219), 15-23=-12 Horz: 7-14=-4, 15-16=-16

21) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

Vert: 2-7=-70, 7-14=-20, 16-22=-20, 1-2=-564(F=-494), 2-14=-494(F), 14-23=-514(F=-494), 15-23=-295(F=-275) 22) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 2-7=-20, 7-14=-20, 16-22=-20, 1-2=-239(F=-219), 2-14=-219(F), 14-23=-239(F=-219), 15-23=-20 23) 3rd Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 2-7=-58, 7-14=-20, 16-22=-20, 1-2=-483(F=-425), 2-14=-425(F), 14-23=-445(F=-425), 15-23=-226(F=-206) 24) 4th Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 2-7=-20, 7-14=-20, 16-22=-20, 1-2=-239(F=-219), 2-14=-219(F), 14-23=-239(F=-219), 15-23=-20





BCLL BCDL	0.0 10.0	Rep Stress Incr YES Code IRC2018/TPI2014	WB 0.23 Matrix-R	Horz(CT) 0.0	0 20	n/a	n/a	Weight: 136 lb	FT = 20%
LUMBER TOP CH	8- ORD 2x4 SP	F No.2		BRACING- TOP CHORD	Structu	ral wood	sheathing di	rectly applied or 6-0-0 o	c purlins,
BOT CH	ORD 2x4 SP	F No.2			except	end verti	cals.		•
WEBS	2x4 SP	F No.2		BOT CHORD	Rigid ce	eiling dire	ectly applied	or 6-0-0 oc bracing.	
OTHERS	3 2x4 SP	F No.2							

REACTIONS. All bearings 22-4-0.

(lb) - Max Horz 37=-210(LC 10)

Max Uplift All uplift 100 lb or less at joint(s) 37, 20, 29, 30, 32, 33, 34, 35, 27, 26, 25, 24, 23, 22 except 36=-120(LC 12), 21=-108(LC 13) Max Grav All reactions 250 lb or less at joint(s) 37, 20, 28, 29, 30, 32, 33, 34, 35, 36, 27, 26, 25, 24, 23,

Grav All reactions 250 lb or less at joint(s) 37, 20, 28, 29, 30, 32, 33, 34, 35, 36, 27, 26, 25, 24, 23 22, 21

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 Corner(3E) -0-10-8 to 1-10-0, Exterior(2N) 1-10-0 to 11-2-0, Corner(3R) 11-2-0 to 14-2-0, Exterior(2N) 14-2-0 to 23-2-8 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

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

All plates are 2x4 MT20 unless otherwise indicated.

5) Gable requires continuous bottom chord bearing.

6) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).

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

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

9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 37, 20, 29, 30, 32, 33, 34, 35, 27, 26, 25, 24, 23, 22 except (jt=lb) 36=120, 21=108.

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



16023 Swingley Ridge Rd Chesterfield, MO 63017



NOTES-

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

2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 11-2-0, Exterior(2R) 11-2-0 to 14-2-0, Interior(1) 14-2-0 to 23-2-8 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

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

4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=132, 8=132.

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.



16023 Swingley Ridge Rd Chesterfield, MO 63017



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

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



Max Grav 13=1650(LC 1), 9=900(LC 1)

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

1-3=-170/492, 3-5=-658/193, 5-7=-626/184, 7-9=-898/169 TOP CHORD

BOT CHORD 11-13=-370/171. 10-11=-44/812. 9-10=-44/812

WEBS 3-13=-1458/238, 3-11=-28/795, 7-11=-553/238, 7-10=0/260

NOTES-

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

2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-0-0 to 3-0-0. Interior(1) 3-0-0 to 14-4-8. Exterior(2R) 14-4-8 to 17-4-8. Interior(1) 17-4-8 to 28-4-0 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.

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

5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 13=191, 9=119.

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

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.







8-10=-189/264, 7-8=-55/916, 6-7=-55/916

WEBS 1-8=-59/568, 2-8=-56/328, 4-8=-532/237

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 8-1-0, Exterior(2R) 8-1-0 to 11-1-0, Interior(1) 11-1-0 to 22-0-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

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

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

5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 10=112, 6=118.

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.



MiTek 16023 Swingley Ridge Rd Chesterfield, MO 63017



						RELEASE FOR CONSTRUCTION
Job	Truss	Truss Type	Qty	Ply	Summit/5 Cobey Creek	AS NOTED FOR PLAN REVIEW
	-					DEVELOPMENT SERVICES
2975764	C1	ROOF SPECIAL GIRDER	1	3		
				U	Job Reference (optional)	
Builders FirstSource (Valley	Center), Valley Center, K	S - 67147,	8	.430 s Aug	16 2021 MiTek Industries, In	Thu Nov 417 59 5 2021 Rage 2
			ID:3GmZIGCHwWZ0	GARvEUe	(VyXyPZ34-KXQh8E3feDuZ8	VYiwy06LQIp4i4kZ_kgb1tL6yNVQI

NOTES-

- 9) Bearing at joint(s) 18 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=1371, 18=1564.
- 11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- Use Simpson Strong-Tie LUS24 (4-10d Girder, 2-10d Truss, Single Ply Girder) or equivalent spaced at 6-0-0 oc max. starting at 1-9-12 from the left end to 7-9-12 to connect truss(es) to front face of bottom chord.
- 14) Fill all nail holes where hanger is in contact with lumber.

74=-98(F) 75=-98(F) 76=-62(F)

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

LOAD CASE(S) Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
 - Vert: 1-5=-70, 5-14=-70, 14-15=-70, 15-17=-70, 25-31=-20, 19-24=-20, 18-19=-20
- Concentrated Loads (lb) Vert: 14=-66(F) 25=-58(F) 9=-115(F) 19=-98(F) 27=-58(F) 6=-115(F) 16=-67(F) 35=-40(F) 38=-115(F) 39=-115(F) 40=-115(F) 41=-115(F) 42=-115(F) 43=-115(F) 44=-19(F) 45=-19(F) 45=-19(F) 45=-66(F) 50=-66(F) 51=-66(F) 52=-66(F) 53=-66(F) 53=-66(F) 55=-242(F) 56=-128(F) 57=-181(F) 58=-230(F) 59=-58(F) 60=-58(F) 61=-58(F) 62=-58(F) 63=-58(F) 64=-58(F) 65=-152(F) 66=-152(F) 66=-152(F) 66=-152(F) 68=-98(F) 69=-98(F) 70=-98(F) 71=-98(F) 72=-98(F) 73=-98(F)





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

16023 Swingley Ridge Rd Chesterfield, MO 63017

MiTek

						RELEASE FOR CONSTRUCTION
Job	Truss	Truss Type	Qty	Ply	Summit/5 Cobey Creek	AS NOTED FOR PLAN REVIEW
						DEVELOPMENT SERVICES
2975764	C2	Hip	1	1	lab Defenses (antional)	LEE'S SUMMIT MISSOURI
			L		Job Reference (optional)	
Builders FirstSource (Valley	Center), Valley Center, K	.S - 6/14/,	8	.430 s Aug	16 2021 Millek Industries, In	. Thu Nov 418,06,072021 Nage 2
NOTES-		ID:3GmZIGCH	IwWZGAR	vEUeXVyX	(yPZ34r9EfLDBpvPsaqQsP	RAqbtwkitwokY/6/22Xyr/Q/M/Q6

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

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





	6-11-12 13-8-0 ⁴	8-11-0 <u>24-2-0</u> 5-3-0 <u>5-3-0</u>	29-9-6	$\frac{35-4-13}{5-7-6}$ 41	<u>-6-10</u> 47-	8-8 52-0-0
Plate Offsets (X,Y)	[2:0-0-0,0-1-2], [14:0-0-10,Edge], [15:0-	1-8,0-0-0], [20:0-5-0,0-4-8]], [21:0-3-8,Edge], [22:0)-5-12,0-2-0]		
LOADING (psf) TCLL 25.0 TCDL 10.0 BCLL 0.0 BCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2018/TPI2014	CSI. TC 0.82 BC 0.89 WB 0.95 Matrix-AS	DEFL. ir Vert(LL) -0.56 Vert(CT) -1.10 Horz(CT) 0.42	(loc) l/defl 18-20 >999 18-20 >570 18-20 n/a	L/d P 240 M 180 M n/a V	LATES GRIP IT20 197/144 IT20HS 148/108 Veight: 298 lb FT = 20%
LUMBER- TOP CHORD 2x6 Sf BOT CHORD 2x4 Sf 7-21: 2 14-16: WEBS 2x4 Sf OTHERS 2x4 Sf WEDGE Left: 2x4 SP No.3	PF No.2 PF 1650F 1.5E *Except* 2x4 SPF No.2, 19-20,15-19: 2x6 SPF 210 2x6 SP 2400F 2.0E PF No.2 PF No.2	DOF 1.8E	BRACING- TOP CHORD BOT CHORD WEBS	Structural wood si 2-0-0 oc purlins (3 Rigid ceiling direc 1 Row at midpt	heathing directly app 3-0-5 max.): 5-10. tly applied. 6-22, 9-18	olied, except 3, 11-18, 13-16
REACTIONS. (siz Max H Max U Max C	e) 2=(0-3-8 + bearing block) (req. 0-3 forz 2=119(LC 16) Jplift 2=-317(LC 12), 14=-323(LC 13) 5rav 2=2402(LC 1), 14=2339(LC 1)	-12), 14=0-3-8				
FORCES. (lb) - Max. TOP CHORD 2-3= 9-10 BOT CHORD 2-24 17-1 WEBS 3-22 9-20 13-1	Comp./Max. Ten All forces 250 (lb) or -4322/555, 3-5=-3856/523, 5-6=-3377/50 =-4481/630, 10-11=-4960/665, 11-13=-6 =-518/3725, 22-24=-518/3725, 21-22=-3 8=-648/5702, 15-17=-651/5690, 15-16=- -395/189, 5-22=-125/1214, 6-22=-1624 =-109/332, 9-18=-962/196, 10-18=-144/7 5=-39/876, 13-16=-2882/454	less except when shown. 11, 6-7=-5084/754, 7-9=-5- 252/834, 13-14=-9311/124 4/440, 7-20=-393/135, 18- 470/3051, 14-15=-1119/86 (306, 20-22=-453/3886, 6- 1484, 11-18=-1371/312, 11	119/754, 17 20=-587/5014, 660 20=-172/1226, 1-16=-55/684,			
NOTES- 1) 2x4 SPF 1650F 1.5 fasteners. Bearing i 2) Unbalanced roof liv. 3) Wind: ASCE 7-16; ') MWFRS (envelope) 21-0-4, Interior(1) 2 exposed ; end vertir grip DOL=1.60 4) Provide adequate d 5) All plates are MT20 6) This truss has been 7) Bearing at joint(s) 1 capacity of bearing 8) Provide mechanical 2=317, 14=323. 9) This truss is design Comferenced sign dark	E bearing block 12" long at jt. 2 attached s assumed to be SPF 1650F 1.5E. e loads have been considered for this de /ult=115mph (3-second gust) Vasd=91rr gable end zone and C-C Exterior(2E) -C 1-0-4 to 35-4-13, Exterior(2R) 35-4-13 to cal left and right exposed;C-C for member rainage to prevent water ponding, plates unless otherwise indicated. designed for a 10.0 psf bottom chord liv 4 considers parallel to grain value using surface. connection (by others) of truss to bearin ed in accordance with the 2018 Internation d ANSI/TPI 1.	to front face with 2 rows of sign. ph; TCDL=6.0psf; BCDL=- 0-10-8 to 4-3-14, Interior(1) 42-9-1, Interior(1) 42-9-1 rs and forces & MWFRS for e load nonconcurrent with ANSI/TPI 1 angle to grain g plate capable of withstar onal Residential Code sect	of 10d (0.131"x3") nails 4.2psf; h=15ft; Cat. II; E 4-3-14 to 13-8-0, Exte to 52-0-0 zone; cantilex or reactions shown; Lur any other live loads. formula. Building desig nding 100 lb uplift at join tions R502.11.1 and R8	spaced 3" o.c. 8 To Exp C; Enclosed; rior(2R) 13-8-0 to rer left and right mber DOL=1.60 plat gner should verify nt(s) except (jt=lb) 302.10.2 and	te	ANDREW THOMAS JOHNSON NUMBER PE-2017018993 STONAL ENGLASS November 8,2021
WARNING - Verify Design valid for use of	design parameters and READ NOTES ON THIS AND only with MiTek® connectors. This design is based of	DINCLUDED MITEK REFERENCE only upon parameters shown, and	PAGE MII-7473 rev. 5/19/202 is for an individual building of	0 BEFORE USE. omponent, not		



						RELEASE FOR CONSTRUCTION
Job	Truss	Truss Type	Qty	Ply	Summit/5 Cobey Creek	AS NOTED FOR PLAN REVIEW
						DEVELOPMENT SERVICES
2975764	C3	Нір	1	1	Job Reference (optional)	LEE'S SUMMIT, MISSOURI
Builders FirstSource (Valley	Center), Valley Center, K	S - 67147,	8	.430 s Aug	16 2021 MiTek Industries, In	. Thu Nov 418,0009-2021 Rags 2 4
		ID:3GmZIGCHv	vWZGARv	/EUeXVyXy	/PZ34-wDG_41ERLWfaq8ZF	VsClgl?6DkUE0ZXnuMQgrJyMVC4
NOTES-						
10) This truss design requi	res that a minimum of 7/16" s	structural wood sheathing be applied directly to	the top ch	nord and 1	/2" gypsum sheetrock be ap	plied 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.





	8-4-0 16-3-3	24-2	-6	31-11-7	39-8-	-8 44-0	-0
Plate Offcote (X V)	[2:0.4.6 Edge] [5:0.2.0 Edge] [0:0.0.2	<u> </u>	-3	7-9-1	7-9-	1 4-3-	0
	[3.0-4-0,Euge], [3.0-2-0,Euge], [9.0-0-	5,0-2-14], [15:0-0-4,0-2-8]					
LOADING (psf) TCLL 25.0 TCDL 10.0 BCLL 0.0 BCDL 10.0	SPACING-2-0-0Plate Grip DOL1.15Lumber DOL1.15Rep Stress IncrYESCode IRC2018/TPI2014	CSI. TC 0.84 BC 0.90 WB 0.88 Matrix-AS	DEFL. ir Vert(LL) -0.43 Vert(CT) -0.82 Horz(CT) 0.30	n (loc) l/defl 3 12 >999 2 10-12 >642) 9 n/a	L/d 240 180 n/a	PLATES MT20 MT20HS Weight: 216 lb	GRIP 197/144 148/108 FT = 20%
			5540040				
TOP CHORD 2x4 SI 1-3: 2:	PF 1650F 1.5E *Except* x4 SPF No.2		TOP CHORD	Structural woo 2-0-0 oc purlin	d sheathing dire s (3-2-6 max.): 3	ectly applied, except 3-5.	end verticals, and
BOT CHORD 2x4 SI	PF 1650F 1.5E *Except*		BOT CHORD	Rigid ceiling di	rectly applied.	10 0 15 0 10	
WEBS 2x4.S	2X0 SP 2400F 2.0E PF No 2		WEBS	I Row at midp	1 5-	10, 0-15, 2-19	
VVED3 2X4 3	FF N0.2						
REACTIONS. (siz Max H Max U Max C	re) 9=0-3-8, 19=0-3-8 Horz 19=-206(LC 8) Jplift 9=-299(LC 13), 19=-214(LC 12) Grav 9=1973(LC 1), 19=1973(LC 1)						
FORCES. (lb) - Max TOP CHORD 2-3=	. Comp./Max. Ten All forces 250 (lb) c -2034/331, 3-4=-2787/451, 4-5=-2787/4	r less except when shown. 51, 5-6=-3266/511, 6-8=-4	470/674,				
8-9=	-6617/1004						
BOT CHORD 18-1	9=-98/1344, 16-18=-93/1799, 15-16=-2	22/2914, 12-15=-473/4077, 270/6062	10-12=-476/4076,				
WEBS 3-18 12-1 8-13	i=-512/159, 3-16=-242/1412, 4-16=-658 3=0/297, 6-13=-45/669, 8-11=-19/550, i =-1944/381	/223, 5-15=-82/808, 6-15=- 2-19=-2166/296, 2-18=-105	1319/297, 5/833,				
NOTES- 1) Unbalanced roof liv 2) Wind: ASCE 7-16; MWFRS (envelope Interior(1) 14-6-11 t vertical left and righ 3) Provide adequate d	e loads have been considered for this d Vult=115mph (3-second gust) Vasd=91n) gable end zone and C-C Exterior(2E) (to 24-2-6, Exterior(2R) 24-2-6 to 30-5-1, it exposed;C-C for members and forces Irainage to prevent water ponding.	esign. nph; TCDL=6.0psf; BCDL=)-1-12 to 4-3-12, Interior(1) Interior(1) 30-5-1 to 44-0-0 & MWFRS for reactions sh	4.2psf; h=15ft; Cat. II; E 4-3-12 to 8-4-0, Exteric 2 cone; cantilever left an own; Lumber DOL=1.60	Exp C; Enclosed; rr(2R) 8-4-0 to 14 d right exposed ; 0 plate grip DOL=	I-6-11, end =1.60	ATE OF	MISSOL
4) All plates are MT20	plates unless otherwise indicated.					AS ANI	DREW C
5) The Fabrication Tol	lerance at joint $5 = 12\%$	ve load nonconcurrent with	any other live loads			H THO	DMAS Y
 7) Bearing at joint(s) 9 capacity of bearing 	considers parallel to grain value using surface.	ANSI/TPI 1 angle to grain f	ormula. Building desigr	ner should verify		NOL * JOH	NSON
 8) Provide mechanica 9=299, 19=214. 	I connection (by others) of truss to bear	ng plate capable of withsta	nding 100 lb uplift at joi	nt(s) except (jt=lk)) (NUL	MBER AND
 This truss is design referenced standard 	ed in accordance with the 2018 Internat d ANSI/TPI 1.	ional Residential Code sec	tions R502.11.1 and R8	02.10.2 and		PE-201	1010995
10) This truss design sheetrock be appl	requires that a minimum of 7/16" structu ied directly to the bottom chord.	ral wood sheathing be app	lied directly to the top cl	nord and 1/2" gy	osum	SION	AL EN
11) Graphical purlin re	epresentation does not depict the size o	the orientation of the purli	n along the top and/or b	ottom chord.		Novem	ber 8,2021





⊢	5-7-12 11-0-0	21-0-0	30-4-4	36	-0-0 <u>39-8-8</u> 4	4-0-0
Plate Offsets (X,Y)	[3:0-4-6.Edge]. [10:0-2-4.Edge]	10-0-0	9-4-4	5-	7-12 3-0-0 4	-3-0
LOADING (psf) TCLL 25.0 TCDL 10.0 BCLL 0.0 BCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2018/TPI2014	CSI. TC 0.94 BC 0.98 WB 0.73 Matrix-AS	DEFL. in Vert(LL) -0.44 Vert(CT) -0.94 Horz(CT) 0.30	(loc) l/defl 12-14 >999 2 12-14 >562 10 n/a	L/d PLATES 240 MT20 180 MT20HS n/a Weight: 221	GRIP 197/144 148/108 Ib FT = 20%
LUMBER- TOP CHORD 2x4 SP 7-11: 2 BOT CHORD 2x4 SP 10-15: WEBS 2x4 SP	PF No.2 *Except* ix4 SPF 1650F 1.5E PF 1650F 1.5E *Except* 2x6 SP 2400F 2.0E, 16-18: 2x4 SPF No PF No.2	.2	BRACING- TOP CHORD BOT CHORD WEBS	Structural wood sh 2-0-0 oc purlins (3- Rigid ceiling directl 1 Row at midpt	eathing directly applied, exce -6-0 max.): 3-5. ly applied. 4-19, 6-17, 2-20	pt end verticals, and
REACTIONS. (siz Max H Max U Max G	e) 10=0-3-8, 20=0-3-8 lorz 20=-231(LC 8) plift 10=-314(LC 13), 20=-207(LC 12) irav 10=2035(LC 1), 20=1973(LC 1)					
FORCES. (lb) - Max. TOP CHORD 2-3= 8-9= 8-9= BOT CHORD 19-2i 13-11 13-12 WEBS 2-19 6-17: 9-13:	Comp./Max. Ten All forces 250 (lb) or 2158/360, 3-4=-1855/351, 4-5=-2487/44 4284/638, 9-10=-6295/933)=-127/1540, 17-19=-114/2289, 14-17=- 5=-260/1462, 12-13=-269/1626, 10-12=- =-50/607, 3-19=-89/582, 4-19=-946/219, =-1136/296, 6-14=-123/964, 14-15=-891, =-38/677, 9-15=-1826/343	less except when shown. 18, 5-6=-2782/452, 6-8=-40 295/3286, 12-14=-513/427 782/5741 4-17=-113/462, 5-17=-57/ (254, 8-15=-257/112, 2-20)	098/627, 11, 671, =-2221/314,			
NOTES- 1) Unbalanced roof live 2) Wind: ASCE 7-16; \ MWFRS (envelope) Interior(1) 17-2-11 to end vertical left and DOL=1.60 3) Provide adequate d 4) All plates are MT20 5) This truss has been 6) Bearing at joint(s) 1 capacity of bearing 3 7) Provide mechanical 10=314, 20=207. 8) This truss is design referenced standard 9) This truss design re sheetrock be applie	a loads have been considered for this de /ult=115mph (3-second gust) Vasd=91m gable end zone and C-C Exterior(2E) 0- 0-21-0-0, Exterior(2R) 21-0-0 to 27-2-13, right exposed;C-C for members and force rainage to prevent water ponding. plates unless otherwise indicated. designed for a 10.0 psf bottom chord liv 0 considers parallel to grain value using surface. connection (by others) of truss to bearin ed in accordance with the 2018 Internation I ANSI/TPI 1. quires that a minimum of 7/16" structural d directly to the bottom chord. presentation does not depict the size or	sign. ph; TCDL=6.0psf; BCDL=/ 1-12 to 4-6-9, Interior(1) 4 Interior(1) 27-2-13 to 44-1 es & MWFRS for reaction e load nonconcurrent with ANSI/TPI 1 angle to grain g plate capable of withstar onal Residential Code sect wood sheathing be applie	4.2psf; h=15ft; Cat. II; E: -6-9 to 11-0-0, Exterior(0-8 zone; cantilever left s shown; Lumber DOL= any other live loads. formula. Building design nding 100 lb uplift at join ions R502.11.1 and R8(d directly to the top cho	xp C; Enclosed; 2R) 11-0-0 to 17-2-1 and right exposed ; 1.60 plate grip her should verify t(s) except (jt=lb) 02.10.2 and rd and 1/2" gypsum	H, Striff C Striff C Striff C Striff C A T Striff C N PE-2 STO	AF MISSOL NDREW HOMAS UMBER 017018993

November 8,2021





16

4x6 =

17

4x8 =

5	-5-0 <u>10-6-8 1</u>	6-0-9 <u>21-6-10</u>	30-7-9	36-0-0	39-8-8 44-0-0
Plate Offsets (X,Y)	[3:0-5-8,0-2-4], [5:0-5-0,0-2-4], [10:0	-2-4,Edge]	0010	011	
LOADING (psf) TCLL 25.0 TCDL 10.0 BCLL 0.0 BCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2018/TPI2014	CSI. TC 0.93 BC 0.99 WB 0.70 Matrix-AS	DEFL. in ((Vert(LL) -0.44 12 Vert(CT) -0.92 12 Horz(CT) 0.31	(loc) l/defl L/d 2-14 >999 240 2-14 >570 180 10 n/a n/a	PLATES GRIP MT20 197/144 MT20HS 148/108 Weight: 219 lb FT = 20%
LUMBER- TOP CHORD 2x4 S 7-11: BOT CHORD 2x4 S 10-15 WEBS 2x4 S	PF No.2 *Except* 2x4 SPF 1650F 1.5E PF 1650F 1.5E *Except* :: 2x6 SP 2400F 2.0E, 16-18: 2x4 SPF PF No.2	No.2	BRACING- TOP CHORD St 2- BOT CHORD Ri WEBS 1	tructural wood sheathing d -0-0 oc purlins (3-4-8 max. igid ceiling directly applied Row at midpt	irrectly applied, except end verticals, and): 3-5. 6-17, 4-19, 2-20
REACTIONS. (si Max Max Max	ze) 10=0-3-8, 20=0-3-8 Horz 20=-229(LC 8) Uplift 10=-314(LC 13), 20=-208(LC 12 Grav 10=2035(LC 1), 20=1973(LC 1)	2)			
FORCES. (lb) - Max TOP CHORD 2-3: 8-9: BOT CHORD 19-3 13-1	 Comp./Max. Ten All forces 250 (lb =-2153/353, 3-4=-1858/346, 4-5=-252 =-4305/636, 9-10=-6268/925 20=-124/1511, 17-19=-117/2316, 14-1 15=-226/1329, 12-13=-238/1504, 10-1) or less except when shown 3/450, 5-6=-2812/454, 6-8=-4 7=-306/3336, 12-14=-538/43 2=-774/5715	n. 4143/633, 370,		

NOTES-

WEBS

3-8-4

20

5x12 MT20HS =

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 4-6-9, Interior(1) 4-6-9 to 10-6-8, Exterior(2R) 10-6-8 to 16-9-3, Interior(1) 16-9-3 to 21-6-10, Exterior(2R) 21-6-10 to 27-7-4, Interior(1) 27-7-4 to 44-10-8 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

18

4x6 =

19

4x8 =

3) Provide adequate drainage to prevent water ponding.

9-15=-1798/341

4) All plates are MT20 plates unless otherwise indicated.

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

2-19=-57/617, 3-19=-87/578, 5-17=-52/676, 6-17=-1159/297, 6-14=-122/953, 14-15=-924/261, 4-19=-953/222, 4-17=-111/463, 2-20=-2212/313, 9-13=-47/721,

6) Bearing at joint(s) 10 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.

7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 10=314, 20=208.

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

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

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

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



27

12

5x8 =

10

8x12 🌫

15

2x4 ||

3.00 12

5x8 🥢

14

4x6 =





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

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

November 8,2021





1	5-2-15	10-7-8	19-7-6) 1	20-0-7	1	33-3-0	
F	5-2-15	5-4-9	9-0-0	1	6-9-15	1	6-10-1	
Plate Offsets (X,Y)-	- [8:0-3-8,Edge], [10:	0-3-8,0-2-8], [12:0-5-8	,0-3-0], [14:0-3-8,Edge]					
LOADING (psf) TCLL 25.0 TCDL 10.0 BCLL 0.0 BCDL 10.0	SPACING- Plate Grip D Lumber DOL Rep Stress I Code IRC20	2-0-0 OL 1.15 - 1.15 ncr YES 018/TPI2014	CSI. TC 0.60 BC 0.89 WB 0.79 Matrix-AS	DEFL. Vert(LL) Vert(CT) Horz(CT)	in (loc) l/defl -0.35 14-15 >999 -0.71 14-15 >558 0.12 8 n/a	L/d 240 180 n/a	PLATES MT20 MT20HS Weight: 179 lb	GRIP 197/144 148/108 o FT = 20%
LUMBER- TOP CHORD 2x4 BOT CHORD 2x4	SPF No.2 SPF No.2			BRACING- TOP CHOR	D Structural wood 2-0-0 oc purlins	sheathing dire 5-0-2 max.):	ectly applied, except 1-3.	t end verticals, and
WEBS 2x4	SPF No.2			BOT CHOR	D Rigid ceiling dire	ctly applied.		

WEBS

1 Row at midpt

1-15, 4-13, 2-15

WEDGE Right: 2x4 SPF No.2

REACTIONS. (size) 15=0-3-8, 8=0-3-8

Max Horz 15=-381(LC 10) Max Uplift 15=-228(LC 8), 8=-234(LC 13) Max Grav 15=1491(LC 1), 8=1554(LC 1)

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

TOP CHORD 2-3=-1235/254, 3-4=-1394/255, 4-5=-2744/464, 5-7=-2753/382, 7-8=-2925/425

BOT CHORD 3-13=-8/252, 12-13=-45/1770, 5-12=-426/175, 8-10=-313/2614

WEBS 13-15=0/624, 2-13=-140/1014, 4-13=-964/267, 4-12=-239/1238, 10-12=-285/2516, 7-10=-298/101, 2-15=-1475/254

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 3-5-11, Interior(1) 3-5-11 to 10-7-8, Exterior(2R) 10-7-8 to 15-0-11, Interior(1) 15-0-11 to 34-2-0 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
- 3) Provide adequate drainage to prevent water ponding.
- 4) All plates are MT20 plates unless otherwise indicated.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 15=228, 8=234.
- 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.







	5-5-8 5-2-0	3-0-13	5-11-3	0-9-121-1-4	4-8-12	4-8-12 2-3-8
Plate Offsets (X,Y)	[6:0-3-8,0-3-0], [7:0-7-9,Edge], [8:0-0-1	5,0-2-3], [10:1-1-12,0-0-1]				
LOADING (psf) TCLL 25.0 TCDL 10.0 BCLL 0.0 BCDL 10.0	SPACING-2-0-0Plate Grip DOL1.15Lumber DOL1.15Rep Stress IncrYESCode IRC2018/TPI2014	CSI. TC 0.72 BC 1.00 WB 0.91 Matrix-AS	DEFL. Vert(LL) Vert(CT) Horz(CT)	in (loc) -0.35 7-11 -0.74 12-14 0.30 8	l/defl L/d >999 240 >539 180 n/a n/a	PLATES GRIP MT20 197/144 Weight: 193 lb FT = 20%
LUMBER- TOP CHORD 2x4 SP 6-9: 2x BOT CHORD 2x4 SP 7-13: 2 WEBS 2x4 SP OTHERS 2x6 SP LBR SCAB 6-9 2x6 WEDGE Right: 2x4 SPF No.2	F No.2 *Except* 6 SPF 2100F 1.8E F No.2 *Except* x4 SPF 1650F 1.5E F No.2 F 2100F 1.8E 5 SPF 2100F 1.8E one side		BRACING- TOP CHOF BOT CHOF WEBS	RD Structu 2-0-0 c RD Rigid c 1 Row	ral wood sheathii c purlins (4-6-15 eiling directly app at midpt	ng directly applied, except end verticals, and max.): 1-4. lied. 1-17, 2-16
REACTIONS. (size Max H Max U Max G	e) 17=0-3-8, 8=0-3-8 orz 17=-330(LC 10) plift 17=-238(LC 8), 8=-223(LC 13) rav 17=1491(LC 1), 8=1554(LC 1)					
FORCES. (lb) - Max. TOP CHORD 1-17= 3-4=- 25-25 BOT CHORD 16-17 7-11= WEBS 1-16= 5-12=	Comp./Max. Ten All forces 250 (lb) or 1440/249, 1-26=-814/209, 2-26=-814/2 1473/259, 4-28=-2802/472, 5-28=-2896)=-4022/503, 7-29=-4030/501, 7-8=-684 ?=-202/317, 3-14=-301/101, 13-14=-38/ 418/3861 235/1511, 2-16=-1342/234, 14-16=0/8 352/207, 6-12=-1349/273, 4-12=-300/	less except when shown. 209, 2-27=-1466/261, 3-27 /444, 5-6=-2892/363, 6-25 /120 1622, 12-13=-38/1622, 11 81, 2-14=-103/1129, 4-14 1447	7=-1466/261, 5=-3924/523, -12=-415/3865, =-377/168,			
NOTES- 1) Attached 8-7-1 scab 0-0-7 from end at joi 2) Unbalanced roof live 3) Wind: ASCE 7-16; V MWFRS (envelope) , Interior(1) 18-4-13 & MWFRS for reacti 4) Provide adequate dr 5) All plates are 2x4 M 6) This truss has been 7) Provide mechanical joint 8. 8) This truss is designed standard ANSI/TPL 1 9) This truss design reactions of the second 1) Creation of the second of t	6 to 9, front face(s) 2x6 SPF 2100F 1.8 nt 6, nail 2 row(s) at 4" o.c. for 2-0-0; sta loads have been considered for this de ult=115mph (3-second gust) Vasd=91m gable end zone and C-C Exterior(2E) 0- to 34-2-0 zone; cantilever left and right e ons shown; Lumber DOL=1.60 plate grij 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 ed in accordance with the 2018 Internatio quires that a minimum of 7/16" structura d directly to the bottom chord.	E with 2 row(s) of 10d (0. riting at 3-9-7 from end at sign. ph; TCDL=6.0psf; BCDL= 1-12 to 3-5-11, Interior(1) exposed ; end vertical left b DOL=1.60 e load nonconcurrent with g plate capable of withsta onal Residential Code second	131"x3") nails spar joint 6, nail 2 row 4.2psf; h=15ft; Ca 3-5-11 to 13-8-5, and right exposed any other live loa inding 238 lb uplift tions R502.11.1 a ed directly to the to	ced 9" o.c.exce (s) at 3" o.c. for at. II; Exp C; End Exterior(2R) 13 I;C-C for member ids. at joint 17 and nd R802.10.2 a op chord and 1/	pt : starting at 4-7-15. closed; -8-5 to 18-4-13 ers and forces 223 lb uplift at nd referenced 2" gypsum	ANDREW THOMAS JOHNSON NUMBER PE-2017018993 SIONAL ENGINE November 8,2021
Obhthateborepayeliz rep	presentation does not depict the size or	the orientation of the purli	n along the top an	d/or bottom cho	ord.	
WARNING - Verify du Design valid for use onl a truss system. Before building design. Bracin is always required for s fabrication, storage, del Safety Information	esign parameters and READ NOTES ON THIS AND y with MITek® connectors. This design is based or use, the building designer must verify the applicable g indicated is to prevent buckling of individual truss tability and to prevent collapse with possible person ivery, erection and bracing of trusses and truss sys valiable from Truss Plate Institute, 2670 Crain High	INCLUDED MITEK REFERENCE Ily upon parameters shown, and lity of design parameters and pro web and/or chord members only nal injury and property damage. tems, see ANSUTENI C way, Suite 203 Waldorf, MD 2066	PAGE MII-7473 rev. 5/ is for an individual build perly incorporate this of y. Additional temporary For general guidance r Quality Criteria, DSB-80	19/2020 BEFORE U ding component, no design into the overa y and permanent bra- regarding the 89 and BCSI Buildi	SE. t all acing ng Component	16023 Swingley Ridge Rd Chesterfield, MO 63017

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 Job
 Truss
 Truss Type
 Qty
 Ply
 Summit/5 Cobey Creek
 AS NOTED FOR PLAN REVIEW

 2975764
 C10
 Half Hip
 1
 1
 Job Reference (optional)
 LEE'S SUMMIT, MISSOURI

 Builders First Source, Valley Center, KS 67147
 Builders First Source, Valley Center, KS 67147
 B.430 s Oct 22 2021 MiTek Indu stries, Inc. Mon Nov. 807/23:56 2021 Page 2

LOAD CASE(S) Standard



	7-7-0	0-3-11	2.9.13	11.0 2.10.5	6.7.3	
Plate Offcets (X V)-	[6:0-5-4 Edge] [7:0-7-13 Edge] [8:0-0-	<u>9-3-11</u> 15 0-2-31 [10:1-1-12 0-0-1]	[15:Edge 0-3-8]	2-10-5	0-7-5	2-3-8
Fidle Olisels (A, I)-	[0.0-3-4,Euge], [1.0-1-13,Euge], [0.0-0-	15,0-2-3], [10.1-1-12,0-0-1]	[, [15.Edge,0-3-6]			
LOADING (psf) TCLL 25.0 TCDL 10.0	SPACING-2-0-0Plate Grip DOL1.15Lumber DOL1.15	CSI. TC 0.75 BC 0.94	DEFL. in Vert(LL) -0.40 Vert(CT) -0.76	(loc) l/defl 7-11 >986 7-11 >526	L/d P 240 N 180 N	LATES GRIP 1T20 197/144 1T20HS 148/108
BCLL 0.0	Rep Stress Incr YES	WB 0.71	Horz(CT) 0.34	8 n/a	n/a	
BCDL 10.0	Code IRC2018/TPI2014	Matrix-AS			- N	√eight: 179 lb FT = 20%
LUMBER- TOP CHORD 2x4 6-9: BOT CHORD 2x4 7-11 WEBS 2x4 OTHERS 2x6	SPF No.2 *Except* 2x6 SPF 2100F 1.8E SPF No.2 *Except* :: 2x4 SPF 1650F 1.5E SPF No.2 SPF No.2 SPF 2100F 1.8E		BRACING- TOP CHORD BOT CHORD WEBS	Structural wood si 2-0-0 oc purlins (3 Rigid ceiling direc 1 Row at midpt	neathing directly app }-5-15 max.): 1-5. tly applied. 1-16, 6-12	olied, except end verticals, and
LBR SCAB 6-9	2x6 SPF 2100F 1.8E one side					
WEDGE						
Right: 2x4 SPF No.2						
REACTIONS. (Ma Ma Ma	size) 16=0-3-8, 8=0-3-8 < Horz 16=-278(LC 10) < Uplift 16=-248(LC 8), 8=-205(LC 13) < Grav 16=1491(LC 1), 8=1554(LC 1)					
TOP CHORD 1- 4-	ax. Comp./Max. 1 en All forces 250 (lb) o 16=-1424/249, 1-25=-1480/270, 2-25=-148 5=-2091/312, 5-26=-2268/314, 6-26=-2384	0/270, 2-3=-1474/263, 3-4 /283, 6-24=-3500/423, 24-	=-1474/263, 27=-3649/397,			
	2/=-3038/393, /-8=-084/112 14_ 494/179 12 14_ 129/1004 12 12_ 11	9/100/ 11 12- 200/2/50	7 11- 202/2452			
WFBS 1-	14=-266/1878 4-14=-688/139 4-12=-85/2	96 5-12=-8/489 6-12=-145	59/328			
6-	11=0/265	50, 0 12- 0/100, 0 12- 1 10	56/626,			
-						
 NOTES- Attached 10-7-5: 0-0-7 from end at Unbalanced roof Wind: ASCE 7-16 MWFRS (envelop 21-7-3, Interior(1) forces & MWFRS Provide adequate All plates are MT This truss has be Provide mechani joint 8. This truss is desi standard ANSI/TI This truss design sheetrock be app 10) Graphical purlin 	scab 6 to 9, front face(s) 2x6 SPF 2100F 1 joint 6, nail 2 row(s) at 7" o.c. for 2-0-0; st live loads have been considered for this di s; Vult=115mph (3-second gust) Vasd=91r ve) gable end zone and C-C Exterior(2E) 0 21-7-3 to 34-2-0 zone; cantilever left and for reactions shown; Lumber DOL=1.60 p edrainage to prevent water ponding. 20 plates unless otherwise indicated. en designed for a 10.0 psf bottom chord lin cal connection (by others) of truss to beari pned in accordance with the 2018 Internat P1. requires that a minimum of 7/16" structurat lied directly to the bottom chord. representation does not depict the size or	8E with 2 row(s) of 10d (0. arting at 5-9-12 from end at usign. 10, TCDL=6.0psf; BCDL=4 1-12 to 3-5-11, Interior(1) right exposed ; end vertical late grip DOL=1.60 e load nonconcurrent with 10 gplate capable of withstar onal Residential Code sect I wood sheathing be applie the orientation of the purlin	131"x3") nails spaced 9' t joint 6, nail 2 row(s) at 4 4.2psf; h=15ft; Cat. II; Ex 3-5-11 to 16-10-11, Exte l left and right exposed;C any other live loads. nding 248 lb uplift at joint ions R502.11.1 and R80 ed directly to the top chor n along the top and/or bo	" o.c.except : startin 4" o.c. for 4-7-15. xp C; Enclosed; rrior(2R) 16-10-11 t C-C for members ar t 16 and 205 lb upli 02.10.2 and reference rd and 1/2" gypsum ottom chord.	g at o td ft at ced	ANDREW THOMAS JOHTSDN NUMBER PE-2017018993 SSIONAL ENGINE November 8,2021
LOAD CASE(S) VS Design valid for uss a truss system. Bef building design. Br is always required f	A characteristic and READ NOTES ON THIS AND only with MITek® connectors. This design is based ore use, the building designer must verify the applicab acing indicated is or prevent buckling of individual trus or stability and to prevent collapse with possible perso	INCLUDED MITEK REFERENCE I nly upon parameters shown, and it lity of design parameters and prop s web and/or chord members only nal injury and property damage. F	PAGE MII-7473 rev. 5/19/2020 F s for an individual building com perly incorporate this design int . Additional temporary and per or general guidance regarding	BEFORE USE. ponent, not to the overall manent bracing the		MiTek'

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

16023 Swingley Ridge Rd Chesterfield, MO 63017



 	7-7-0	13-10-1	2 ⁻ 19-7-8 20-1 ₁ 2	1-6-8 26-3-	4	31-0-0	33-3-8
Plate Offsets (X,Y)	[6:0-3-4,0-3-0], [7:0-11-11,0-0	0-10], [8:0-0-15,0-2-3], [16:Edge,0-3-8]	-5-6 4-8-1	2	4-8-12	2-3-8
LOADING (psf) TCLL 25.0 TCDL 10.0 BCLL 0.0 BCDL 10.0	SPACING- 2- Plate Grip DOL 1 Lumber DOL 1 Rep Stress Incr Y Code IRC2018/TPI20	0-0 CSI. .15 TC 0.72 .15 BC 0.76 ES WB 0.55 14 Matrix-AS	DEFL. in Vert(LL) -0.28 Vert(CT) -0.51 Horz(CT) 0.25	(loc) l/defl 7-11 >999 7-11 >782 8 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 186 lb	GRIP 197/144 FT = 20%
LUMBER- TOP CHORD 2x4 S 6-9: 2 BOT CHORD 2x4 S 13-15 WEBS 2x4 S OTHERS 2x6 S LBR SCAB 6-9 2x WEDGE Right: 2x4 SPF No.2	PF No.2 *Except* x6 SPF 2100F 1.8E PF No.2 *Except* : 2x6 SPF No.2, 7-13: 2x6 SPF PF No.2 PF 2100F 1.8E :6 SPF 2100F 1.8E one side	2100F 1.8E	BRACING- TOP CHORD BOT CHORD WEBS	Structural wood s 2-0-0 oc purlins (Rigid ceiling dired 1 Row at midpt	sheathing directly (2-11-8 max.): 1-5 ctly applied. 1-17,	v applied, except 5. 6-12	end verticals, and
REACTIONS. (siz Max H Max U Max C	ee) 17=0-3-8, 8=0-3-8 Horz 17=-225(LC 10) Jplift 17=-255(LC 8), 8=-182(L Grav 17=1491(LC 1), 8=1554(I	C 13) _C 1)					
FORCES. (lb) - Max TOP CHORD 1-17 4-27 25-2 BOT CHORD 2-15 FOR CHORD 2-11 WEBS 1-15 6-12 6-12	Comp./Max. Ten All forces =-1410/264, 1-26=-1960/355, =-2671/441, 5-27=-2669/441, 9=-4280/470, 7-29=-4288/468 =-1026/261, 14-15=-192/1957 =-393/4043 =-347/2254, 2-14=-128/876, 4 =-1538/290, 6-11=0/367	250 (lb) or less except when shown. 2-26=-1960/355, 2-3=-2669/440, 3-4= 5-28=-2815/406, 6-28=-2904/380, 6-2 ,7-8=-684/109 ,13-14=-237/2590, 12-13=-237/2590, .14=-477/163, 5-14=-57/329, 5-12=-4	2669/440, :5=-4182/491, 11-12=-391/4066, 2/609,				
NOTES- 1) Attached 8-7-1 scal 0-0-7 from end at jc 2) Unbalanced roof liv 3) Wind: ASCE 7-16; ' MWFRS (envelope , Interior(1) 24-9-10 & MWFRS for react 4) Provide adequate c 5) This truss has beer 6) Provide mechanica joint 8. 7) This truss is design standard ANSI/TPI 8) This truss design re sheetrock be applie 9) Graphical purlin rep	b 6 to 9, front face(s) 2x6 SPF bint 6, nail 2 row(s) at 7" o.c. fo e loads have been considered Vult=115mph (3-second gust) 1) gable end zone and C-C Exte to 34-2-0 zone; cantilever left ions shown; Lumber DOL=1.6 Irainage to prevent water pond d designed for a 10.0 psf bottor I connection (by others) of trus ed in accordance with the 2013 1. equires that a minimum of 7/16 ed directly to the bottom chord. presentation does not depict the	2100F 1.8E with 2 row(s) of 10d (0.13 r 2-0-0; starting at 3-9-7 from end at jo for this design. /asd=91mph; TCDL=6.0psf; BCDL=4 rior(2E) 0-1-12 to 3-5-11, Interior(1) 3 and right exposed ; end vertical left at 0 plate grip DOL=1.60 ing. n chord live load nonconcurrent with a s to bearing plate capable of withstand B International Residential Code section ' structural wood sheathing be applied the size or the orientation of the purlin a	31"x3") nails spaced 9" of pint 6, nail 2 row(s) at 2" .2psf; h=15ft; Cat. II; Ex -5-11 to 20-1-2, Exterio nd right exposed;C-C fo any other live loads. ding 255 lb uplift at joint ons R502.11.1 and R80 d directly to the top chor long the top and/or bott	D.c.except : startin 'o.c. for 4-7-15. :p C; Enclosed; r(2R) 20-1-2 to 24 r members and fo : 17 and 182 lb upl 12.10.2 and referen rd and 1/2" gypsun com chord.	g at I-9-10 rces lift at nced	AND STATE OF AND THO JOHN PE-2017 Novemb	MISSOLA REW MAS SDN HER 7018993 SDN HER 701895 SDN HER 701895 SDN HER 70180 SDN HER 70180 SDN HER 70180 SDN HER 70180 SDN HER 70180 SDN HER 70180 SDN HER 70180 SDN HER 70180 SDN HER 700 SDN 70 SDN 70 SDN 700 SDN 70 SDN 700 SDN 70 S
LOAD CASE(S) vStar Design valid for use on a truss system. Before building design. Braci is always required for fabrication, storage, d Safety Information a	begin parameters and READ NOTES O nly with MITek® connectors. This desig use, the building designer must verify ng indicated is to prevent buckling of in stability and to prevent collapse with pc elivery, erection and bracing of trusses available from Truss Plate Institute, 267	N THIS AND INCLUDED MITEK REFERENCE P n is based only upon parameters shown, and is the applicability of design parameters and prope dividual truss web and/or chord members only. ussible personal injury and property damage. For and truss systems, see <u>ANS/TPI QU</u> O Crain Highway, Suite 203 Waldorf, MD 20601	AGE MII-7473 rev. 5/19/2020 E for an individual building com erly incorporate this design inth Additional temporary and per or general guidance regarding ality Criteria, DSB-89 and Bu	SEFORE USE. ponent, not o the overall manent bracing the CSI Building Compon	ient	Mitek* 16023 Swingley Chesterfield, Mi	Ridge Rd 2 63017

Starting of the starting of the starting and the prevent conlapse from the possible personal input and poperty damage. To general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Scale = 1:58.0



BOT CHORD BOT CHORD 2x4 SPF No.2 *Except* Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 10-17: 2x6 SPF 2100F 1.8E 8-8-3 oc bracing: 20-21 WEBS 2x4 SPF No.2 8-8-1 oc bracing: 17-20 OTHERS 2x6 SP 2400F 2.0E LBR SCAB 8-12 2x6 SP 2400F 2.0E both sides WEDGE Right: 2x4 SPF No.2 REACTIONS. (size) 25=0-3-8, 11=0-3-8 Max Horz 25=-179(LC 6) Max Uplift 25=-1008(LC 4), 11=-786(LC 9) Max Grav 25=2907(LC 1), 11=2878(LC 1) FORCES. (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) or less except when shown. TOP CHORD 1-25=-2812/1004, 1-35=-2228/807, 35-36=-2228/807, 2-36=-2228/807, 2-37=-4783/1655, 37-38=-4783/1655, 3-38=-4783/1655, 3-39=-6312/2153, 39-40=-6312/2153, 4-40=-6312/2153, 4-41=-6312/2153, 5-41=-6312/2153, 5-42=-6312/2153, 6-42=-6312/2153, 6-43=-6747/2217, 43-44=-6747/2217, 7-44=-6747/2217, 7-45=-6168/1980, 8-45=-6168/1980, 8-34=-6553/2092, 34-46=-6581/2083, 9-46=-6635/2082, 9-47=-8981/2656, 10-47=-9063/2661, 10-11=-1049/324 BOT CHORD 3-22=-1660/623, 22-52=-1548/4843, 52-53=-1548/4842, 21-53=-1547/4841, 21-54=-2207/6943, 54-55=-2207/6943, 20-55=-2207/6943, 20-56=-2207/6943, 56-57=-2207/6943, 17-57=-2207/6943, 17-59=-2063/6658, 16-59=-2063/6658, 15-16=-2084/6736, 15-60=-2455/8622, 14-60=-2455/8622, 14-61=-2455/8622, 10-61=-2455/8622

WEBS 1-24=-1176/3401 2-24=-3018/1094 22-24=-652/2132 2-22=-1187/3576 3-21=-648/1911 4-21=-431/195, 6-21=-832/287, 6-20=-59/294, 6-17=-296/156, 8-15=-593/2098, 9-15=-2762/724, 9-14=-191/908, 7-15=-829/381

NOTES-

1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:

Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc, 2x6 - 2 rows staggered at 0-9-0 oc. Bottom chords connected as follows: 2x4 - 1 row at 0-9-0 oc, 2x6 - 2 rows staggered at 0-9-0 oc. Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.

2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.

3) Attached 12-2-4 scab 8 to 12, both face(s) 2x6 SP 2400F 2.0E with 2 row(s) of 10d (0.148"x3") nails spaced 9" o.c.except : starting at 5-5-9 from end at joint 8, nail 3 row(s) at 4" o.c. for 6-7-0.

tinued on page 2





						RELEASE FOR CONSTRUCTION
Job	Truss	Truss Type	Qty	Ply	Summit/5 Cobey Creek	AS NOTED FOR PLAN REVIEW
2975764	C13	HALF HIP GIRDER	1	2		DEVELOPMENT SERVIKSES1059
				Z	Job Reference (optional)	LEE'S SUMMIT, MISSOURI
Builders First Source,	Valley Center, KS 67147				8.430 s Oct 22 2021 MiTek Indu	stries, Inc., Mon Nov. 8 07:25:34 2021. Page 2
			ID:3GmZIGCHwWZGA	RvEUeXV	yXyPZ34-QpGuaJbXyKp7B	xVj_i4mmMEr6zmd/pgcmDUHKy_JS
NOTES-						

NOTES-

- 4) 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
- cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 5) Provide adequate drainage to prevent water ponding.
- 6) All plates are 2x4 MT20 unless otherwise indicated.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- a) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1008 lb uplift at joint 25 and 786 lb uplift at joint 11.
 b) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

11) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 137 lb down and 115 lb up at 1-0-12, 137 lb down and 117 lb up at 3-0-12, 137 lb down and 117 lb up at 5-0-12, 137 lb down and 117 lb up at 7-0-12, 115 lb down and 82 lb up at 9-0-12, 115 lb down and 78 lb up at 11-0-12, 115 lb down and 82 lb up at 13-0-12, 115 lb down and 82 lb up at 15-0-12, 115 lb down and 82 lb up at 17-0-12, 115 lb down and 82 lb up at 19-0-12, 137 lb down and 117 lb up at 21-0-12, 162 lb down and 130 lb up at 23-1-2, 9 lb down and 22 lb up at 25-0-12, 24 lb down and 39 lb up at 27-0-12, and 144 lb down and 77 lb up at 29-0-12, and 96 lb down and 68 lb up at 31-0-12 on top chord, and 67 lb down and 21 lb up at 1-0-12, 65 lb down and 22 lb up at 3-0-12, 65 lb down and 22 lb up at 5-0-12, 65 lb down and 22 lb up at 7-0-12, 91 lb down and 57 lb up at 9-0-12, 91 lb down and 57 lb up at 11-0-12, 91 lb down and 57 lb up at 13-0-12, 91 lb down and 57 lb up at 15-0-12, 91 lb down and 57 lb up at 17-0-12, 91 lb down and 57 lb up at 19-0-12, 65 lb down and 22 lb up at 21-0-12, 43 lb down at 23-0-12, 200 lb down and 84 lb up at 25-0-12, 157 Ib down and 49 lb up at 27-0-12, and 43 lb down at 29-0-12, and 98 lb down at 31-0-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-8=-70, 8-12=-70, 23-25=-20, 17-22=-20, 18-19=-20, 16-28=-20, 13-31=-20

Concentrated Loads (lb) Vert: 8=-146(B) 10=-96(B) 15=-22(B) 9=-16(B) 14=-157(B) 28=-85(B) 35=-118(B) 36=-115(B) 37=-115(B) 38=-115(B) 39=-74(B) 40=-74(B) 41=-74(B) 42=-74(B) 42=-74

43=-74(B) 44=-74(B) 45=-115(B) 47=-144(B) 48=-59(B) 49=-58(B) 50=-58(B) 51=-58(B) 52=-91(B) 53=-91(B) 53=-91(B) 55=-91(B) 55=-91(B) 56=-91(B) 56=-91(B) 55=-91(B) 55=-60=-200(B) 61=-22(B)





TOP CHORD

BOT CHORD

LUMBER-

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

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

Max Horz 2=54(LC 12)

Max Uplift 3=-28(LC 12), 2=-60(LC 8)

Max Grav 3=61(LC 1), 2=242(LC 1), 4=41(LC 3)

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

NOTES-

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

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

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



Structural wood sheathing directly applied or 2-6-0 oc purlins.

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





								1-7-14				
LOADING	(psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.25	Vert(LL)	0.00	5	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.07	Vert(CT)	0.00	5	>999	180		
BCLL	0.0	Rep Stress Incr	NO	WB	0.00	Horz(CT)	-0.00	3	n/a	n/a		
BCDL	10.0	Code IRC2018/TF	912014	Matri	x-MR						Weight: 7 lb	FT = 20%

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

Structural wood sheathing directly applied or 1-8-8 oc purlins, except end verticals. Bioid ceiling directly applied or 10-0-0 oc bracing

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

REACTIONS. (size) 3=Mechanical, 4=Mechanical, 5=0-5-6 Max Horz 5=42(LC 8) Max Uplift 3=-11(LC 12), 4=-5(LC 1), 5=-102(LC 8)

Max Grav 3=4(LC 22), 4=23(LC 3), 5=268(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 and C-C Corner(3) zone; cantilever left and right exposed; end vertical left and right
- exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

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

4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 4 except (jt=lb) 5=102.

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.







								1-7-5				
	(psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	тс	0.23	Vert(LL)	0.00	5	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.07	Vert(CT)	0.00	5	>999	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.00	3	n/a	n/a		
BCDL	10.0	Code IRC2018/TF	PI2014	Matri	x-MR						Weight: 6 lb	FT = 20%

LUMBER-

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

BOT CHORD

Structural wood sheathing directly applied or 1-7-15 oc purlins, except end verticals. Rigid ceiling directly applied or 10-0-0 oc bracing.

Max Grav 3=4(LC 8), 4=21(LC 3), 5=278(LC 1)

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

NOTES-

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

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

Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 4 except (jt=lb) 5=108.

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





REACTIONS. (size) 3=Mechanical, 4=Mechanical, 5=0-5-6 Max Horz 5=42(LC 8) Max Uplift 3=-9(LC 9), 4=-8(LC 1), 5=-108(LC 8)



				1-1-5
LOADING	í (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d PLATES GRIP
TCLL	25.0	Plate Grip DOL 1.15	TC 0.20	Vert(LL) 0.00 5 >999 240 MT20 197/144
TCDL	10.0	Lumber DOL 1.15	BC 0.05	Vert(CT) 0.00 5 >999 180
BCLL	0.0	Rep Stress Incr NO	WB 0.00	Horz(CT) -0.00 3 n/a n/a
BCDL	10.0	Code IRC2018/TPI2014	Matrix-MR	Weight: 6 lb FT = 20%

LUMBER-

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

BRACING-TOP CHORD

BOT CHORD

Structural wood sheathing directly applied or 1-7-11 oc purlins, except end verticals. Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. 5=0-4-13, 3=Mechanical, 4=Mechanical (size) Max Horz 5=39(LC 9) Max Uplift 5=-66(LC 8), 3=-14(LC 12), 4=-2(LC 1)

Max Grav 5=240(LC 1), 3=8(LC 1), 4=23(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 Corner(3) zone; cantilever left and right exposed ; end vertical left and right
- exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

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

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









	2-2-7	1	6-0-0	1		9-9-9	9		12-0-0	1
	2-2-7		3-9-9	I		3-9-9	9		2-2-7	
Plate Offsets (X,Y)	[2:0-1-8,0-0-1], [3:0-1-9	,Edge], [5:0-1-9	,Edge], [6:0-1-8,0-2-1]							
LOADING (psf) TCLL 25.0 TCDL 10.0 PCLL 0.0	SPACING- Plate Grip DOL Lumber DOL Ron Stross Incr	2-0-0 1.15 1.15 NO	CSI. TC 0.40 BC 0.33	DEFL. Vert(LL) Vert(CT)	in -0.03 -0.05	(loc) 9 8-9	l/defl >999 >999	L/d 240 180	PLATES MT20	GRIP 197/144
BCDL 10.0	Code IRC2018/	TPI2014	Matrix-MS	1012(01)	0.01	0	n/a	n/a	Weight: 55 lb	FT = 20%
LUMBER- TOP CHORD 2x4 BOT CHORD 2x4	4 SPF No.2 4 SPF No.2		-	BRACING- TOP CHOR	D	Structu	ral wood	sheathing di	rectly applied or 5-2-3	oc purlins, except

BOT CHORD Rigid ceiling directly a

2-0-0 oc purlins (5-3-12 max.): 3-5. Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 2=0-3-8, 6=0-3-8 Max Horz 2=39(LC 7) Max Uplift 2=-183(LC 8), 6=-183(LC 9) Max Grav 2=872(LC 1), 6=872(LC 1)

2x4 SPF No.2

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

Left 2x6 SPF No.2 2-5-0, Right 2x6 SPF No.2 2-5-0

TOP CHORD 2-3=-1290/263, 3-4=-1112/249, 4-5=-1112/245, 5-6=-1290/258

BOT CHORD 2-10=-102/371, 9-10=-161/830, 8-9=-161/830, 6-8=-83/371

WEBS 3-10=-55/377, 4-10=-532/114, 4-8=-532/112, 5-8=-55/377

NOTES-

WEBS

SLIDER

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

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

3) Provide adequate drainage to prevent water ponding.

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

5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=183, 6=183.

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

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

8) "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

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

Vert: 1-3=-70, 3-5=-70, 5-7=-70, 11-15=-20

Concentrated Loads (lb)

Vert: 10=-142(F) 9=-36(F) 8=-142(F) 4=-50(F) 19=-50(F) 20=-50(F) 21=-36(F) 22=-36(F)






LUMBER-
TOP CHORD

10.0

BCDL

TOP CHORD	2x4 SPF No.2
BOT CHORD	2x4 SPF No.2
WEBS	2x4 SPF No.2
SLIDER	Left 2x6 SPF No.2 2-6-0. Right 2x6 SPF No.2 2-6-0

 BRACING

 TOP CHORD
 Structural wood sheathing directly applied, except 2-0-0 oc purlins (6-0-0 max.): 4-5.

 BOT CHORD
 Rigid ceiling directly applied.

REACTIONS. (size) 2=0-3-8, 7=0-3-8 Max Horz 2=66(LC 11) Max Uplift 2=-86(LC 12), 7=-86(LC 13) Max Grav 2=601(LC 1), 7=601(LC 1)

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

Code IRC2018/TPI2014

TOP CHORD 2-4=-626/144, 4-5=-505/146, 5-7=-626/141

BOT CHORD 2-10=-64/509, 9-10=-66/505, 7-9=-44/509

NOTES-

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

2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 3-5-7, Exterior(2R) 3-5-7 to 7-8-6, Interior(1) 7-8-6 to 8-6-9, Exterior(2E) 8-6-9 to 12-10-8 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

Matrix-AS

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) 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.

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



FT = 20%

Weight: 53 lb

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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 4-8-7, Exterior(2E) 4-8-7 to 7-3-9, Exterior(2R) 7-3-9 to 11-5-14, Interior(1) 11-5-14 to 12-10-8 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) 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) 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.

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



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- Interior(1) 9-0-0 to 12-10-8 zone; cantilever left and right exposed ; end vertical left and rig MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 6.
- 5) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 6) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.







BOT CHORD

2-0-0 oc purlins (6-0-0 max.): 5-14.

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

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

REACTIONS. All bearings 33-0-8.

(lb) - Max Horz 1=-162(LC 8)

Max Uplift All uplift 100 lb or less at joint(s) 1, 19, 27, 28, 30, 31, 32, 33, 34, 26, 25, 24, 23, 22, 21, 20 except 35=-120(LC 12)

Max Grav All reactions 250 lb or less at joint(s) 1, 19, 27, 28, 30, 31, 32, 33, 34, 26, 25, 24, 23, 22, 21, 20 except 35=254(LC 19)

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

NOTES-

2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-4-9 to 3-8-2, Interior(1) 3-8-2 to 7-11-14, Exterior(2R) 7-11-14 to 12-10-12, Interior(1) 12-10-12 to 23-5-7, Exterior(2R) 23-5-7 to 28-1-7, Interior(1) 28-1-7 to 32-7-4 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) All plates are 2x4 MT20 unless otherwise indicated.
- 5) Gable requires continuous bottom chord bearing.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 19, 27, 28, 30, 31, 32, 33, 34, 26, 25, 24, 23, 22, 21, 20 except (jt=lb) 35=120.

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

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



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



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 15-5-5.

(lb) - Max Horz 1=-141(LC 8)

Max Uplift All uplift 100 lb or less at joint(s) 1, 8, 13, 11, 10, 9 except 14=-127(LC 12)

Max Grav All reactions 250 lb or less at joint(s) 1, 8, 12, 13, 11, 10, 9 except 14=262(LC 19)

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) 0-4-9 to 3-4-9, Interior(1) 3-4-9 to 7-0-4, Exterior(2R) 7-0-4 to 10-0-4, Interior(1) 10-0-4 to 15-0-1 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 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, 8, 13, 11, 10, 9 except (jt=lb) 14=127.

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.







LOADING (psf) TCLL 25.0 TCDL 10.0 BCLL 0.0 BCDL 10.0	SPACING-2-0-0Plate Grip DOL1.15Lumber DOL1.15Rep Stress IncrYESCode IRC2018/TPI2014	CSI. TC 0.06 BC 0.04 WB 0.13 Matrix-S	DEFL. in (loc) I/defl L/ Vert(LL) n/a - n/a 99 Vert(CT) n/a - n/a 99 Horz(CT) 0.00 8 n/a n/	d PLATES GRIP 9 MT20 197/144 9 a Weight: 60 lb FT = 20%
LUMBER- TOP CHORD 2x4 S BOT CHORD 2x4 S	PF No.2 PF No.2		BRACING- TOP CHORD Structural wood shea except end verticals.	thing directly applied or 6-0-0 oc purlins,

 RD
 2x4 SPF No.2
 except end verticals.

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

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

REACTIONS. All bearings 13-4-13.

(lb) - Max Horz 15=-168(LC 8)

Max Uplift All uplift 100 lb or less at joint(s) 15, 8, 12, 13, 11, 10, 9 except 14=-103(LC 12) Max Grav All reactions 250 lb or less at joint(s) 15, 8, 12, 13, 14, 11, 10, 9

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

NOTES-

WEBS

OTHERS

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

- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-1-12 to 2-11-1, Interior(1) 2-11-1 to 4-9-5, Exterior(2R) 4-9-5 to 7-9-5, Interior(1) 7-9-5 to 12-11-9 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) All plates are 2x4 MT20 unless otherwise indicated.

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) 15, 8, 12, 13, 11, 10, 9 except (it=lb) 14=103.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.







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Max Uplift All uplift 100 lb or less at joint(s) 5 except 1=-109(LC 10), 8=-274(LC 12), 6=-274(LC 13) Max Grav All reactions 250 lb or less at joint(s) 1, 5, 7 except 8=276(LC 19), 6=275(LC 20)

- FORCES. (lb) Max. Comp./Max. Ten. All forces 250 (lb) or less except when shown.
- 2-8=-331/348, 4-6=-331/348 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 Corner(3) 0-3-0 to 3-3-0, Exterior(2) 3-3-0 to 4-1-10, Corner(3) 4-1-10 to 7-1-10 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

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 except (it=lb) 1=109 8=274 6=274
- 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. All bearings 9-3-5. (lb) - Max Horz 1=-90(LC 8)

Max Uplift All uplift 100 lb or less at joint(s) 1 except 8=-118(LC 12), 6=-118(LC 13) Max Grav All reactions 250 lb or less at joint(s) 1, 5, 7, 8, 6

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

NOTES-

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

2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-4-9 to 3-4-9, Interior(1) 3-4-9 to 4-7-10, Exterior(2R) 4-7-10 to 7-7-10, Interior(1) 7-7-10 to 8-10-12 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

3) 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=118, 6=118.
- 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.







BRACING-

TOP CHORD

BOT CHORD

 IM	IR	F	P _	

BCDL

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

10.0

REACTIONS.

(size) 2=0-3-8, 5=Mechanical Max Horz 2=47(LC 7)

Max Uplift 2=-45(LC 8), 5=-36(LC 5) Max Grav 2=246(LC 1), 5=172(LC 1)

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

Code IRC2018/TPI2014

NOTES-

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

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

Matrix-MP

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, 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.

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

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-3=-70, 3-4=-70, 5-6=-20 Concentrated Loads (lb) Vert: 9=-2(F) 10=2(F) 11=-11(F)



FT = 20%

Weight: 15 lb

Structural wood sheathing directly applied or 4-0-0 oc purlins,

except end verticals, and 2-0-0 oc purlins: 3-4.

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





TOP CHORD

BOT CHORD

Structural wood sheathing directly applied, except

2-0-0 oc purlins: 3-4.

Rigid ceiling directly applied.

LUMBER-

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

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

Max Horz 2=90(LC 12) Max Uplift 4=-11(LC 8), 2=-28(LC 12), 5=-35(LC 12)

Max Grav 4=30(LC 1), 2=245(LC 1), 5=140(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) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 3-0-15, Exterior(2E) 3-0-15 to 3-11-4 zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

3) Provide adequate drainage to prevent water ponding.

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

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

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

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

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

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



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LOADING	(psf)	SPACING- 2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL 1.15	TC 0.20	Vert(LL)	-0.01	4-7	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL 1.15	BC 0.13	Vert(CT)	-0.02	4-7	>999	180		
BCLL	0.0	Rep Stress Incr YES	WB 0.00	Horz(CT)	0.00	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 SP No.3

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

Max Horz 2=114(LC 12) Max Uplift 3=-69(LC 12), 2=-14(LC 12)

Max Grav 3=124(LC 19), 2=245(LC 1), 4=73(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 3-11-4 zone; cantilever left and right exposed; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate

grip DOL=1.60 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

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

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

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

referenced standard ANSI/TPI 1.

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.







			2-5-4	
LOADING (psf) TCLL 25.0 TCDI 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15	CSI. TC 0.06 BC 0.04	DEFL. in (loc) I/defl L/d Vert(LL) -0.00 7 >999 240 Vert(CT) -0.00 4-7 >999 180	PLATES GRIP MT20 197/144
BCLL 0.0 BCDL 10.0	Rep Stress Incr YES Code IRC2018/TPI2014	WB 0.00 Matrix-MP	Horz(CT) 0.00 3 n/a n/a	Weight: 7 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

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

Max Horz 2=57(LC 12)

Max Uplift 3=-29(LC 12), 2=-28(LC 12)

Max Grav 3=65(LC 1), 2=179(LC 1), 4=42(LC 3)

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

NOTES-

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

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

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



Structural wood sheathing directly applied or 2-5-4 oc purlins.

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





LOADING	i (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d PLATES GRIP
TCLL	25.0	Plate Grip DOL 1.15	TC 0.47	Vert(LL) 0.08 5-8 >849 240 MT20 197/144
TCDL	10.0	Lumber DOL 1.15	BC 0.35	Vert(CT) -0.13 5-8 >551 180
BCLL	0.0	Rep Stress Incr YES	WB 0.00	Horz(CT) 0.04 2 n/a n/a
BCDL	10.0	Code IRC2018/TPI2014	Matrix-AS	Weight: 21 lb FT = 20%

 TOP CHORD
 2x4 SPF No.2

 BOT CHORD
 2x4 SPF No.2

 SLIDER
 Left 2x6 SPF No.2 2-6-0

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=163(LC 12) Max Uplift 4=-107(LC 12), 2=-4(LC 12), 5=-2(LC 12)

Max Grav 4=192(LC 19), 2=333(LC 1), 5=105(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-4=-319/89

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 5-11-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

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

- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 5 except (jt=lb) 4=107.
- 5) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 6) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.







TOP CHORD 2x4 SPF No 2 BOT CHORD WEBS

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

BRACING-TOP CHORD BOT CHORD

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

REACTIONS. 4=Mechanical, 5=Mechanical, 8=0-3-8 (size) Max Horz 8=155(LC 12) Max Uplift 4=-72(LC 12), 5=-37(LC 12), 8=-5(LC 12) Max Grav 4=149(LC 19), 5=117(LC 19), 8=338(LC 1)

FORCES. (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) or less except when shown. TOP CHORD 2-8=-305/95

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 5-11-4 zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

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

- 3) Refer to girder(s) for truss to truss connections.
- 4) Bearing at joint(s) 8 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) 4, 5, 8.

- 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.







LOADING	(psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d	PLATES GRIP
TCLL	25.0	Plate Grip DOL 1.15	TC 0.65	Vert(LL) 0.18 7 >388 240	MT20 197/144
TCDL	10.0	Lumber DOL 1.15	BC 0.12	Vert(CT) -0.24 7 >291 180	MT20HS 148/108
BCLL	0.0	Rep Stress Incr YES	WB 0.00	Horz(CT) 0.28 6 n/a n/a	
BCDL	10.0	Code IRC2018/TPI2014	Matrix-AS		Weight: 27 lb FT = 20%

 TOP CHORD
 2x4 SPF No.2

 BOT CHORD
 2x4 SPF No.2

 WEBS
 2x4 SPF No.2

 SLIDER
 Left 2x6 SPF No.2 2-6-4

BRACING-TOP CHORD BOT CHORD

Structural wood sheathing directly applied. Rigid ceiling directly applied.

REACTIONS. (size) 2=0-3-8, 6=Mechanical, 4=Mechanical Max Horz 2=158(LC 12) Max Uplift 2=-4(LC 12), 4=-120(LC 12) Max Grav 2=323(LC 1), 6=83(LC 3), 4=226(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 3-9=-559/367

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 2-1-12, Interior(1) 2-1-12 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) 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) 2 except (jt=lb) 4=120.
- 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) Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.







BRACING-

TOP CHORD

BOT CHORD

Structural wood sheathing directly applied, except

2-0-0 oc purlins: 4-5.

Rigid ceiling directly applied.

н	111	MB	E	D_

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

SLIDER Left 2x6 SPF No.2 2-6-4 REACTIONS.

(size) 5=Mechanical, 2=0-3-8, 6=Mechanical Max Horz 2=130(LC 12) Max Uplift 5=-15(LC 8), 2=-25(LC 12), 6=-64(LC 12) Max Grav 5=42(LC 1), 2=333(LC 1), 6=220(LC 1)

FORCES. (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) or less except when shown. TOP CHORD 3-10=-577/392

WEBS 4-7=-278/203

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 4-8-12, Exterior(2E) 4-8-12 to 5-11-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

Matrix-AS

3) Provide adequate drainage to prevent water ponding.

4) All plates are MT20 plates unless otherwise indicated

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

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

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

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

referenced standard ANSI/TPI 1.

9) 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.

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







WFBS 4-7=-416/262

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 3-5-12, Exterior(2E) 3-5-12 to 5-11-4 zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

3) Provide adequate drainage to prevent water ponding.

4) All plates are MT20 plates unless otherwise indicated

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

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

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

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

referenced standard ANSI/TPI 1.

9) 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.

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



November 8,2021

MITEK 16023 Swingley Ridge Rd Chesterfield, MO 63017





November 8,2021

MiTek 16023 Swingley Ridge Rd Chesterfield, MO 63017

						RELEASE FOR CONSTRUCTION
Job Truss	s T	russ Type	Qty	Ply	Summit/5 Cobey Creek	AS NOTED FOR PLAN REVIEW
						DEVELOPMENT SERVICES
2975764 M11	Ji	ack-Open Girder	1	1	Job Reference (optional)	LEE'S SUMMIT, MISSOURI
Builders FirstSource (Valley Center	er), Valley Center, KS	- 67147,	8.	430 s Aug	16 2021 MiTek Industries, In	Thu Nov 418,0040-2021 Rags 1
ID:3GmZIGCHwWZGARvEUeXVyXyPZ34-WBeibdct12ZA2					PZ34-WBeibdct12ZA2vRCrs	ZQqoUnDCInnWMQhBIQQyMVPb
-0-10-8	3 0-11-12	-	6-0-	0		
0-10-8	0-11-12	1	5-0-	-4		

Scale = 1:13.8



	L	3-0-0	i.	6-0-0	
		3-0-0		3-0-0	
Plate Offsets (X,Y)	[2:0-3-4,0-0-1], [3:0-4-0,0-2-10], [4:0-3-	0,0-0-8]			
LOADING (psf) TCLL 25.0 TCDL 10.0 BCLL 0.0 BCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr NO Code IRC2018/TPI2014	CSI. TC 0.49 BC 0.27 WB 0.11 Matrix-MP	DEFL. in Vert(LL) -0.02 Vert(CT) -0.04 Horz(CT) 0.00	n (loc) l/defl L/d 2 6-9 >999 240 4 6-9 >999 180 0 4 n/a n/a	PLATES GRIP MT20 197/144 Weight: 24 lb FT = 20%
LUMBER- TOP CHORD 2x4 S BOT CHORD 2x4 S WEBS 2x4 S	PF No.2 PF No.2 PF No.2		BRACING- TOP CHORD BOT CHORD	Structural wood sheathing dire 2-0-0 oc purlins (6-0-0 max.): 3 Rigid ceiling directly applied or	ctly applied or 6-0-0 oc purlins, except J-4. 10-0-0 oc bracing.

SLIDER Left 2x6 SPF No.2 1-3-9 **REACTIONS.** (size) 2=0-3-8, 4=Mechanical, 6=Mechanical Max Horz 2=38(LC 8)

Max Uplift 2=-69(LC 8), 4=-58(LC 4) Max Grav 2=333(LC 1), 4=166(LC 1), 6=138(LC 3)

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

TOP CHORD 2-3=-268/51 BOT CHORD 2-6=-53/256 WEBS 3-6=-261/54

NOTES-

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

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

- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 4.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 9) Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.
- 10) "NAILED" indicates 3-10d (0.148"x3") or 2-12d (0.148"x3.25") toe-nails per NDS guidlines.
- 11) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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

Vert: 1-3=-70, 3-4=-70, 5-7=-20 Concentrated Loads (lb) Vert: 14=-11(B) 15=-11(B)



16023 Swingley Ridge Rd Chesterfield, MO 63017



	G (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d PLATES GRIP	
TCLL	25.0 10.0	Lumber DOL 1.15	BC 0.02	Vert(LL) -0.00 7 >999 240 MT20 197/144 Vert(CT) -0.00 7 >999 180	
BCLL BCDL	0.0 10.0	Rep Stress Incr YES Code IRC2018/TPI2014	WB 0.00 Matrix-MP	Horz(CT) 0.00 3 n/a n/a Weight: 8 lb FT = 20%	

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

TOP CHORD BOT CHORD

BRACING-

Structural wood sheathing directly applied or 2-2-0 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=44(LC 12) Max Uplift 3=-22(LC 12), 2=-27(LC 12), 4=-1(LC 12) Max Grav 3=51(LC 1), 2=169(LC 1), 4=42(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) 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.







LOADING TCLL TCDL BCLL BCDL	(psf) 25.0 10.0 0.0 10.0	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr Code IRC2018/TP	2-0-0 1.15 1.15 NO 12014	CSI. TC 0 BC 0 WB 0 Matrix-N	0.06 0.05 0.00 MP	DEFL. Vert(LL) Vert(CT) Horz(CT)	in 0.00 -0.00 -0.00	(loc) 8 8 4	l/defl >999 >999 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 8 lb	GRIP 197/144 FT = 20%
LUMBER-TOP CHORD2x4 SPF No.2BOT CHORD2x4 SPF No.2SLIDERLeft 2x6 SPF No.2 1-3-3				BRACING- TOP CHOR BOT CHOR	RD RD	Structu except 2-0-0 o Rigid c	ral wood c purlins: eiling dire	sheathing dir 3-4. ectly applied o	rectly applied or 1-11 or 10-0-0 oc bracing.	-4 oc purlins,		

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

Max Horz 2=37(LC 8)

Max Uplift 4=-12(LC 4), 2=-29(LC 8), 5=-12(LC 17)

Max Grav 4=34(LC 1), 2=151(LC 1), 5=34(LC 3)

 $\label{eq:FORCES.} {\ \ } (lb) \ - \ Max. \ Comp./Max. \ Ten. \ - \ All \ forces \ 250 \ (lb) \ or \ less \ except \ when \ shown.$

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; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60

3) Provide adequate drainage to prevent water ponding.

- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 2, 5.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 9) "NAILED" indicates 3-10d (0.148"x3") or 2-12d (0.148"x3.25") toe-nails per NDS guidlines.
- 10) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
 - Uniform Loads (plf) Vert: 1-3=-70, 3-4=-70, 5-6=-20

Concentrated Loads (lb) Vert: 3=22(F)







		<u>1-11-1</u> 1-11-1		3-8	I-6 I-6	+ 4-1-8 	
LOADING (psf) TCLL 25.0 TCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15	CSI. TC 0.23 BC 0.26	DEFL. Vert(LL) Vert(CT)	in (loc) -0.02 6-9 -0.04 6-9	l/defl L/d >999 240 >999 180	PLATES MT20	GRIP 197/144
BCLL 0.0 BCDL 10.0	Rep Stress Incr NO Code IRC2018/TPI2014	WB 0.02 Matrix-MP	Horz(CT)	0.02 4	n/a n/a	Weight: 14 lb	FT = 20%

TOP CHORD 2x4 SPF No.2 BOT CHORD 2x4 SPF No.2 WEBS 2x4 SPF No.2 WEDGE Loft: 2x4 SPE No.2 BRACING-TOP CHORD

BOT CHORD

Structural wood sheathing directly applied or 4-1-8 oc purlins, except 2-0-0 oc purlins: 3-4. Rigid ceiling directly applied or 6-0-0 oc bracing.

Left: 2x4 SPF No.2

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

Max Horz 2=64(LC 8) Max Uplift 4=-5(LC 4), 2=-46(LC 8), 5=-47(LC 8) Max Grav 4=13(LC 1), 2=257(LC 1), 5=171(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; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 2, 5.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 9) "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidlines.
- 10) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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

Vert: 1-3=-70, 3-4=-70, 5-7=-20

- Concentrated Loads (lb)
 - Vert: 11=-14(B)



November 8,202





		4-1-8	
LOADING (psf) SPACING- 2-0-0 TCLL 25.0 Plate Grip DOL 1.15 TCDL 10.0 Lumber DOL 1.15 BCLL 0.0 Rep Stress Incr YES BCDL 10.0 Code IRC2018/TPI2014	CSI. TC 0.20 BC 0.17 WB 0.00 Matrix-AS	DEFL. in (loc) l/defl L/ Vert(LL) 0.02 4-7 >999 24 Vert(CT) -0.03 4-7 >999 18 Horz(CT) 0.01 2 n/a n/	d PLATES GRIP 0 MT20 197/144 0 a 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=73(LC 12) Max Uplift 3=-50(LC 12), 2=-34(LC 12) Max Grav 3=120(LC 1), 2=251(LC 1), 4=73(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 4-0-12 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) 3, 2.
- 5) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and
- I his truss is designed in accordance with the 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.







		•	6-0-0
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d PLATES GRIP Vert(LL) -0.04 4-5 >999 240 MT20 197/144
TCLL 25.0	Plate Grip DOL 1.15	TC 0.35	
TCDL 10.0	Lumber DOL 1.15	BC 0.28	Vert(CT) -0.07 4-5 >919 180
BCLL 0.0	Rep Stress Incr YES	WB 0.00	Horz(CT) 0.00 4 n/a n/a
BCDL 10.0	Code IRC2018/TPI2014	Matrix-AS	Weight: 22 lb FT = 20%

BRACING-TOP CHORD

BOT CHORD

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LUMBER-
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TOP CHORD BOT CHORD WEBS

2x4 SPF No 2 2x4 SPF No.2

2x4 SPF No.2

REACTIONS. 4=5-8-8, 4=5-8-8, 5=5-8-8 (size) Max Horz 5=168(LC 11) Max Uplift 4=-76(LC 12), 5=-36(LC 12) Max Grav 4=273(LC 19), 4=250(LC 1), 5=335(LC 1)

FORCES. (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) or less except when shown. TOP CHORD 2-5=-296/182

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 5-10-4 zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) Bearing at joint(s) 5 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 5.
- 5) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 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.





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

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-4-12, Interior(1) 2-4-12 to 5-10-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Bearing at joint(s) 7 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 4, 7.
- 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.







LOADING	(psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d	PLATES GRIP
TCLL	25.0	Plate Grip DOL 1.15	TC 0.40	Vert(LL) 0.11 6-7 >655 240	MT20 197/144
TCDL	10.0	Lumber DOL 1.15	BC 0.38	Vert(CT) -0.14 6-7 >493 180	
BCLL	0.0	Rep Stress Incr YES	WB 0.02	Horz(CT) 0.05 4 n/a n/a	
BCDL	10.0	Code IRC2018/TPI2014	Matrix-AS		Weight: 20 lb FT = 20%

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

BRACING-TOP CHORD BOT CHORD

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

REACTIONS. (size) 4=Mechanical, 5=Mechanical, 7=0-3-8

Max Horz 7=154(LC 12) Max Uplift 4=-62(LC 12), 5=-48(LC 12), 7=-5(LC 12)

Max Grav 4=143(LC 19), 5=122(LC 19), 7=338(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-7=-262/73

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 5-11-4 zone; cantilever left and right exposed; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

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

- 4) Bearing at joint(s) 7 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Frovide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 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.
- 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.







BRACING-

TOP CHORD

BOT CHORD

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BCDL

WEBS

LUMBER-

TOP CHORD

BOT CHORD

REACTIONS.

10.0

2x4 SPF No.2

2x4 SPF No.2

2x4 SPF No.2

2-7=-263/73

Max Horz 7=154(LC 12)

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 5-11-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

Matrix-AS

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

Code IRC2018/TPI2014

(size) 4=Mechanical, 5=Mechanical, 7=0-3-8

Max Uplift 4=-60(LC 12), 5=-49(LC 12), 7=-5(LC 12) Max Grav 4=142(LC 19), 5=123(LC 19), 7=338(LC 1) FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

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

- Bearing at joint(s) 7 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Frovide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 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.
- 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.



FT = 20%

Weight: 20 lb

Structural wood sheathing directly applied, except end verticals.

Rigid ceiling directly applied.





BRACING-

TOP CHORD

BOT CHORD

Structural wood sheathing directly applied, except

2-0-0 oc purlins: 4-5.

Rigid ceiling directly applied.

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 TOP CHORD
 2x4 SPF No.2

 BOT CHORD
 2x4 SPF No.2

 WEBS
 2x4 SPF No.2

 SLIDER
 Left 2x6 SPF No.2 2-6-0

REACTIONS. (size) 5=Mechanical, 2=0-3-8, 6=Mechanical Max Horz 2=150(LC 12) Max Uplift 5=-5(LC 8), 2=-13(LC 12), 6=-92(LC 12)

Max Grav 5=13(LC 1), 2=333(LC 1), 6=253(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-4=-346/95

NOTES-

- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 5-6-12, Exterior(2E) 5-6-12 to 5-11-4 zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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) Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 2, 6.
- 8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 9) 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.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.





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



 TOP CHORD
 2x4 SPF No.2

 BOT CHORD
 2x4 SPF No.2

 WEBS
 2x4 SPF No.2

 SLIDER
 Left 2x6 SPF No.2 2-6-0

 TOP CHORD
 Structural wood sheathing direct

 2-0-0 oc purlins: 4-5.
 BOT CHORD

 Rigid ceiling directly applied.
 Rigid ceiling directly applied.

REACTIONS. (size) 2=0-3-8, 5=Mechanical, 7=Mechanical Max Horz 2=114(LC 12) Max Uplift 2=-29(LC 12), 5=-20(LC 8), 7=-45(LC 12) Max Grav 2=323(LC 1), 5=58(LC 1), 7=201(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-4=-373/95

NOTES-

- 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 4-0-12, Exterior(2E) 4-0-12 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
- 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, 5, 7.
- 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.
- 10) Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.





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



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

BRACING-TOP CHORD BOT CHORD

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

REACTIONS. (size) 4=Mechanical, 5=Mechanical, 8=0-3-8 Max Horz 8=155(LC 12) Max Uplift 4=-24(LC 12), 5=-84(LC 12), 8=-5(LC 12) Max Grav 4=83(LC 19), 5=182(LC 19), 8=338(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-8=-298/98

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 5-11-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

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

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

4) Bearing at joint(s) 8 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) 4, 5, 8.

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.







WEBS 2x4 SPF No.2 SLIDER Left 2x6 SPF No.2 2-6-0

REACTIONS. (size) 2=0-3-8, 5=Mechanical, 7=Mechanical Max Horz 2=77(LC 12) Max Uplift 2=-36(LC 12), 5=-39(LC 8), 7=-7(LC 12) Max Grav 2=323(LC 1), 5=110(LC 1), 7=150(LC 3)

FORCES. (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) or less except when shown. TOP CHORD 2-4=-364/76

NOTES-

- 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 2-6-12, Exterior(2E) 2-6-12 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
- 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, 5, 7.
- 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.
- 10) Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.



MiTek 16023 Swingley Ridge Rd Chesterfield, MO 63017

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



	1-0-12		6-0	0-0	
	1-0-12		4-1	1-4	I
Plate Offsets (X,Y)	[2:0-3-4,0-0-1], [3:0-4-0,0-2-10]				
LOADING (psf) TCLL 25.0 TCDL 10.0 BCLL 0.0 BCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr NO Code IRC2018/TPI2014	CSI. TC 0.47 BC 0.26 WB 0.09 Matrix-MP	DEFL. in (I Vert(LL) -0.02 7 Vert(CT) -0.04 7 Horz(CT) 0.00	loc) I/defl L/d -10 >999 240 -10 >999 180 7 n/a n/a	PLATES GRIP MT20 197/144 Weight: 24 lb FT = 20%
LUMBER- TOP CHORD 2x4 SI BOT CHORD 2x4 SI WEBS 2x4 SI SLIDER Left 22	PF No.2 PF No.2 PF No.2 K6 SPF No.2 1-4-12		BRACING- TOP CHORD Stu 2-0 BOT CHORD Rig	ructural wood sheathing dire 0-0 oc purlins: 3-5. gid ceiling directly applied or	ctly applied or 6-0-0 oc purlins, except 10-0-0 oc bracing.

REACTIONS. (size) 2=0-3-8, 7=Mechanical Max Horz 2=40(LC 37)

Max Horz 2=40(LC 37) Max Uplift 2=-61(LC 8), 7=-48(LC 8) Max Grav 2=314(LC 1), 7=262(LC 25)

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; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 7.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 9) "NAILED" indicates 3-10d (0.148"x3") or 2-12d (0.148"x3.25") toe-nails per NDS guidlines.
- 10) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf) Vert: 1-3=-70, 3-4=-70, 4-5=-20, 6-8=-20
- Concentrated Loads (lb)
 - Vert: 14=8(B) 15=2(B) 16=2(B)







LOADING (psf) TCLL 25.0 TCDL 10.0 BCLL 0.0 BCDL 10.0	SPACING-2-0-0Plate Grip DOL1.15Lumber DOL1.15Rep Stress IncrYESCodeIRC2018/TPI2014	CSI. TC 0.49 BC 0.28 WB 0.06 Matrix-S	DEFL. i Vert(LL) 0.0 Vert(CT) 0.0 Horz(CT) 0.0	n (loc)) 2) 2	l/defl n/r n/r n/a	L/d 120 120 n/a	PLATES MT20 Weight: 20 lb	GRIP 197/144 FT = 20%
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TOP CHORD2x4 SPF No.2BOT CHORD2x4 SPF No.2WEBS2x4 SPF No.2

BRACING-TOP CHORD BOT CHORD

Structural wood sheathing directly applied or 5-8-8 oc purlins, except end verticals. Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 6=5-8-8, 5=5-8-8 Max Horz 6=124(LC 12) Max Uplift 5=-113(LC 12) Max Grav 6=237(LC 1), 5=263(LC 19)

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) 0-1-12 to 3-1-12, Interior(1) 3-1-12 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 5=113.
- 5) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.







LOADING TCLL TCDL	G (psf) 25.0 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15	CSI. TC 0.07 BC 0.02	DEFL. in (loc) l/defl L/d PLATES Vert(LL) -0.00 5 >999 240 MT20 Vert(CT) -0.00 5 >999 180 MT20	GRIP 197/144
BCLL BCDL	0.0 10.0	Rep Stress Incr YES Code IRC2018/TPI2014	WB 0.00 Matrix-MR	Horz(CT) -0.00 3 n/a n/a Weight: 6 ll	• FT = 20%

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

BRACING-TOP CHORD BOT CHORD

Structural wood sheathing directly applied or 1-9-0 oc purlins, except end verticals. Rigid ceiling directly applied or 10-0-0 oc bracing.

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

Max Horz 5=39(LC 12)

Max Uplift 5=-22(LC 12), 3=-24(LC 12) Max Grav 5=166(LC 1), 3=38(LC 1), 4=28(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) 5, 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.










			10-10-2			
			10-10-2			
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in	n (loc) l/defl L/d	PLATES GR	IP
TCLL 25.0	Plate Grip DOL 1.15	TC 0.27	Vert(LL) 0.00	5 n/r 120	MT20 197	7/144
TCDL 10.0	Lumber DOL 1.15	BC 0.12	Vert(CT) 0.00	5 n/r 120		
BCLL 0.0	Rep Stress Incr YES	WB 0.03	Horz(CT) 0.00	7 n/a n/a		
BCDL 10.0	Code IRC2018/TPI2014	Matrix-S			Weight: 25 lb	FT = 20%
LUMBER-			BRACING-	L		
TOP CHORD 2x4 SI	PF No.2		TOP CHORD	Structural wood sheathing dire	ectly applied or 10-0-0 oc	purlins,
BOT CHORD 2x4 SI	PF No.2			except		
WEBS 2x4 SI	PF No.2			2-0-0 oc purlins (6-0-0 max.):	3-4.	

BOT CHORD

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

REACTIONS.

All bearings 8-11-8. Max Horz 2=-20(LC 13) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 5, 2, 8, 7

Max Grav All reactions 250 lb or less at joint(s) 5, 2 except 8=343(LC 25), 7=352(LC 26)

NOTES-

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) 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) 5, 2, 8, 7. 6) N/A

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) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

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





FORCES. (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) or less except when shown. 3-8=-261/148, 4-7=-268/155 WEBS

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



2x4 =

8

2x4 ||

	11-0-2							
LOADING (psf) TCLL 25.0 TCDL 10.0 BCLL 0.0 BCDL 10.0	SPACING-2-0-0Plate Grip DOL1.15Lumber DOL1.15Rep Stress IncrYESCode IRC2018/TPI2014	CSI. TC 0.22 BC 0.11 WB 0.03 Matrix-S	DEFL. in Vert(LL) 0.00 Vert(CT) 0.00 Horz(CT) 0.00	n (loc) l/defl L/d) 5 n/r 120) 6 n/r 120) 5 n/a n/a	PLATES MT20 Weight: 25 lb	GRIP 197/144 FT = 20%		
LUMBER- TOP CHORD 2x4 SI BOT CHORD 2x4 SI WEBS 2x4 SI	2F No.2 2F No.2 2F No.2 2F No.2		BRACING- TOP CHORD	Structural wood sheathing dirr except 2-0-0 oc purlins (6-0-0 max.):	ectly applied or 10-0-0 3-4.	oc purlins,		

BOT CHORD

2x4 ||

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

2x4 =

REACTIONS. All bearings 8-11-8.

(lb) - Max Horz 2=21(LC 12)

Max Uplift All uplift 100 lb or less at joint(s) 5, 2, 7, 8

Max Grav All reactions 250 lb or less at joint(s) 5, 2 except 7=338(LC 26), 8=323(LC 25)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. WEBS 4-7=-255/146

NOTES-

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) 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) 5, 2, 7, 8. 6) N/A

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.

 See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

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

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



3) Gable requires continuous bottom chord bearing.

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

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

referenced standard ANSI/TPI 1.







2x4 ⋍

2x4 📚

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

			<u>4-7-3</u> 4-7-3	
Plate Offsets (X,Y)	[2:0-3-0,Edge]			
LOADING (psf) TCLL 25.0 TCDL 10.0 BCLL 0.0 BCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2018/TPI2014	CSI. TC 0.06 BC 0.12 WB 0.00 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 3 n/a n/a	PLATES GRIP MT20 197/144 Weight: 9 lb FT = 20%
LUMBER- TOP CHORD 2x4 SP	PF No.2		BRACING- TOP CHORD Structural wood sheathir	ng directly applied or 4-7-3 oc purlins.

BOT CHORD

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

REACTIONS. (size) 1=4-7-3, 3=4-7-3 Max Horz 1=13(LC 12) Max Uplift 1=-19(LC 12), 3=-19(LC 13) Max Grav 1=150(LC 1), 3=150(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.







LOADING (psf) TCLL 25.0 TCDL 10.0 BCLL 0.0 BCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2018/TPI2014	CSI. TC 0.70 BC 0.38 WB 0.00 Matrix-P	DEFL. in (lo Vert(LL) n/a Vert(CT) n/a Horz(CT) 0.00	oc) l/defl - n/a - n/a 3 n/a	L/d 999 999 n/a	PLATES GRIP MT20 197/144 Weight: 18 lb FT = 20%
LUMBER-			BRACING-			

TOP CHORD

BOT CHORD

LUMBER-

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

2x4 SPF No.2

REACTIONS. 1=6-8-7, 3=6-8-7 (size) Max Horz 1=111(LC 9) Max Uplift 1=-32(LC 12), 3=-58(LC 12)

Max Grav 1=267(LC 1), 3=267(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-Č Exterior(2E) 0-7-9 to 3-7-9, Interior(1) 3-7-9 to 6-6-11 zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate

grip DOL=1.60 2) 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, 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 6-0-0 oc purlins,

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

except end verticals.





LOADING (psf) TCLL 25.0 TCDL 10.0 BCLL 0.0 BCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2018/TPI2014	CSI. TC 0.19 BC 0.10 WB 0.00 Matrix-P	DEFL. in (loc) I/defl L/d Vert(LL) n/a - n/a 999 Vert(CT) n/a - n/a 999 Horz(CT) 0.00 3 n/a n/a	PLATES GRIP MT20 197/144 Weight: 11 lb FT = 20%
LUMBER-			BRACING-	

TOP CHORD

BOT CHORD

TOP CHORD 2x4 SPF No.2

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

REACTIONS. (size) 1=4-0-7, 3=4-0-7 Max Horz 1=61(LC 11) Max Uplift 1=-19(LC 12), 3=-34(LC 12)

Max Oplift 1=-19(LC 12), 3=-34(LC 12) Max Grav 1=147(LC 1), 3=147(LC 1)

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

NOTES-

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

2) 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, 3.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

ANDREW THOMAS ANDREW THOMAS OHISON NUMBER PE-2017018993 SONAL ENGINE November 8,2021

Structural wood sheathing directly applied or 4-0-7 oc purlins,

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

except end verticals.





BRACING-

TOP CHORD

BOT CHORD

11	IM	RF	R-	

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

OTHERS 2x4 SPF No.2

REACTIONS. (size) 1=9-4-11, 4=9-4-11, 5=9-4-11

Max Horz 1=161(LC 9) Max Uplift 4=-27(LC 9), 5=-115(LC 12)

Max Grav 1=173(LC 1), 4=122(LC 1), 5=481(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. WEBS 2-5=-364/237

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

2) Gable requires continuous bottom chord bearing.

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

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

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



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

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

except end verticals.





LOADING (ps TCLL 25 TCDL 10 BCLL 0 BCDL 10	sf) 5.0 0.0 0.0 0.0	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr Code IRC2018/TF	2-0-0 1.15 1.15 YES Pl2014	CSI. TC BC WB Matrix	0.71 0.38 0.00 ĸ-P	DEFL. Vert(LL) Vert(CT) Horz(CT)	in n/a n/a 0.00	(loc) - - 3	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20 Weight: 19 lb	GRIP 197/144 FT = 20%	
						PRACINC							

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

REACTIONS. 1=6-8-11, 3=6-8-11 (size) Max Horz 1=111(LC 9) Max Uplift 1=-32(LC 12), 3=-58(LC 12) Max Grav 1=268(LC 1), 3=268(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-Č Exterior(2E) 0-7-9 to 3-7-9, Interior(1) 3-7-9 to 6-6-15 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

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, 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.







LOADING (psf) TCLL 25.0 TCDL 10.0 BCLL 0.0 BCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2018/TPI2014	CSI. TC 0.19 BC 0.10 WB 0.00 Matrix-P	DEFL. in (loc) I/defl L/d Vert(LL) n/a - n/a 999 Vert(CT) n/a - n/a 999 Horz(CT) 0.00 3 n/a n/a	PLATES GRIP MT20 197/144 Weight: 11 lb FT = 20%
LUMBER-			BRACING-	

TOP CHORD

BOT CHORD

TOP CHORD 2x4 SPF No.2

BOT CHORD2x4 SPF No.2WEBS2x4 SPF No.2

REACTIONS. (size) 1=4-0-11, 3=4-0-11 Max Horz 1=62(LC 11) Max Uplift 1=-19(LC 12), 3=-34(LC 12) Max Grav 1=148(LC 1), 3=148(LC 1)

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

NOTES-

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

2) 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, 3.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

ANDREW THOMAS JOHNSON NUMBER PE-2017018993 November 8,2021

Structural wood sheathing directly applied or 4-0-11 oc purlins,

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

except end verticals.





N	n	ТΕ	C.

BCLL

BCDL

WEBS

LUMBER-

TOP CHORD

BOT CHORD

REACTIONS.

0.0

10.0

2x4 SPF No 2

2x4 SPF No.2

2x4 SPF No.2

(size)

Max Horz 3=-120(LC 8)

 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 5-2-1 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

WB

Matrix-P

0.00

2) Gable requires continuous bottom chord bearing.

Rep Stress Incr

3=5-7-8, 2=5-7-8

Max Uplift 3=-62(LC 13), 2=-20(LC 13) Max Grav 3=238(LC 20), 2=226(LC 1)

Code IRC2018/TPI2014

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

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

YES

- 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.



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

MITEK 16023 Swingley Ridge Rd Chesterfield, MO 63017

BRACING-

Horz(CT)

0.00

2

n/a

 Structural wood sheathing directly applied or 5-8-9 oc purlins, except end verticals.
 Directly applied or 40.0.0 oc bracks

Weight: 17 lb

FT = 20%

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

n/a



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 TOP CHORD
 2x4 SPF No.2

 BOT CHORD
 2x4 SPF No.2

 WEBS
 2x4 SPF No.2

BRACING-

 TOP CHORD
 Structural wood sheathing directly applied or 4-5-9 oc purlins, except end verticals.

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

REACTIONS. (size) 3=4-4-8, 2=4-4-8 Max Horz 3=-90(LC 8) Max Uplift 3=-46(LC 13), 2=-15(LC 13)

Max Grav 3=179(LC 20), 2=170(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 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) 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) 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.

ANDREW THOMAS JOHNSON NUMBER PE-2017018993 SONAL ENGINE November 8,2021





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LU		EV-	

BCDL

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

10.0

BRACING-TOP CHORD

Structural wood sheathing directly applied or 3-2-9 oc purlins, except end verticals. BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

Weight: 9 lb

FT = 20%

REACTIONS. 3=3-1-8, 2=3-1-8 (size) Max Horz 3=-60(LC 8) Max Uplift 3=-31(LC 13), 2=-10(LC 13) Max Grav 3=120(LC 20), 2=114(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) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

Matrix-P

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) 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.





