



12/16/2020

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

Re: 2552987 Summit/19 Woodside

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: I43853153 thru I43853246

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

Missouri COA: Engineering 001193

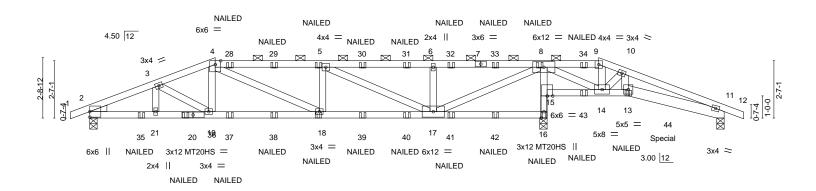


December 4,2020

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.

			RELEASE FOR				
Job	Truss	Truss Type	CONSTRUCTION	Ply	Summit/19 Woodside		
2552987	A01	Hip Girder	AS NOTED ON PLANS REVIE	1 1			143853153
2002001			DEVELOPMENT SERVICES		Job Reference (optional)		
Builders FirstSource (Valley	Center), Valley Center, H	(S - 67147,	LEE'S SUMMIT, MISSOURI	8.240 s N	ar 9 2020 MiTek Industries, Inc	. Thu Dec 3 12:44:07	2020 Page 1
			ID:wH4RYhEsTNeU	P2dXvOfi	syQY8e-uQvisFC9RF0RDLEcu	163PF9YCP9LaeJtMu	QsbhSyCgM6
-Q-10-8 2-11-12	5-8-0	10-6-4	15-6 12/16/2020 5-0-0	20-8-0	23-0-0 24-4-0	28-8-0	29-6-8
0-10-8 2-11-12	2-8-4	4-10-4	5-0-0	5-1-12	2-4-0 1-4-0	4-4-0	0-10-8

Scale = 1:52.1



	<u>1-12 5-8-0</u> 1-12 2-8-4	10-6-4	<u>15-6-4</u> 5-0-0	20-8-0		<u>24-4-0 28-8-0</u> 1-4-0 4-4-0					
	[2:0-0-0,0-6-3]	4-10-4	5-0-0	5-1-12	2-4-0	1-4-0 4-4-0					
LOADING (psf) TCLL 25.0 TCDL 20.0 BCLL 0.0 * BCDL 10.0	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr Code IRC2018/TPI2	2-0-0 CSI. 1.15 TC 0.88 1.15 BC 0.88 NO WB 0.77 2014 Matrix-MS	3 Vert(CT)	in (loc) //d -0.14 18 >99 -0.31 17-18 >74 0.07 16 r	99 240	PLATES MT20 MT20HS Weight: 110 lb	GRIP 197/144 148/108 FT = 20%				
13-15:	F No.2 F 1650F 1.5E *Except* 2x4 SPF No.2, 11-13: 2x6 \$ F No.2	SPF No.2	BRACING TOP CHO BOT CHO	RD Structural w except 2-0-0 oc pu	vood sheathing direc rlins (2-4-2 max.): 4 g directly applied or		oc purlins,				
Max H Max U	e) 2=0-4-0, 16=0-4-0 (rec orz 2=-37(LC 30) plift 2=-255(LC 4), 16=-376 rav 2=1722(LC 21), 16=26	(LC 5), 11=-113(LC 5)									
FORCES. (lb) - Max. Comp./Max. Ten All forces 250 (lb) or less except when shown. TOP CHORD 2-3=-3137/454, 3-4=-3090/446, 4-5=-3544/536, 5-6=-2369/362, 6-8=-2369/362, 10-11=-1028/202 BOT CHORD 2-21=-415/2856, 19-21=-415/2856, 18-19=-387/2893, 17-18=-478/3540, 16-17=-522/98, 15-16=-2539/420, 8-15=-2425/414, 14-15=-936/174, 13-14=-126/825, 11-13=-146/962 WEBS 4-19=0/292, 4-18=-133/800, 5-17=-1299/214, 6-17=-556/194, 8-17=-439/3151, 8-14=-172/1231, 10-14=-869/168, 10-13=-69/575											
 Wind: ASCE 7-16; V MWFRS (envelope) grip DOL=1.60 Provide adequate dr All plates are MT20 This truss has been * This truss has been * This truss has been * WARNING: Require Bearing at joint(s) 11 capacity of bearing s Provide mechanical 2=255, 16=376, 11= This truss is design referenced standar (araphical purlin reg "AILED" indicates Hanger(s) or other 	gable end zone; cantilever ainage to prevent water por plates unless otherwise indi designed for a 10.0 psf bott in designed for a live load of ottom chord and any other d bearing size at joint(s) 16 I considers parallel to grain surface. connection (by others) of tre 113. red in accordance with the 2 d ANSI/TPI 1. oresentation does not depic s 3-10d (0.148"x3") or 3-12c connection device(s) shall t	t) Vasd=91mph; TCDL=6.0psf; left and right exposed ; end ve nding. cated. om chord live load nonconcurr 20.0psf on the bottom chord i	rent with any other live lo n all areas where a recta e. to grain formula. Buildin f withstanding 100 lb upli Code sections R502.11. the purlin along the top a NDS guidlines. ort concentrated load(s) 2	ed; Lumber DOL=1.6 ads. ngle 3-6-0 tall by 2-0 g designer should ve ft at joint(s) except (j l and R802.10.2 and nd/or bottom chord. 11 lb down and 59 lb	60 plate 0-0 wide erify t=lb)	ROUTE SCO SE SE SE SE SE SE SE SE SE SE SE SE SE	MISSOLUTI M. VIER DI018807				
Design valid for use of a truss system. Before building design. Braci is always required for fabrication, storage, d	nly with MiTek® connectors. This d e use, the building designer must ve ing indicated is to prevent buckling stability and to prevent collapse wit elivery, erection and bracing of trus	S ON THIS AND INCLUDED MITER R esign is based only upon parameters s rify the applicability of design paramet of individual truss web and/or chord m h possible personal injury and property ses and truss systems, see 2670 Crain Highway, Suite 203 Waldo	shown, and is for an individual b ters and properly incorporate th embers only. Additional tempo y damage. For general guidanc ANSI/TPI1 Quality Criteria, DS	uilding component, not s design into the overall ary and permanent bracin e regarding the	-	16023 Swingle Chesterfield, M	ıy Ridge Rd IO 63017				

			RELEASE FOR	
Job	Truss	Truss Type	CONSTRUCTION Ply	Summit/19 Woodside
2552987	A01	Hip Girder	AS NOTED ON PLANS REVIEW	143853153
2332307	AUT		DEVELOPMENT SERVICES	Job Reference (optional)
Builders FirstSource (Valley	y Center), Valley Center, ł	(S - 67147,	LEE'S SUMMIT, MISSOURI8.240 s M	ar 9 2020 MiTek Industries, Inc. Thu Dec 3 12:44:07 2020 Page 2
			ID:wH4RYhEsTNeUP2dXvOfi	syQY8e-uQvisFC9RF0RDLEcu63PF9YCP9LaeJtMuQsbhSyCgM6
NOTES-	· · · · · · · · · · · · · · · · · · ·	f f th to.	12/16/2020	

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

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-4=-90, 4-9=-90, 9-12=-90, 16-22=-20, 13-15=-20, 13-25=-20

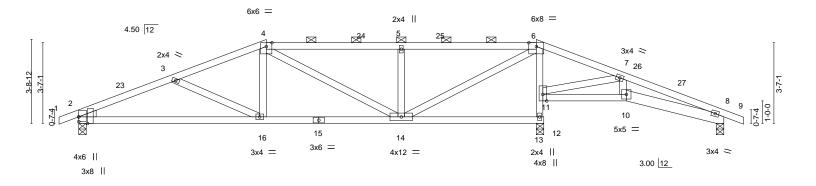
Concentrated Loads (lb)

Vert: 16=-38(F) 8=-60(F) 13=-171(F) 18=-38(F) 5=-60(F) 28=-60(F) 29=-60(F) 30=-60(F) 31=-60(F) 32=-60(F) 33=-60(F) 34=-27(F) 35=-189(F) 36=-183(F) 37=-38(F) 38=-38(F) 39=-38(F) 40=-38(F) 41=-38(F) 42=-38(F) 43=-75(F) 44=-211(F)



			R	ELEASE FO	R					
Job	Truss	Truss Type	C	ONSTRUCTI	DN Ply	5	Summit/1	9 Woodside		
2552987	A02	Hip		ED ON PLANS		1				143853154
2332301	102	, iib		LOPMENT SER		' J	ob Refere	ence (optional)		
Builders FirstSource (Valley	Center), Valley Center, H	(S - 67147,	LEE'S SUMMIT, MISSOURI8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Dec 3 12:44:09 20				9 2020 Page 1			
				ID:wH4	RYhEsTNeUP	2dXvO	fi1syQY8	e-qo1SHxEPzsG98	SeO??X6tKaecSz506	I1fLkLilLyCgM4
-Q-10-8 4-3-1	2 8-4-0		14-4-0	12/16/2020	20-4-0		20 ₀ 8 ₀	24-4-0	28-8-0	29-6-8
0-10-8 4-3-1	2 4-0-4		6-0-0	12/10/2020	6-0-0		0-4-0	3-8-0	4-4-0	0-10-8

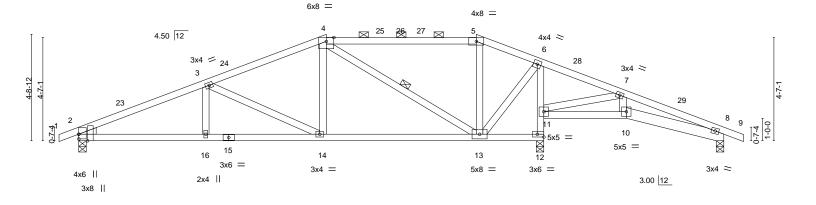
Scale = 1:51.2



 	8-4-0	<u>14-4-0</u> 6-0-0	<u> </u>	24-4-0	<u> </u>						
Plate Offsets (X,Y)	[2:0-3-8,Edge]	0-0-0	6-4-0	3-8-0	4-4-0						
LOADING (psf) TCLL 25.0 TCDL 20.0 BCLL 0.0 * BCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2018/TPI2014	CSI. TC 0.59 BC 0.63 WB 0.48 Matrix-AS	DEFL. in (loc) I/defl Vert(LL) -0.08 14-16 >999 Vert(CT) -0.17 16-19 >999 Horz(CT) 0.04 13 n/a	L/d 240 180 n/a	PLATES GRIP MT20 197/144 Weight: 108 lb FT = 20%						
LUMBER- TOP CHORD 2x4 SP BOT CHORD 2x4 SP 8-10: 2; WEBS 2x4 SP WEDGE Left: 2x4 SPF No.2	F No.2 *Except* x6 SPF No.2			s (4-3-8 max.): 4-	ctly applied, except 6.						
REACTIONS. (size) 2=0-4-0, 13=0-4-0, 8=0-4-0 Max Horz 2=53(LC 16) Max Uplift 2=-145(LC 8), 13=-134(LC 9), 8=-84(LC 9) Max Grav 2=1173(LC 25), 13=1716(LC 1), 8=441(LC 26)											
TOP CHORD 2-3=-2 7-8=-7 80T CHORD 2-16= WEBS 11-13	FORCES. (lb) - Max. Comp./Max. Ten All forces 250 (lb) or less except when shown. TOP CHORD 2-3=-2106/264, 3-4=-1780/218, 4-5=-1437/225, 5-6=-1437/225, 6-7=0/397, 7-8=-700/152 BOT CHORD 2-16=-235/1903, 14-16=-145/1628, 10-11=-94/570, 8-10=-96/625 WEBS 11-13=-1661/166, 6-11=-1420/174, 3-16=-293/104, 4-16=0/327, 5-14=-618/167,										
 Wind: ASCE 7-16; V MWFRS (envelope) Interior(1) 12-6-15 to vertical left and right Provide adequate dr. This truss has been * This truss has been this truss has been Bearing at joint(s) 8 d capacity of bearing s Provide mechanical 2=145, 13=134. This truss is designe referenced standard This truss design rec sheetrock be applied 	 BOT CHORD 2-16=-235/1903, 14-16=-145/1628, 10-11=-94/570, 8-10=-96/625 WEBS 11-13=-1661/166, 6-11=-1420/174, 3-16=-293/104, 4-16=0/327, 5-14=-618/167, 7-11=-871/129, 7-10=0/263, 6-14=-181/1773 NOTES- Ubhalanced roof live loads have been considered for this design. Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=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 8-4-0, Exterior(2R) 8-4-0 to 12-6-15, Interior(1) 12-6-15 to 20-4-0, Exterior(2E) 0-10-8 to 2-1-8, Interior(1) 2-1-8 to 8-4-0, Exterior(2R) 8-4-0 to 12-6-15, Interior(1) 12-6-15 to 20-4-0, Exterior(2R) 20-4-0 to 24-6-15, Interior(1) 24-6-15 to 29-6-8 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 Provide adequate drainage to prevent water ponding. This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members. 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. Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 8 except (jt=lb) 										



			RELEASE FOR				
Job	Truss	Truss Type	CONSTRUCTION	Ply	Summit/19 Woodside		
2552987	A03	Hip	AS NOTED ON PLANS REVIEW				143853155
2002001	A03		DEVELOPMENT SERVICES		Job Reference (optional)		
Builders FirstSource (Valle	y Center), Valley C	Center, KS - 67147,	LEE'S SUMMIT, MISSOURI8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Dec 3 12:44:10 2020 Page				0 2020 Page 1
					syQY8e-I?bqUHE2jAO04ozB		
-Q-10-8	5-7-12	11-0-0		20-8	-0 24-4-0	28-8-0	29-6-8 ₁
0-10-8	5-7-12	5-4-4	6-8-0	3-0	-0 3-8-0	4-4-0	0-10-8 ¹
							Scale = 1:51.2

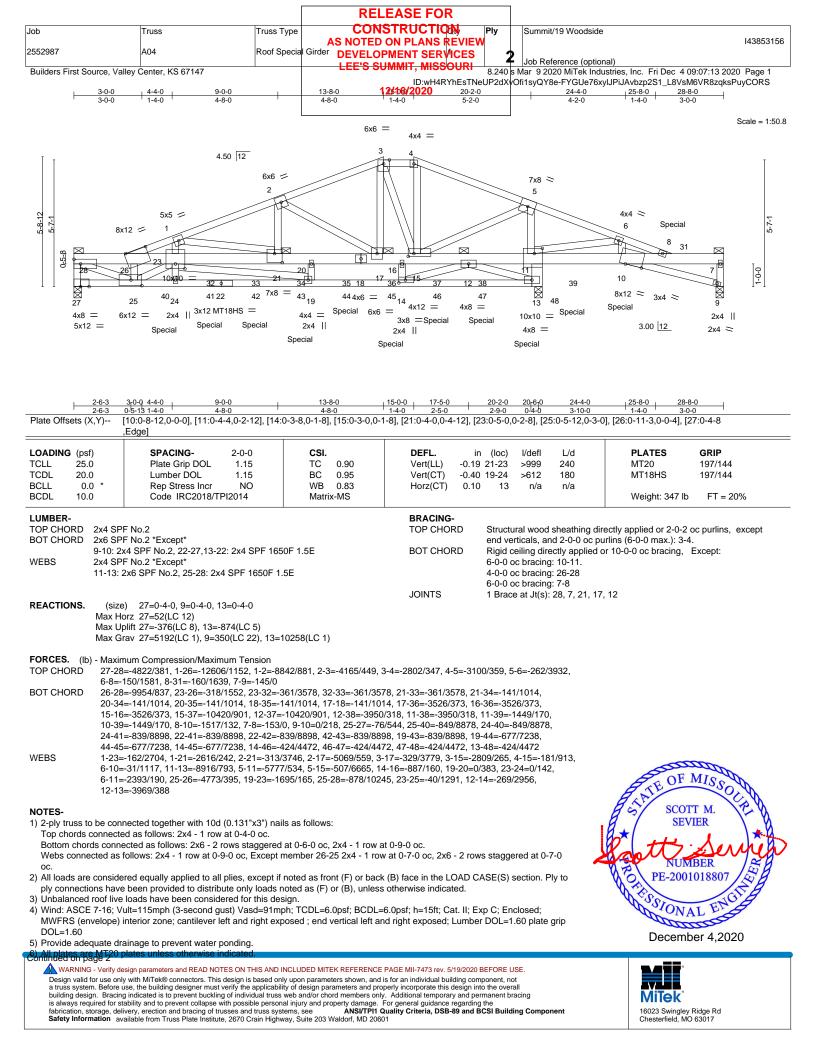


L	5-7-12	11-0-0		17-8-0	20-8-0	24-4-0	28-8-0	
Plate Offsets (X,Y) [5-7-12 2:0-3-8,Edge], [12:Edge	5-4-4		6-8-0	3-0-0	3-8-0	4-4-0	
LOADING (psf) TCLL 25.0 TCDL 20.0 BCLL 0.0 * BCDL 10.0	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr Code IRC2018/T	2-0-0 1.15 1.15 YES Pl2014	CSI. TC 0.73 BC 0.56 WB 0.35 Matrix-AS		in (loc) l/defl 07 14-16 >999 15 14-16 >999 05 12 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 113 lb	GRIP 197/144 FT = 20%
LUMBER- TOP CHORD 2x4 SPF BOT CHORD 2x4 SPF 8-10: 2x WEBS 2x4 SPF WEDGE Left: 2x4 SPF No.2	F No.2 *Except* 6 SPF No.2			BRACING- TOP CHORD BOT CHORD WEBS		s (5-5-7 max.): 4- rectly applied.		
Max Ho Max Up) 2=0-4-0, 12=0-4-0, 8 prz 2=69(LC 16) plift 2=-141(LC 8), 12=-1 rav 2=1171(LC 25), 12=	07(LC 9), 8=-89(
BOT CHORD 2-16=- 10-11= WEBS 3-14=-	Comp./Max. Ten All fo 2070/230, 3-4=-1463/20i -219/1861, 14-16=-219/ =-111/581, 8-10=-113/6: -614/131, 4-14=0/449, 4 -843/142	0, 4-5=-523/150, 1861, 13-14=-10- 27	5-6=-569/139, 6-7=0/3 4/1292, 11-12=-1734/1	64, 7-8=-702/170 11, 6-11=-1460/99,				
Interior(1) 15-2-15 to end vertical left and r DOL=1.60 3) Provide adequate dra 4) This truss has been will fit between the bc 6) Bearing at joint(s) 8 c capacity of bearing st 7) Provide mechanical of 2=141, 12=107. 8) This truss is designed referenced standard of 9) This truss design req	ult=115mph (3-second g gable end zone and C-C 17-8-0, Exterior(2R) 17- ight exposed;C-C for me ainage to prevent water p designed for a 10.0 psf b designed for a live load ottom chord and any oth considers parallel to grai urface. connection (by others) of d in accordance with the ANSI/TPI 1. uires that a minimum of directly to the bottom ch	ust) Vasd=91mp Exterior(2E) -0 8-0 to 21-10-15, embers and force ponding. pottom chord live of 20.0psf on the er members. In value using AN f truss to bearing 2018 Internation 7/16" structural v nord.	h; TCDL=6.0psf; BCDL 10-8 to 2-1-8, Interior(1 Interior(1) 21-10-15 to es & MWFRS for reaction load nonconcurrent wite bottom chord in all ar ISI/TPI 1 angle to grain plate capable of withst hal Residential Code se wood sheathing be app) 2-1-8 to 11-0-0, Exter 29-6-8 zone; cantilever ons shown; Lumber DO th any other live loads. eas where a rectangle formula. Building desi tanding 100 lb uplift at ju- ections R502.11.1 and F lied directly to the top c	ior(2R) 11-0-0 to 1 left and right expo L=1.60 plate grip 3-6-0 tall by 2-0-0 to gner should verify bint(s) 8 except (jt= R802.10.2 and hord and 1/2" gyps	sed ; wide =lb)	NU PE-200 PE-200	MISSOLUTI DTT M. EVIER 01018807
WARNING - Verify de	esign parameters and READ N	DTES ON THIS AND I	NCLUDED MITEK REFEREN	CE PAGE MII-7473 rev. 5/19/2	020 BEFORE USE.			3

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 dmange. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek

16023 Swingley Ridge Rd Chesterfield, MO 63017



				REL	EASE	E FO	R					
Job	Truss	Truss Type		CON	STRU	ICTIC	<u>Ny</u>	Ply		Summit/19 Woodside		
				S NOTED	ON PL	ANS I	REVIEW	/				I43853156
2552987	A04	Roof Specia	l Girder	DEVELO	PMENT	SER	VICES		2			
				LEE'S SI	INABALT	MICC		4		Job Reference (optional)		
Builders First Source, Valley	Center, KS 67147			LEE 3 3	Ownwitt,	, 10133	OUKI	8.240	sΝ	/ar 9 2020 MiTek Industries, Ir	nc. Fri Dec 4 09:07:13 2020	Page 2
					11	D:wH4R	YhEsTNe	UP2dX	tov	fi1syQY8e-FYGUe76xylJPiJAv	bzp2S1 L8VsM6VR8zgksPu	VCORS

NOTES-

ued on page 3

- 12/16/2020
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 9) Bearing at joint(s) 27, 9, 13 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 376 lb uplift at joint 27 and 874 lb uplift at joint 13.
- 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.
- 13) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 699 lb down and 68 lb up at 26-0-12 on top chord, and 1099 lb down and 148 lb up at 4-0-12, 1099 lb down and 147 lb up at 6-0-12, 1099 lb down and 145 lb up at 8-0-12, 1099 lb down and 142 lb up at 10-0-12, 1099 lb down and 139 lb up at 12-0-12, 1141 lb down and 138 lb up at 14-0-12, 1141 lb down and 138 lb up at 12-0-12, and 665 lb down and 117 lb up at 22-0-12, and 689 lb down and 118 lb up at 24-2-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S)
1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf) Vert: 3-26=-90, 3-4=-90, 4-8=-90, 26-28=-160, 10-11=-20, 7-8=-20, 9-10=-111, 25-27=-160, 13-25=-20
Concentrated Loads (Ib)
Vert: 10=-643(B) 11=-1099(B) 23=-1099(B) 31=-666(B) 32=-1099(B) 33=-1099(B) 34=-1099(B) 35=-1099(B) 36=-1099(B) 37=-1099(B) 38=-1099(B) 39=-665(B) 2) Dead + 0.75 Roof Live (balanced) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf) Vert: 3-26=-78, 3-4=-78, 4-8=-77, 26-28=-135, 10-11=-20, 7-8=-20, 9-10=-99, 25-27=-135, 13-25=-20
Vent. 5-20=-76, 5-4=-76, 4-6=-77, 20-20=-155, 10-11=-20, 7-6=-20, 9-10=-99, 25-27=-155, 15-25=-20 Concentrated Loads (lb)
Vert: 10=-672(B) 11=-1141(B) 23=-967(B) 31=-591(B) 32=-967(B) 33=-967(B) 34=-967(B) 35=-967(B) 36=-1141(B) 37=-1141(B) 38=-1141(B) 39=-583(B) 3) Dead + Uninhabitable Attic Without Storage: Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf) Vert: 3-26=-40, 3-4=-40, 4-8=-40, 26-28=-60, 10-11=-20, 7-8=-20, 9-10=-61, 25-27=-60, 13-25=-20
Concentrated Loads (lb)
Vert: 10=-468(B) 11=-783(B) 23=-783(B) 31=-501(B) 32=-783(B) 33=-783(B) 34=-783(B) 35=-783(B) 36=-783(B) 37=-783(B) 38=-783(B) 39=-468(B) 4) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf) Vert: 3-26=22, 3-4=25, 4-8=13, 26-28=-13, 10-11=-12, 7-8=-12, 9-10=-19, 25-27=-13, 13-25=-12
Horz: 27-28=11, 3-26=-34, 4-8=25, 7-9=16, 9-10=5 Concentrated Loads (lb)
Vert: 10=77(B) 11=102(B) 23=112(B) 31=40(B) 32=111(B) 33=109(B) 34=106(B) 35=103(B) 36=102(B) 37=102(B) 38=102(B) 39=81(B)
 Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf)
Vert: 3-26=13, 3-4=25, 4-8=22, 26-28=-13, 10-11=-12, 7-8=-12, 9-10=-19, 25-27=-13, 13-25=-12
Horz: 27-28=-16, 3-26=-25, 4-8=34, 7-9=-11, 9-10=5
Concentrated Loads (lb) Vert: 10=77(B) 11=102(B) 23=112(B) 31=34(B) 32=111(B) 33=109(B) 34=106(B) 35=103(B) 36=102(B) 37=102(B) 38=102(B) 39=81(B)
6) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 3-26=-16, 3-4=-14, 4-8=-25, 26-28=-71, 10-11=-20, 7-8=-20, 9-10=-67, 25-27=-71, 13-25=-20 Horz: 27-28=22, 3-26=-24, 4-8=15, 7-9=6, 9-10=-5
Concentrated Loads (Ib)
Vert: 10=118(B) 11=138(B) 23=148(B) 31=65(B) 32=147(B) 33=145(B) 34=142(B) 35=139(B) 36=138(B) 37=138(B) 38=138(B) 39=117(B) 7) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 3-26=-25, 3-4=-14, 4-8=-16, 26-28=-71, 10-11=-20, 7-8=-20, 9-10=-67, 25-27=-71, 13-25=-20 Horz: 27-28=-6, 3-26=-15, 4-8=24, 7-9=-22, 9-10=-5
Concentrated Loads (lb) Vert: 10=118(B) 11=138(B) 23=148(B) 31=59(B) 32=147(B) 33=145(B) 34=142(B) 35=139(B) 36=138(B) 37=138(B)
38=138(B) 39=117(B)
 Bead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf)
Vert: 3-26=25, 3-4=9, 4-8=9, 26-28=-13, 10-11=-12, 7-8=-12, 9-10=-19, 25-27=-13, 13-25=-12
Horz: 27-28=6, 3-26=-37, 4-8=21, 7-9=14, 9-10=5
Concentrated Loads (lb) Vert: 10=77(B) 11=102(B) 23=112(B) 31=43(B) 32=111(B) 33=109(B) 34=106(B) 35=103(B) 36=102(B) 37=102(B) 38=102(B)
39=81(B)
 Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf)
Vert: 3-26=9, 3-4=9, 4-8=25, 26-28=-13, 10-11=-12, 7-8=-12, 9-10=-19, 25-27=-13, 13-25=-12
Horz: 27-28=-14, 3-26=-21, 4-8=37, 7-9=-6, 9-10=5
Concentrated Loads (lb) Vert: 10=77(B) 11=102(B) 23=112(B) 31=32(B) 32=111(B) 33=109(B) 34=106(B) 35=103(B) 36=102(B) 37=102(B) 38=102(B)
39=81(B)
10) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf) Vert: 3-26=14, 3-4=4, 4-8=4, 26-28=-13, 10-11=-12, 7-8=-12, 9-10=-19, 25-27=-13, 13-25=-12
Horz: 27-28=6, 3-26=-26, 4-8=16, 7-9=14, 9-10=5
Concentrated Loads (lb) Vert: 10=77(B) 11=102(B) 23=112(B) 31=46(B) 32=111(B) 33=109(B) 34=106(B) 35=103(B) 36=102(B) 37=102(B)
Vert: 10=77(B) 11=102(B) 23=112(B) 31=46(B) 32=111(B) 33=109(B) 34=106(B) 35=103(B) 36=102(B) 37=102(B) 37=102(B) 38=102(B) 38=102(B) 39=81(B) 38=102(B) 39=81(B) 39=
11) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.60, Plate Increase=1.60



			RELEASE FOR		
Job	Truss	Truss Type		Summit/19 Woodside	
0550007		DestOres	AS NOTED ON PLANS REVIEW		143853156
2552987	A04	Roor Specia		Job Reference (optional)	
Builders First Source, Valley	Center, KS 67147			s Mar 92020 MiTek Industries, Inc. Fri Dec 409: vOfi1syQY8e-FYGUe76xyIJPiJAvbzp2S1 L8VsM6	
			12/16/2020		VROZYKSFUJCORO
LOAD CASE(S)					
Uniform Loads (plf) Vert: 3-26=4,	3-4=4, 4-8=14, 26-28=-13, 10)-11=-12, 7-8			
	-14, 3-26=-16, 4-8=26, 7-9=-6	, 9-10=5			
Concentrated Loads (Vert: 10=77(E	,	0(B) 32=11 ²	(B) 33=109(B) 34=106(B) 35=103(B) 36=102(B) 37=	102(B) 38=102(B) 39=81(B)	
12) Dead + 0.6 MWFRS V			hcrease=1.60, Plate Increase=1.60	- () () ()	
Uniform Loads (plf) Vert: 3-26=-1	4 3-4=-30 4-8=-30 26-28=-7	1 10-11=-2	0, 7-8=-20, 9-10=-67, 25-27=-71, 13-25=-20		
Horz: 27-28=	17, 3-26=-26, 4-8=10, 7-9=3,		-,,,		
Concentrated Loads (Vert: 10=118		68(B) 32=14	47(B) 33=145(B) 34=142(B) 35=139(B) 36=138(B) 37	=138(B) 38=138(B) 39=117(B)	
13) Dead + 0.6 MWFRS V			Increase=1.60, Plate Increase=1.60	(2)	
Uniform Loads (plf)	0 3-430 4-814 26-287	1 10-112	0, 7-8=-20, 9-10=-67, 25-27=-71, 13-25=-20		
Horz: 27-28=	-3, 3-26=-10, 4-8=26, 7-9=-17		0, 7 0 - 20, 3 10 - 07, 20 27 - 71, 10 20 - 20		
Concentrated Loads (/	58(B) 32-1/	17(B) 33=145(B) 34=142(B) 35=139(B) 36=138(B) 37	-138/B) 38-138/B) 30-117/B)	
			te Increase=0.90 Plt. metal=0.90		
Uniform Loads (plf)	0 2 4 40 4 9 40 26 29 6	0 10 11- 2	0, 7-8=-20, 9-10=-61, 25-27=-60, 13-25=-20		
Concentrated Loads (, , ,	10, 10-11-2	0, 7-020, 9-1001, 20-2700, 10-2020		
			2=-572(B) 33=-572(B) 34=-572(B) 35=-572(B) 36=-80	04(B) 37=-804(B) 38=-804(B) 39=-336(B)	
Uniform Loads (plf)	e (Dal.) + 0.75(0.6 MWFRS WI	ina (neg. int) Left): Lumber Increase=1.60, Plate Increase=1.60		
			20, 7-8=-20, 9-10=-103, 25-27=-143, 13-25=-20		
Horz: 27-28= Concentrated Loads (16, 3-26=-18, 4-8=11, 7-9=4, 9 b)	9-10=-4			
			33=60(B) 34=58(B) 35=56(B) 36=55(B) 37=55(B) 38	=55(B) 39=63(B)	
Uniform Loads (plf)	(Dal.) + 0.75(0.6 MWFRS W	ina (neg. int) Right): Lumber Increase=1.60, Plate Increase=1.60		
	6, 3-4=-58, 4-8=-60, 26-28=-1 -4, 3-26=-11, 4-8=18, 7-9=-16		20, 7-8=-20, 9-10=-103, 25-27=-143, 13-25=-20		
Concentrated Loads (, 9-10=-4			
			33=60(B) 34=58(B) 35=56(B) 36=55(B) 37=55(B) 38=) 1st Parallel): Lumber Increase=1.60, Plate Increase=		
Uniform Loads (plf)	(bal.) + 0.75(0.0 WWFRS W	ind (Neg. int	1 ISt Farallel). Lumber increase=1.00, Flate increase	=1.00	
	8, 3-4=-70, 4-8=-70, 26-28=-1 13, 3-26=-20, 4-8=8, 7-9=2, 9		20, 7-8=-20, 9-10=-103, 25-27=-143, 13-25=-20		
Concentrated Loads (b)				
			33=60(B) 34=58(B) 35=56(B) 36=55(B) 37=55(B) 38=) 2nd Parallel): Lumber Increase=1.60, Plate Increase		
Uniform Loads (plf)		ina (Neg. ini		-1.00	
	0, 3-4=-70, 4-8=-58, 26-28=-1 -2, 3-26=-8, 4-8=20, 7-9=-13,		20, 7-8=-20, 9-10=-103, 25-27=-143, 13-25=-20		
Concentrated Loads (b)				
	3) 11=55(B) 23=63(B) 31=10(I Vind Min. Left: Lumber Increa	, , ,	33=60(B) 34=58(B) 35=56(B) 36=55(B) 37=55(B) 38 te Increase=1 60	=55(B) 39=63(B)	
Uniform Loads (plf)					
Vert: 3-26=-1 Horz: 27-28=		4, 10-11=-1	2, 7-8=-12, 9-10=-24, 25-27=-24, 13-25=-12		
Concentrated Loads (b)				
	3) 11=47(B) 23=57(B) 31=22(I Vind Min. Right: Lumber Incre		33=53(B) 34=51(B) 35=48(B) 36=47(B) 37=47(B) 38 late Increase=1.60	=47(B) 39=46(B)	
Uniform Loads (plf)	·				
Vert: 3-26=-1 Horz: 4-8=-3,		4, 10-11=-1	2, 7-8=-12, 9-10=-24, 25-27=-24, 13-25=-12		
Concentrated Loads (/				
	(unbalanced): Lumber Increas		33=53(B) 34=51(B) 35=48(B) 36=47(B) 37=47(B) 38 te Increase=1.15	=47(B) 39=46(B)	
Uniform Loads (plf)		CO 10 11			
Concentrated Loads (, , ,	60, 10-11=-	20, 7-8=-20, 9-10=-61, 25-27=-160, 13-25=-20		
) 31=-699(B)	32=-1099(B) 33=-1099(B) 34=-1099(B) 35=-1099(B)	36=-1099(B)	
	38=-1099(B) 39=-665(B) (unbalanced): Lumber Increa	se=1.15, Pla	ate Increase=1.15		
Uniform Loads (plf)	0 2 4 - 00 4 9 - 00 26 29 - 6	0 10 11- 2	0, 7-8=-20, 9-10=-111, 25-27=-60, 13-25=-20		
Concentrated Loads (10, 10-11-2	0, 7-020, 3-10111, 23-2700, 13-2320		
	3(B) 11=-1099(B) 23=-1099(B) 38=-1099(B) 39=-665(B)) 31=-666(B)	32=-1099(B) 33=-1099(B) 34=-1099(B) 35=-1099(B)	36=-1099(B)	
23) 3rd Dead + 0.75 Roof	., .,	nhab. Attic S	Storage: Lumber Increase=1.15, Plate Increase=1.15		
Uniform Loads (plf) Vert: 3-26=-7	8. 3-4=-78. 4-8=-40 26-28=-1	35. 10-11=-	20, 7-8=-20, 9-10=-61, 25-27=-135, 13-25=-20		
	, <u></u> , . _ . , . <u></u> . _ . . _ . . _ . . · · . · . · . · . · . · . · . · . · 		.,,		
Continued on page 4					



				RELEASE FOR		
Job		Truss	Truss Type		Summit/19 Woodside	
2552	987	A04	Roof Specia	AS NOTED ON PLANS REVIEW		143853156
Build	ders First Source, Valley	Center KS 67147			Job Reference (optional) Mar 9 2020 MiTek Industries, Inc. Fr	ri Dec. 4.09:07:13.2020. Page 4
Duik				ID:wH4RYhEsTNeUP2dXy	Dfi1syQY8e-FYGUe76xyIJPiJAvbzp2	0
LOA	AD CASE(S)			12/16/2020		
	Concentrated Loads (II		31–-616(B) ⁻	ا 32=-967(B) 33=-967(B) 34=-967(B) 35=-967(B) 36=-1	141(B) 371141(B) 381141(B) 39	9583(B)
	4th Dead + 0.75 Roof I			Storage: Lumber Increase=1.15, Plate Increase=1.15	141(D) 37=-1141(D) 30=-1141(D) 3	9=-303(D)
	Uniform Loads (plf) Vert: 3-26=-40). 3-4=-78. 4-8=-77. 26-28=-6	0. 10-11=-2	0, 7-8=-20, 9-10=-99, 25-27=-60, 13-25=-20		
	Concentrated Loads (II	b)			144 (D) 07 44 44 (D) 00 44 44 (D) 00	0 502(D)
25)			. ,	32=-967(B) 33=-967(B) 34=-967(B) 35=-967(B) 36=-1 r Increase=1.60, Plate Increase=1.60	141(B) 37=-1141(B) 38=-1141(B) 3	J=-583(B)
	Uniform Loads (plf)	3-4-25 4-8-13 26-2813	10-1112	7-8=-12, 9-10=-19, 25-27=-13, 13-25=-12		
	Horz: 27-28=1	1, 3-26=-34, 4-8=25, 7-9=16		1 0 12, 5 10 13, 25 21 13, 15 25 12		
	Concentrated Loads (II Vert: 10=-370		1=-410(B) 3	2=-522(B) 33=-539(B) 34=-562(B) 35=-584(B) 36=-58	9(B) 37=-589(B) 38=-589(B) 39=-36	34(B)
	Reversal: Dead + 0.6 M			er Increase=1.60, Plate Increase=1.60		
	Uniform Loads (plf) Vert: 3-26=13	, 3-4=25, 4-8=22, 26-28=-13,	10-11=-12,	7-8=-12, 9-10=-19, 25-27=-13, 13-25=-12		
	Horz: 27-28=- Concentrated Loads (II	16, 3-26=-25, 4-8=34, 7-9=-1	1, 9-10=5			
	Vert: 10=-370	(B) 11=-589(B) 23=-523(B) 3		2=-522(B) 33=-539(B) 34=-562(B) 35=-584(B) 36=-58	9(B) 37=-589(B) 38=-589(B) 39=-36	54(B)
	Uniform Loads (plf)	MWFRS Wind (Neg. Internal)	Left: Lumbe	r Increase=1.60, Plate Increase=1.60		
		6, 3-4=-14, 4-8=-25, 26-28=-7 22, 3-26=-24, 4-8=15, 7-9=6, 5		0, 7-8=-20, 9-10=-67, 25-27=-71, 13-25=-20		
	Concentrated Loads (II	b)				
28)				2=-486(B) 33=-503(B) 34=-526(B) 35=-548(B) 36=-55 per Increase=1.60, Plate Increase=1.60	3(B) 37=-553(B) 38=-553(B) 39=-32	28(B)
	Uniform Loads (plf)	, ,	0			
		6, 3-26=-15, 4-8=24, 7-9=-22		0, 7-8=-20, 9-10=-67, 25-27=-71, 13-25=-20		
	Concentrated Loads (II Vert: 10=-329		1=-390(B) 3	2=-486(B) 33=-503(B) 34=-526(B) 35=-548(B) 36=-55	3(B) 37=-553(B) 38=-553(B) 39=-32	28(B)
	Reversal: Dead + 0.6 M			Lumber Increase=1.60, Plate Increase=1.60		(-)
	Uniform Loads (plf) Vert: 3-26=25	, 3-4=9, 4-8=9, 26-28=-13, 10)-11=-12, 7-8	3=-12, 9-10=-19, 25-27=-13, 13-25=-12		
	Horz: 27-28=6 Concentrated Loads (II	6, 3-26=-37, 4-8=21, 7-9=14, 5	9-10=5			
	Vert: 10=-370	(B) 11=-589(B) 23=-523(B) 3		2=-522(B) 33=-539(B) 34=-562(B) 35=-584(B) 36=-58	9(B) 37=-589(B) 38=-589(B) 39=-36	34(B)
	Reversal: Dead + 0.6 M Uniform Loads (plf)	MWERS Wind (Pos. Internal)	2nd Parallel	: Lumber Increase=1.60, Plate Increase=1.60		
		3-4=9, 4-8=25, 26-28=-13, 10 14, 3-26=-21, 4-8=37, 7-9=-6		3=-12, 9-10=-19, 25-27=-13, 13-25=-12		
	Concentrated Loads (II	b)				
31)				2=-522(B) 33=-539(B) 34=-562(B) 35=-584(B) 36=-589 Lumber Increase=1.60, Plate Increase=1.60	9(B) 37=-589(B) 38=-589(B) 39=-36	;4(В)
,	Uniform Loads (plf)		11-12-74			
		, 3-4=4, 4-8=4, 26-28=-13, 10 5, 3-26=-26, 4-8=16, 7-9=14, 5		3=-12, 9-10=-19, 25-27=-13, 13-25=-12		
	Concentrated Loads (II Vert: 10=-370		1=-404(B) 3	2=-522(B) 33=-539(B) 34=-562(B) 35=-584(B) 36=-58	9(B) 37=-589(B)	
00)	38=-589(B) 39	9=-364(B)	. ,		(_)(_)	
	Uniform Loads (plf)	WWFRS WIND (Pos. Internal)	4th Parallel:	Lumber Increase=1.60, Plate Increase=1.60		
		3-4=4, 4-8=14, 26-28=-13, 10 14. 3-26=-16. 4-8=26. 7-9=-6		3=-12, 9-10=-19, 25-27=-13, 13-25=-12		
	Concentrated Loads (II	b)	,			
	Vert: 10=-370 38=-589(B) 39		1=-410(B) 3	2=-522(B) 33=-539(B) 34=-562(B) 35=-584(B) 36=-589	9(B) 37=-589(B)	
	Reversal: Dead + 0.6 M Uniform Loads (plf)	MWFRS Wind (Neg. Internal)	1st Parallel:	Lumber Increase=1.60, Plate Increase=1.60		
	Vert: 3-26=-14			0, 7-8=-20, 9-10=-67, 25-27=-71, 13-25=-20		
	Horz: 27-28=1 Concentrated Loads (II	7, 3-26=-26, 4-8=10, 7-9=3, 9 b)	9-10=-5			
	Vert: 10=-329 38=-553(B) 39		1=-381(B) 3	2=-486(B) 33=-503(B) 34=-526(B) 35=-548(B) 36=-55	B(B) 37=-553(B)	
	Reversal: Dead + 0.6 M		2nd Paralle	: Lumber Increase=1.60, Plate Increase=1.60		
	Uniform Loads (plf) Vert: 3-26=-30), 3-4=-30, 4-8=-14, 26-28=-7	1, 10-11=-2	0, 7-8=-20, 9-10=-67, 25-27=-71, 13-25=-20		
	Horz: 27-28=-	3, 3-26=-10, 4-8=26, 7-9=-17		· · · · · · · · · · · · · · · · · · ·		
		(B) 11=-553(B) 23=-487(B) 3	1=-392(B) 3	2=-486(B) 33=-503(B) 34=-526(B) 35=-548(B) 36=-553	B(B) 37=-553(B)	
35)	38=-553(B) 39 Reversal: Dead + 0.75		WFRS Wind	d (Neg. Int) Left): Lumber Increase=1.60, Plate Increas	e=1.60	
	Uniform Loads (plf)					
		0, 3-4=-58, 4-8=-66, 26-28=-1 6, 3-26=-18, 4-8=11, 7-9=4,		20, 7-8=-20, 9-10=-103, 25-27=-143, 13-25=-20		
Cont	inued on page 5					
	A 1 0	parameters and READ NOTES ON T	HIS AND INCLU	IDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE U	SE.	

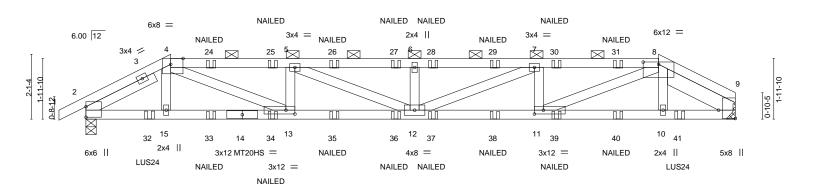


]	RELEASE FOR			
Job	Truss	Truss Type	CONSTRUCTION	Ply	Summit/19 Woodside	
300	TIUSS	Truss Type	AS NOTED ON PLANS REV		Summer a woodside	143853156
2552987	A04	Roof Specia	Girder DEVELOPMENT SERVICE			110000100
			LEE'S SUMMIT. MISSOU		Job Reference (optional)	
Builders First Source,	Valley Center, KS 67147		,	8.240 s	s Mar 9 2020 MiTek Industries, Inc. Fri Dec 4 09:07:13 20	
			ID:wH4RYhE: 12/16/2020	TNeUP2dXv	/Ofi1syQY8e-FYGUe76xylJPiJAvbzp2S1_L8VsM6VR8zqks	PuyCORS
LOAD CASE(S)			12/10/2020			
Concentrated Loa	ads (lb)					
		805(B) 31=-541(B) 32	2=-804(B) 33=-816(B) 34=-834(B) 35=-85	0(B) 36=-98	35(B) 37=-985(B) 38=-985(B) 39=-515(B)	
			I (Neg. Int) Right): Lumber Increase=1.60			
Uniform Loads (p	olf)	,				
Vert: 3-2	6=-66, 3-4=-58, 4-8=-60, 2	26-28=-143, 10-11=-2	20, 7-8=-20, 9-10=-103, 25-27=-143, 13-2	5=-20		
	-28=-4, 3-26=-11, 4-8=18,	7-9=-16, 9-10=-4				
Concentrated Loa	()					
					35(B) 37=-985(B) 38=-985(B) 39=-515(B)	
		75(0.6 MWFRS Wind	I (Neg. Int) 1st Parallel): Lumber Increase	=1.60, Plate	e Increase=1.60	
Uniform Loads (p			20, 7-8=-20, 9-10=-103, 25-27=-143, 13-2	5 20		
	-28=13, 3-26=-20, 4-8=8,		20, 7-8=-20, 9-10=-103, 25-27=-143, 13-2	5=-20		
Concentrated Loa	, , , ,	7-9=2, 9-10=-4				
		805(B) 31=-539(B) 32	2=-804(B) 33=-816(B) 34=-834(B) 35=-85	0(B) 36=-98	35(B) 37=-985(B) 38=-985(B) 39=-515(B)	
			I (Neg. Int) 2nd Parallel): Lumber Increas			
Uniform Loads (p			. (
u u	,	26-28=-143, 10-11=-2	20, 7-8=-20, 9-10=-103, 25-27=-143, 13-2	5=-20		
Horz: 27	-28=-2, 3-26=-8, 4-8=20, 7	7-9=-13, 9-10=-4				
Concentrated Loa	ads (lb)					
				0(B) 36=-98	35(B) 37=-985(B) 38=-985(B) 39=-515(B)	
		eft: Lumber Increase	=1.60, Plate Increase=1.60			
Uniform Loads (p						
		26-28=-24, 10-11=-12	2, 7-8=-12, 9-10=-24, 25-27=-24, 13-25=-	12		
Concentrated Loa	-28=16, 3-26=3					
		167(B) 31358(B) 32		8(B) 3653	34(B) 37=-534(B) 38=-534(B) 39=-329(B)	
			e=1.60, Plate Increase=1.60	0(D) 30=-33	H(D) 37 = -334(D) 30 = -334(D) 39 = -329(D)	
Uniform Loads (p		again Earlison moreas				
		26-28=-24, 10-11=-12	2, 7-8=-12, 9-10=-24, 25-27=-24, 13-25=-	12		
	8=-3, 7-9=-16	, -				
Concentrated Loa	ads (lb)					
Vert: 10=	=-333(B) 11=-534(B) 23=-4	467(B) 31=-356(B) 32	2=-466(B) 33=-483(B) 34=-506(B) 35=-52	8(B) 36=-53	34(B) 37=-534(B) 38=-534(B) 39=-329(B)	





Scale = 1:37.4



<u> </u>	6-7-10 3-10-10	10-8-0 4-0-6	14-8-6 4-0-6	18-7-0 3-10-10	21-0-14 2-5-14				
Plate Offsets (X,Y) [4:0-4-	13,Edge], [8:0-6-0,0-0-15], [9:Edg	e,0-6-8], [11:0-3-8,0-1-8], [13:0-3-8,0-1-8]						
TCLL 25.0 TCDL 20.0 BCLL 0.0 *	SPACING-2-0-0Plate Grip DOL1.15Lumber DOL1.15Rep Stress IncrNOCode IRC2018/TPI2014	CSI. TC 0.75 BC 0.93 WB 0.65 Matrix-MS	DEFL. in (loc) //def Vert(LL) -0.25 12 >999 Vert(CT) -0.56 12 >454 Horz(CT) 0.07 9 n/a	240 I 180 I n/a	PLATES GRIP MT20 197/144 MT20HS 148/108 Weight: 84 lb FT = 20%				
LUMBER- BRACING- TOP CHORD 2x4 SPF No.2 *Except* TOP CHORD 4-8: 2x4 SPF 1650F 1.5E TOP CHORD Structural wood sheathing directly applied or 2-9-3 oc purlins, except BOT CHORD 2x4 SPF 1650F 1.5E BOT CHORD Structural wood sheathing directly applied or 7-5-6 oc bracing. WEBS 2x4 SPF No.2 SLIDER Left 2x4 SPF No.2 2-6-0, Right 2x6 SPF No.2 2-6-13 BOT CHORD									
Max Horz 2= Max Uplift 9=	Mechanical, 2=0-4-0 :36(LC 29) :-564(LC 9), 2=-572(LC 8) :1753(LC 1), 2=1820(LC 1)								
	/Max. Ten All forces 250 (lb) or 322, 4-5=-4797/948, 5-6=-5521/10		4687/912,						
	2421, 13-15=-698/2412, 12-13=-93	36/4793, 11-12=-889/4683,	10-11=-630/2283,						
	892, 4-13=-275/2629, 5-13=-891/1 925, 7-11=-921/206, 8-11=-294/26		481/141,						
 2) Wind: ASCE 7-16; Vult=11: MWFRS (envelope) gable of grip DOL=1.60 3) Provide adequate drainage 4) All plates are MT20 plates 5) This truss has been design 6) * This truss has been design will fit between the bottom of Refer to girder(s) for truss 1 8) Provide mechanical connect 9=564, 2=572. 9) This truss is designed in ac referenced standard ANSI/ 10) Graphical purlin represent 11) Use Simpson Strong-Tie I starting at 2-0-12 from the 2) Fill all nail holes where ha 13) "NAILED" indicates 3-10d 	end zone; cantilever left and right to prevent water ponding. unless otherwise indicated. ed for a 10.0 psf bottom chord live ned for a live load of 20.0psf on the chord and any other members. to truss connections. ction (by others) of truss to bearing coordance with the 2018 Internation TPI 1.	ph; TCDL=6.0psf; BCDL=6 exposed ; end vertical left e load nonconcurrent with a ne bottom chord in all area g plate capable of withstan anal Residential Code secti he orientation of the purlin 212 Truss, Single Ply Girde s(es) to front face of bottor 5") toe-nails per NDS guidii	s where a rectangle 3-6-0 tall by 2-0-0 ding 100 lb uplift at joint(s) except (jt= ons R502.11.1 and R802.10.2 and along the top and/or bottom chord. r) or equivalent spaced at 17-2-8 oc n n chord.	plate wide lb)	SCOTT M. SEVIER DECEMBER PE-2001018807 December 4,2020				
WARNING - Verify design pa Design valid for use only with 1 a truss system. Before use, the building design. Bracing indica is always required for stability i fabrication, storage, delivery, e	MiTek® connectors. This design is based o e building designer must verify the applicab	nly upon parameters shown, and i ility of design parameters and proj s web and/or chord members only inal injury and property damage. If stems, see ANSI/TPI1 O	perly incorporate this design into the overall . Additional temporary and permanent bracing For general guidance regarding the uuality Criteria, DSB-89 and BCSI Building Cc	mponent	NITEK 16023 Swingley Ridge Rd Chesterfield, MO 63017				

			RELEASE FOR	
Job	Truss	Truss Type		Summit/19 Woodside
2552987	B01	Hip Girder	AS NOTED ON PLANS REVIEW	143853157
2002007	Bor		DEVELOPMENT SERVICES	Job Reference (optional)
Builders FirstSour	ce (Valley Center), Val	lley Center, KS - 67147,	LEE'S SUMMIT, MISSOURI8.240 s N	lar 9 2020 MiTek Industries, Inc. Thu Dec 3 12:44:15 2020 Page 2
			ID:wH4RYhEsTNeUP2dX	vOfi1syQY8e-fyOjY_IAYi1JBZs9MnDHZrucSO3kWyoXjfo0z?yCgM_
LOAD CASE(S)	Standard		12/16/2020	
()		crease=1.15, Plate Increase	=1.15	

Uniform Loads (plf) Vert: 1-4=-90, 4-8=-90, 8-9=-90, 16-20=-20

Concentrated Loads (lb)

Vert: 24=-57(F) 25=-57(F) 26=-57(F) 27=-57(F) 28=-57(F) 29=-57(F) 30=-57(F) 31=-57(F) 32=-197(F) 33=-41(F) 34=-41(F) 35=-41(F) 36=-41(F) 37=-41(F) 36=-41(F) 38=-41(F) 39=-41(F) 40=-41(F) 41=-197(F)

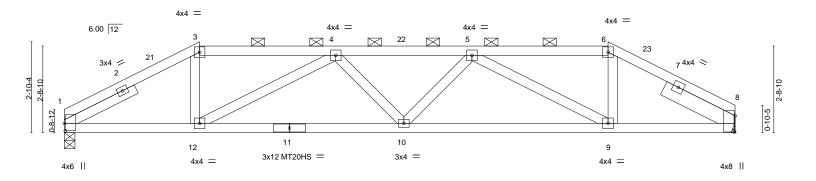


			RELEASE FOR				
Job	Truss	Truss Type	CONSTRUCTION	Ply	Summit/19 Woodside		
2552987	B02	Hip	AS NOTED ON PLANS REVIE	EW 1			143853158
2002001	502	l lib	DEVELOPMENT SERVICES		Job Reference (optional)		
Builders FirstSource (Va	alley Center), Val	ley Center, KS - 67147,	LEE'S SUMMIT, MISSOUR	8.240 s M	ar 92020 MiTek Industrie	s, Inc. Thu Dec 3 12:44:16 20	20 Page 1
			ID:wH4RYhEsTNe	UP2dXvO	i1syQY8e-79y6lKJoJ09Ac	ojQLwVkW62QrDnS3FR_hyJXa	aURyCgLz
L	4-3-0	8-6-5	12/16/2020		17-1-0	21-0-14	
	4-3-0	4-3-5	4-3-5	1	4-3-5	3-11-14	

Scale = 1:36.2

December 4,2020

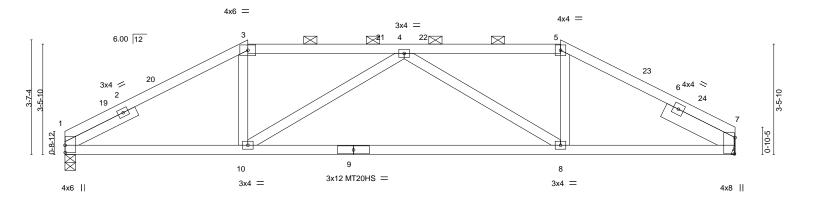
16023 Swingley Ridge Rd Chesterfield, MO 63017



4-3-0 4-3-0	10-8-0 6-5-0	<u>17-1-0</u> 6-5-0	21-0-14 3-11-14							
Plate Offsets (X,Y) [1:0-2-12,0-0-5], [8:0-6-2,0-0-4]										
LOADING (psf) SPACING- 2-0-0 TCLL 25.0 Plate Grip DOL 1.15 TCDL 20.0 Lumber DOL 1.15 BCLL 0.0 * Rep Stress Incr YES BCDL 10.0 Code IRC2018/TPI2014	TC 0.49 Ve BC 0.66 Ve	EFL. in (loc) l/defl L/ rtt(LL) -0.10 10 >999 24 rtt(CT) -0.24 9-10 >999 18 orz(CT) 0.07 8 n/a n/	0 MT20 197/144 0 MT20HS 148/108							
LUMBER- TOP CHORD 2x4 SPF No.2 BOT CHORD 2x4 SPF No.2 WEBS 2x4 SPF No.2 SLIDER Left 2x4 SPF No.2 2-6-0, Right 2x6 SPF No.2 2	TC BC	ACING- P CHORD Structural wood shea 2-0-0 oc purlins (3-6- DT CHORD Rigid ceiling directly a								
REACTIONS. (size) 1=0-4-0, 8=Mechanical Max Horz 1=35(LC 12) Max Uplift 1=-90(LC 12), 8=-88(LC 13) Max Grav 1=1159(LC 1), 8=1159(LC 1)										
FORCES. (lb) - Max. Comp./Max. Ten All forces 250 (lb) or less except when shown. TOP CHORD 1-3=-1829/168, 3-4=-1569/172, 4-5=-2519/211, 5-6=-1481/166, 6-8=-1747/164 BOT CHORD 1-12=-119/1599, 10-12=-234/2462, 9-10=-223/2438, 8-9=-97/1512 WEBS 3-12=-5/565, 4-12=-1081/163, 5-9=-1145/166, 6-9=-6/579										
 NOTES- 1) Unbalanced roof live loads have been considered for this des 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mp MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-1 Interior(1) 8-6-5 to 17-1-0, Exterior(2E) 17-1-0 to 21-0-14 zor exposed;C-C for members and forces & MWFRS for reaction 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 (6) * This truss has been designed for a live load of 20.0psf on the will fit between the bottom chord and any other members. 7) Refer to girder(s) for truss to truss connections. 8) Provide mechanical connection (by others) of truss to bearing 9) This truss is design equires that a minimum of 7/16" structure sheetrock be applied directly to the bottom chord. 11) Graphical purlin representation does not depict the size or to 	ph; TCDL=6.0psf; BCDL=6.0psf; H 0-0 to 3-0-0, Interior(1) 3-0-0 to 4- ne; cantilever left and right expose is shown; Lumber DOL=1.60 plate e load nonconcurrent with any oth he bottom chord in all areas where g plate capable of withstanding 10 nal Residential Code sections R5 al wood sheathing be applied direct	3-0, Exterior(2R) 4-3-0 to 8-6-5, d; end vertical left and right grip DOL=1.60 er live loads. a rectangle 3-6-0 tall by 2-0-0 wide 0 lb uplift at joint(s) 1, 8. 02.11.1 and R802.10.2 and tty to the top chord and 1/2" gypsum	STATE OF MISSOL SCOTT M. SEVIER NUMBER PE-2001018807 FSSIONAL ENGINE							

				RELEASE FOR			
Job	Truss	Truss Type	(CONSTRUCTION	N Ply	Summit/19 Woodside	
2552987	B03	Hip	AS N	OTED ON PLANS R	EVIEW 1		I43853159
2332301	200	Tilp		ELOPMENT SERV		Job Reference (optional)	
Builders FirstSource (Va	lley Center),	Valley Center, KS - 67147,	LE	E'S SUMMIT, MISSO	DURI 8.240 s M	lar 9 2020 MiTek Industries, Inc. Thu Dec 3 12:44:17 202	20 Page 1
						dfi1syQY8e-bLWUygKR4JH1Qt?XTCFIfGz?7Ble_wCqBzF	
L	5-9-0		10-8-0	12/16/2020	15-7-0	21-0-14	
	5-9-0		4-11-0	12/10/2020	4-11-0	5-5-14	
							Casta 4:20.0

Scale = 1:36.2



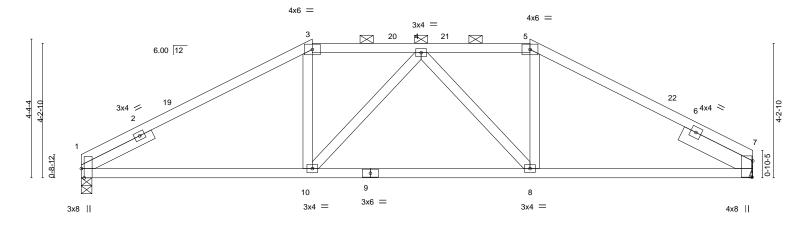
<u>5-9-0</u> 5-9-0		<u>15-7-0</u> 9-10-0		21-0-14 5-5-14						
Plate Offsets (X,Y) [1:0-2-12,0-0-1], [7:0-6-	2,0-0-4]									
LOADING (psf)SPACING-TCLL25.0Plate Grip DOLTCDL20.0Lumber DOLBCLL0.0 *Rep Stress IncrBCDL10.0Code IRC2018/	2-0-0 CSI. 1.15 TC 0.54 1.15 BC 0.83 YES WB 0.40 TPI2014 Matrix-AS	DEFL. ir Vert(LL) -0.26 Vert(CT) -0.59 Horz(CT) 0.07	8-10 >956 240 8-10 >428 180	PLATES MT20 MT20HS Weight: 77 lb	GRIP 197/144 148/108 FT = 20%					
LUMBER- TOP CHORD 2x4 SPF No.2 BOT CHORD 2x4 SPF No.2 WEBS 2x4 SPF No.2 SLIDER Left 2x4 SPF No.2 2-6-0, Righ	2x6 SPF No.2 2-6-0	BRACING- TOP CHORD BOT CHORD	Structural wood sheathi 2-0-0 oc purlins (4-4-5 n Rigid ceiling directly app	,						
REACTIONS. (size) 1=0-4-0, 7=Mechar Max Horz 1=46(LC 12) Max Uplift 1=-89(LC 12), 7=-8 Max Grav 1=1159(LC 1), 7=1	7(LC 13)									
FORCES. (lb) - Max. Comp./Max. Ten All f TOP CHORD 1-3=-1817/155, 3-4=-1552/10 BOT CHORD 1-10=-88/1568, 8-10=-160/11 WEBS 3-10=0/464, 4-10=-568/154,	9, 4-5=-1492/165, 5-7=-1762/152 946, 7-8=-74/1509	ι.								
 Wind: ASCE 7-16; Vult=115mph (3-second MWFRS (envelope) gable end zone and C- Interior(1) 9-11-15 to 15-7-0, Exterior(2R) 15 	 Unbalanced roof live loads have been considered for this design. Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=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 5-9-0, Exterior(2R) 5-9-0 to 9-11-15, Interior(1) 9-11-15 to 15-7-0, Exterior(2R) 15-7-0 to 19-9-15, Interior(1) 19-9-15 to 21-0-14 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60 									
 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) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members. 7) Refer to girder(s) for truss to truss connections. 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 7. 9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and 										
 a) This trues 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. a) This trues 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. b) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord. c) PE-2001018807 										

December 4,2020





Scale = 1:36.2



	7-3-0 7-3-0		<u>14-1-0</u> 6-10-0	<u> </u>	
Plate Offsets (X,Y)	[1:0-3-8,Edge], [7:0-6-2,0-0-4]		0-10-0	0-11-14	
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/det	I L/d PLATES GRI	Р
TCLL 25.0	Plate Grip DOL 1.15	TC 0.56	Vert(LL) -0.07 8-10 >999	9 240 MT20 197/	144
TCDL 20.0	Lumber DOL 1.15	BC 0.49	Vert(CT) -0.15 8-10 >999	9 180	
BCLL 0.0 *	Rep Stress Incr YES	WB 0.18	Horz(CT) 0.05 7 n/a	a n/a	
BCDL 10.0	Code IRC2018/TPI2014	Matrix-AS		Weight: 78 lb F	T = 20%

LUMBER-		BRACING-	
TOP CHORD	2x4 SPF No.2	TOP CHORD	Structural wood sheathing directly applied, except
BOT CHORD	2x4 SPF No.2		2-0-0 oc purlins (4-7-12 max.): 3-5.
WEBS	2x4 SPF No.2	BOT CHORD	Rigid ceiling directly applied.
SLIDER	Left 2x4 SPF No.2 2-6-0, Right 2x6 SPF No.2 2-6-0		

REACTIONS. (size) 1=0-4-0, 7=Mechanical Max Horz 1=58(LC 12) Max Uplift 1=-87(LC 12), 7=-85(LC 13) Max Grav 1=1159(LC 1), 7=1159(LC 1)

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

1-3=-1669/174, 3-4=-1445/199, 4-5=-1402/196, 5-7=-1668/172 TOP CHORD

BOT CHORD

1-10=-87/1453, 8-10=-103/1554, 7-8=-78/1411

WEBS 3-10=0/356, 4-10=-307/95, 4-8=-359/94, 5-8=0/373

NOTES-

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

2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=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 7-3-0, Exterior(2R) 7-3-0 to 11-5-15, Interior(1) 11-5-15 to 14-1-0, Exterior(2R) 14-1-0 to 18-3-15, Interior(1) 18-3-15 to 21-0-14 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOI = 1.60

3) Provide adequate drainage to prevent water ponding.

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

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

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

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

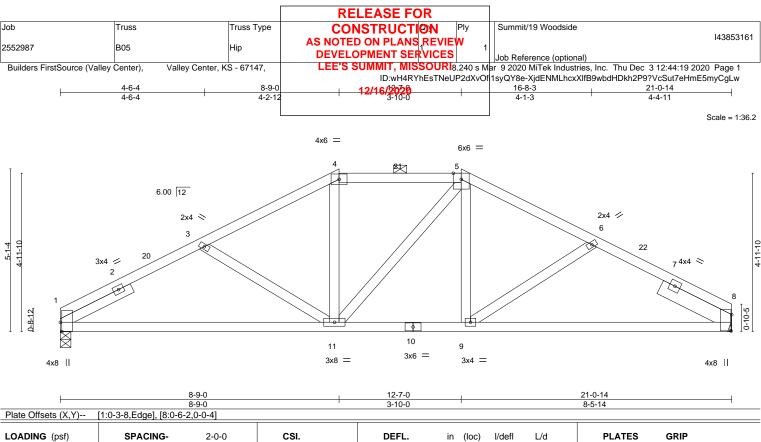
8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

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.







LOADING (psf) TCLL 25.0 TCDL 20.0 BCLL 0.0 * BCDL 10.0	SPACING-2-0-0Plate Grip DOL1.15Lumber DOL1.15Rep Stress IncrYESCode IRC2018/TPI2014	CSI. TC 0.32 BC 0.61 WB 0.13 Matrix-AS	Vert(LL) -0.10	(loc) l/defl L/d 11-14 >999 240 11-14 >999 180 8 n/a n/a	PLATES MT20 Weight: 86 lb	GRIP 197/144 FT = 20%
BOT CHORD 2x4 SI	PF No.2 PF No.2		BRACING- TOP CHORD	Structural wood sheathing dir 2-0-0 oc purlins (5-0-13 max.)		

	EXTOT THOSE		Chaotaran Wood Choatining anootiy applied, c
BOT CHORD	2x4 SPF No.2		2-0-0 oc purlins (5-0-13 max.): 4-5.
WEBS	2x4 SPF No.2	BOT CHORD	Rigid ceiling directly applied.
SLIDER	Left 2x4 SPF No.2 2-6-0, Right 2x6 SPF No.2 2-6-0		

REACTIONS. (size) 1=0-4-0, 8=Mechanical Max Horz 1=71(LC 12) Max Uplift 1=-84(LC 12), 8=-82(LC 13) Max Grav 1=1159(LC 1), 8=1159(LC 1)

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

- TOP CHORD 1-3=-1773/213, 3-4=-1522/182, 4-5=-1288/195, 5-6=-1480/181, 6-8=-1701/204
- BOT CHORD 1-11=-164/1543. 9-11=-56/1273. 8-9=-130/1462

WEBS 3-11=-309/134, 4-11=0/301, 5-9=-0/273

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=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 8-9-0, Exterior(2E) 8-9-0 to 12-7-0, Exterior(2R) 12-7-0 to 16-9-14, Interior(1) 16-9-14 to 21-0-14 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.

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

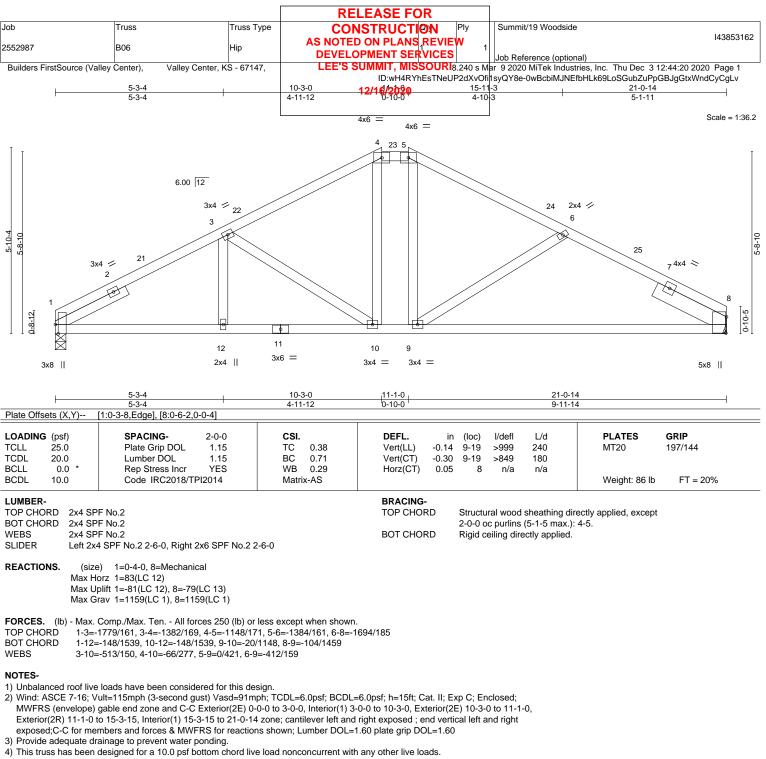
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.

- 6) Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 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.







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

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

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

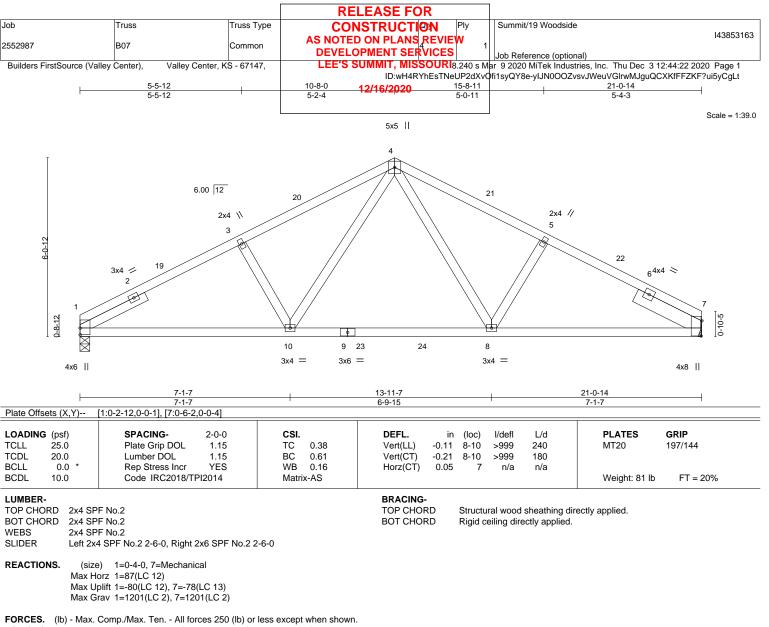
9) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

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



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TOP CHORD 1-3=-1825/229, 3-4=-1695/252, 4-5=-1629/244, 5-7=-1760/225

BOT CHORD 1-10=-153/1584, 8-10=-48/1119, 7-8=-134/1513

WEBS 3-10=-392/167, 4-10=-78/634, 4-8=-68/566, 5-8=-351/160

NOTES-

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

2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-0-0 to 3-0-0, Interior(1) 3-0-0 to 10-8-0, Exterior(2R) 10-8-0 to 13-8-0, Interior(1) 13-8-0 to 21-0-14 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

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

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

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

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

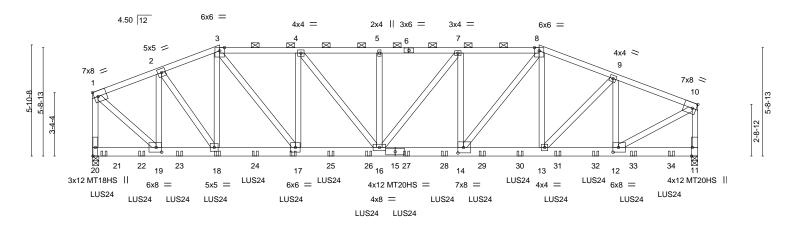
8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



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 designe. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601 16023 Swingley Ridge Rd Chesterfield, MO 63017







H	<u>3-6-1 6-8-11</u> 3-6-1 3-2-9	<u> </u>		19-5-9	23-7-5	27-7-15	32-0-0	
Plate Offsets (X,Y)			3-8,0-3-0], [14:0-3-8,0-3-8					
LOADING (psf) TCLL 25.0 TCDL 20.0 BCLL 0.0 * BCDL 10.0	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr Code IRC2018/TF	2-0-0 1.15 1.15 NO Pl2014	CSI. TC 0.73 BC 0.42 WB 0.91 Matrix-MS	()	in (loc) l/defl -0.18 14-16 >999 -0.40 14-16 >949 0.07 11 n/a	L/d 240 180 n/a	PLATES MT20 MT20HS MT18HS Weight: 411 lb	GRIP 197/144 148/108 197/144 FT = 20%
	2F No.2 2 2400F 2.0E 2F No.2			BRACING- TOP CHORI BOT CHORI	except end ve	rticals, and 2-0-0	ectly applied or 3-10-) oc purlins (3-3-3 m · 10-0-0 oc bracing.	· · · · · · · · · · · · · · · · · · ·
Max H Max U	e) 20=0-4-0, 11=0-4-0 orz 20=-85(LC 6) plift 20=-828(LC 4), 11=- rav 20=7000(LC 1), 11=6							
FORCES. (lb) - Max. Comp./Max. Ten All forces 250 (lb) or less except when shown. TOP CHORD 1-2=-5248/639, 2-3=-7102/872, 3-4=-9333/1074, 4-5=-10501/1119, 5-7=-10501/1119, 7-8=-10142/1051, 8-9=-8646/907, 9-10=-7103/739, 1-20=-6298/771, 10-11=-6358/675 BOT CHORD 18-19=-568/4862, 17-18=-761/6687, 16-17=-1006/9329, 14-16=-983/10138, 13-14=-802/8081, 12-13=-695/6588 WEBS 2-19=-3311/414, 2-18=-328/3103, 3-18=-1315/86, 3-17=-404/4389, 4-17=-2029/185, 4-16=-106/1917, 5-16=-378/103, 7-16=-172/648, 7-14=-1048/228, 8-14=-318/3453, 9-13=-167/2204, 9-12=-2315/258, 1-19=-775/6455, 10-12=-760/7448								
 Top chords connectt Bottom chords conn Webs connected as 2) All loads are conside ply connections have 3) Unbalanced roof live 4) Wind: ASCE 7-16; V MWFRS (envelope) grip DOL=1.60 5) Provide adequate dr 6) All plates are MT20 7) This truss has been 8) * This truss has been 8) * This truss has been 9) Provide mechanical 20=828, 11=723. 10) This truss is design referenced standar 11) Graphical purlin ref 12) Use Simpson Stror 	e been provided to distrib loads have been conside (ult=115mph (3-second g gable end zone; cantileve rainage to prevent water p plates unless otherwise ir designed for a 10.0 pst n designed for a live load oottom chord and any othe connection (by others) of med in accordance with the d ANSI/TPI 1. presentation does not dep	at 0-4-0 oc. rows staggered 9-0 oc. plies, except if ute only loads r ered for this des ust) Vasd=91 m er left and right bonding. ndicated. ottom chord live of 20.0psf on th ar members. truss to bearing e 2018 Internatio bict the size or t ler, 2-10d Truss	at 0-9-0 oc. noted as front (F) or back loted as (F) or (B), unless sign. bh; TCDL=6.0psf; BCDL= exposed ; end vertical left e load nonconcurrent with he bottom chord in all area g plate capable of withstar onal Residential Code se he orientation of the purlir b, Single Ply Girder) or equ	otherwise indicate 6.0psf; h=15ft; Car and right exposed any other live load as where a rectang nding 100 lb uplift ctions R502.11.1 a n along the top and	ed. t. II; Exp C; Enclosed d; Lumber DOL=1.60 ds. gle 3-6-0 tall by 2-0-0 at joint(s) except (jt=l and R802.10.2 and d/or bottom chord.	plate wide	PE-20	EVIER DIT M. EVIER DINBER DI DI D
Design valid for use of a truss system. Before building design. Braci is always required for fabrication, storage, d	nly with MiTek® connectors. Thi e use, the building designer mus- ing indicated is to prevent bucklin stability and to prevent collapse elivery, erection and bracing of t	s design is based or t verify the applicab ng of individual trust with possible perso russes and truss sy	INCLUDED MITEK REFERENCE Inly upon parameters shown, and lity of design parameters and pro s web and/or chord members on nal injury and property damage. stems, see ANSI/TPI1 way, Suite 203 Waldorf, MD 206	l is for an individual buil operly incorporate this (ly. Additional temporar For general guidance Quality Criteria, DSB-	lding component, not design into the overall y and permanent bracing	nponent	MiTek 16023 Swing Chesterfield,	ley Ridge Rd MO 63017

			RELEASE FOR	
Job	Truss	Truss Type		Summit/19 Woodside
2552987	C01	HIP GIRDER	AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES 2	I43853164 Job Reference (optional)
Builders FirstSource	ce (Valley Center),	Valley Center, KS - 67147,	LEE'S SUMMIT, MISSOURI8.240 s M	lar 9 2020 MiTek Industries, Inc. Thu Dec 3 12:44:24 2020 Page 2
			ID:wH4RYhEsTNeUP2dXvC	fi1syQY8e-uhR7Q3PqQT91my2tOAtORkl8U0Fo7zusoZU?mzyCgLr
NOTES-			12/16/2020	

13) Use Simpson Strong-Tie LUS24 (4-10d Girder, 2-10d Truss, Single Ply Girder) or equivalent spaced at 2-0-0 oc max. starting at 8-7-4 from the left end to 30-7-4 to

connect truss(es) to front face of bottom chord. 14) Fill all nail holes where hanger is in contact with lumber.

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LOAD CASE(S) Standard

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

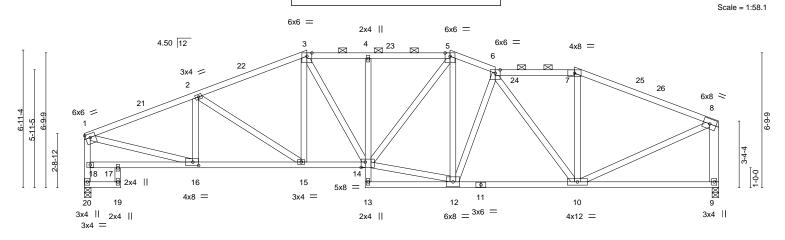
Uniform Loads (plf) Vert: 1-3=-90, 3-8=-90, 8-10=-90, 11-20=-20

Concentrated Loads (lb)

Vert: 18=-609(F) 17=-609(F) 21=-615(F) 22=-609(F) 23=-609(F) 24=-609(F) 25=-609(F) 26=-724(F) 27=-724(F) 28=-724(F) 29=-724(F) 30=-724(F) 31=-645(F) 32=-645(F) 33=-645(F) 33=-645(F) 34=-645(F) 33=-645(F) 33=-6



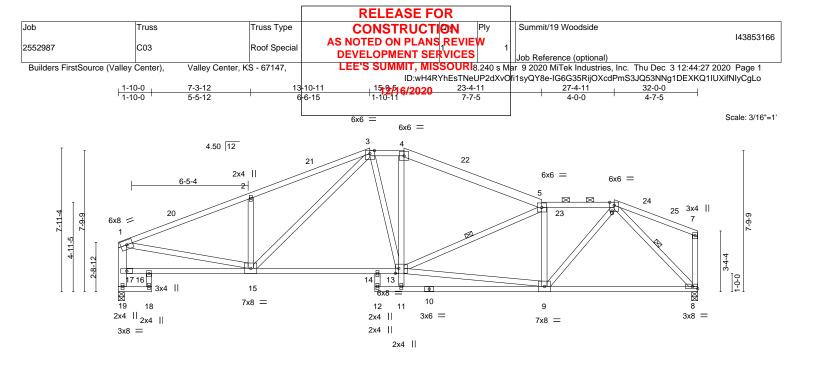




<u> 1-10</u> 1-10		2-11-5	18-5-5 4-3-5	20-8-11	24-8-11	<u>32-0-0</u> 7-3-5	
	[1:0-2-12,0-2-4], [14:0-2-8,0-3-4], [16:0-		4-3-5	2-3-5	4-0-0	7-3-3	
LOADING (psf) TCLL 25.0 TCDL 20.0 BCLL 0.0 BCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2018/TPI2014	CSI. TC 0.79 BC 0.58 WB 0.71 Matrix-AS	DEFL. Vert(LL) Vert(CT) Horz(CT)	in (loc) -0.11 4 -0.24 4 0.10 9	l/defl L/d >999 240 >999 180 n/a n/a	PLATES MT20 Weight: 170 lb	GRIP 197/144 FT = 20%
WEBS 2x4 SF	PF No.2 PF No.2 PF No.2 *Except* k6 SPF No.2		BRACING- TOP CHOF BOT CHOF	RD Structu 2-0-0 c	ural wood sheathing di oc purlins (3-4-14 max ceiling directly applied.		end verticals, and
Max H Max U	e) 20=0-4-0, 9=0-4-0 Horz 20=80(LC 11) Jplift 20=-141(LC 8), 9=-162(LC 9) Grav 20=1739(LC 1), 9=1739(LC 1)						
TOP CHORD 1-2=: 6-7= BOT CHORD 16-1 WEBS 3-14:	Comp./Max. Ten All forces 250 (lb) or -2537/260, 2-3=-2522/281, 3-4=-2478/30 -1700/215, 7-8=-1924/192, 18-20=-1705 7=-149/255, 15-16=-283/2301, 14-15=-2 =-78/537, 12-14=-209/1992, 5-14=-80/72 =-144/1740, 2-16=-494/131, 1-16=-164/2	05, 4-5=-2474/306, 5-6=-2 /158, 1-18=-1665/164, 8-9 36/2278, 4-14=-413/102, 7 27, 6-12=-358/117, 6-10=-	242/266, 9=-1669/200 10-12=-227/2187				
 2) Wind: ASCE 7-16; MWFRS (envelope) 14-3-12, Interior(1) 1-14-3-12, Interior(1) 1-14-3-11 the MWFRS for react 3) Provide adequate d 4) This truss has been will fit between the b 6) Provide mechanical 20=141, 9=162. 7) This truss is design referenced standard 8) This truss design resheetrock be applie 	e loads have been considered for this de /ult=115mph (3-second gust) Vasd=91m gable end zone and C-C Exterior(2E) 0 14-3-12 to 18-5-5, Exterior(2E) 18-5-5 to o 31-9-4 zone; cantilever left and right ez ions shown; Lumber DOL=1.60 plate grip rainage to prevent water ponding. designed for a 10.0 psf bottom chord liv en designed for a live load of 20.0psf on 1 bottom chord and any other members. I connection (by others) of truss to bearin ed in accordance with the 2018 Internation d ANSI/TPI 1. quires that a minimum of 7/16" structura d directly to the bottom chord. resentation does not depict the size or th	IPh; TCDL=6.0psf; BCDL= -1-12 to 3-1-12, Interior(1) 20-8-11, Interior(1) 20-8- cposed ; end vertical left ar p DOL=1.60 e load nonconcurrent with the bottom chord in all area ag plate capable of withsta onal Residential Code sec I wood sheathing be applie	3-1-12 to 11-2-1 11 to 24-8-11, Exi any other live loa as where a rectar nding 100 lb uplif tions R502.11.1 a	I, Exterior(2R) erior(2R) 24-8- C-C for member ads. gle 3-6-0 tall b t at joint(s) exce and R802.10.2 op chord and 1	11-2-11 to -11 to 27-8-11, ers and forces by 2-0-0 wide ept (jt=lb) and 1/2" gypsum	NU PE-20	MISSOLA DTT M. EVIER MBER 01018807







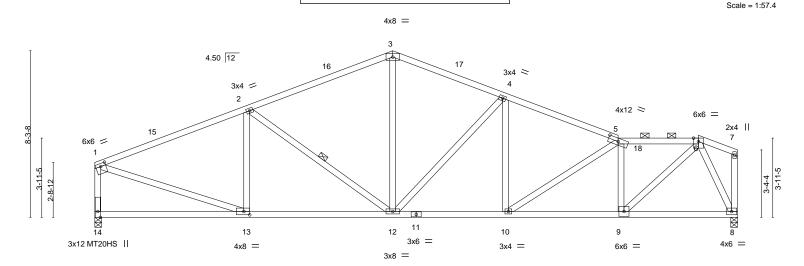
	1-10-0 7-3-12	14-2-0	15-9-5 23-4	-11	27-4-11	32-0-0	
	1-10-0 5-5-12		1-7-5 7-7		4-0-0	4-7-5	
Plate Offsets (X,Y)	[13:0-2-4,0-3-4]						
LOADING (psf) TCLL 25.0 TCDL 20.0 BCLL 0.0 * BCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2018/TPI2014	CSI. TC 0.64 BC 0.61 WB 0.57 Matrix-AS	Vert(LL) -0.12	14-15 >999	L/d 240 180 n/a	PLATES MT20 Weight: 168 lb	GRIP 197/144 FT = 20%
4-5: 2x BOT CHORD 2x4 SF WEBS 2x4 SF	PF No.2 *Except* 46 SPF No.2 PF No.2 PF No.2 *Except* 2x6 SPF No.2		BRACING- TOP CHORD BOT CHORD WEBS		(3-6-13 max.): 3 ectly applied.	tly applied, except (-4, 5-6. 3, 6-8	end verticals, and
Max H Max U	te) 19=0-4-0, 8=0-4-0 Horz 19=69(LC 11) Jplift 19=-122(LC 8), 8=-146(LC 9) Grav 19=1739(LC 1), 8=1739(LC 1)						
TOP CHORD 1-2= 17-19 BOT CHORD 16-11 WEBS 1-15 6-9=	Comp./Max. Ten All forces 250 (lb) or -2680/247, 2-3=-2663/326, 3-4=-2153/27 9=-1680/143, 1-17=-1651/162 7=-124/418, 15-16=-168/362, 14-15=-197 =-180/2162, 2-15=-642/221, 11-13=0/375 -70/1443, 3-15=-154/561, 9-13=-229/231 -1979/211	0, 4-5=-2391/258, 5-6=-2 7/2078, 13-14=-197/2078, 5, 4-13=-10/364, 5-9=-125	2323/215, , 8-9=-165/1420 52/187,				
 Wind: ASCE 7-16; MWFRS (envelope) 15-9-5, Exterior(2R) zone; cantilever left shown; Lumber DOI Provide adequate d This truss has been will fit between the t Provide mechanical 19=122, 8=146. This truss is designer referenced standard This truss design re 	e loads have been considered for this des Vult=115mph (3-second gust) Vasd=91m) gable end zone and C-C Exterior(2E) 0-) 15-9-5 to 18-9-5, Interior(1) 18-9-5 to 27 and right exposed; end vertical left and I L=1.60 plate grip DOL=1.60 I designed for a 10.0 psf bottom chord live en designed for a live load of 20.0psf on th bottom chord and any other members. I connection (by others) of truss to bearing ed in accordance with the 2018 Internatio d ANSI/TPI 1. requires that a minimum of 7/16" structural d directly to the bottom chord.	oh; TCDL=6.0psf; BCDL= 2-12 to 3-2-12, Interior(1) -4-11, Exterior(2R) 27-4- right exposed;C-C for me e load nonconcurrent with the bottom chord in all are g plate capable of withsta nal Residential Code sec	3-2-12 to 13-10-11, Ex 11 to 30-4-11, Interior(1 mbers and forces & MW an any other live loads. was where a rectangle 3- anding 100 lb uplift at join stions R502.11.1 and R8	erior(2E) 13-10-1) 30-4-11 to 31-10 (FRS for reactions 6-0 tall by 2-0-0 w ht(s) except (jt=lb) 02.10.2 and	ide	Sco SE	MISSOLIA TT M. VIER

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

				RELEASE FOR				
Job	Truss	Truss Type		CONSTRUCTION	Ply	Summit/19 Woodside		
2552987	C04	Roof Special		NOTED ON PLANS REVIE	1 1	Job Reference (optional)		143853167
Builders FirstSourc	ce (Valley Center), Valley Center	, KS - 67147,	L	EE'S SUMMIT, MISSOURI		ar 9 2020 MiTek Industries, I		
F	7-6-12	-	14-10-0	12/16/2020 ²⁰⁻⁵⁻⁵		fi1syQY8e-nSgeGRSKUifTE 26-0-11	30-0-11	32-0-0
1	7-6-12		7-3-4	5-7-5		5-7-5	4-0-0	' 1-11-5 '



1	7-6-12	14-10-0	20-5-5	26-0-11	30-0-11	32-0-0		
Г	7-6-12	7-3-4	5-7-5	5-7-5	4-0-0	1-11-5		
Plate Offsets (X,Y) [1:0-3-0,0-1-12], [5:0-6-0,0-1-15], [13:0-3-8,0-2-0]								

LUMBER-						BRACING						
BCDL	10.0	Code IRC2018/TPI	12014	Matri	x-AS						Weight: 151 lb	FT = 20%
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.84	Horz(CT)	0.07	8	n/a	n/a		
TCDL	20.0	Lumber DOL	1.15	BC	0.59	Vert(CT)	-0.23 1	2-13	>999	180	MT20HS	148/108
TCLL	25.0	Plate Grip DOL	1.15	TC	0.74	Vert(LL)	-0.10	10	>999	240	MT20	197/144
LOADING	(psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP

LUMBER-		BRACING-		
TOP CHORD	2x4 SPF No.2	TOP CHORD	Structural wood sheathing	directly applied, except end verticals, and
BOT CHORD	2x4 SPF No.2		2-0-0 oc purlins (3-8-12 ma	ax.): 5-6.
WEBS	2x4 SPF No.2	BOT CHORD	Rigid ceiling directly applie	d.
		WEBS	1 Row at midpt	2-12
PEACTIONS	(size) 14-0-4-0 8-0-4-0			

- REACTIONS. (size) 14-0-4-0, 8=0-4-0 Max Horz 14-65(LC 9) Max Uplift 14--117(LC 12), 8=-140(LC 9) Max Grav 14=1744(LC 1), 8=1744(LC 1)
- FORCES. (lb) Max. Comp./Max. Ten. All forces 250 (lb) or less except when shown.
- TOP CHORD 1-2=-2229/172, 2-3=-2004/215, 3-4=-1967/219, 4-5=-2457/202, 5-6=-2220/167, 1-14=-1669/155
- BOT CHORD 12-13=-188/1989, 10-12=-175/2214, 9-10=-193/2269, 8-9=-103/807
- WEBS 2-13=-478/133, 2-12=-419/140, 3-12=-27/782, 4-12=-730/148, 5-9=-1247/160, 6-9=-121/1963, 1-13=-111/1971, 6-8=-1800/192

NOTES-

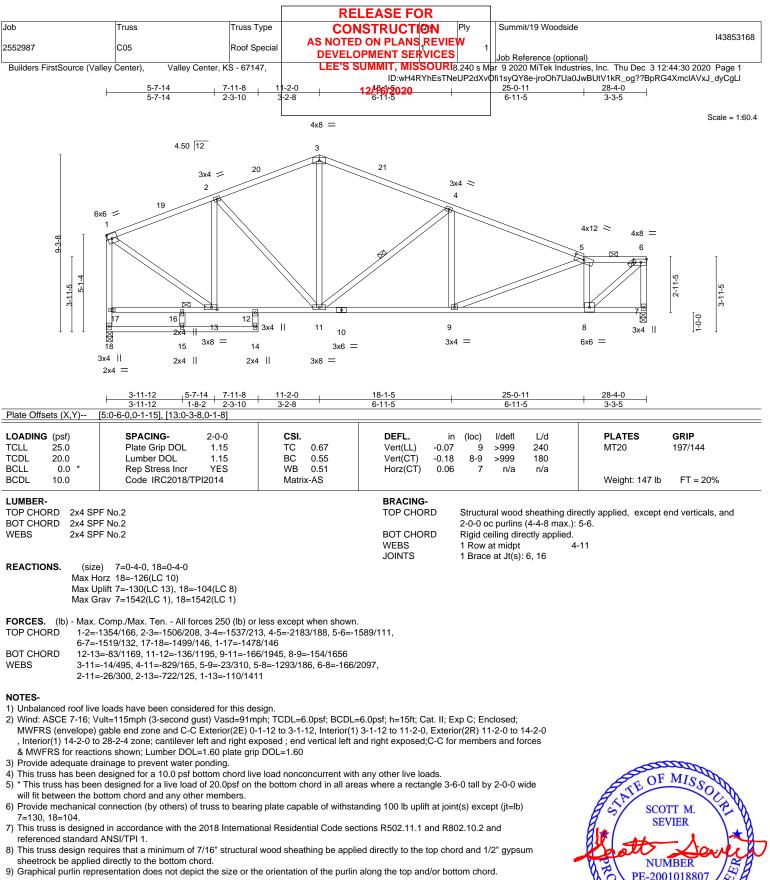
- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-1-12 to 3-1-12, Interior(1) 3-1-12 to 14-10-0, Exterior(2R) 14-10-0 to 17-10-0, Interior(1) 17-10-0 to 30-0-11, Exterior(2E) 30-0-11 to 31-10-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) 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) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.

- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 14=117, 8=140.
- 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.



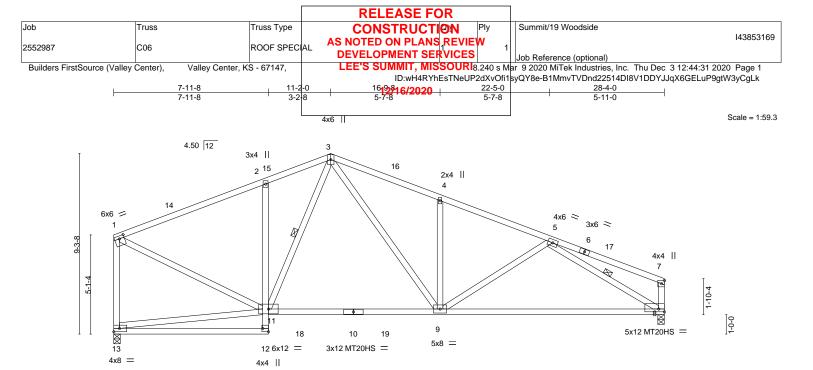




NUMBER PE-2001018807 PE-2001018807 December 4,2020







F	7-11-8	16-9-8		28-4-0		
	7-11-8	8-10-0		11-6-8		
Plate Offsets (X,Y)	[1:0-3-0,0-1-12], [8:Edge,0-1-12], [12:E	dge,0-3-8]				
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in	(loc) l/defl L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL 1.15	TC 0.88	Vert(LL) -0.33	8-9 >999 240	MT20	197/144
TCDL 20.0	Lumber DOL 1.15	BC 0.88	Vert(CT) -0.69	8-9 >487 180	MT20HS	148/108
BCLL 0.0 *	Rep Stress Incr YES	WB 0.48	Horz(CT) 0.07	8 n/a n/a		
BCDL 10.0	Code IRC2018/TPI2014	Matrix-AS	. ,		Weight: 142 lb	FT = 20%
BOT CHORD 2x4 SF 8-10: 2	PF No.2 PF No.2 *Except* 2x4 SPF 1650F 1.5E PF No.2		BRACING- TOP CHORD BOT CHORD WEBS	Structural wood sheathing di Rigid ceiling directly applied. 1 Row at midpt		nd verticals.
Max H Max U	e) 13=0-4-0, 8=0-4-0 lorz 13=-133(LC 10) Jplift 13=-106(LC 8), 8=-125(LC 13) Grav 13=1616(LC 2), 8=1605(LC 2)					
FORCES. (Ib) - Max.	Comp./Max. Ten All forces 250 (lb) o	r less except when shown.				
	-1618/190, 2-3=-1572/251, 3-4=-2191/2 =-1494/157, 7-8=-323/62	60, 4-5=-2183/189, 5-7=-354/	/32,			
BOT CHORD 2-11	=-599/204, 9-11=-62/1360, 8-9=-175/19	42				

28-1-0

16.0.9

4-9=-542/178, 3-9=-146/1090, 3-11=-123/272, 5-8=-2019/231, 1-11=-108/1525 WEBS

7-11-9

NOTES-

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

- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=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 11-2-0, Exterior(2R) 11-2-0 to 14-2-0 , Interior(1) 14-2-0 to 28-2-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60
- All plates are MT20 plates unless otherwise indicated.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 13=106, 8=125.
- 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.







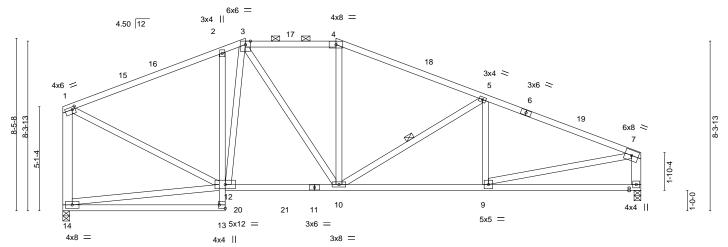
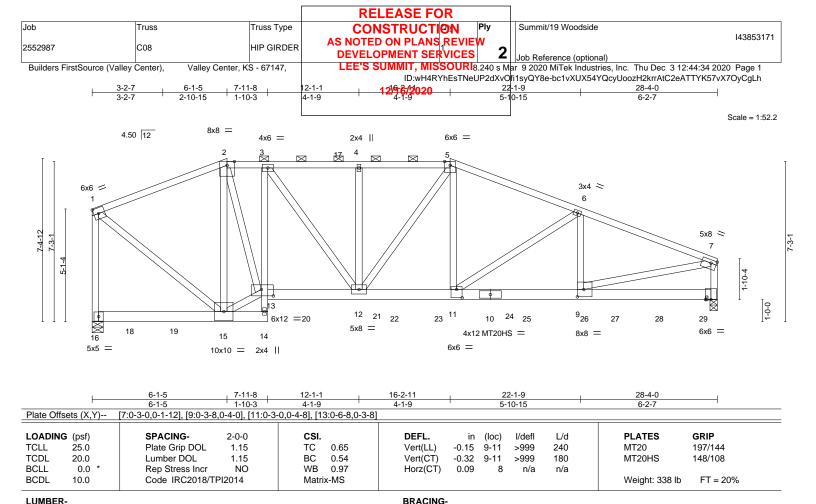


Plate Offsets (X,Y)		13-4-11	20-8-9	2	28-4-0		
Plate Offsets (X,Y)	7-11-8	5-5-3	7-3-15			7-7-7	
	[1:0-1-12,0-1-8], [13:Edge,0-3-8]						
.OADING (psf)	SPACING- 2-0-0	CSI.	DEFL. ir	n (loc) l/	/defl L/d	PLATES	GRIP
CLL 25.0	Plate Grip DOL 1.15	TC 0.71	Vert(LL) -0.09	9-10 >	999 240	MT20	197/144
CDL 20.0	Lumber DOL 1.15	BC 0.68	Vert(CT) -0.21	9-10 >	999 180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.46	Horz(CT) 0.05	8	n/a n/a		
3CDL 10.0	Code IRC2018/TPI2014	Matrix-AS				Weight: 151 lb	FT = 20%
UMBER-			BRACING-				
	PF No.2		TOP CHORD	Structural	wood sheathing dire	ectly applied, except e	end verticals, and
OT CHORD 2x4 SP	PF No.2				ourlins (4-4-7 max.):		, ,
VEBS 2x4 SP	PF No.2 *Except*		BOT CHORD		ng directly applied.		
	-8: 2x6 SPF No.2		WEBS	1 Row at I		10	
Max H Max U	e) 14=0-4-0, 8=0-4-0 lorz 14=-143(LC 10) plift 14=-125(LC 8), 8=-130(LC 9) rav 14=1591(LC 2), 8=1580(LC 2)						
ORCES. (Ib) - Max.	Comp./Max. Ten All forces 250 (lb)	or less except when shown.					
()	1563/195, 2-3=-1504/245, 3-4=-1614/ =-1458/163, 7-8=-1456/170		07/210,				
		2/2073					
1-14=	=-569/211, 10-12=-75/1353, 9-10=-16		/1454				

- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-2-12 to 3-2-12, Interior(1) 3-2-12 to 8-11-5, Exterior(2E) 8-11-5 to 13-4-11, Exterior(2R) 13-4-11 to 17-7-9, Interior(1) 17-7-9 to 28-1-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 14=125, 8=130.
- 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.

OF MISSO ATE SCOTT M. SEVIER NIN OFFESSIONAL PE-2001018807 E December 4,2020





TOP CHORD 2x4 SPF No.2 *Except* TOP CHORD Structural wood sheathing directly applied or 4-7-12 oc purlins, 5-7: 2x4 SPF 1650F 1.5E except end verticals, and 2-0-0 oc purlins (4-2-11 max.): 2-5. BOT CHORD 2x6 SPF 2100F 1.8E *Except* BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing 14-16: 2x6 SPF No.2, 3-14: 2x4 SPF No.2 WEBS 2x4 SPF No.2 REACTIONS. 8=0-4-0, 16=0-6-0 (size) Max Horz 16=-148(LC 6) Max Uplift 8=-789(LC 5), 16=-769(LC 4) Max Grav 8=6387(LC 1), 16=6144(LC 1) FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 1-2=-4809/659, 2-3=-5958/823, 3-4=-7429/1018, 4-5=-7433/1020, 5-6=-7968/1082, 6-7=-8728/1115, 1-16=-5457/715, 7-8=-5218/686 BOT CHORD 14-15=-45/325, 3-13=-2354/345, 12-13=-701/6005, 11-12=-903/7341, 9-11=-1018/8085, 8-9=-73/448 WEBS 1-15=-706/5648, 2-15=-3718/464, 13-15=-534/4762, 2-13=-653/5274, 5-11=-306/2250, 6-11=-841/159, 6-9=-307/370, 7-9=-974/7875, 4-12=-521/127, 5-12=-22/322,

NOTES-

- 1) 2-ply truss to be connected together with 10d (0.120"x3") nails as follows:
- Top chords connected as follows: 2x4 1 row at 0-4-0 oc.

Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-5-0 oc, 2x4 - 1 row at 0-9-0 oc.

Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.

3-12=-344/2454

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

4) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; 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

- 5) Provide adequate drainage to prevent water ponding.
- 6) All plates are MT20 plates unless otherwise indicated.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

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

 Bearing at joint(s) 8, 16 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) 8=789, 16=769.

Continued on page 2





			RELEASE FOR	
Job	Truss	Truss Type		Summit/19 Woodside
2552987	C08	HIP GIRDER	AS NOTED ON PLANS REVIEW	143853171
2002007	000			Job Reference (optional)
Builders FirstSource (Valley Center),	Valley Center, KS - 67147,	LEE'S SUMMIT, MISSOURI8.240 s M	ar 9 2020 MiTek Industries, Inc. Thu Dec 3 12:44:35 2020 Page 2
			ID:wH4RYhEsTNeUP2dX	Ofi1svQY8e-3obHkgYirrYTaeN?X azN3i2vSzPCwoUKne4fgvCgLg

NOTES-

NOTES-12/16/2020 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.

 Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 705 lb down and 98 lb up at 1-8-12, 752 lb down and 105 lb up at 3-8-12, 705 lb down and 138 lb up at 5-8-12, 712 lb down and 78 lb up at 7-9-12, 671 lb down and 93 lb up at 9-8-12, 671 lb down and 93 lb up at 9-8-12, 671 lb down and 93 lb up at 1-8-12, 671 lb down and 93 lb up at 13-8-12, 671 lb down and 93 lb up at 15-8-12, 667 lb down and 144 lb up at 17-8-12, 647 lb down and 109 lb up at 19-8-12, 643 lb down and 80 lb up at 21-8-12, 658 lb down and 82 lb up at 23-8-12, and 658 lb down and 89 lb up at 25-8-12, and 663 lb down and 88 lb up at 27-8-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-2=-90, 2-5=-90, 5-7=-90, 14-16=-20, 8-13=-20

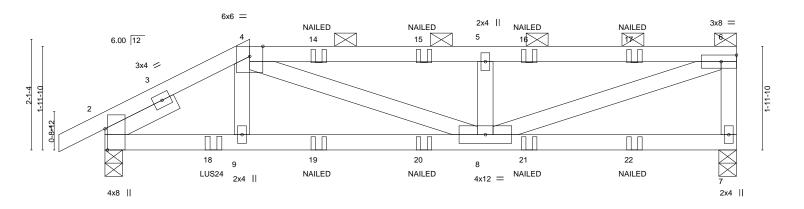
Concentrated Loads (lb)

Vert: 14=-712(F) 15=-705(F) 18=-705(F) 19=-705(F) 20=-671(F) 21=-671(F) 22=-671(F) 23=-671(F) 24=-667(F) 25=-647(F) 26=-643(F) 27=-658(F) 28=-658(F) 26=-658(F) 26=-6 29=-663(F)





Scale = 1:21.9



	<u>2-9-0</u> 2-9-0			7-2-12			-			<u>12-0-0</u> 4-9-4	
Plate Offsets (X,Y				4-5-12						4-3-4	
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	0.53	Vert(LL)	-0.05	8- 9	>999	240	MT20	197/144
TCDL 20.0	Lumber DOL	1.15	BC	0.68	Vert(CT)	-0.11	8-9	>999	180		
BCLL 0.0	* Rep Stress Incr	NO	WB	0.44	Horz(CT)	0.01	7	n/a	n/a		
BCDL 10.0	Code IRC2018/TF	912014	Matri	x-MS						Weight: 46 lb	FT = 20%

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD	2x4 SPF No.2
BOT CHORD	2x4 SPF No.2
WEBS	2x4 SPF No.2
SLIDER	Left 2x4 SPF No.2 1-6-0

REACTIONS. (size) 7=0-4-0, 2=0-4-0 Max Horz 2=65(LC 7) Max Uplift 7=-167(LC 5), 2=-416(LC 8) Max Grav 7=916(LC 1), 2=1084(LC 38)

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

- 2-4=-1481/558, 4-5=-1786/366, 5-6=-1783/365, 6-7=-838/193 TOP CHORD
- BOT CHORD 2-9=-531/1269. 8-9=-512/1239
- WEBS 4-9=-233/414, 4-8=-75/627, 5-8=-632/186, 6-8=-385/1803

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=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) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 7=167, 2=416.
- 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) Use Simpson Strong-Tie LUS24 (4-SD9112 Girder, 2-SD9212 Truss, Single Ply Girder) or equivalent at 2-0-12 from the left end to connect truss(es) to front face of bottom chord.

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

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

LOAD CASE(S) Standard

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

Vert: 1-4=-90, 4-6=-90, 7-10=-20

Continued on page 2

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



Structural wood sheathing directly applied or 4-5-1 oc purlins, except end verticals, and 2-0-0 oc purlins (3-10-8 max.): 4-6.

Rigid ceiling directly applied or 7-7-9 oc bracing.



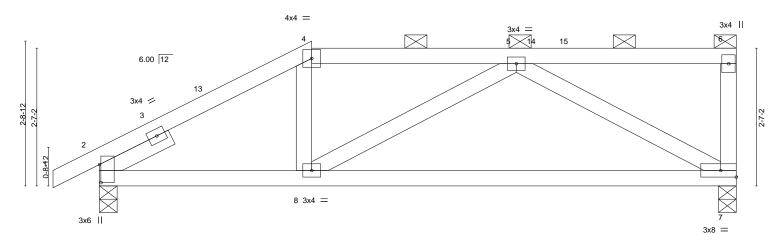
			RELEASE FOR	
Job	Truss	Truss Type	CONSTRUCTION Ply	Summit/19 Woodside
2552987	D01	HALF HIP GI	AS NOTED ON PLANS REVIEW	143853172
2002007	201		DEVELOPMENT SERVICES	Job Reference (optional)
Builders FirstSource	(Valley Center),	Valley Center, KS - 67147,		ar 9 2020 MiTek Industries, Inc. Thu Dec 3 12:44:36 2020 Page 2
			ID:wH4RYhEsTNeUP2dXvOfi	syQY8e-Y?9fyAYLc9gKCoyB5i5CwGFFarHUxWDdYQOeBHyCgLf
			12/16/2020	
LOAD CASE(S) St				

Concentrated Loads (lb) Vert: 14=-57(F) 15=-57(F) 16=-57(F) 17=-57(F) 18=-197(F) 19=-41(F) 20=-41(F) 21=-41(F) 22=-41(F) 22=-4





Scale = 1:21.7



	4-0-0			12-0-0			
1	4-0-0	I		8-0-0			1
ate Offsets (X,Y) [2	2:0-4-1,0-0-5]						
DADING (psf)	SPACING- 2-0-0	CSI.	DEFL. ir	n (loc) l/defl	L/d	PLATES	GRIP
CLL 25.0	Plate Grip DOL 1.15	TC 0.29	Vert(LL) -0.10) 7-8 >999	240	MT20	197/144
CDL 20.0	Lumber DOL 1.15	BC 0.46	Vert(CT) -0.22	? 7-8 >651	180		
CLL 0.0 *	Rep Stress Incr YES	WB 0.31	Horz(CT) 0.01	7 n/a	n/a		
CDL 10.0	Code IRC2018/TPI2014	Matrix-AS				Weight: 46 lb	FT = 20%
UMBER-			BRACING-				
TOP CHORD 2x4 SPF No.2			TOP CHORD	Structural wood	sheathing direc	tly applied, except	t end verticals, and
BOT CHORD 2x4 SPF No.2				2-0-0 oc purlins			
WEBS 2x4 SPE No 2			BOT CHORD	Rigid ceiling dire	ctly applied		

BOT CHORD Rigid ceiling directly applied SLIDER Left 2x4 SPF No.2 1-6-0

REACTIONS. (size) 2=0-4-0, 7=0-4-0 Max Horz 2=88(LC 11) Max Uplift 2=-47(LC 12), 7=-73(LC 9) Max Grav 2=734(LC 1), 7=649(LC 1)

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

2-4=-922/146, 4-5=-769/159 TOP CHORD

BOT CHORD 2-8=-175/774, 7-8=-194/766

WEBS 5-7=-810/207

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=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 4-0-0, Exterior(2R) 4-0-0 to 8-2-15, Interior(1) 8-2-15 to 11-10-4 zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

3) Provide adequate drainage to prevent water ponding.

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

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





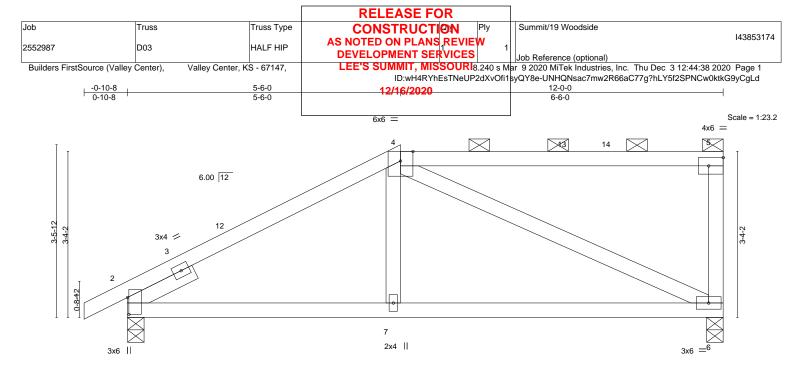


Plate Offsets (X,Y) [<u>5-6-0</u> <u>5-6-0</u> [2:0-4-1,0-0-5], [5:Edge,0-2-0]	12-0-0 6-6-0			
LOADING (psf) TCLL 25.0 TCDL 20.0 BCLL 0.0 BCDL 10.0	SPACING-2-0-0Plate Grip DOL1.15Lumber DOL1.15Rep Stress IncrYESCode IRC2018/TPI2014	CSI. TC 0.65 BC 0.33 WB 0.60 Matrix-AS	DEFL. ir Vert(LL) -0.05 Vert(CT) -0.09 Horz(CT) 0.01	6-7 >999 180	PLATES GRIP MT20 197/144 Weight: 45 lb FT = 20%
LUMBER- TOP CHORD 2x4 SPI BOT CHORD 2x4 SPI			BRACING- TOP CHORD	Structural wood sheathing dire 2-0-0 oc purlins (6-0-0 max.):	ectly applied, except end verticals, and 4-5.

 BOT CHORD
 2x4 SPF No.2
 2-0-0 oc purlins (6-0-0 max.): 4-5.

 WEBS
 2x4 SPF No.2
 BOT CHORD
 Rigid ceiling directly applied.

 SLIDER
 Left 2x4 SPF No.2 1-6-0
 REACTIONS.
 (size)
 2=0-4-0, 6=0-4-0

DNS. (size) 2=0-4-0, 6=0-4-0 Max Horz 2=116(LC 11) Max Uplift 2=-58(LC 12), 6=-71(LC 9) Max Grav 2=734(LC 1), 6=649(LC 1)

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

TOP CHORD 2-4=-851/150, 5-6=-292/96

BOT CHORD 2-7=-207/701, 6-7=-210/695

WEBS 4-6=-680/187

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 5-6-0, Exterior(2R) 5-6-0 to 9-8-15, Interior(1) 9-8-15 to 11-10-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

3) Provide adequate drainage to prevent water ponding.

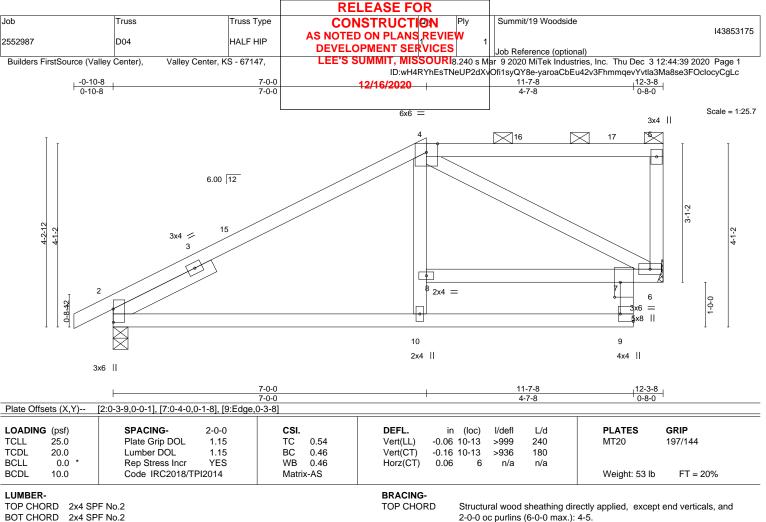
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

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

December 4,2020





BOT CHORD Rigid ceiling directly applied.

REACTIONS. (size) 6=Mechanical, 2=0-4-0 Max Horz 2=125(LC 9) Max Uplift 6=-69(LC 9), 2=-65(LC 12) Max Grav 6=665(LC 1), 2=750(LC 1)

4-6=-732/208

Left 2x4 SPF No.2 2-6-0

2x4 SPF No.2

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

TOP CHORD 2-4=-692/128

BOT CHORD 2-10=-180/588, 9-10=-107/393, 7-8=-102/259, 6-7=-209/652

WEBS

NOTES-

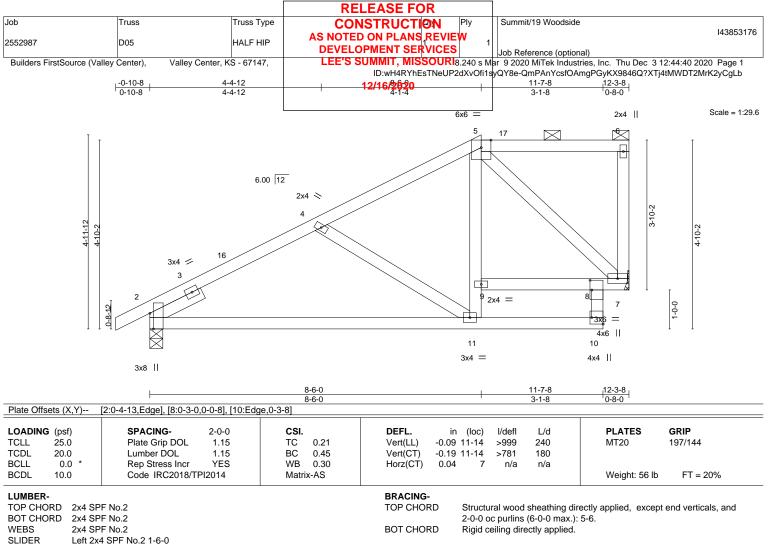
WEBS

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=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 7-0-0, Exterior(2R) 7-0-0 to 11-2-15, Interior(1) 11-2-15 to 12-1-12 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6, 2.
- 8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and
- referenced standard ANSI/TPI 1. 9) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

OF MISS TE SCOTT M. SEVIER NUMB NOFFESSIONAL PE-2001018807 E December 4,2020





REACTIONS. (size) 7=Mechanical, 2=0-4-0 Max Horz 2=153(LC 9) Max Uplift 7=-65(LC 9), 2=-69(LC 12) Max Grav 7=665(LC 1), 2=750(LC 1)

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

TOP CHORD 2-4=-829/151, 4-5=-537/109

BOT CHORD 2-11=-276/736, 10-11=-103/306, 7-8=-147/423

WEBS 4-11=-389/164, 9-11=0/352, 5-9=0/325, 5-7=-586/153

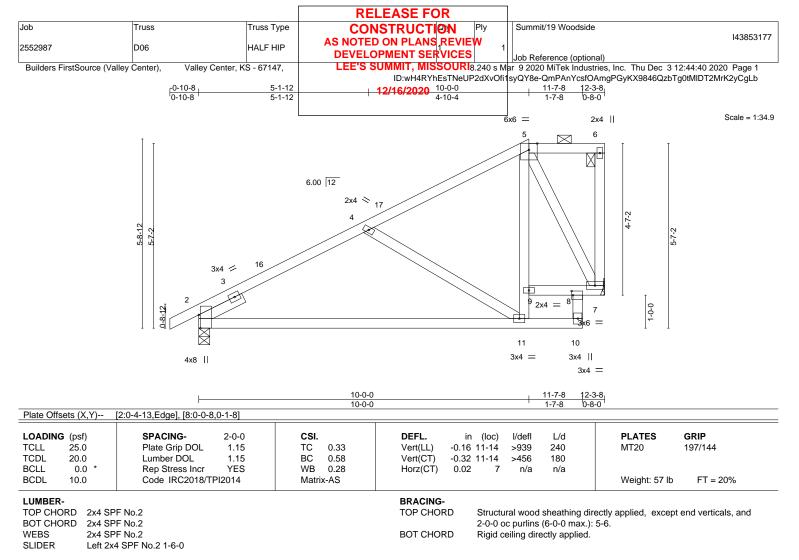
NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=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 8-6-0, Exterior(2E) 8-6-0 to 12-1-12 zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 7, 2.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 9) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

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







REACTIONS. (size) 7=Mechanical, 2=0-4-0 Max Horz 2=181(LC 9) Max Uplift 7=-68(LC 12), 2=-69(LC 12) Max Grav 7=665(LC 1), 2=750(LC 1)

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

TOP CHORD 2-4=-798/145, 4-5=-408/89

BOT CHORD 2-11=-266/705, 7-8=-106/268

WEBS 4-11=-509/192, 9-11=0/499, 5-9=-1/427, 5-7=-605/138

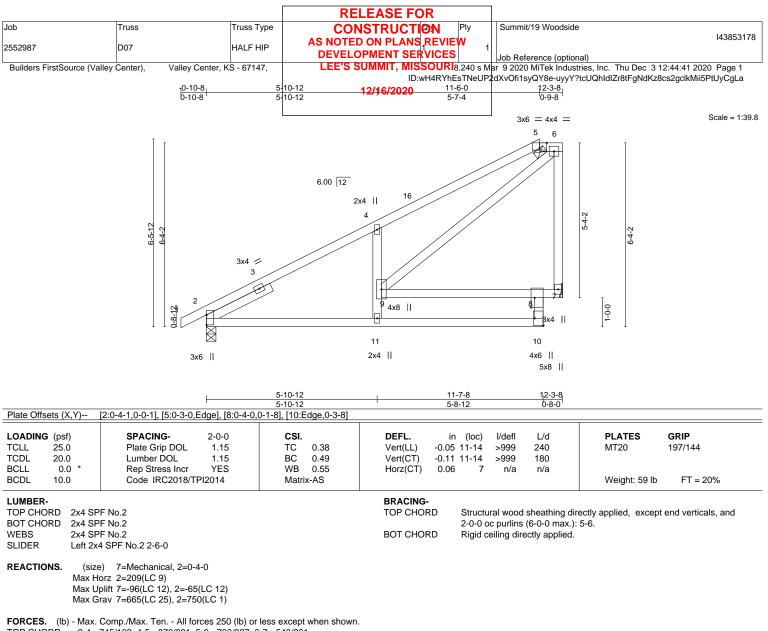
NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 10-0-0, Exterior(2E) 10-0-0 to 12-1-12 zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 7, 2.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 9) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

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







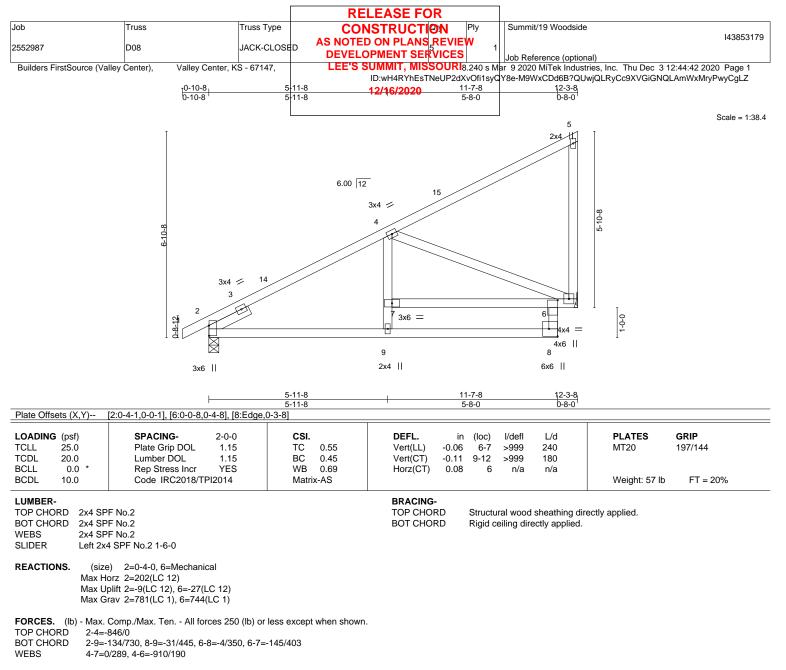
- TOP CHORD 2-4=-745/103, 4-5=-976/221, 5-6=-760/227, 6-7=-543/221
- BOT CHORD 2-11=-221/666, 10-11=-94/421, 8-9=-429/122
- WEBS 4-9=-573/272, 6-9=-280/999

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=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 11-6-0, Exterior(2E) 11-6-0 to 12-1-12 zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 7, 2.
- 8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and
- referenced standard ANSI/TPI 1. 9) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.







NOTES-

 Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 12-1-12 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) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.

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

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

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

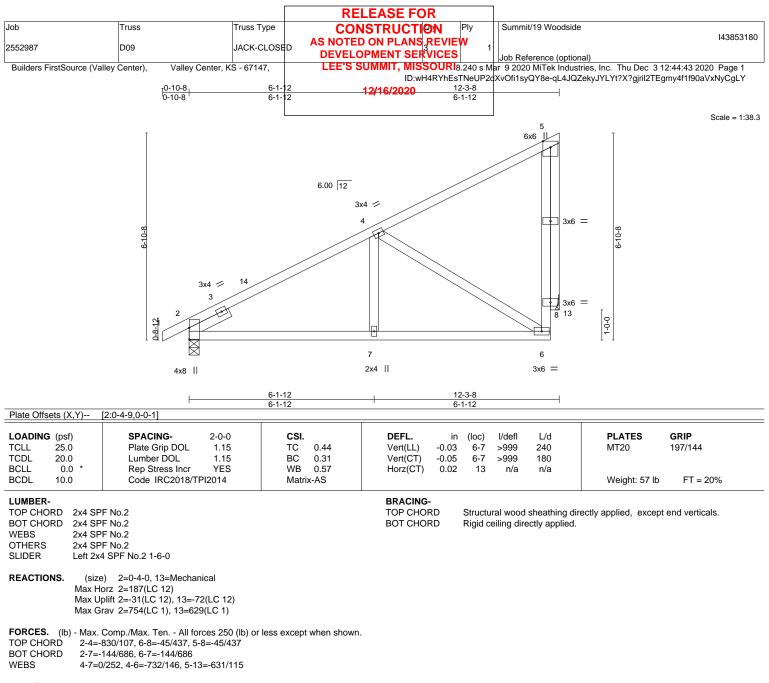
referenced standard ANSI/TPI 1. 7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum

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 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 **ANSITPTI Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



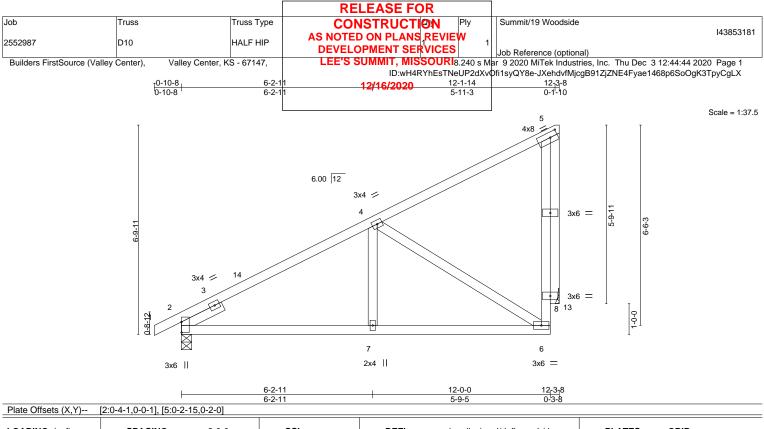
NOTES-

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; 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 11-10-4 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) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 13.
 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



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LOADING (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	тс	0.43	Vert(LL)	0.03	7-11	>999	240	MT20	197/144
TCDL 20.0	Lumber DOL	1.15	BC	0.31	Vert(CT)	-0.06	7-11	>999	180		
BCLL 0.0	Rep Stress Incr	YES	WB	0.55	Horz(CT)	0.02	13	n/a	n/a		
BCDL 10.0	Code IRC2018/TF	PI2014	Matri	x-AS						Weight: 57 lb	FT = 20%

LUMBER-

 TOP CHORD
 2x4 SPF No.2

 BOT CHORD
 2x4 SPF No.2

 WEBS
 2x4 SPF No.2

 SLIDER
 Left 2x4 SPF No.2 1-6-0

BRACING-TOP CHORD BOT CHORD

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

REACTIONS. (size) 2=0-4-0, 13=Mechanical Max Horz 2=216(LC 12) Max Uplift 2=-35(LC 12), 13=-132(LC 12) Max Grav 2=754(LC 1), 13=629(LC 1)

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

- TOP CHORD 2-4=-798/8, 6-8=-59/440, 5-8=-59/440
- BOT CHORD 2-7=-149/677, 6-7=-149/677
- WEBS 4-7=0/254, 4-6=-728/169, 5-13=-631/132

NOTES-

 Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; 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 11-10-4 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) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.

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

 Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2 except (jt=lb) 13=132.

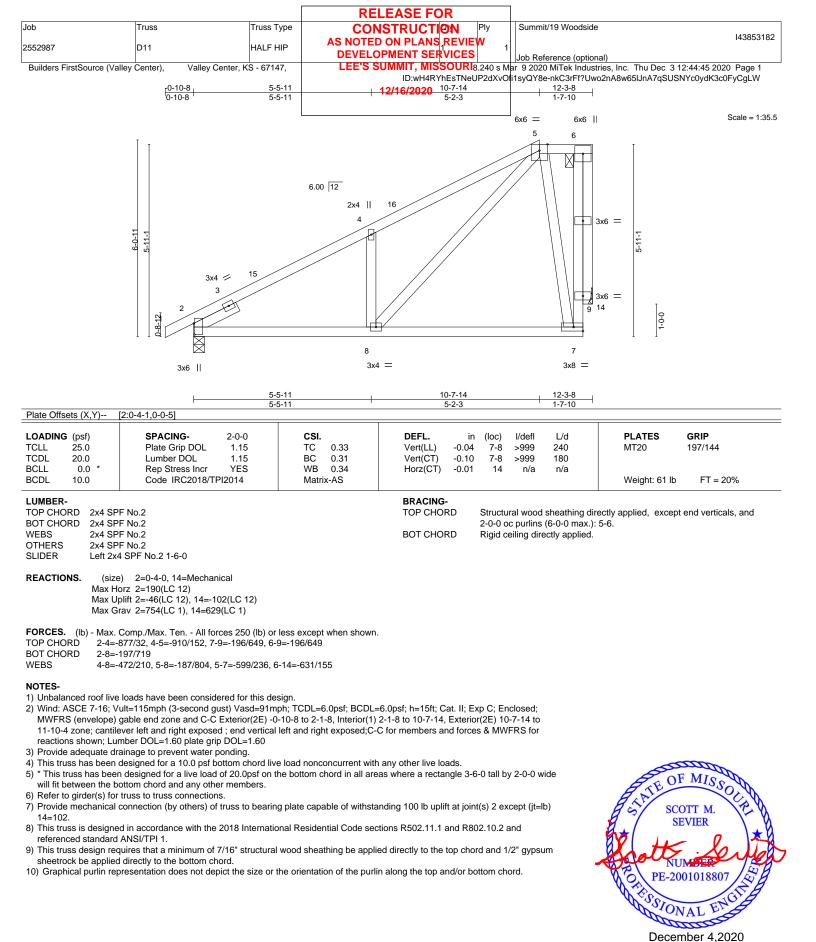
6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

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.





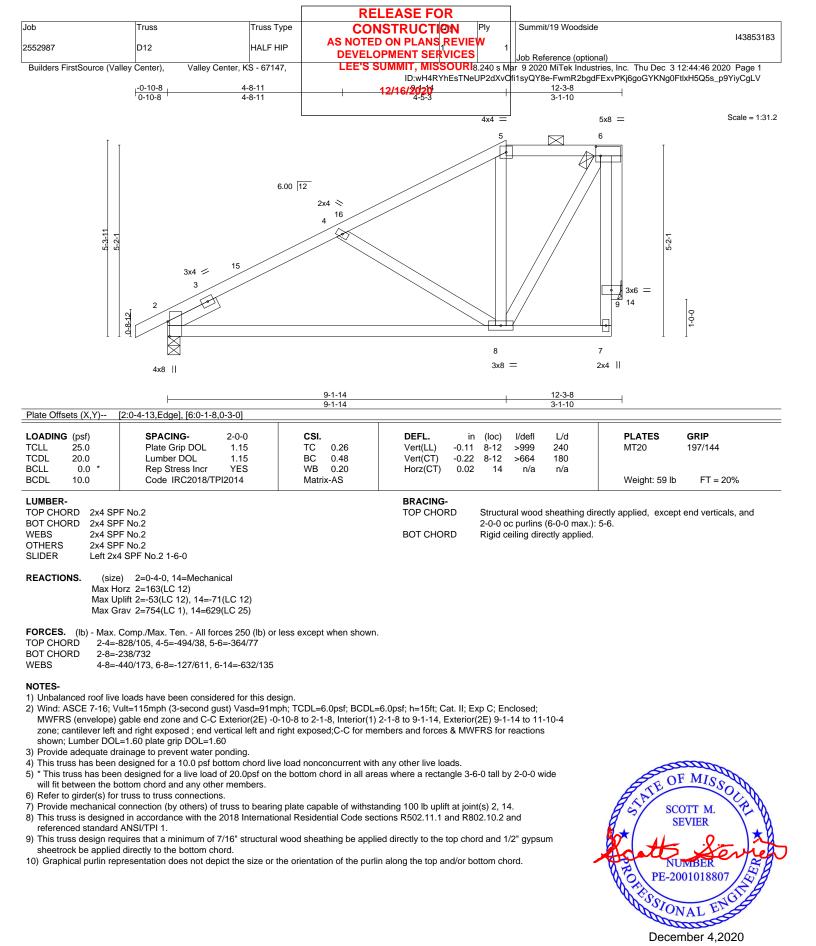
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use,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



🔺 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE Design valid to use only design parameters and READ NOTES ON THIS AND INCLUDED WITH REPORT PAGE MIT 475 169, 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 quidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TP11 Quality Criteria, DSB-89 and BCSI Building Component
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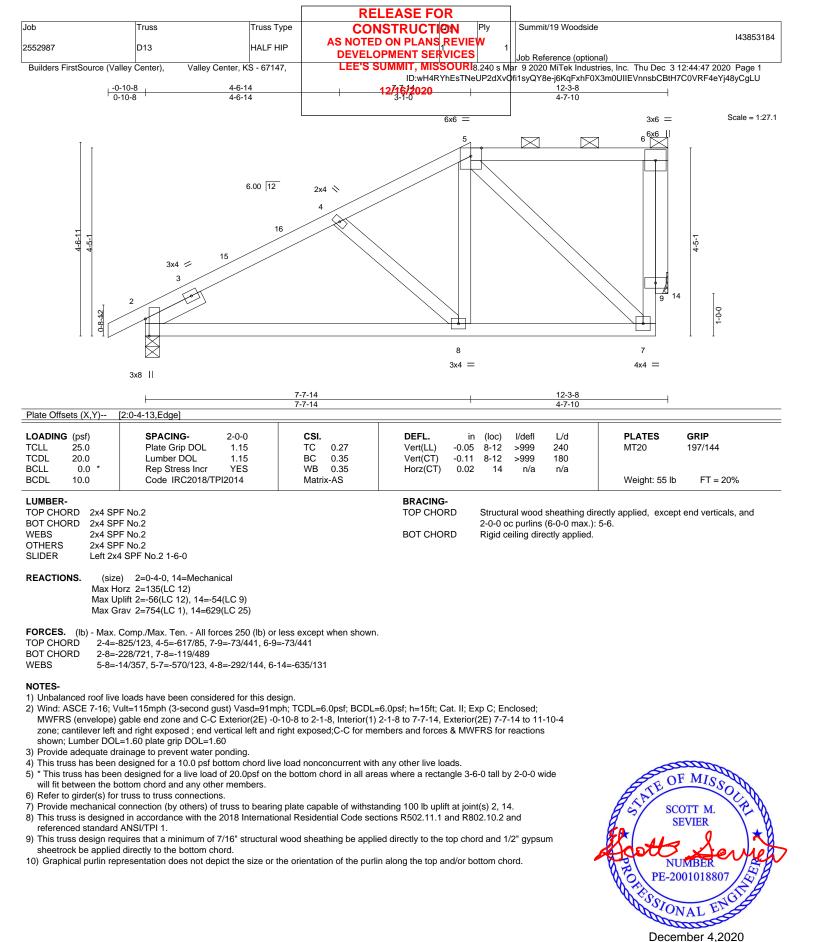
 Safety Information
 available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601





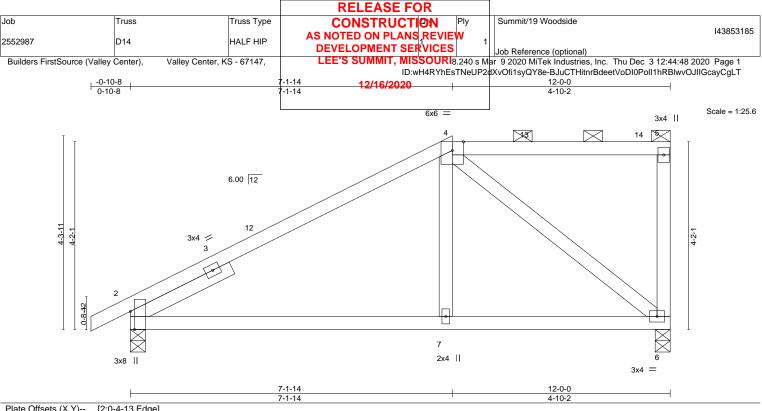
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MITek@ connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use,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





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OADING (psf) CLL 25.0	SPACING- 2 Plate Grip DOL	2-0-0 CSI. 1.15 TC	0.56 DEFI		(/	l/defl >999	L/d 240	PLATES MT20	GRIP 197/144
TCDL 20.0 SCLL 0.0 *	Lumber DOL	1.15 BC	0.43 Vert(0.46 Horz	ст) -0.13	7-10	>999 >999	180 n/a	WI 20	137/144
BCDL 10.0	Code IRC2018/TPI2	2014 Matrix	ix-AS					Weight: 47 lb	FT = 20%
LUMBER-			BRAG	ING-					
TOP CHORD 2x4 SPI BOT CHORD 2x4 SPI			TOP	HORD			sheathing dire 6-0-0 max.):	ectly applied, except 4-5.	end verticals, and

TOP CHORD2x4 SPF No.2TOP CHORDStructural wood sheathing directly applied, except end verticals, and
2-0-0 oc purlins (6-0-0 max.): 4-5.WEBS2x4 SPF No.2BOT CHORDRigid ceiling directly applied.SLIDERLeft 2x4 SPF No.2 2-6-0BOT CHORDRigid ceiling directly applied.

REACTIONS. (size) 2=0-4-0, 6=0-4-0 Max Horz 2=147(LC 11) Max Uplift 2=-66(LC 12), 6=-68(LC 9) Max Grav 2=734(LC 1), 6=649(LC 1)

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

TOP CHORD 2-4=-661/128

BOT CHORD 2-7=-200/563, 6-7=-202/556

WEBS 4-7=0/279, 4-6=-702/211

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 7-1-14, Exterior(2R) 7-1-14 to 11-4-13, Interior(1) 11-4-13 to 11-10-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

3) Provide adequate drainage to prevent water ponding.

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

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

NOT MISSOLUTION SEVIER NOT M. SEVIER PE-2001018807

December 4,2020



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					RELEASE FOR	२						
Job	Truss	Tr	russ Type		CONSTRUCTIO	N	Ply	Summi	/19 Woodside			
2552987	D15	Ro	oof Special (DE	OTED ON PLANS F	ICES	1		erence (optional)		I438531	
Builders FirstSource (Valley	Center), Valle	ey Center, KS -	- 67147,	LE	E'S SUMMIT, MISS	OURI8	240 s M	ar 9 2020	MiTek Industries	, Inc. Thu Dec	c 3 12:44:51 2020 Page 1	
					ID:wH4RYhE	STNeUF	2dXvOf	1syQY8e	-btZK5lkl4mZCV5	c3TLsj1RNmf	uOqyELq?GWwDvyCgLQ	
-0-10-8 2-4-0	5-9-0	9-8-0 11-	-10-0 13-4-8	17-1-0		0	26-9-0	28-11-0	32-11-4	37-3-0	37 ₁ 8 ₁ 0 40-0-0 40-10-8	
0-10-8 2-4-0	3-5-0	3-11-0 2-	-2-0 1-6-8	3-8-8	1-6-0 4-5-0 4-6-0)	2-3-0	2-2-0	4-0-4	4-3-12	0-5-0 2-4-0 0-10-8	
											Scale - 1.	72 7

Scale = 1:73.7

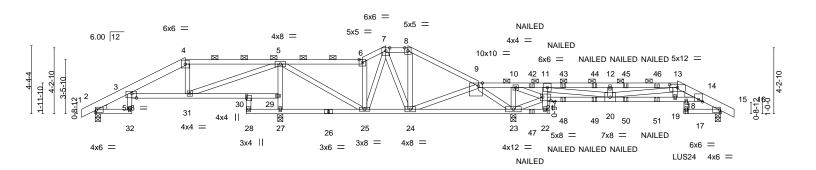


Plate Offsets (X,Y)		5-3-0 1-6-0	<u>0 20-0-0 24-6-0</u> 1-5-0 4-6-0 [30:0-2-0.0-0-0]	26-9-0 28-11-0 2-3-0 2-2-0			2-4-0
LOADING (psf) TCLL 25.0 TCDL 20.0 BCLL 0.0 * BCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr NO Code IRC2018/TPI2014	CSI. TC 0.73 BC 0.75 WB 0.67 Matrix-MS	DEFL. in Vert(LL) 0.11	(loc) l/defl 19-20 >999 19-20 >741 15 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 176 lb	GRIP 197/144 FT = 20%
BOT CHORD 2x4 SP	6 SPF No.2, 13-16: 2x6 SP 2400F 2.0E PF No.2 PF No.2	I	BRACING- TOP CHORD BOT CHORD	2-0-0 oc purlins (3-4-0 max.): 4 ctly applied or	ctly applied or 6-0-0 o -6, 7-8, 9-13. 6-0-0 oc bracing. Ex	
(lb) - Max H Max U	earings 0-4-0. lorz 2=65(LC 12) plift All uplift 100 lb or less at joint(s) 2 9), 27=-246(LC 29) irav All reactions 250 lb or less at joint 37), 23=2202(LC 1), 27=1527(LC 1	(s) except 2=589(LC 21),	,				
TOP CHORD 3-4=- 9-10= 14-15 BOT CHORD 3-31= 23-24	Comp./Max. Ten All forces 250 (lb) of 606/91, 4-5=-536/113, 5-6=-324/235, 6 =-384/1749, 10-11=-157/714, 11-12=-22 5=-407/227 =-68/561, 30-31=-490/80, 27-28=-271/2 4=-747/317, 11-21=-995/274, 20-21=-50	7=-376/269, 7-8=-329/259 02/620, 12-13=-2202/620 5, 25-27=-421/63, 24-25=-	9, 8-9=-441/256, 13-14=-2207/928, 127/291,				
WEBS 4-31= 10-23 27-29	3=-901/2186 =-343/110, 5-25=-202/780, 6-25=-383/1 3=-583/154, 21-23=-1744/460, 10-21=-2 9=-1360/307, 5-29=-1345/312, 9-23=-12 =-131/1087	59/1134, 12-20=-422/116	11-20=-751/2742,			STE OF	MISSO
 Wind: ASCE 7-16; V MWFRS (envelope) grip DOL=1.60 Provide adequate dr 4) All plates are 2x4 M 5) This truss has been 	e loads have been considered for this de /ult=115mph (3-second gust) Vasd=91m gable end zone; cantilever left and righ rainage to prevent water ponding. T20 unless otherwise indicated. designed for a 10.0 psf bottom chord liv	<pre>iph; TCDL=6.0psf; BCDL= exposed ; end vertical lef e load nonconcurrent with</pre>	t and right exposed; Lum any other live loads.	ber DOL=1.60 pla	-	SEV SEV	IT M. VIER
will fit between the b 7) Provide mechanical 15=442, 23=387, 27 8) This truss is designe referenced standard	ed in accordance with the 2018 Internati	ng plate capable of withsta onal Residential Code sec	nding 100 lb uplift at join tions R502.11.1 and R80	t(s) 2 except (jt=lb)2.10.2 and		RSSION.	ST A
WARNING - Verify O Design valid for use o a truss system. Before building design. Braci is always required for fabrication, storage, d	design parameters and READ NOTES ON THIS AN nly with MiTek® connectors. This design is based a use, the building designer must verify the applica- ing indicated is to prevent buckling of individual tru stability and to prevent collapse with possible pers elivery, erection and bracing of trusses and truss s available from Truss Plate Institute, 2670 Crain Hig	D INCLUDED MITEK REFERENC only upon parameters shown, ann oility of design parameters and p ss web and/or chord members or onal injury and property damage. systems, see <u>ANSUTP11</u>	E PAGE MII-7473 rev. 5/19/2020 I is for an individual building co operly incorporate this design i ly. Additional temporary and p For general guidance regardin Quality Criteria, DSB-89 and	BEFORE USE. mponent, not nto the overall ermanent bracing ig the	onent	16023 Swingley Chesterfield, M	/ Ridge Rd 0 63017

			RELEASE FOR	
Job	Truss	Truss Type	CONSTRUCTION Ply	Summit/19 Woodside
2552987	D15	Roof Special	Sirder AS NOTED ON PLANS REVIEW	143853186
2002001	DIS		DEVELOPMENT SERVICES	Job Reference (optional)
Builders FirstSource	e (Valley Center),	Valley Center, KS - 67147,	LEE'S SUMMIT, MISSOURI8.240 s M	ar 9 2020 MiTek Industries, Inc. Thu Dec 3 12:44:51 2020 Page 2
			ID:wH4RYhEsTNeUP2dXvO	f1syQY8e-btZK5lkl4mZCV5c3TLsj1RNmfuOqyELq?GWwDvyCgLQ
NOTES-			12/16/2020	

10) Use Simpson Strong-Tie LUS24 (4-SD9112 Girder, 2-SD9212 Truss, Single Ply Girder) or equivalent at 37-9-12 from the left end to connect truss(es) to back face of bottom chord.

11) Fill all nail holes where hanger is in contact with lumber.
12) "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidlines.

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

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-3=-90, 3-4=-90, 4-6=-90, 6-7=-90, 7-8=-90, 8-9=-90, 9-13=-90, 13-16=-90, 32-33=-20, 3-30=-20, 22-28=-20, 18-21=-20, 17-39=-20 Concentrated Loads (lb)

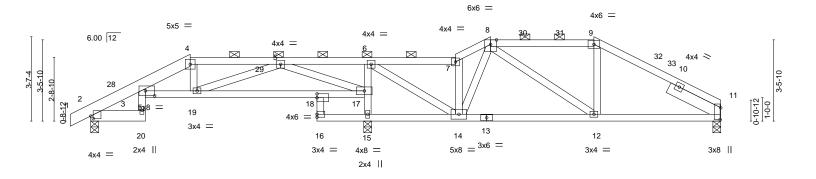
Vert: 18=-197(B) 42=-57(B) 43=-38(B) 44=-38(B) 45=-38(B) 46=-38(B) 47=-41(B) 48=-61(B) 49=-61(B) 50=-61(B) 51=-61(B)

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



			R	ELEASE FOR				
Job	Truss	Truss Type	CC	ONSTRUCTION	Ply	Summit/19 Woodsid	e	
2552987	D16	Roof Special	DEVE	ED ON PLANS RE		Job Reference (optio	nal)	143853187
Builders FirstSource (Valley	Center), Valley Center, I	Ś - 67147,	LEE'S	S SUMMIT, MISSO	URI8.240 s M	ar 9 2020 MiTek Indus	stries, Inc. Thu Dec 3 12:44:52 2	020 Page 1
							q4h37FBG13NyZewyElnjhIZ_Ew	
-0-10-8 2-4-0	4-3-0 7-1-4	8-1-6 9-8-0	11-10-0	⊣ 12/1<u>§/20</u>20 ⊣	17-1-0	21-6-0	26-11-0	
0-10-8 2-4-0	1-11-0 2-10-4	1-0-2 1-6-10	2-2-0	3-9-0	1-6-0	4-5-0	5-5-0	

Scale = 1:49.2



2-4		9-8-0	11-10-0	15-7-0	17-1-0	21-6-0	26-11-0	
Plate Offsets (X,Y)	4-0 <u>1-11-0</u> [2:0-1-4,0-1-5], [3:0-4-12	<u>5-5-0</u> .0-2-8]. [11:0-6-1	.0-0-5]. [18:0-0-0.0-2-0]	3-9-0	1-6-0	4-5-0	5-5-0	
LOADING (psf) TCLL 25.0 TCDL 20.0 BCLL 0.0 * BCDL 10.0	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr Code IRC2018/TF	2-0-0 1.15 1.15 YES	CSI. TC 0.67 BC 0.52 WB 0.42 Matrix-AS	DEFL. Vert(LL) Vert(CT) Horz(CT)	in (loc) -0.07 3-19 -0.14 3-19 0.08 11	l/defl L/d >999 240 >999 180 n/a n/a	PLATES MT20 Weight: 112 lb	GRIP 197/144 FT = 20%
LUMBER- TOP CHORD 2x4 SF 1-4: 2x BOT CHORD 2x4 SF 2-20: 2 WEBS 2x4 SF	PF No.2 *Except* 6 SPF No.2			BRACING- TOP CHOF BOT CHOF	2-0-0 o	rral wood sheathing di c purlins (5-10-2 max eiling directly applied.	rectly applied, except .): 4-7, 8-9.	
Max H Max U Max C FORCES. (Ib) - Max. TOP CHORD 3-26: 8-9= BOT CHORD 3-19: 12-1. WEBS 7-14:	e) 11=0-4-0, 2=0-4-0, 1 lorz 2=65(LC 12) lplift 11=-62(LC 13), 2=-8 grav 11=739(LC 1), 2=619 Comp./Max. Ten All for =-305/60, 3-4=-958/142, 4 -792/173, 9-11=-918/152 =-150/964, 18-19=-166/57 4=-79/624, 11-12=-75/792 =-409/108, 15-17=-1536/1 =-1250/211	6(LC 12), 15=-12 9(LC 1), 15=168: rces 250 (lb) or ld I-5=-944/163, 5-1 72, 17-18=-130/8	5(LC 1) pess except when shown. 6=-5/606, 6-7=-585/157, 7 49, 15-16=-327/0, 14-15=	=-473/3,				
 2) Wind: ASCE 7-16; MWFRS (envelope) Interior(1) 7-3-0 to 1 to 26-11-0 zone; cai reactions shown; Lu 3) Provide adequate d 4) This truss has been will fit between the b 6) Provide mechanical (jt=lb) 15=122. 7) This truss is designer referenced standard 8) This truss design re sheetrock be applie 	e loads have been consid- /ult=115mph (3-second g gable end zone and C-C 7-1-0, Exterior(2R) 17-1- ntilever left and right expo- imber DOL=1.60 plate grij rainage to prevent water p designed for a 10.0 psf b in designed for a live load bottom chord and any othe connection (by others) of ed in accordance with the I ANS/TPI 1. quires that a minimum of d directly to the bottom ch resentation does not depi	ust) Vasd=91mp Exterior(2E) -0 0 to 20-1-0, Inter sed ; end verticac p DOL=1.60 ponding. ottom chord live of 20.0psf on the remebers. truss to bearing 2018 Internation 7/16" structural v ford.	r; TCDL=6.0psf; BCDL=6 10-8 to 2-0-7, Interior(1) 2 ior(1) 20-1-0 to 21-6-0, E: il left and right exposed;C load nonconcurrent with a e bottom chord in all area plate capable of withstan all Residential Code section wood sheathing be applied	-0-7 to 4-3-0, Ex tterior(2R) 21-6- -C for members any other live loa s where a rectar ding 100 lb uplifi ons R502.11.1 a d directly to the t	terior(2R) 4-3-(0 to 24-6-0, Inte and forces & M ds. gle 3-6-0 tall b at joint(s) 11, 1 nd R802.10.2 a op chord and 1	0 to 7-3-0, erior(1) 24-6-0 IWFRS for y 2-0-0 wide 2 except and /2" gypsum	TO PE-200	MBER 01018807

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December 4,2020

			REI	LEASE FOR				
Job	Truss	Truss Type	CON	ISTRUCTION	Ply	Summit/19 Woodside		
2552987	D17	Roof Special	Firder	ON PLANS REVIE	1			143853188
2002001		rtoor opeoidi	DEVELO	PMENT SERVICES		Job Reference (optional)		
Builders FirstSource (Valley	Center), Valley Center, I	KS - 67147,	LEE'S S	UMMIT, MISSOURI8	8.240 s M	ar 9 2020 MiTek Industries, Inc	. Thu Dec 3 12:44:55 20	20 Page 1
)fi1syQY8e-UfprxgnG7?3e_jvriE		
-0-10-8 2-4-0	2 ₁ 9-0 6-2-8	9-8-0	11-10-0	12/16/2029-7-0 2-3-0	19-3-8	23-0-0	26-11-0	1
0-10-8 2-4-0	0-5-0 3-5-8	3-5-8	2-2-0	2-3-0 1-6-0	3-8-8	3-8-8	3-11-0	1
								Casla 4:40.0

Scale = 1:49.2

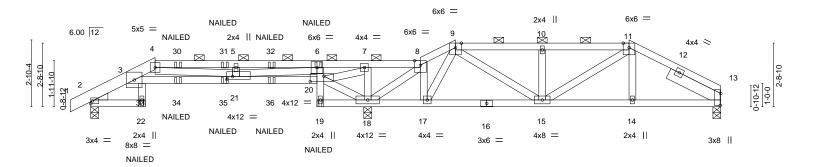


Plate Offsets (X,Y)- 13:09-11:0-51, [20:07:0.02-72], [21:0-3:0.4-16] LOADING (pt/) Plate Grap DOL 1.15 TC 0.59 Veri(L1) 0.12 3.21 3.999 2.40 MIZES GRIP TDLL 25.0 Plate Grap DOL 1.15 TC 0.59 Veri(C1) 0.22 3.21 3.999 2.40 MIZES GRIP TDLL 25.0 Plate Grap DOL 1.15 TC 0.59 Veri(C1) 0.22 3.21 3.999 2.40 MIZES GRIP TDP CHORD 2.44 SPF No.2 "Except" TOP CHORD Structural wood sheathing directly applied of 6-8-5 coc purlins, except 2.0-0 oc purlins (SI-116 max): 4.89 1.14 BOT CHORD Structural wood sheathing directly applied of 6-0-0 oc bracing. WEBS 2.23.02 x34 SPF No.2 2.4-0 Reac TOND Right 2.6 SPF No.2 2.4-0 BOT CHORD Right 2.6 SPF No.2 2.4-0 BOT CHORD Right 2.6 SPF No.2 2.4-0 REACTONS (iszer) 13:0-4.0 2, 20-4-0, 18:0-4-0 Max log Nin 32-980(0, 0, 18:0-980(0, 0, 11, 16:2:26, 57-165(7.82, 37-165(7.82, 37-165(7.82, 37-165(7.82, 37-165(7.82, 37-165(7.82, 37-165(7.82, 37-165(7.82, 37-165(7.	LobDING (ps) SPACING- Plate Grip DOL 2-0-0 1.15 CSI. TC DEFL TC in (loc) Videft L/d TCLL 25.0 Lumber DOL 1.15 BC 0.75 Ver(CT) 0.26 321 553 999 240 BCLL 0.0 Code RC2018/TPI2014 Matm-MS BC 7.02 2.63 21 553 999 240 VEX.LDB 0.0 Code RC2018/TPI2014 Matm-MS BC 2.63 22 553 100 BCLL 0.0 Code RC2018/TPI2014 Matm-MS BRACING- TOP CHORD 2.43 567 5.05 cp pullins, except BOT CHORD 2.44 SPF No.2 Structural wood abaathing directly applied or 5-0-0 oc bracing. 2.04 oc pullins (5:11-6 max) 1:4.9, 911. BOT CHORD 2.43 SPF No.3 SLIDER Right 268 SPF No.2 Structural wood abaathing directly applied or 6-0-0 oc bracing. 2.04 oc pullins (5:11-6 max) 1:4.9, 911. BOT CHORD 3.28-27400, 3:4-243/1403, 4:5-1741/322, 5:6-1741/322, 5:7-156/7283. 7:7-222/3/395, 5:2-229/20 5:7-156/7283. 7:7-222/3/395, 5:2-229/20 5:7-165/7283. 7:		<u>4-0 2₁9-0 6-0-0</u> 4-0 0-5-0 3-3-0	6-2-8 9-8-0 0-2-8 3-5-0		14-1-0 15-7-0 2-3-0 1-6-0	19-3-8 3-8-8	23-0-0 3-8-8	26-11-0	
TCLL 25.0 Plate Grip DOL 1.15 TC 0.59 Ver(T) 0.12 3.27 959 440 BCLL 0.0 Code IRC2018/TPI2014 Matrix-MS BCL 0.0 NT20 197/144 BCLL 0.0 Code IRC2018/TPI2014 Matrix-MS BRACING- TOP CHORD 224.559 98.0 All FT20 Structural wood sheathing directly applied or 5-0-50 cc purines, except LUMBER- TOP CHORD 224.5FF No.2 FT60 TScrept' BOT CHORD Structural wood sheathing directly applied or 5-0-0 oc bracing. VEEDS 224.3 SPF No.2 BOT CHORD Matrix-SPF No.3 BOT CHORD Matrix-SPF No.3 SLDER Right 268 SPF No.2 2-6-0 Rectroms. Rectroms. Right 268 SPF No.2 2-6-0 BOT CHORD Matrix-SPF No.3 SLDER Right 268 SPF No.2 2-6-0 Matrix-SPF No.3 BOT CHORD Alge 261.0 BOT CHORD Structural wood sheathing directly applied or 6-0-0 oc bracing. VEEDS 2.23.20.223.4 SPF No.2 Structural hold 16.6 Code IRC203, 2-4002(L 2), 16-2232(L 2) BOT CHORD Structural wood sheathing directly applie	TCLL 25.6 Plate Grip DOL 1.15 TC 0.59 Ver(CT) 0.12 3.22 3.999 240 BCLL 0.0 Code IRC018/TPL014 Matrix-MS Ver(CT) 0.14 13 n/a n/a BCLL 0.0 Code IRC018/TPL014 Matrix-MS BRACING- TDP CHORD 224.597 No.2 Ver(CT) 0.14 13 n/a n/a BOT CHORD 224.597 No.2 Structural wood sheathing directly applied or 6-0-0 oc bracing. 2.40.00 cplines (21-5 max) / 40.9.11. Not cplines (21-5 max) / 40.9.11. BOT CHORD 224.597 No.2 Structural wood sheathing directly applied or 6-0-0 oc bracing. 2.40.00 cplines (21-5 max) / 40.9.11. BOT CHORD 234.597 No.2 Structural wood sheathing directly applied or 6-0-0 oc bracing. 2.43.00 cplines (21-5 max) / 40.9.11. BUERS 224.597 No.2 Structural wood sheathing directly applied or 6-0-0 oc bracing. 2.43.00 cplines (21-5 max) / 40.9.11. Structural wood sheathing directly applied or 6-0-0 oc bracing. VEEDS 224.597 No.3 Structural wood sheathing directly applied or 6-0-0 oc bracing. 2.43.00 Cplines (21-5 max) / 40.9.11. Structural wood sheathing directly applied or 6-0-0 oc braci	Plate Offsets (X,Y)	[13:0-6-1,0-0-5], [20:0-7	<u>'-0,0-2-12], [21:0-</u>	3-0,0-1-8]					
TOP CHORD 2x4 SPF No.2 "Except" TOP CHORD Structural wood sheathing directly applied or 6-3-6 oc putins, except 2x4 SPF No.2 "Except" BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing. 2x2-3/20: 2x4 SPF No.2 Structural wood sheathing directly applied or 6-0-0 oc bracing. VEDSC Except on putins, 6:11-16 max): 48, 91-11. Left: 2x4 SP No.3 Structural wood sheathing directly applied or 6-0-0 oc bracing. Structural wood sheathing directly applied or 6-0-0 oc bracing. Structural wood sheathing directly applied or 6-0-0 oc bracing. VEDSC Except on x Read Cions. Structural wood sheathing directly applied or 6-0-0 oc bracing. VEDSC Structural wood sheathing directly applied or 6-0-0 oc bracing. Structural wood sheathing directly applied or 6-0-0 oc bracing. Structural wood sheathing directly applied or 6-0-0 oc bracing. Structural wood sheathing directly applied or 6-0-0 oc bracing. Structural wood sheathing directly applied or 6-0-0 oc bracing. Structural wood sheathing directly applied or 6-0-0 oc bracing. Structural wood sheathing directly applied or 6-0-0 oc bracing. Structural wood sheathing directly applied or 6-0-0 oc bracing. Structural wood sheathing directly applied or 6-0-0 oc bracing. Structural wood sheathing directly applied or 6-0-0 oc bracing. Structural wood sheathing directly applied or 6-0-0 ac	TOP CHORD 2x4 SPF No.2 "Except" TOP CHORD Structural wood sheathing directly applied or 6-8-3 co putins, except 2x4 SPF No.2 "Except" BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing. 2x2-3:20:2x4 SP No.3 Structural wood sheathing directly applied or 6-0-0 oc bracing. VEDGE Rex TONS. (size) 13-0-4-0, 2=-0-40, 18=-0-4-0 Max Upit 13-as PSI(C 30), 2=-125(IC 8), 18=-232(IC 4) Haw SPI No.2 = 2-5(IC 8) Max Upit 13-as PSI(C 30, 2=-256(IC 8), 18=-232(IC 1), 18=-232(IC 1) For CHORD FORCES. (b) Max. Comp./Max. Ten All forces 250 (Ib) or less except when shown. TOP CHORD 328=-27480, 3=-43414960, 2-02-1-06(11), 6: 6-20-931148, 17:18=-587726, 15:17=-3477355, 14:15=-127/659, 13:4-124/662 DF CHORD 328=-12480, 20:0, 2-1=-1445/2848, 18:20=-1915/272, 7:20=-103/616, 4:21=-930/175, 14:15=-127/659, 13:4-124/662 VEBS 8-17=-89/070, 9:17=-1177(11:40; 6:20=-931148, 17:18=-587726, 6:17=445/2848, 18:20=-1915/272, 7:20=-103/616, 4:21=930/175, 1:41=-127/659, 1:41-124/662 Vinct ASEC 9 Tois trus has been designed for a 10.0 pt b totom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide WITES 0.17=-947/305, 1:41=-127/659, 1:41-124/62848, 1:820=-1915/272, 7:20=-103/616, 4:21=-930/175 Vinct ASEC 1.15 1.15 1.15 1.15 1.15 1.15 </td <td>TCLL 25.0 TCDL 20.0 BCLL 0.0 *</td> <td>Plate Grip DOL Lumber DOL Rep Stress Incr</td> <td>1.15 1.15 NO</td> <td>TC 0.59 BC 0.75 WB 0.70</td> <td>Vert(LL) -0.12 Vert(CT) -0.26</td> <td>2 3-21 >999 3 3-21 >539</td> <td>240 180</td> <td>MT20</td> <td>197/144</td>	TCLL 25.0 TCDL 20.0 BCLL 0.0 *	Plate Grip DOL Lumber DOL Rep Stress Incr	1.15 1.15 NO	TC 0.59 BC 0.75 WB 0.70	Vert(LL) -0.12 Vert(CT) -0.26	2 3-21 >999 3 3-21 >539	240 180	MT20	197/144
Max Horz 2=53(LC 8) Max Uplit 13=-98(LC 30), 2=-125(LC 8), 18=-232(LC 4) Max Grav 13=625(LC 22), 2=802(LC 21), 18=2232(LC 1) FORCES. (b) - Max. Comp./Max. Ten All forces 250 (b) or less except when shown. TOP CHORD 3-28=-274/60, 3-4=-2431/450, 4-5=-1741/322, 6-7=-155/1283, T-8=-2521/3668, 59=-280/05(0, 9-10=-80/304, 10-11=-30/60)(4), 11-13=-769/170 BOT CHORD 3-22=-51/298, 3-21=-484/2660, 20-21=-1061/128, 6-20=-931/188, 17-18=-687/246, 15-17=-347/355, 14-15=-127/669, 13-14=-124/662 WEBS 8-17=-89/1037, 9-17=-1107/162, 9-15=-89/857, 10-15=-406/116, 7-18=-350/77, 8-18=-1524/100, 5-21=-326/96, 6-21=-445/2848, 18-20=-1915/272, 7-20=-103/616, 4-21=-930/175 NOTES- 1) Unbalanced roof live loads have been considered for this design. 2) Wind: ASCE 7-16; Vull=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; 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 pondig. 4) This truss has been designed for a 10.0 psf bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members. 6) Provide adequate drainage to prevent water pondig. 7) This truss has been designed for a 10.0 psf bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members. 8) Provide adequate drainage to prevent water pondig. 9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TP1 1. 8) Graphical puritin representation does not depict the size or the orientation of the puritin along the top and/or bottom chord. 9) NALLED ¹ Indicates 3-10(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). December 4,2020	Max Horz 2=53(LC 8) Max Uplit 13=-98(LC 30), 2=-125(LC 8), 18=-232(LC 4) Max Grav 13=625(LC 22), 2=802(LC 21), 18=2232(LC 1) FORCES. (b) - Max. Comp./Max. Ten All forces 250 (b) or less except when shown. TOP CHORD 3-28=-274/60, 34=-2431/450, 45=-1741/322, 6-7=-155/1283, T-8=-2521/466, 39=-2807/06, 9-10=-080/304, 10-11=-080/304, 11-11=-808/304, 11-12=-809/175 NOTES- 1) Unbalanced roof live loads have been considered for this design. 2) Wind: ASCE 7-16; Viii-115mph (3:second gust) Vasd=91mph; TCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; WVFRS (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 in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members. 5) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TP1 1. 6) Graphical purtin representati	TOP CHORD 2x4 SF 1-4: 2x BOT CHORD 2x4 SF BOT CHORD 2x4 SF 2-22,3: WEBS 2x4 SF WEDGE Left: 2x4 SP No.3	x6 SP 2400F 2.0E PF No.2 *Except* -20: 2x4 SPF 1650F 1.5I PF No.2	E		TOP CHORD	2-0-0 oc purlins	(3-11-6 max.): 4	4-8, 9-11.	c purlins, except
 TOP CHORD 3-28=-274/60, 3-4=-2431/450, 4-5=-1741/322, 5-6=-1741/322, 6-7=-156/1283, 7-8=-252/1866, 8-9=-289706, 9-10=-808/304, 10-11=-808/304, 11-13=-769/179 BOT CHORD 3-22=-51/298, 3-21=-484/2660, 20-21=-1061/126, 6-20=-931/188, 17-18=-687/246, 15-17=-347/355, 14-15=-127/162, 9-15=-89/857, 10-15=-406/116, 7-18=-350/77, 8-18=-1524/100, 5-21=-326/96, 6-21=-445/2848, 18-20=-1915/272, 7-20=-103/616, 4-21=-930/175 NOTES- Uhabalanced roof live loads have been considered for this design. WirRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60 Provide adequate drainage to prevent water ponding. This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads. * This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads. * This truss has been designed for a 10.0 psf bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members. Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 13 except (jt=lb) 2-125, 18=-232. This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TP1 1. Graphical pulin representation does not depict the size or the orientation of the purin along the top and/or bottom chord. **NALED* indicates 3-10d (0.148*X3*) or 3-12d (0.148*X3*) to-a-nails per NDS guidlines. In In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B). December 4,2020	 TOP CHORD 3-28=-274/60, 3-4=-2431/450, 4-5=-1741/322, 5-6=-1741/322, 6-7=-1561/283, 7-8=-2521/1866, 8-9=-2897/06, 9-10=-808/304, 10-11=-808/304, 11-13=-769/179 BOT CHORD 3-22=-51/298, 3-21=-484/2660, 20-21=-1061/126, 6-20=931/188, 17-18=-687/246, 15-17=-347/355, 14-15=-127/659, 13-14=-124/662 WEBS 8-17=-891/037, 9-17=-1107/162, 9-15=-89/857, 10-15=-406/116, 7-18=-350/77, 8-18=-1524/100, 5-21=-326/96, 6-21=-445/2848, 18-20=-1915/272, 7-20=-103/616, 4-21=-930/175 NOTES- Uhabalanced roof live loads have been considered for this design. Wind: A5CE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=15f; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60 Provide adequate drainage to prevent water ponding. This truss has been designed for a 10.0 p5 bottom chord live load nonconcurrent with any other live loads. * This truss has been designed for a 10.0 p5 bottom chord ni all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members. Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 13 except (it=lb) 2-125, 18=-232. This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANS/TP1 1. Graphical puritin prepresentation does not depict the size or the orientation of the purilin along the top and/or bottom chord. **NAILED* indicates 3-104 (0.148*x3*) or 3-122 (0.148*x3.25*) toe-nails per NDS guidlines. In In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B). 	Max H Max U	Horz 2=53(LC 8) Jplift 13=-98(LC 30), 2=-	125(LC 8), 18=-2						
 1) Unbalanced roof live loads have been considered for this design. 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=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) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members. 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 13 except (jt=lb) 2=125, 18=232. 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). 	 1) Unbalanced roof live loads have been considered for this design. 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=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) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members. 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 13 except (jt=lb) 2=125, 18=232. 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). 	TOP CHORD 3-28: 78=: BOT CHORD 3-22: 15-17 WEBS 8-17: 8-18:	=-274/60, 3-4=-2431/450 -252/1866, 8-9=-289/706 =-51/298, 3-21=-484/266 7=-347/355, 14-15=-127 =-89/1037, 9-17=-1107/1 =-1524/100, 5-21=-326/9), 4-5=-1741/322, 5, 9-10=-808/304, 50, 20-21=-1061/ /659, 13-14=-124 62, 9-15=-89/85	5-6=-1741/322, 6-7=-15 10-11=-808/304, 11-13 126, 6-20=-931/188, 17- /662 7, 10-15=-406/116, 7-18	55/1283, =-769/179 18=-687/246, =-350/77,				
CARALISA BE Standard		 Unbalanced roof live Wind: ASCE 7-16; V MWFRS (envelope) grip DOL=1.60 Provide adequate di This truss has been will fit between the time Provide mechanical 2=125, 18=232. This truss is designer referenced standard Graphical purlin rep "NAILED" indicates In the LOAD CASE 	Vult=115mph (3-second g) gable end zone; cantiler trainage to prevent water of designed for a 10.0 psf en designed for a live loa bottom chord and any ott I connection (by others) of ed in accordance with the d ANSI/TPI 1. oresentation does not deg 3-10d (0.148"x3") or 3-1 E(S) section, loads applie	gust) Vasd=91mp ver left and right of bottom chord live d of 20.0psf on the ner members. of truss to bearing e 2018 Internation bict the size or the 2d (0.148"x3.25")	h; TCDL=6.0psf; BCDL= exposed ; end vertical le load nonconcurrent with e bottom chord in all are plate capable of withsta nal Residential Code sec e orientation of the purlin toe-nails per NDS guid	ft and right exposed; Lui n any other live loads. as where a rectangle 3- anding 100 lb uplift at joi ctions R502.11.1 and R8 a along the top and/or bo lines.	nber DOL=1.60 pl 6-0 tall by 2-0-0 w nt(s) 13 except (jt= :02.10.2 and	ide	* SCOT SEV SEV PE-200 PE-200	AL ENGLISH

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			RELEASE FOR		
Job	Truss	Truss Type	CONSTRUCTION	Ply	Summit/19 Woodside
2552987	D17	Roof Special	Girder AS NOTED ON PLANS REVIEW	N ,	143853188
2002901		Roor Special	DEVELOPMENT SERVICES		Job Reference (optional)
Builders FirstSource (Valle	y Center), Valley Center, I	KS - 67147,	LEE'S SUMMIT, MISSOURI8.	.240 s M	ar 9 2020 MiTek Industries, Inc. Thu Dec 3 12:44:55 2020 Page 2
			ID:wH4RYhEsTNeL	JP2dXvQ)fi1syQY8e-UfprxgnG7?3e_jvriBxfBHYTmWlou2wQwuU8MgyCgLM
			12/16/2020		
LOAD CASE(S) Standa	rd				
1) Dead + Roof Live (bala	anced): Lumber Increase=1.15	5, Plate Increa	se=1.15		

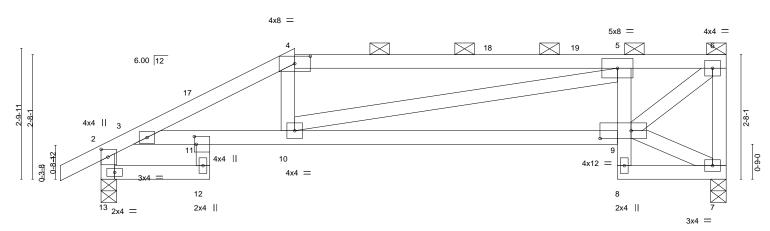
Uniform Loads (plf) Vert: 1-3=-90, 3-4=-90, 4-8=-90, 8-9=-90, 9-11=-90, 11-13=-90, 22-27=-20, 3-20=-20, 19-23=-20

Concentrated Loads (lb) Vert: 22=-210(B) 6=-57(B) 20=-41(B) 30=-36(B) 31=-36(B) 32=-36(B) 34=-62(B) 35=-62(B) 36=-62(B) 36=-60(B) 36=-60

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<u>2-4-0</u> <u>4-1-14</u> 2-4-0 <u>1-9-14</u>	<u> </u>	13-5-0
late Offsets (X,Y) [2:0-2-0,0-1-12], [4:0-4-0,0-1-15], [9:0-8-		
OADING (psf) SPACING- 2-0-0 CLL 25.0 Plate Grip DOL 1.15 CDL 20.0 Lumber DOL 1.15 CLL 0.0 * Rep Stress Incr YES CDL 10.0 Code IRC2018/TPI2014 10.4	CSI. DEFL. in (loc) l/defl L/d TC 0.78 Vert(LL) -0.07 9-10 >999 240 BC 0.53 Vert(CT) -0.16 9-10 >999 180 WB 0.26 Horz(CT) 0.05 7 n/a n/a	PLATES GRIP MT20 197/144 Weight: 54 lb FT = 20%
UMBER- OP CHORD 2x4 SPF No.2 OT CHORD 2x4 SPF No.2 JEBS 2x4 SPF No.2	BRACING- TOP CHORD Structural wood sheathing 2-0-0 oc purlins (3-10-0 m BOT CHORD Rigid ceiling directly applie	
EACTIONS. (size) 7=0-4-0, 13=0-4-0 Max Horz 13=96(LC 11) Max Uplift 7=-82(LC 9), 13=-49(LC 12) Max Grav 7=718(LC 1), 13=817(LC 1) ORCES. (lb) - Max. Comp./Max. Ten All forces 250 (lb) or OP CHORD 2-3=-529/83, 3-4=-1505/215, 4-5=-1345/234, 2-13=-808/180 OT CHORD 3-11=-146/1122, 10-11=-276/1355, 9-10=-18 //EBS 4-10=0/267, 5-10=-102/310, 6-9=-171/1067	5-6=-834/128, 6-7=-663/112,	
MWFRS (envelope) gable end zone and C-C Exterior(2E) -0 Interior(1) 8-4-13 to 13-3-4 zone; cantilever left and right exp MWFRS for reactions shown; Lumber DOL=1.60 plate grip E Provide adequate drainage to prevent water ponding. This truss has been designed for a 10.0 psf bottom chord livu * This truss has been designed for a live load of 20.0psf on ti will fit between the bottom chord and any other members.	h; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; 10-8 to 2-1-8, Interior(1) 2-1-8 to 4-1-14, Exterior(2R) 4-1-14 to 8-4-13, used ; end vertical left and right exposed;C-C for members and forces & OL=1.60 load nonconcurrent with any other live loads. e bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide INSI/TPI 1 angle to grain formula. Building designer should verify plate capable of withstanding 100 lb uplift at joint(s) 7, 13.	STATE OF MISSOL

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.

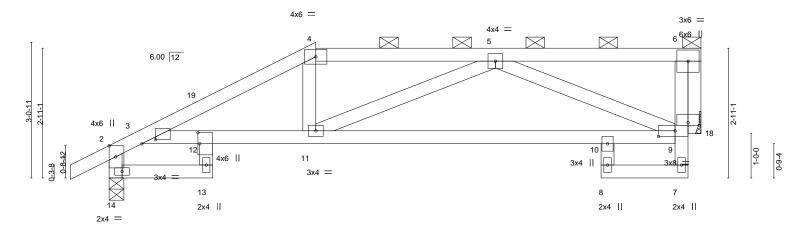


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			RELEASE FOR			
Job	Truss	Truss Type	CONSTRUCTION Ply	Summit/19 Woodside		
2552987	E03	HALF HIP	AS NOTED ON PLANS REVIEW			I43853190
2002001	200		DEVELOPMENT SERVICES	Job Reference (option		
Builders FirstSource (Valley	/ Center), Valley Cente	r, KS - 67147,	LEE'S SUMMIT, MISSOURI8.240 s M	lar 9 2020 MiTek Industi	ries, Inc. Thu Dec 3 12:44:57 2020) Page 1
			ID:wH4RYhEsTNeUP2dXvOf	ilsyQY8e-Q1wcMMpWf	cJLD03Dpcz7GidrvJScM05jOCzFR	ZyCgLK
-0-10-8	2-4-0	4-7-14		11-1-0	13-4-0	
0-10-8	2-4-0	2-3-14	4-0-9	2-4-9	2-3-0	

Scale = 1:26.0



	F	2-4-0	4-7-14				<u>1-1-0</u> 6-5-2			13-4-0	
Plate Offs	ets (X,Y)	[2:0-3-0,Edge], [3:0-3-11			0-4-8,0-1-8]		502			200	
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	0.49	Vert(LL)	-0.08 10-11	>999	240	MT20	197/144
TCDL	20.0	Lumber DOL	1.15	BC	0.67	Vert(CT)	-0.17 10-11	>929	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.40	Horz(CT)	0.05 18	n/a	n/a		
BCDL	10.0	Code IRC2018/T	PI2014	Matrix	(-AS					Weight: 53 lb	FT = 20%

TOP CHORE	D 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied, except end verticals, and
BOT CHORE	2x4 SPF No.2	2-0-0 oc purlins (5-2-4 max.): 4-6.
WEBS	2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied.
OTHERS	2x4 SPF No.2	

REACTIONS. (size) 14=0-4-0, 18=Mechanical Max Horz 14=78(LC 9) Max Uplift 14=-50(LC 12), 18=-73(LC 9)

Max Grav 14=817(LC 1), 18=678(LC 1)

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

- TOP CHORD 2-3=-574/71, 3-4=-1381/180, 4-5=-1201/202, 5-6=-254/0, 6-9=-54/495, 2-14=-802/176
- BOT CHORD 13-14=-131/286, 3-12=-86/930, 11-12=-215/1216, 10-11=-206/1183, 9-10=-144/1206

WEBS 4-11=0/296, 5-9=-1038/273, 6-18=-697/95

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 4-7-14, Exterior(2R) 4-7-14 to 8-8-7, Interior(1) 8-8-7 to 12-10-12 zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Refer to girder(s) for truss to truss connections.
- 7) Bearing at joint(s) 14 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 14, 18.
- 9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 10) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.





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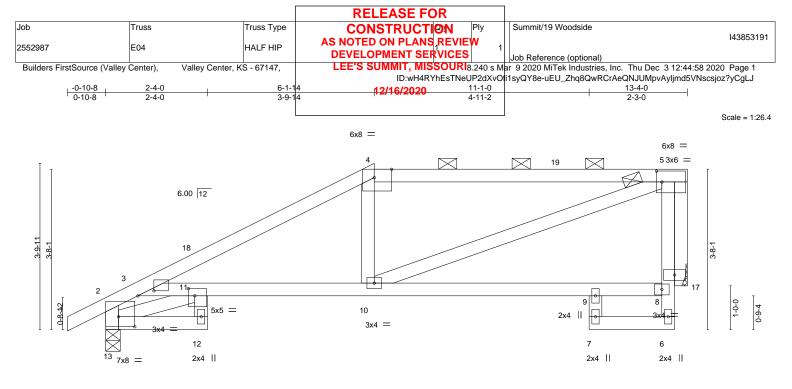


Plate Offsets (X,Y) [2:0-1 LOADING (psf)	2-4-0 1-12,0-0-14], [3:0-4-	7,0-1-6], [4:0-4	3-9-14 -13,Edge], [5:0-1-8,0-3-0	<u> </u> , [11:0-1-12,0-2-0]	4-11-2 , [13:0-4-8,0-2-	12]	l	2-3-0	
	1-12,0-0-14], [3:0-4-	7,0-1-6], [4:0-4	-13,Edge], [5:0-1-8,0-3-0], [11:0-1-12,0-2-0]	, [13:0-4-8,0-2-	121			
OADING (nsf)									
	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.74	Vert(LL)	-0.08 10-11	>999	240	MT20	197/144
CDL 20.0	Lumber DOL	1.15	BC 0.81	Vert(CT)	-0.17 10-11	>915	180		
3CLL 0.0 *	Rep Stress Incr	YES	WB 0.27	Horz(CT)	0.06 17	n/a	n/a		
BCDL 10.0	Code IRC2018/TI	PI2014	Matrix-AS					Weight: 56 lb	FT = 20%

LUMBER-		BRACING-	
TOP CHORD	2x4 SPF No.2	TOP CHORD	Structural wood sheathing directly applied, except end verticals, and
BOT CHORD	2x4 SPF No.2		2-0-0 oc purlins (3-11-6 max.): 4-5.
WEBS	2x4 SPF No.2	BOT CHORD	Rigid ceiling directly applied.
OTHERS	2x4 SPF No.2		

REACTIONS. (size) 13=0-4-0, 17=Mechanical Max Horz 13=101(LC 12) Max Uplift 13=-57(LC 12), 17=-69(LC 9) Max Grav 13=817(LC 1), 17=678(LC 1)

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

- 2-3=-636/118, 3-4=-1185/166, 4-5=-1032/204, 2-13=-813/177 12-13=-118/286, 3-11=-36/674, 10-11=-214/1025, 8-9=-18/270 TOP CHORD
- BOT CHORD

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WEBS
               5-10=-204/861, 5-17=-692/108
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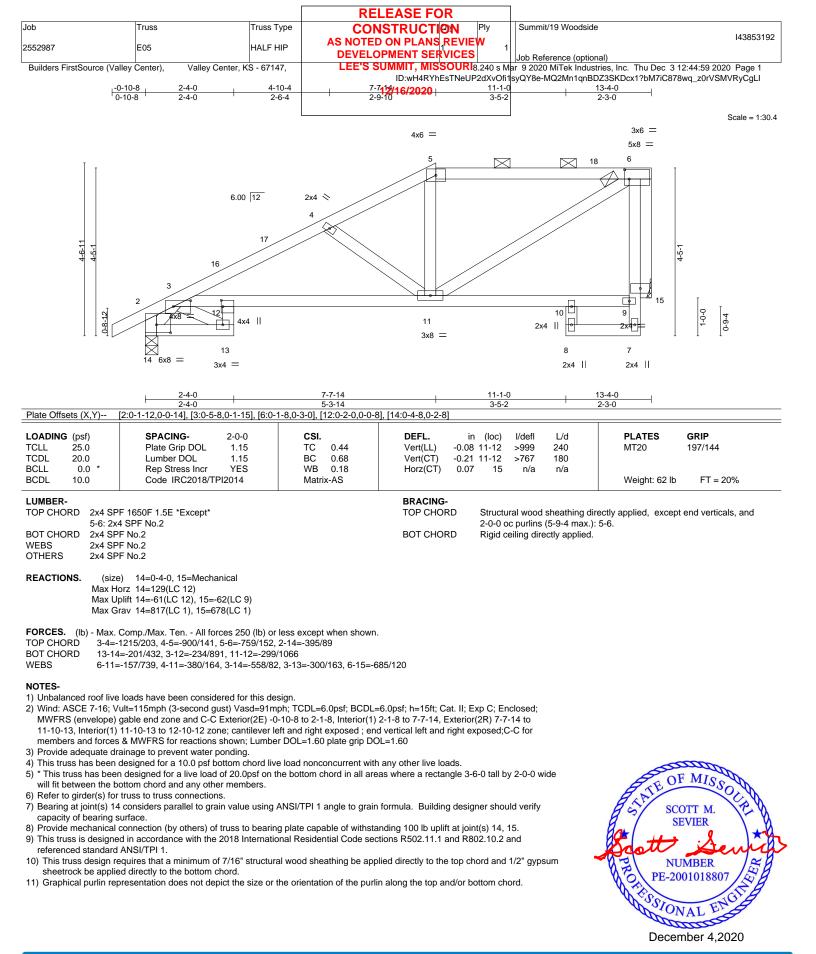
NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8. Interior(1) 2-1-8 to 6-1-14. Exterior(2R) 6-1-14 to 10-4-13. Interior(1) 10-4-13 to 12-10-12 zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Refer to girder(s) for truss to truss connections.
- 7) Bearing at joint(s) 13 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 13, 17.
- 9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 10) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

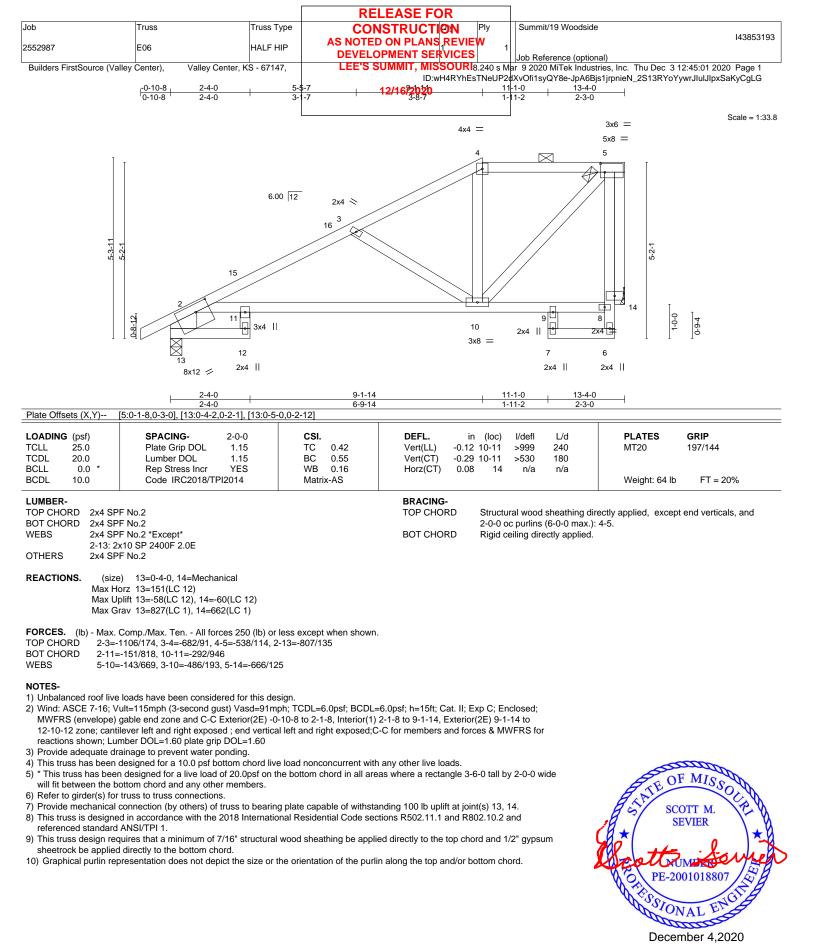




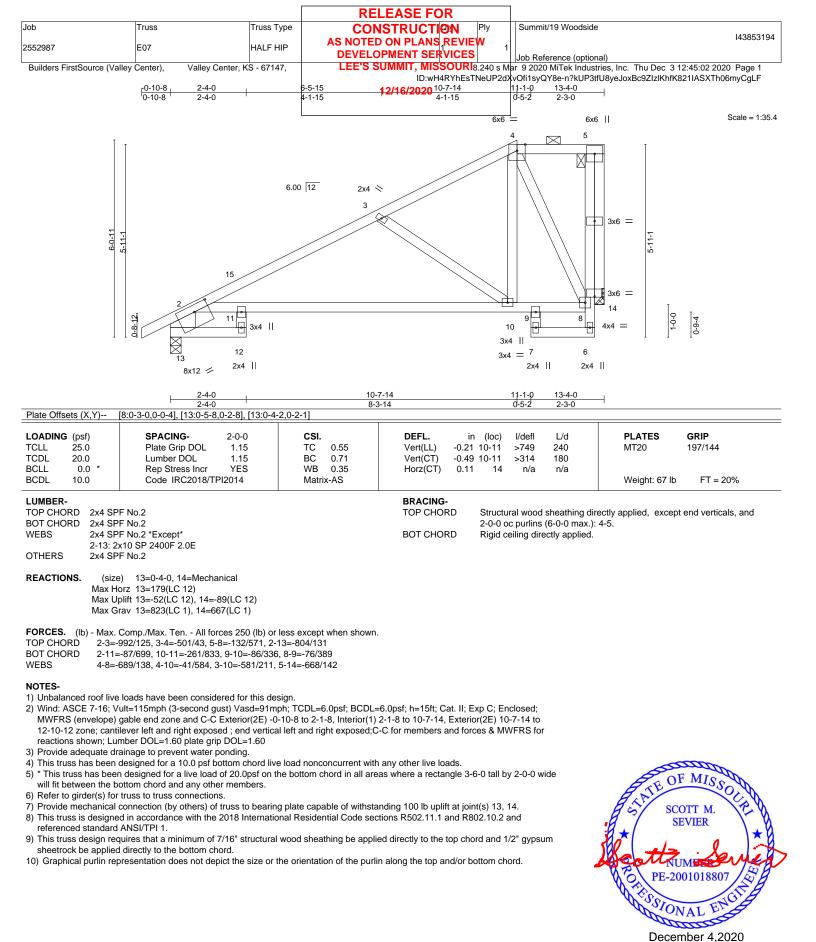
🛦 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE Design valid for use only with MiTeK® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPH 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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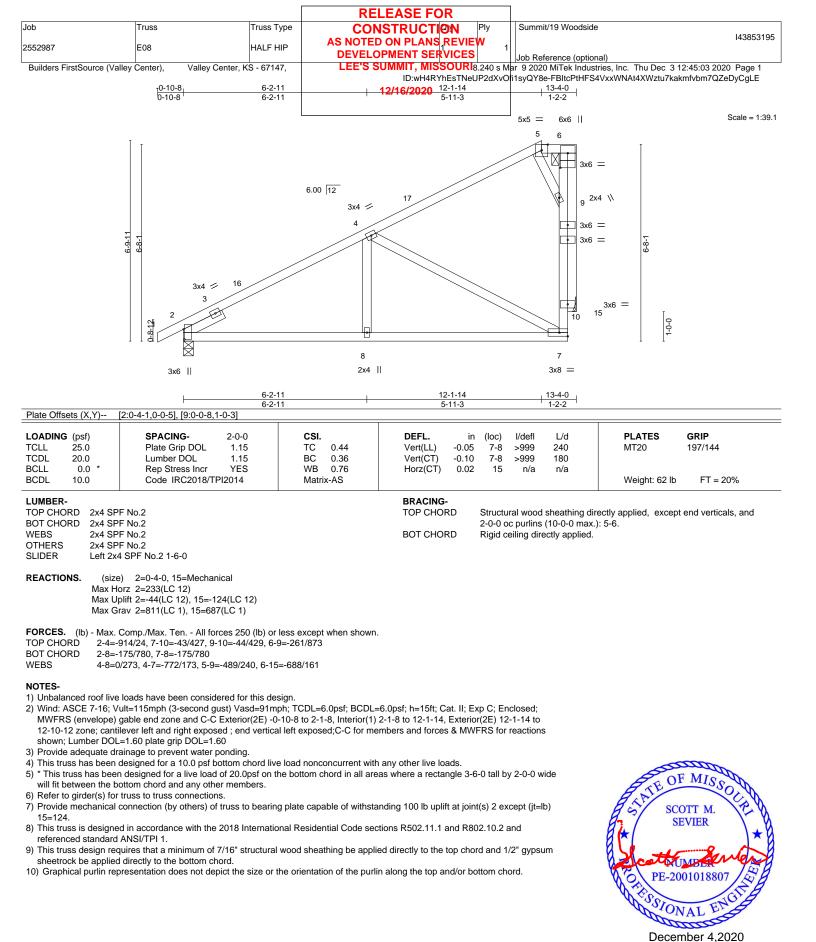


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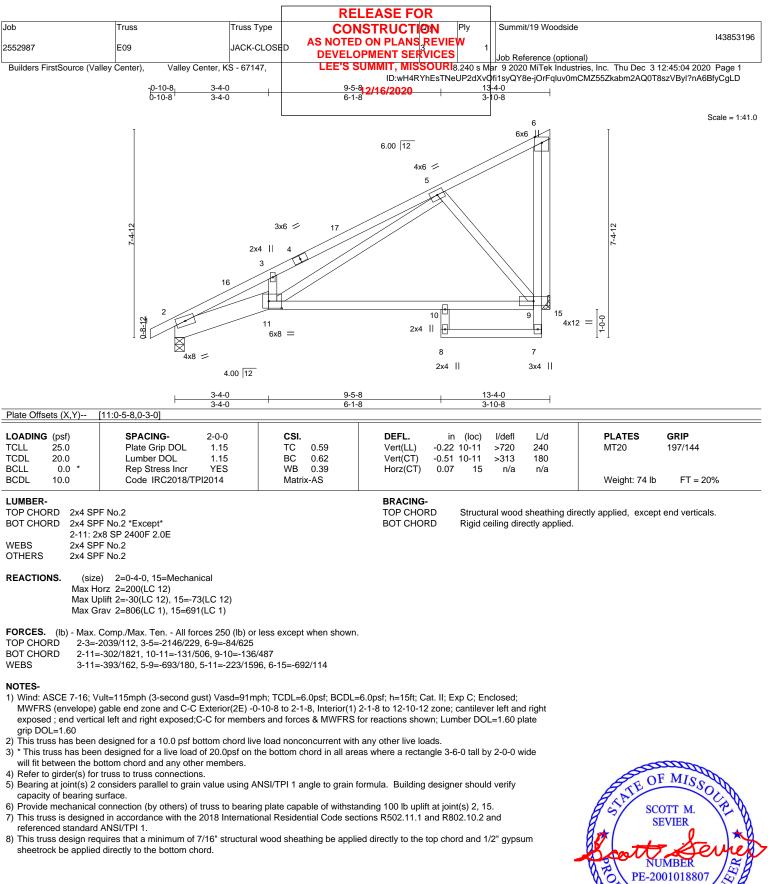




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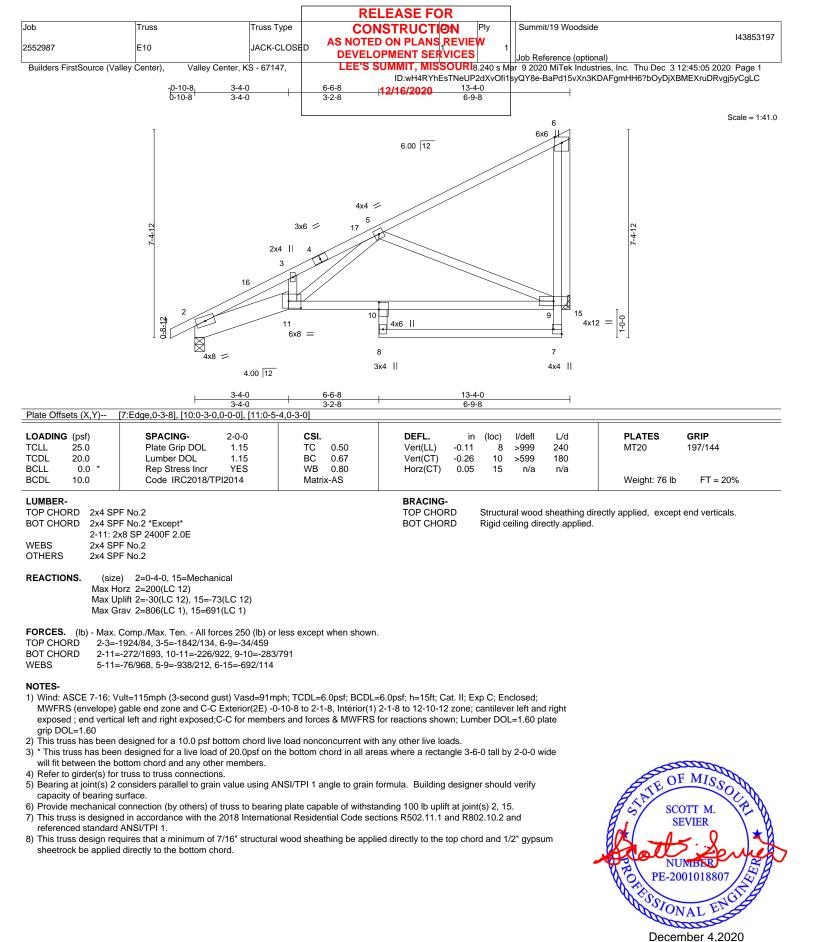




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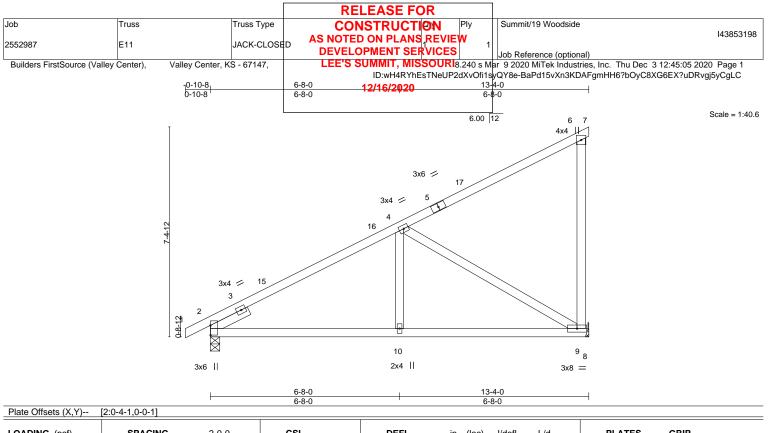
> MiTek 16023 Swingley Ridge Rd Chesterfield, MO 63017

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



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LOADING (psf) TCLL 25.0 TCDL 20.0 BCLL 0.0 * BCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2018/TPI2014	CSI. TC 0.53 BC 0.37 WB 0.79 Matrix-AS	DEFL. in (loc) l/defl L/d Vert(LL) -0.04 9-10 >999 240 Vert(CT) -0.08 9-10 >999 180 Horz(CT) 0.02 9 n/a n/a	PLATES GRIP MT20 197/144 Weight: 55 lb FT = 20%
LUMBER-			BRACING-	

 TOP CHORD
 2x4 SPF No.2

 BOT CHORD
 2x4 SPF No.2

 WEBS
 2x4 SPF No.2

 SLIDER
 Left 2x4 SPF No.2 1-6-0

BRACING-TOP CHORD BOT CHORD

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

REACTIONS. (size) 2=0-4-0, 9=Mechanical Max Horz 2=265(LC 11) Max Uplift 2=-51(LC 12), 9=-58(LC 9) Max Grav 2=800(LC 1), 9=732(LC 1)

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

TOP CHORD 2-4=-872/114

BOT CHORD 2-10=-234/739, 9-10=-234/739

WEBS 4-10=0/283, 4-9=-828/184

NOTES-

 Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; 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 13-4-0 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

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

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

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

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

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

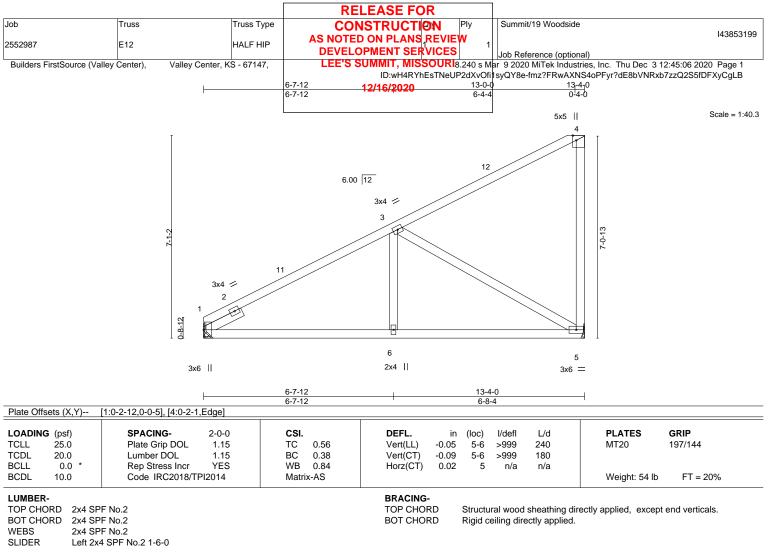
referenced standard ANSI/TPI 1. 7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum

() This truss design requires that a minimum of 7/16" sheetrock be applied directly to the bottom chord.





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REACTIONS. (size) 1=Mechanical, 5=Mechanical Max Horz 1=257(LC 11) Max Uplift 1=-49(LC 12), 5=-118(LC 12)

Max Grav 1=725(LC 1), 5=725(LC 1)

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

TOP CHORD 1-3=-862/124

BOT CHORD 1-6=-228/764, 5-6=-228/764

WEBS 3-6=0/289, 3-5=-855/189

NOTES-

 Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; 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 13-2-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

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

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

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

5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1 except (jt=lb) 5=118.

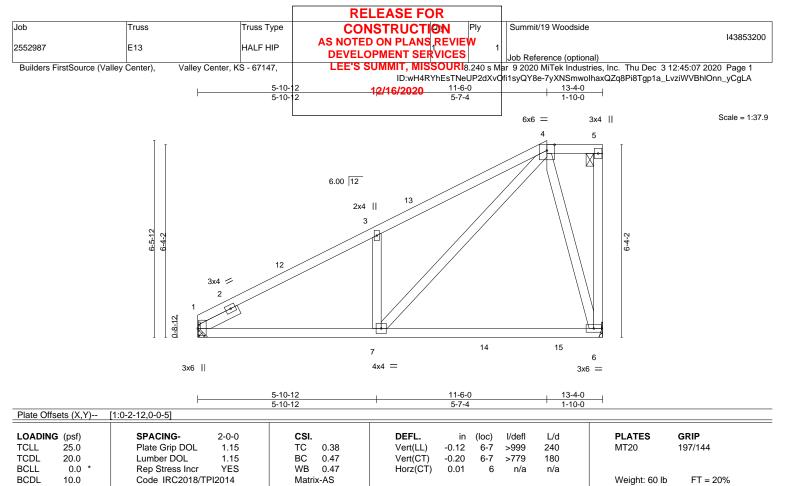
6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

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.



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LUMBER-		BRACING-		
TOP CHORD	2x4 SPF No.2	TOP CHORD	Structural wood sheathing dir	ectly applied, except end verticals, and
BOT CHORD	2x4 SPF No.2		2-0-0 oc purlins (6-0-0 max.):	4-5.
WEBS	2x4 SPF No.2	BOT CHORD	Rigid ceiling directly applied.	
SLIDER	Left 2x4 SPF No.2 1-6-0			

REACTIONS. (size) 1=Mechanical, 6=Mechanical Max Horz 1=221(LC 11) Max Uplift 1=-55(LC 12), 6=-85(LC 12)

Max Grav 1=749(LC 2), 6=772(LC 2)

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

- TOP CHORD 1-3=-1013/125, 3-4=-1036/238
- BOT CHORD 1-7=-252/858
- WEBS 3-7=-517/216, 4-7=-187/961, 4-6=-678/297

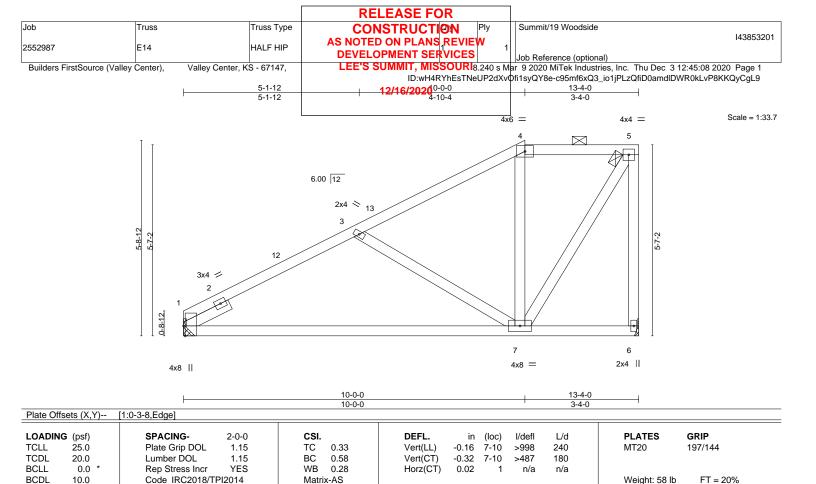
NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=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 11-6-0, Exterior(2E) 11-6-0 to 13-2-4 zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 6) Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 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.



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	 _	_	_		

LUMBER-		BRACING-	
TOP CHORD	2x4 SPF No.2	TOP CHORD	Structural wood sheathing directly applied, except end verticals, and
BOT CHORD	2x4 SPF No.2		2-0-0 oc purlins (6-0-0 max.): 4-5.
WEBS	2x4 SPF No.2	BOT CHORD	Rigid ceiling directly applied.
SLIDER	Left 2x4 SPF No.2 1-6-0		

REACTIONS. (size) 1=Mechanical, 6=Mechanical Max Horz 1=193(LC 11) Max Uplift 1=-57(LC 12), 6=-69(LC 9)

Max Grav 1=725(LC 1), 6=725(LC 1)

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

1-3=-903/166, 3-4=-529/109, 4-5=-386/124, 5-6=-727/181 TOP CHORD

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BOT CHORD
              1-7=-299/808
```

```
WEBS
               3-7=-501/178, 5-7=-179/714
```

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-0-0 to 3-0-0, Interior(1) 3-0-0 to 10-0-0, Exterior(2E) 10-0-0 to 13-2-4 zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 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.

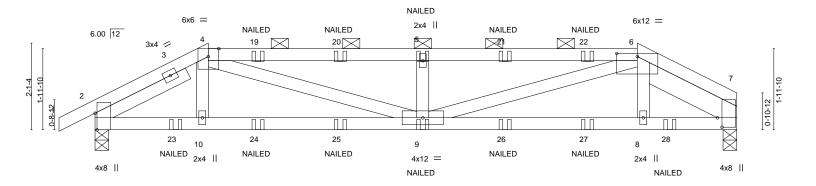


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				RELEASE FOR		
Job	Truss	Truss Type			Summit/19 Woodside	
2552987	G01	Hip Girder		S NOTED ON PLANS REVIEW		143853202
				DEVELOPMENT SERVICES	Job Reference (optional)	
Builders FirstSource (Valley	Center), Valley Ce	enter, KS - 67147,		LEE'S SUMMIT, MISSOURI8.240 s M	ar 9 2020 MiTek Industries, Inc.	Thu Dec 3 12:45:10 2020 Page 1
				ID:wH4RYhEsTNeUP2dX	Ofi1syQY8e-YXDW4ozgbcyVH02	Zj4riAIRfxhYsJvuDdNjdROJyCgL7
, -0-10-8	2-9-0		7-11-8	12/16/2020	13-2-0	15-7-0
0-10-8	2-9-0		5-2-8	12/10/2020	5-2-8	2-5-0





L	2-9-0	7-11-8		13-2-0	15-7-0
Plate Offsets (X,Y)	2-9-0 [2:0-4-13,Edge], [6:0-6-0,0-0-15], [7:0-2	5-2-8		5-2-8	2-5-0
LOADING (psf) TCLL 25.0 TCDL 20.0 BCLL 0.0 BCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr NO Code IRC2018/TPI2014	CSI. TC 0.99 BC 0.82 WB 0.41 Matrix-MS	DEFL. i Vert(LL) -0.10 Vert(CT) -0.23 Horz(CT) 0.03	3 9-10 >815 180	PLATES GRIP MT20 197/144 Weight: 62 lb FT = 20%
LUMBER- TOP CHORD 2x4 SP BOT CHORD 2x4 SP WEBS 2x4 SP SLIDER Left 2x4	F No.2	2-6-0	BRACING- TOP CHORD BOT CHORD	Structural wood sheathing dir 2-0-0 oc purlins (2-1-2 max.): Rigid ceiling directly applied o	
Max H. Max U Max G FORCES. (lb) - Max. TOP CHORD 2-4=- BOT CHORD 2-10=	 P=0-4-0, 2=0-4-0 point 7=-140(LC 9), 2=-156(LC 8) rav 7=1299(LC 1), 2=1364(LC 1) Comp./Max. Ten All forces 250 (lb) o 1996/209, 4-5=-3171/336, 5-6=-3171/3 -179/1767, 9-10=-183/1751, 8-9=-149/ -0/255, 4-9=-181/1530, 5-9=-769/214, 6 	37, 6-7=-253/81 1628, 7-8=-144/1647			
NOTES- 1) Unbalanced roof live 2) Wind: ASCE 7-16; V MWFRS (envelope) grip DOL=1.60 3) Provide adequate dr 4) This truss has been 5) * This truss has been	Ioads have been considered for this duals have been considered for this dualt=115mph (3-second gust) Vasd=91r gable end zone; cantilever left and righ ainage to prevent water ponding. designed for a 10.0 psf bottom chord lim n designed for a live load of 20.0psf on ottom chord and any other members.	esign. hph; TCDL=6.0psf; BCDL= t exposed ; end vertical lef re load nonconcurrent with	=6.0psf; h=15ft; Cat. II; I ft and right exposed; Lu n any other live loads.	mber DOL=1.60 plate	
 6) Provide mechanical 7=140, 2=156. 7) This truss is designe referenced standard 8) Graphical purlin reprised 9) "NAILED" indicates 3 	connection (by others) of truss to beari	onal Residential Code sec he orientation of the purlin ") toe-nails per NDS guidi	ctions R502.11.1 and R along the top and/or bo lines.	302.10.2 and	STATE OF MISSOL
LOAD CASE(S) Stand			(.) 5. 200K (B).		NUMBER NUMBER

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

Uniform Loads (plf)

Vert: 1-4=-90, 4-6=-90, 6-7=-90, 11-15=-20

OFFESSIONAL December 4,2020 MiTek 16023 Swingley Ridge Rd Chesterfield, MO 63017

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PE-200101880

Continued on page 2

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

			RELEASE FOR	
Job	Truss	Truss Type	CONSTRUCTION Ply	Summit/19 Woodside
2552987	G01	Hip Girder	AS NOTED ON PLANS REVIEW	143853202
2002001	601		DEVELOPMENT SERVICES	Job Reference (optional)
Builders FirstSource	(Valley Center), Val	ley Center, KS - 67147,	LEE'S SUMMIT, MISSOURI8.240 s N	ar 9 2020 MiTek Industries, Inc. Thu Dec 3 12:45:10 2020 Page 2
			ID:wH4RYhEsTNeUP2dX	Ofi1syQY8e-YXDW4ozgbcyVH0Zj4riAlRfxhYsJvuDdNjdROJyCgL7
LOAD CASE(S) Sta			12/16/2020	

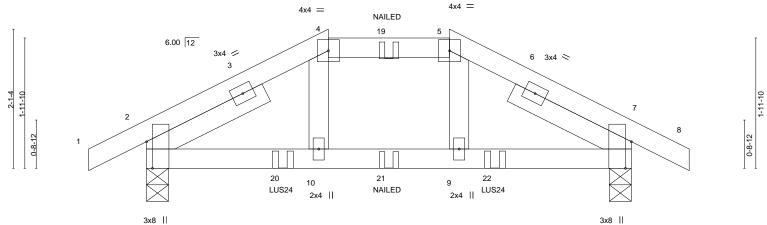
Concentrated Loads (lb) Vert: 9=-41(F) 5=-57(F) 19=-57(F) 20=-57(F) 21=-57(F) 22=-57(F) 23=-191(F) 24=-41(F) 25=-41(F) 26=-41(F) 27=-41(F) 28=-191(F) 26=-41(F) 26=-41

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Scale = 1:17.4



3x8 ||

	2-9-0	4-7-0	7-4-0	1
	2-9-0	1-10-0	2-9-0	
Plate Offsets (X,Y) [2:0-4-13.E	dae]. [7:0-4-13.Edae]			

LOADING (psf) TCLL 25.0 TCDL 20.0 BCLL 0.0 * BCDL 10.0	SPACING-2-0-0Plate Grip DOL1.15Lumber DOL1.15Rep Stress IncrNOCodeIRC2018/TPI2014	CSI. TC 0.19 BC 0.40 WB 0.07 Matrix-MP	DEFL. in (loc) l/defl L/d Vert(LL) 0.02 10-13 >999 240 Vert(CT) -0.03 10-13 >999 180 Horz(CT) 0.01 7 n/a n/a
LUMBER- TOP CHORD 2x4 SPI	F No.2		BRACING- TOP CHORD Structural wood sheathing directly applied or 5-7-6 oc purlins, except

BOT CHORD

2-0-0 oc purlins (6-0-0 max.): 4-5.

Rigid ceiling directly applied or 7-6-8 oc bracing.

BOT CHORD 2x4 SPF No.2 WEBS 2x4 SPF No.2 Left 2x4 SPF No.2 2-0-0, Right 2x4 SPF No.2 2-0-0 SLIDER

REACTIONS. (size) 2=0-4-0, 7=0-4-0 Max Horz 2=28(LC 33) Max Uplift 2=-468(LC 8), 7=-468(LC 9) Max Grav 2=884(LC 35), 7=884(LC 36)

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

2-4=-1068/647, 4-5=-907/559, 5-7=-1068/647 TOP CHORD

BOT CHORD 2-10=-544/953. 9-10=-525/925. 7-9=-547/955

WEBS 4-10=-264/395, 5-9=-264/395

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=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) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=468, 7=468.
- 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) Use Simpson Strong-Tie LUS24 (4-SD9112 Girder, 2-SD9212 Truss, Single Ply Girder) or equivalent spaced at 3-2-8 oc max.
- starting at 2-0-12 from the left end to 5-3-4 to connect truss(es) to front face of bottom chord.

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

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

LOAD CASE(S) Standard

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

Vert: 1-4=-90, 4-5=-90, 5-8=-90, 11-15=-20

Continued on page 2

🔺 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE Design valid to use only design parameters and READ NOTES ON THIS AND INCLUDED WITH REPORT PAGE MIT 475 169, 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 quidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TP11 Quality Criteria, DSB-89 and BCSI Building Component
 Satisfies
 Ansi/TPH Qu

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



December 4,2020

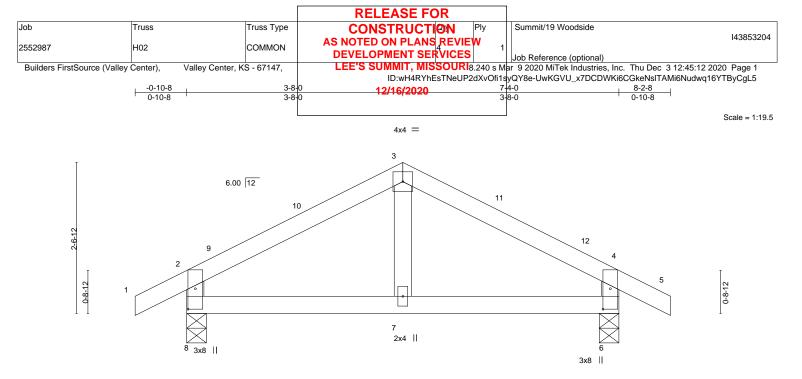


			RELEASE FOR		
Job	Truss	Truss Type		Ply	Summit/19 Woodside
2552987	H01	HIP GIRDER	AS NOTED ON PLANS REVIE	EW 1	143853203
2002001			DEVELOPMENT SERVICES	-	Job Reference (optional)
Builders FirstSource (Valley 0	Center), Valley Center, K	S - 67147,	LEE'S SUMMIT, MISSOUR	8.240 s M	ar 9 2020 MiTek Industries, Inc. Thu Dec 3 12:45:11 2020 Page 2
			ID:wH4RYhEsT	NeUP2dX	Ofi1syQY8e-0kmul8_IMv4MuA8veYDPrfCJ1yIzeQjncNM_wlyCgL6
			12/16/2020		
LOAD CASE(S) Standard					
Concentrated Loads (lb)					

Concentrated Loads (lb) Vert: 19=-57(F) 20=-197(F) 21=-41(F) 22=-197(F)

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





		3-8-0 3-8-0			-4-0 -8-0	
Plate Offsets (X,Y)	[6:0-4-3,0-1-8], [8:0-4-3,0-1-8]					
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL.	in (loc)	l/defl L/d	PLATES GRIP
TCLL 25.0	Plate Grip DOL 1.15	TC 0.23	Vert(LL) -0.0)1 7	>999 240	MT20 197/144
TCDL 20.0	Lumber DOL 1.15	BC 0.15	Vert(CT) -0.0	01 7	>999 180	
BCLL 0.0 *	Rep Stress Incr YES	WB 0.03	Horz(CT) 0.0	00 6	n/a n/a	
BCDL 10.0	Code IRC2018/TPI2014	Matrix-AS				Weight: 23 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

REACTIONS. (size) 8=0-4-0, 6=0-4-0 Max Horz 8=-43(LC 10) Max Uplift 8=-46(LC 12), 6=-46(LC 13)

Max Grav 8=479(LC 1), 6=479(LC 1)

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

2-3=-414/158, 3-4=-414/158, 2-8=-426/208, 4-6=-426/207 TOP CHORD

BOT CHORD 7-8=-57/295, 6-7=-57/295

NOTES-

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

2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=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 3-8-0, Exterior(2R) 3-8-0 to 6-8-0, Interior(1) 6-8-0 to 8-2-8 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) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.

5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 8, 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) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

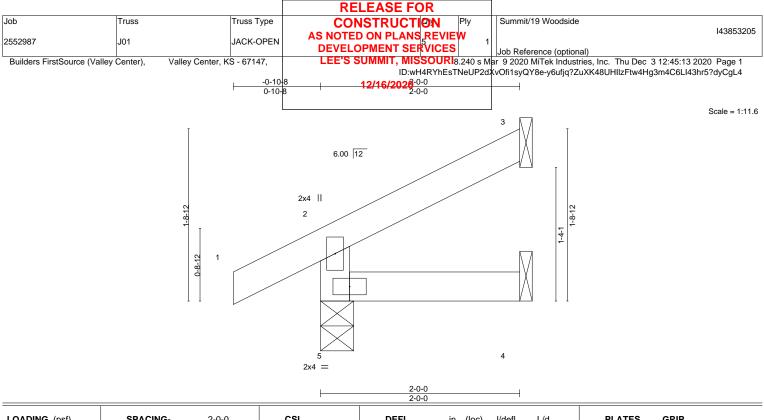


Structural wood sheathing directly applied, except end verticals.

Rigid ceiling directly applied.

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	u /	SPACING-	2-0-0	CSI.		DEFL.		(loc)	l/defl	L/d	PLATES	GRIP
TCLL TCDL	25.0 20.0	Plate Grip DOL Lumber DOL	1.15 1.15	TC BC	0.09 0.04	Vert(LL) Vert(CT)	-0.00 -0.00	5 4-5	>999 >999	240 180	MT20	197/144
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	912014	Matri	x-MR						Weight: 6 lb	FT = 20%

LUMBER-

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

BRACING-TOP CHORD

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

REACTIONS. (size) 5=0-4-0, 3=Mechanical, 4=Mechanical Max Horz 5=44(LC 12) Max Uplift 5=-18(LC 12), 3=-28(LC 12)

Max Grav 5=219(LC 1), 3=61(LC 1), 4=33(LC 3)

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

NOTES-

 Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=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) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.

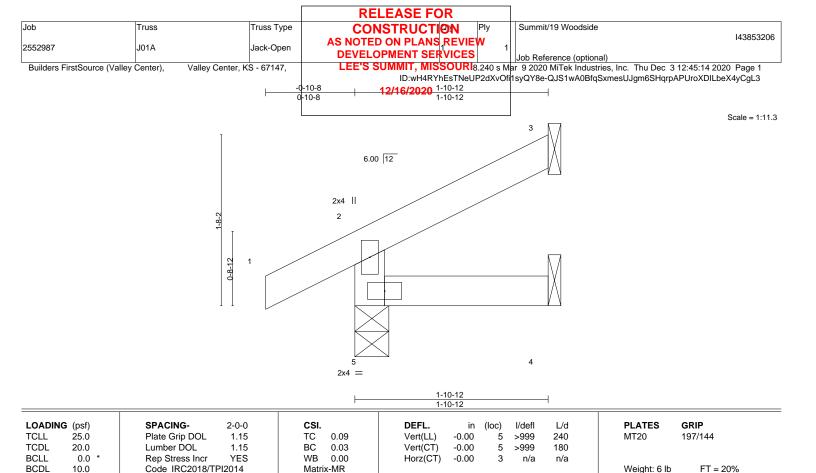
Refer to girder(s) for truss to truss connections.

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



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BRACING-

TOP CHORD

BOT CHORD

NOTES 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; 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

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

5=0-4-0, 3=Mechanical, 4=Mechanical

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

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

2x4 SPF No.2

2x4 SPF No.2

2x4 SPF No.2

Max Horz 5=42(LC 12)

Max Uplift 5=-18(LC 12), 3=-27(LC 12) Max Grav 5=214(LC 1), 3=56(LC 1), 4=31(LC 3) FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

(size)

LUMBER-

WEBS

TOP CHORD

BOT CHORD

REACTIONS.

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



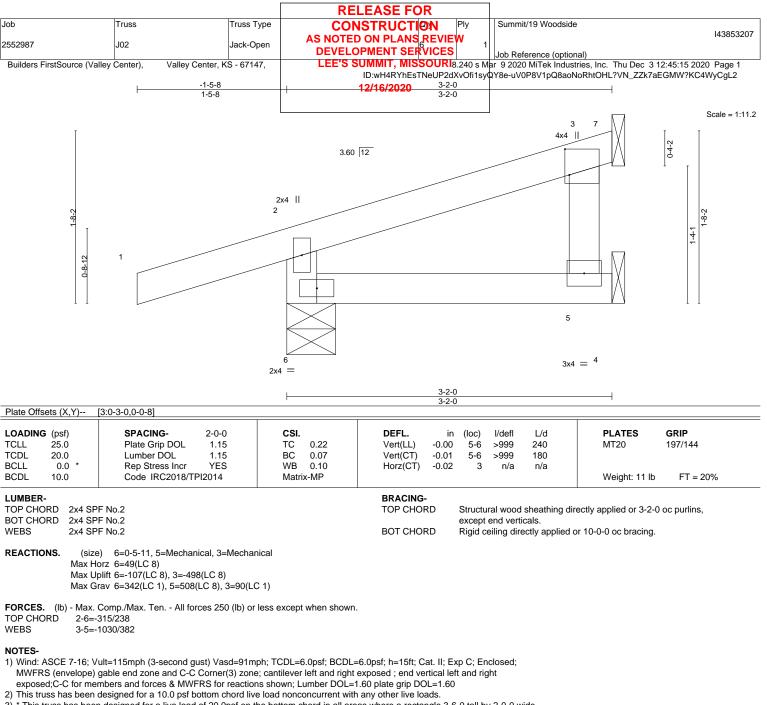
Structural wood sheathing directly applied or 1-10-12 oc purlins,

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

except end verticals

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

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

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

6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 6=107, 3=498.

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.

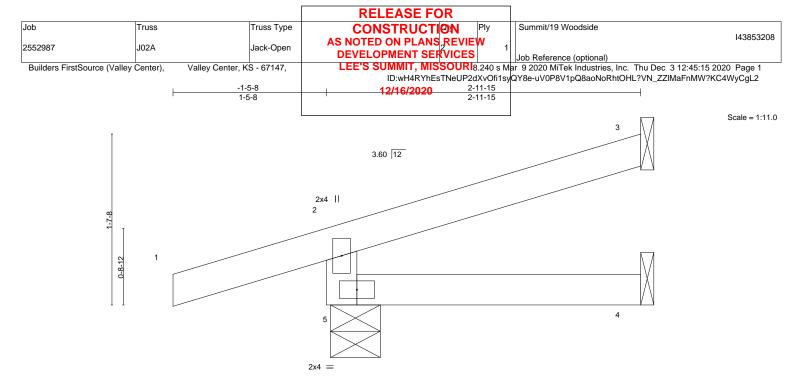
8) Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.



MII

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





			<u>2-11-15</u> 2-11-7			
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d	PLATES GRIP		
TCLL 25.0 TCDL 20.0	Plate Grip DOL 1.15 Lumber DOL 1.15	TC 0.22 BC 0.06	Vert(LL) -0.00 4-5 >999 240 Vert(CT) -0.00 4-5 >999 180	MT20 197/144		
BCLL 0.0 * BCDL 10.0	Rep Stress Incr YES Code IRC2018/TPI2014	WB 0.00 Matrix-MR	Horz(CT) 0.00 3 n/a n/a	Weight: 9 lb FT = 20%		

LUMBER-

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

BRACING-TOP CHORD

Structural wood sheathing directly applied or 2-11-15 oc purlins, except end verticals. Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 5=0-5-11, 3=Mechanical, 4=Mechanical Max Horz 5=47(LC 8) Max Uplift 5=-82(LC 8), 3=-31(LC 12) Max Grav 5=339(LC 1), 3=91(LC 1), 4=48(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-5=-304/198

NOTES-

 Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; 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) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.

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

5) 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.

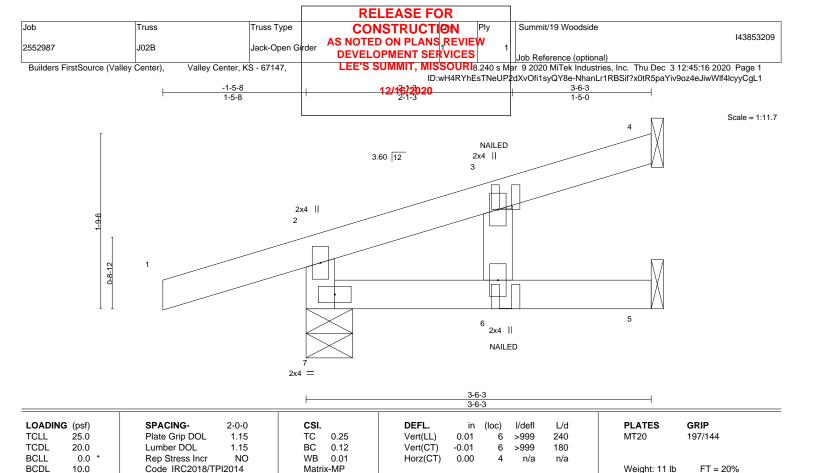
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 3.
 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and

referenced standard ANSI/TPI 1.



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BRACING-

TOP CHORD

BOT CHORD

LUMBER-

WEBS

TOP CHORD

BOT CHORD

REACTIONS.

Max Horz 7=53(LC 4) Max Uplift 7=-83(LC 4), 4=-24(LC 8), 5=-1(LC 8)

Max Grav 7=361(LC 1), 4=95(LC 1), 5=58(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-7=-294/88

7=0-5-11, 4=Mechanical, 5=Mechanical

NOTES-

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.

2x4 SPF No.2

2x4 SPF No.2

2x4 SPF No.2

(size)

- 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) 7, 4, 5. 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and
- referenced standard ANSI/TPI 1. 8) "NAILED" indicates 3-10d (0.148"x3") or 2-12d (0.148"x3.25") toe-nails per NDS guidlines.
- In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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

Vert: 1-2=-90, 2-4=-90, 5-7=-20



Structural wood sheathing directly applied or 3-6-3 oc purlins,

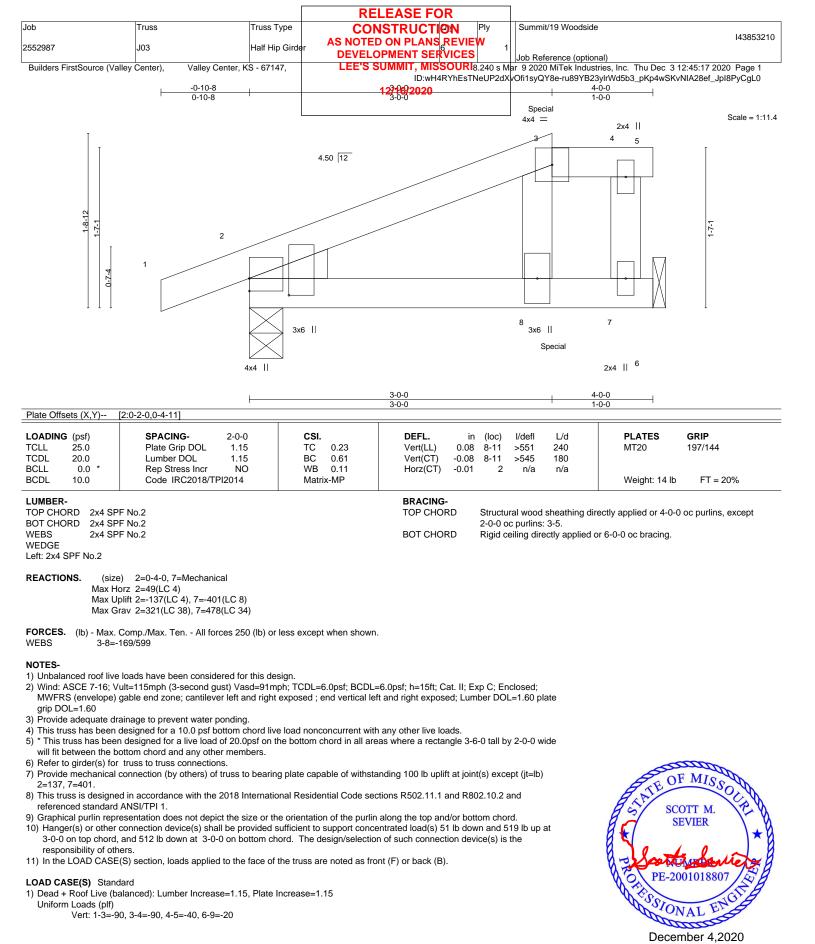
Rigid ceiling directly applied or 10-0-0 oc bracing

except end verticals.

December 4,2020



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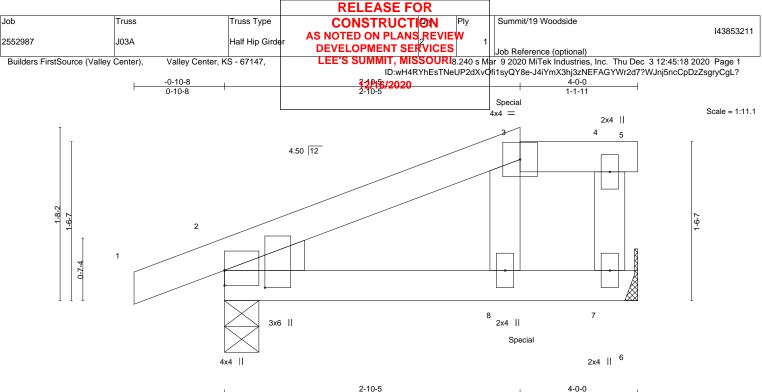
Continued on page 2

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



			RELEASE FOR	
Job	Truss	Truss Type	CONSTRUCTION Ply	Summit/19 Woodside
2552987	JO3	Half Hip Girder	AS NOTED ON PLANS REVIEW	143853210
2332301	505		DEVELOPMENT SERVICES	Job Reference (optional)
Builders FirstSource (Valle	y Center), Valley	Center, KS - 67147,	LEE'S SUMMIT, MISSOURI8.240 s M	ar 9 2020 MiTek Industries, Inc. Thu Dec 3 12:45:17 2020 Page 2
			ID:wH4RYhEsTNeUP2dX	VOfi1syQY8e-ru89YB23ylrWd5b3_pKp4wSKvNIA28ef_JpI8PyCgL0
			12/16/2020	
LOAD CASE(S) Standar				
Concentrated Loads (II	o)			
Vert: 8=-6(B)				





2-	I	υ	-
2-	1	0	-

2-10-5	

1-1-11

except end verticals, and 2-0-0 oc purlins: 3-5.

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

DADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d	PLATES GRIP
TCLL 25.0	Plate Grip DOL 1.15	TC 0.19	Vert(LL) -0.02 8-11 >999 240	MT20 197/144
TCDL 20.0	Lumber DOL 1.15	BC 0.31	Vert(CT) -0.04 8-11 >999 180	
BCLL 0.0 *	Rep Stress Incr NO	WB 0.02	Horz(CT) 0.01 2 n/a n/a	
BCDL 10.0	Code IRC2018/TPI2014	Matrix-MP		Weight: 14 lb FT = 20%

BOT CHORD

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

REACTIONS. (size) 7=Mechanical, 2=0-4-0

> Max Horz 2=51(LC 7) Max Uplift 7=-26(LC 5), 2=-51(LC 4) Max Grav 7=211(LC 1), 2=292(LC 1)

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

NOTES-

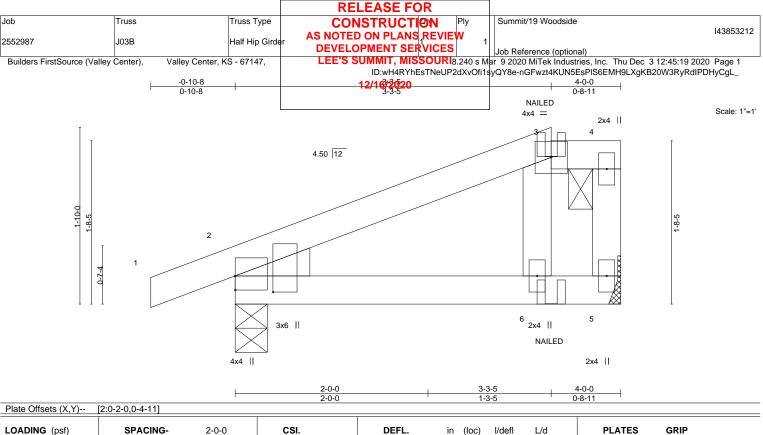
- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber 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) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 7, 2.
- 8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 64 lb down and 69 lb up at 2-10-5 on top chord, and 14 lb down and 3 lb up at 2-10-5 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 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=-90, 3-4=-90, 4-5=-40, 6-9=-20 Concentrated Loads (lb) Vert: 8=3(B)







LOADING (psf) TCLL 25.0 TCDL 20.0 BCLL 0.0 * BCDL 10.0 *	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr NO Code IRC2018/TPI2014	CSI. TC 0.23 BC 0.33 WB 0.02 Matrix-MP	DEFL. Vert(LL) -0.0 Vert(CT) -0.0 Horz(CT) 0.0	4 6-9	l/defl >999 >999 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 14 lb	GRIP 197/144 FT = 20%
LUMBER- TOP CHORD 2x4 SF	PF No.2		BRACING- TOP CHORD	Structu	ural wood	sheathing d	irectly applied or 4-0-0	oc purlins,

BOT CHORD

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

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

 TOP CHORD
 2x4 SPF No.2

 BOT CHORD
 2x4 SPF No.2

 WEBS
 2x4 SPF No.2

 WEDGE
 Left: 2x4 SPF No.2

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

Max Horz 2=58(LC 7) Max Uplift 5=-35(LC 5), 2=-53(LC 4) Max Grav 5=230(LC 1), 2=306(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=6.0psf; 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) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 2.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 10) "NAILED" indicates 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).

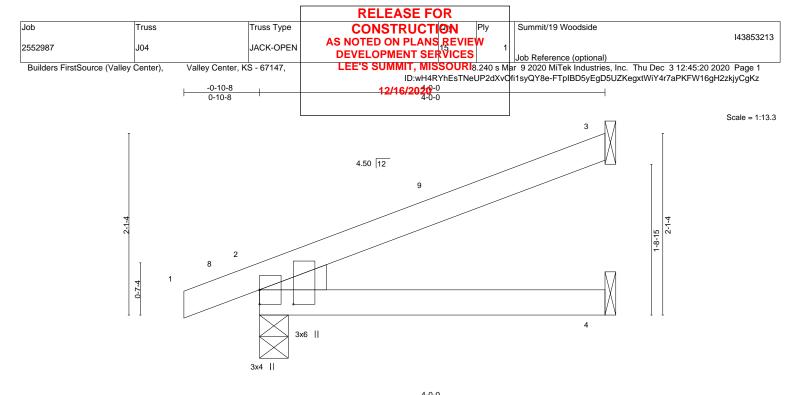
LOAD CASE(S) Standard

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

Vert: 1-3=-90, 3-4=-90, 5-7=-20 Concentrated Loads (lb) Vert: 3=-3(F) 6=-29(F)



16023 Swingley Ridge Rd Chesterfield, MO 63017



						4-0-0						
						4-0-0						
'late Offs	sets (X,Y) [[2:0-2-0,0-4-11]										
	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.23	Vert(LL)	0.02	4-7	>999	240	MT20	197/144
CDL	20.0	Lumber DOL	1.15	BC	0.20	Vert(CT)	-0.03	4-7	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.01	2	n/a	n/a		
BCDL	10.0	Code IRC2018/T	PI2014	Matrix	-AS						Weight: 12 lb	FT = 20%

LUMBER-

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

Structural wood sheathing directly applied. Rigid ceiling directly applied.

REACTIONS. (size) 3=Mechani

(size) 3=Mechanical, 2=0-4-0, 4=Mechanical Max Horz 2=66(LC 8) Max Uplift 3=-44(LC 12), 2=-40(LC 8) Max Grav 3=147(LC 1), 2=304(LC 1), 4=77(LC 3)

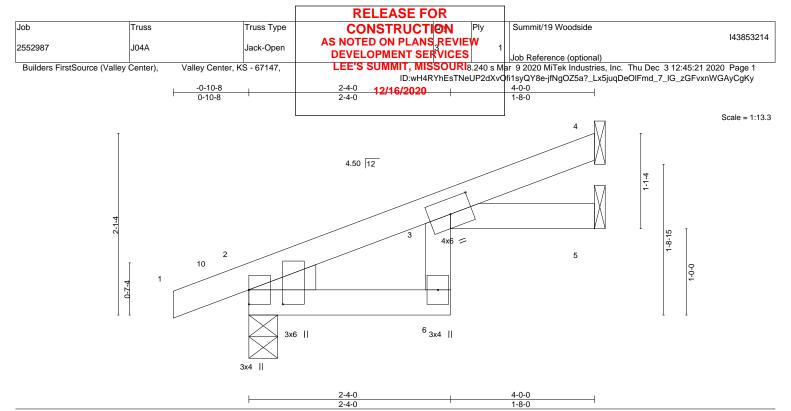
FORCES. (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) or less except when shown.

NOTES-

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=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) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 2.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 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.







OADING (psf) CLL 25.0 CDL 20.0 SCLL 0.0 *	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES	CSI. TC 0.34 BC 0.22 WB 0.00	DEFL. ir Vert(LL) -0.02 Vert(CT) -0.04 Horz(CT) 0.03	6 6	l/defl >999 >999 n/a	L/d 240 180 n/a	PLATES MT20	GRIP 197/144
SCDL 10.0	Code IRC2018/TPI2014	Matrix-AS					Weight: 13 lb	FT = 20%

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) 4=Mechanical, 2=0-4-0, 5=Mechanical Max Horz 2=66(LC 8)

Max Uplift 4=-32(LC 12), 2=-40(LC 8), 5=-5(LC 12) Max Grav 4=126(LC 1), 2=304(LC 1), 5=82(LC 1)

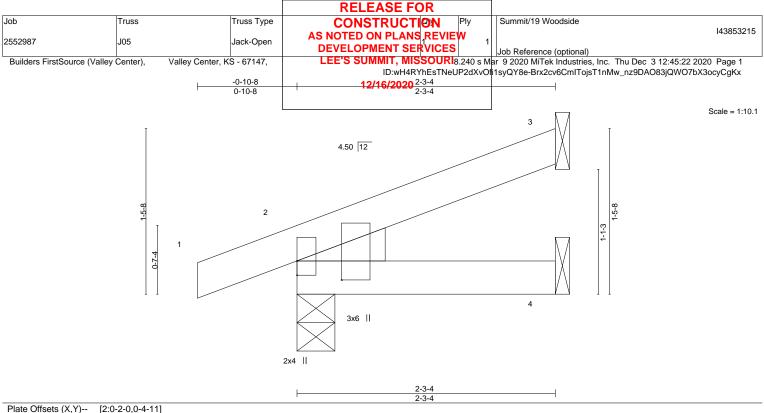
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-2-4, Interior(1) 2-2-4 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) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 2, 5.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.







LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (lo	oc) I/defl L/d	PLATES GRIP
TCLL 25.0	Plate Grip DOL 1.15	TC 0.07	Vert(LL) -0.00	7 >999 240	MT20 197/144
TCDL 20.0	Lumber DOL 1.15	BC 0.05	Vert(CT) -0.00	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-MP			Weight: 7 lb FT = 20%

LUMBER-

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

Structural wood sheathing directly applied or 2-3-4 oc purlins. Rigid ceiling directly applied or 10-0-0 oc bracing.

Len. 2x4 SPF M

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

Max Horz 2=44(LC 8) Max Uplift 3=-22(LC 12), 2=-38(LC 8) Max Grav 3=72(LC 1), 2=216(LC 1), 4=41(LC 3)

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

NOTES-

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=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.

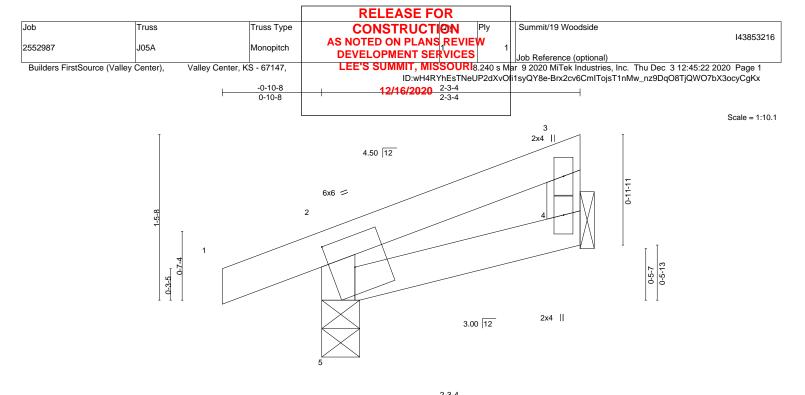
3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.

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

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







OADING	(psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
CLL	25.0	Plate Grip DOL	1.15	TC	0.09	Vert(LL)	-0.00	5	>999	240	MT20	197/144
CDL	20.0	Lumber DOL	1.15	BC	0.03	Vert(CT)	-0.00	4-5	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.00	4	n/a	n/a		
SCDL	10.0	Code IRC2018/TI	PI2014	Matrix	k-MR						Weight: 7 lb	FT = 20%

BOT CHORD

except end verticals.

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

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

REACTIONS. (size) 4=Mechanical, 5=0-4-0 Max Horz 5=44(LC 9)

Max Horz 5=44(LC 9) Max Uplift 4=-14(LC 12), 5=-49(LC 8) Max Grav 4=85(LC 1), 5=224(LC 1)

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

NOTES-

 Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=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) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.

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

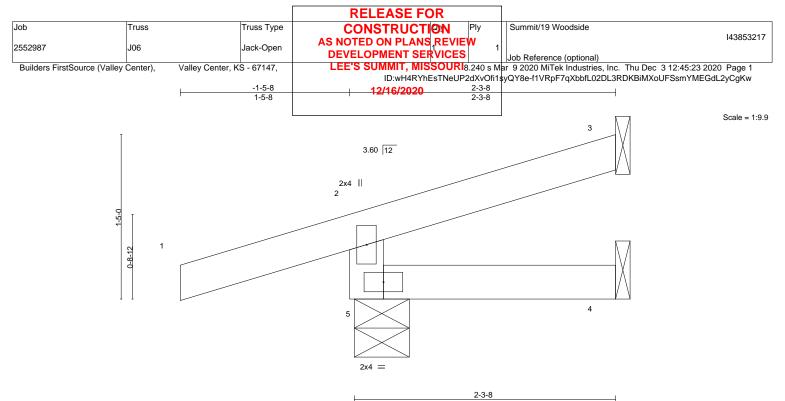
5) Bearing at joint(s) 5 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.

6) Provide 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.







								2-3-0				
	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	тс	0.22	Vert(LL)	0.00	5	>999	240	MT20	197/144
TCDL	20.0	Lumber DOL	1.15	BC	0.05	Vert(CT)	-0.00	4-5	>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/T	PI2014	Matri	x-MR						Weight: 7 lb	FT = 20%

LUMBER-

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

BRACING-TOP CHORD

Structural wood sheathing directly applied or 2-3-8 oc purlins, except end verticals. Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 5=0-5-11, 3=Mechanical, 4=Mechanical Max Horz 5=39(LC 8) Max Uplift 5=-84(LC 8), 3=-21(LC 12) Max Grav 5=315(LC 1), 3=52(LC 1), 4=32(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-5=-279/189

NOTES-

 Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; 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) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.

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

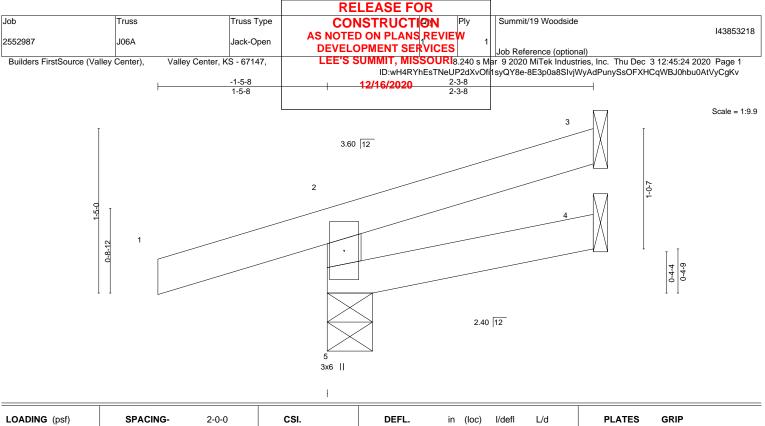
5) Bearing at joint(s) 5 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.

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

referenced standard ANSI/TPI 1.







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 0.22	Vert(LL) 0.00	5	>999 24	0 MT20	197/144
TCDL 20.0	Lumber DOL 1.15	BC 0.05	Vert(CT) -0.00	4-5	>999 18	0	
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT) -0.00	3	n/a n	/a	
BCDL 10.0	Code IRC2018/TPI2014	Matrix-MR				Weight: 8 I	b 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 2-3-8 oc purlins, except end verticals. Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. 5=0-4-11, 3=Mechanical, 4=Mechanical (size) Max Horz 5=39(LC 8) Max Uplift 5=-84(LC 8), 3=-21(LC 12) Max Grav 5=315(LC 1), 3=52(LC 1), 4=33(LC 3)

FORCES. (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) or less except when shown. TOP CHORD 2-5=-280/188

NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; 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) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.

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

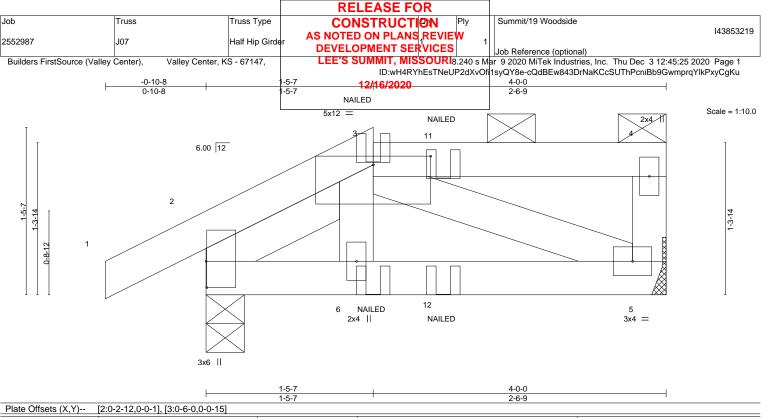
5) Bearing at joint(s) 5 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.

6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 3. 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and

referenced standard ANSI/TPI 1.







OADING (psf) "CLL 25.0 "CDL 20.0 3CLL 0.0 3CDL 10.0	SPACING-2-0-0Plate Grip DOL1.15Lumber DOL1.15Rep Stress IncrNOCode IRC2018/TPI2014	CSI. TC 0.14 BC 0.08 WB 0.03 Matrix-MP	DEFL. Vert(LL) Vert(CT) Horz(CT)	-0.00	loc) l/def 5-6 >999 5-6 >999 5 n/a	240 180	PLATES MT20 Weight: 17 lb	GRIP 197/144 FT = 20%
UMBER- OP CHORD 2x4 SP	F No.2		BRACING- TOP CHOF		ructural wo	od sheathing di	rectly applied or 4-0-0) oc purlins,

BOT CHORD

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

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

 TOP CHORD
 2x4 SPF No.2

 BOT CHORD
 2x4 SPF No.2

 WEBS
 2x4 SPF No.2

 SLIDER
 Left 2x4 SPF No.2 1-4-3

REACTIONS. (size) 2=0-4-0, 5=Mechanica

(size) 2=0-4-0, 5=Mechanical Max Horz 2=40(LC 7) Max Uplift 2=-33(LC 8), 5=-25(LC 5) Max Grav 2=303(LC 1), 5=209(LC 1)

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

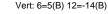
NOTES-

- 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=6.0psf; 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) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 5.
- 8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and
- referenced standard ANSI/TPI 1.
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 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

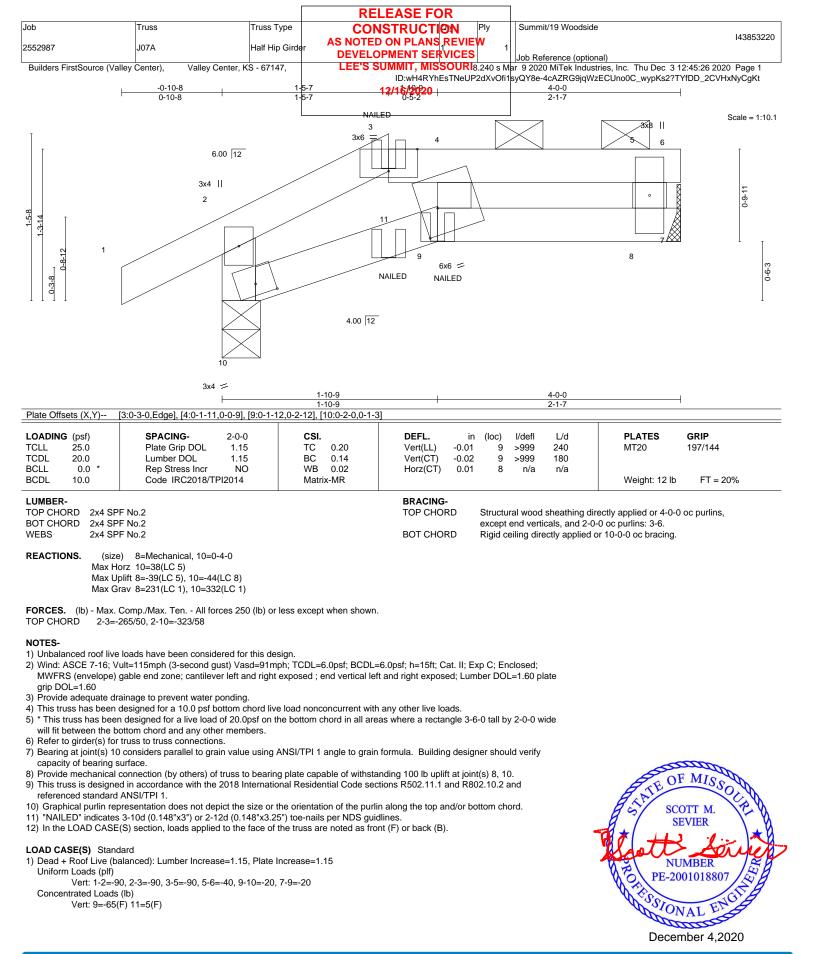
Uniform Loads (plf) Vert: 1-3=-90, 3-4=-90, 5-7=-20 Concentrated Loads (lb)





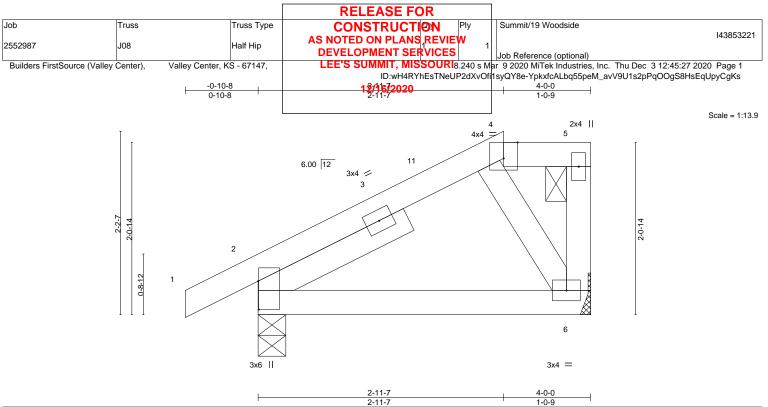
December 4,2020





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

NITEK* 16023 Swingley Ridge Rd Chesterfield, MO 63017



OADING (psf) CLL 25.0 CDL 20.0 GCLL 0.0 * 3CDL GCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2018/TPI2014	CSI. TC 0.14 BC 0.11 WB 0.02 Matrix-MP	DEFL. Vert(LL) Vert(CT) Horz(CT)	in -0.01 -0.02 0.00	(loc) 6-9 6-9 2	l/defl >999 >999 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 17 lb	GRIP 197/144 FT = 20%
LUMBER- TOP CHORD 2x4 \$	SPF No.2		BRACING- TOP CHOF		Structu	iral wood	sheathing di	rectly applied or 4-0-0	oc purlins,

BOT CHORD

except end verticals, and 2-0-0 oc purlins: 4-5.

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

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

SLIDER Left 2x4 SPF No.2 2-0-0 REACTIONS. (size) 2=0-4-0, 6=Mechanical

Max Horz 2=68(LC 11) Max Uplift 2=-34(LC 12), 6=-23(LC 9) Max Grav 2=300(LC 1), 6=203(LC 1)

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

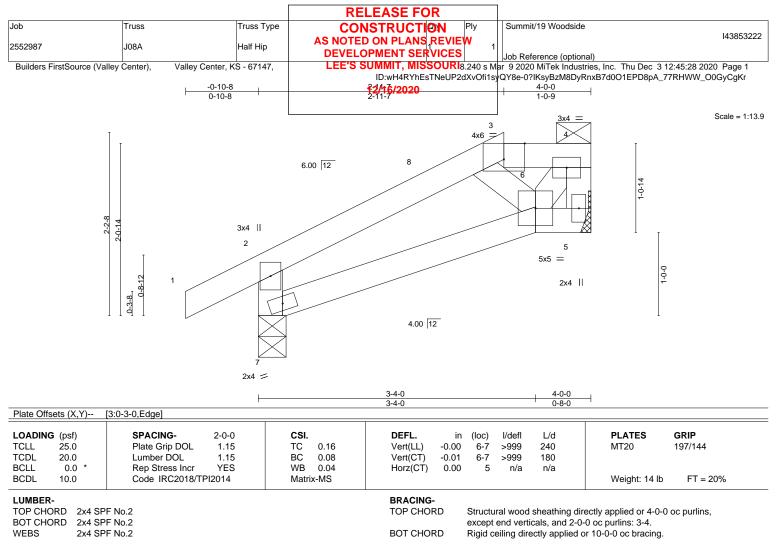
NOTES-

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=6.0psf; 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 2-11-7, Exterior(2E) 2-11-7 to 3-10-4 zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 6.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.







REACTIONS. (size) 5=Mechanical, 7=0-4-0 Max Horz 7=59(LC 9)

Max Uplift 5=-23(LC 9), 7=-33(LC 12)

Max Grav 5=191(LC 1), 7=308(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-7=-311/166

NOTES-

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

2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=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 2-11-7, Exterior(2E) 2-11-7 to 3-10-4 zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

3) Provide adequate drainage to prevent water ponding.

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

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

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

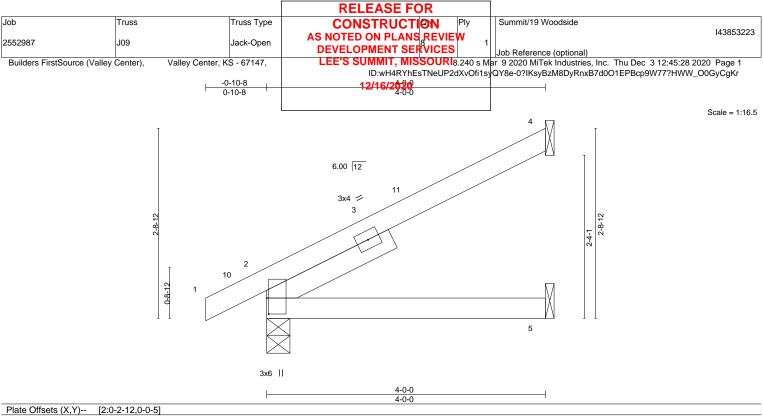
7) Bearing at joint(s) 7 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.

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

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







LOADING (psf) TCLL 25.0		SPACING- Plate Grip DOL	2-0-0 1.15	CSI. TC	0.26	DEFL. Vert(LL)	in 0.02	(loc) 5-8	l/defl >999	L/d 240	PLATES MT20	GRIP 197/144
TCDL 20.0 BCLL 0.0)	Lumber DOL Rep Stress Incr	1.15 1.15 YES	BC WB	0.18	Vert(CT) Horz(CT)	-0.02 -0.03 0.01	5-8 2	>999 >999 n/a	180 n/a	WI 20	137/144
BCDL 10.0		Code IRC2018/TP	-	Matri		11012(01)	0.01	2	n/a	n/a	Weight: 13 lb	FT = 20%

LUMBER-

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

BRACING-TOP CHORD BOT CHORD

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

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

Max Horz 2=86(LC 12) Max Uplift 4=-55(LC 12), 2=-17(LC 12)

Max Grav 4=150(LC 1), 2=304(LC 1), 5=76(LC 3)

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

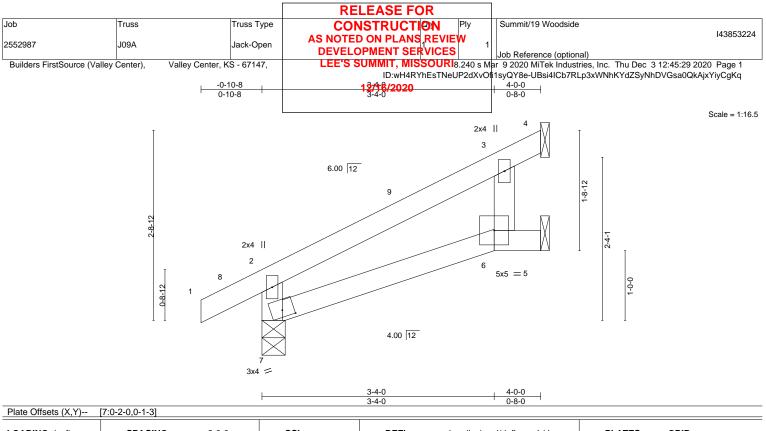
NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; 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) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 2.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.







LOADING (psf) TCLL 25.0 TCDL 20.0 BCLL 0.0 BCDL 10.0	SPACING-2-0-0Plate Grip DOL1.15Lumber DOL1.15Rep Stress IncrYESCodeIRC2018/TPI2014	CSI. TC 0.24 BC 0.14 WB 0.02 Matrix-MP	DEFL. in (loc) l/defl L/d Vert(LL) 0.02 6-7 >999 240 Vert(CT) -0.03 6-7 >999 180 Horz(CT) 0.01 4 n/a n/a	PLATES GRIP MT20 197/144 Weight: 13 lb FT = 20%
LUMBER-			BRACING-	

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

Structural wood sheathing directly applied or 4-0-0 oc purlins, except end verticals. Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) 7=0-4-0, 4=Mechanical, 5=Mechanical Max Horz 7=79(LC 12)

Max Uplift 7=-18(LC 12), 4=-16(LC 12), 5=-34(LC 12)

Max Grav 7=313(LC 1), 4=105(LC 3), 5=95(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-7=-269/122

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; 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) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.

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

- 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) 7, 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.





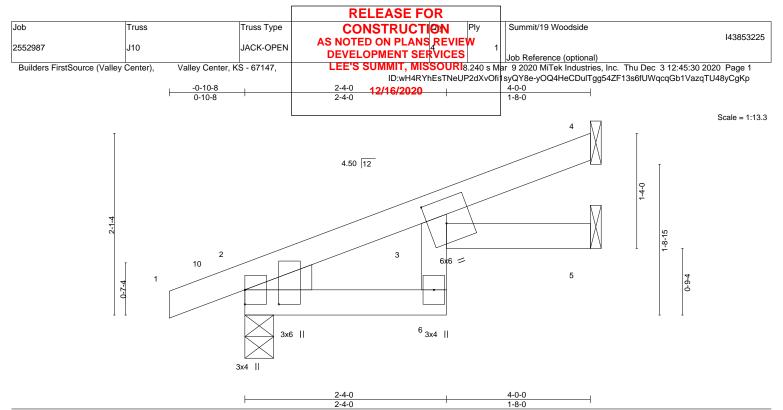


Plate Offsets (X,Y)	2:0-2-0,0-4-11], [3:0-2-8,0-3-5]		T
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d PLATES GRIP
TCLL 25.0	Plate Grip DOL 1.15	TC 0.34	Vert(LL) -0.02 6 >999 240 MT20 197/144
TCDL 20.0	Lumber DOL 1.15	BC 0.22	Vert(CT) -0.05 6 >999 180
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT) 0.03 5 n/a n/a
BCDL 10.0	Code IRC2018/TPI2014	Matrix-AS	Weight: 13 lb FT = 20%
			PD ACING.

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) 4=Mechanical, 2=0-4-0, 5=Mechanical Max Horz 2=66(LC 8)

Max Holz 2=00(LC 3) Max Uplift 4=-33(LC 12), 2=-40(LC 8), 5=-4(LC 12) Max Grav 4=128(LC 1), 2=305(LC 1), 5=81(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=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-1, Interior(1) 2-1-1 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) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 2, 5.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.





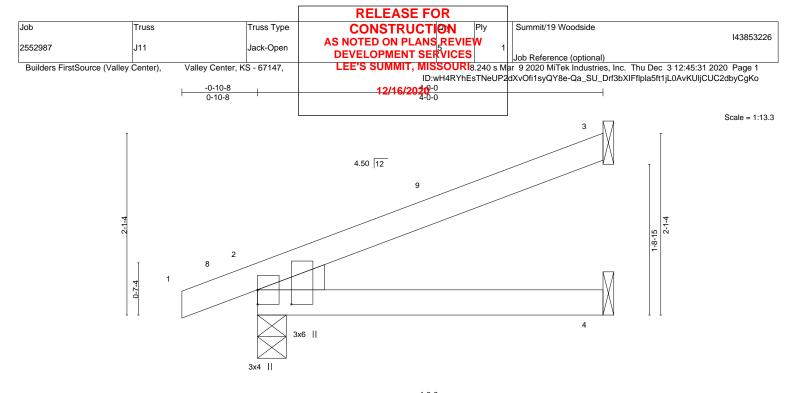


Plate Offsets (X,Y)	[2:0-2-0.0-4-11]		4-0-0 4-0-0	
	[2:0-2-0,0-4-11]			
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d	PLATES GRIP
TCLL 25.0	Plate Grip DOL 1.15	TC 0.23	Vert(LL) 0.02 4-7 >999 240	MT20 197/144
TCDL 20.0	Lumber DOL 1.15	BC 0.20	Vert(CT) -0.03 4-7 >999 180	
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT) 0.01 2 n/a n/a	
BCDL 10.0	Code IRC2018/TPI2014	Matrix-AS		Weight: 12 lb FT = 20%
LUMBER-			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=0-4-0, 4=Mechanical Max Horz 2=66(LC 8) Max Uplift 3=-44(LC 12), 2=-40(LC 8) Max Grav 3=147(LC 1), 2=304(LC 1), 4=77(LC 3)

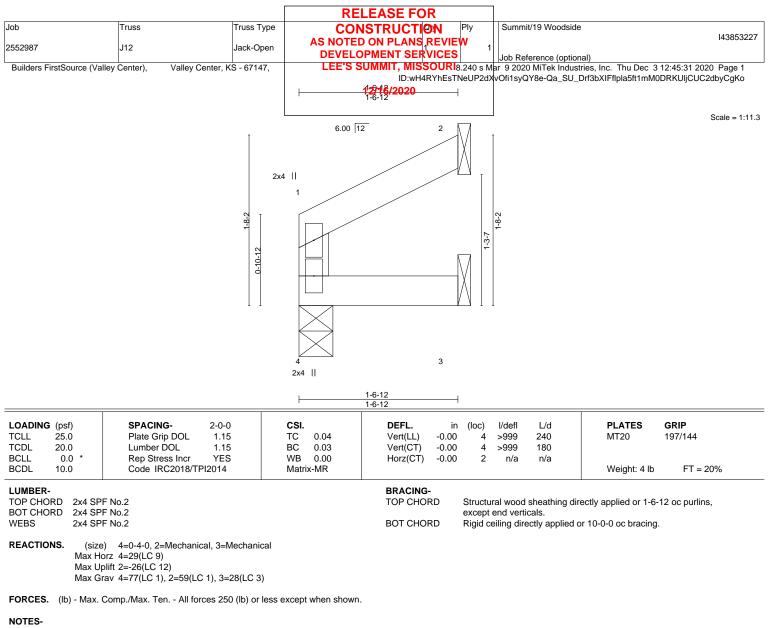
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; 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) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 2.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 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.







 Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; 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.

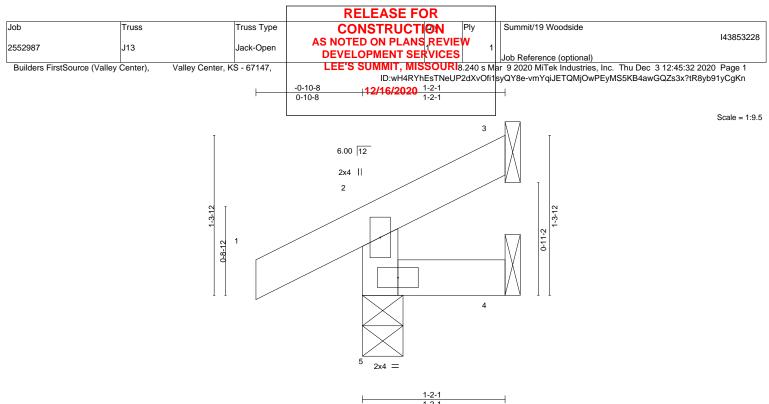
3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.

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

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







			1-2-1	
LOADIN	G (psf)	SPACING- 2-0-0	CSI. DEFL. in (loc) I/defl L/d PLATES GRIP	
TCLL	25.0	Plate Grip DOL 1.15	TC 0.09 Vert(LL) 0.00 5 >999 240 MT20 197/144	
TCDL	20.0	Lumber DOL 1.15	BC 0.02 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/TPI2014	Matrix-MR Weight: 4 lb FT = 20%	ò
BCDL	10.0	Code IRC2018/TPI2014	Matrix-MR Weight: 4 lb FT = 20%	ć

LUMBER-

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

BRACING-TOP CHORD

Structural wood sheathing directly applied or 1-2-1 oc purlins, except end verticals. Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 5=0-4-0, 3=Mechanical, 4=Mechanical Max Horz 5=30(LC 9) Max Uplift 5=-20(LC 12), 3=-13(LC 12), 4=-2(LC 1) Max Grav 5=194(LC 1), 3=12(LC 19), 4=14(LC 3)

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

NOTES-

 Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=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.

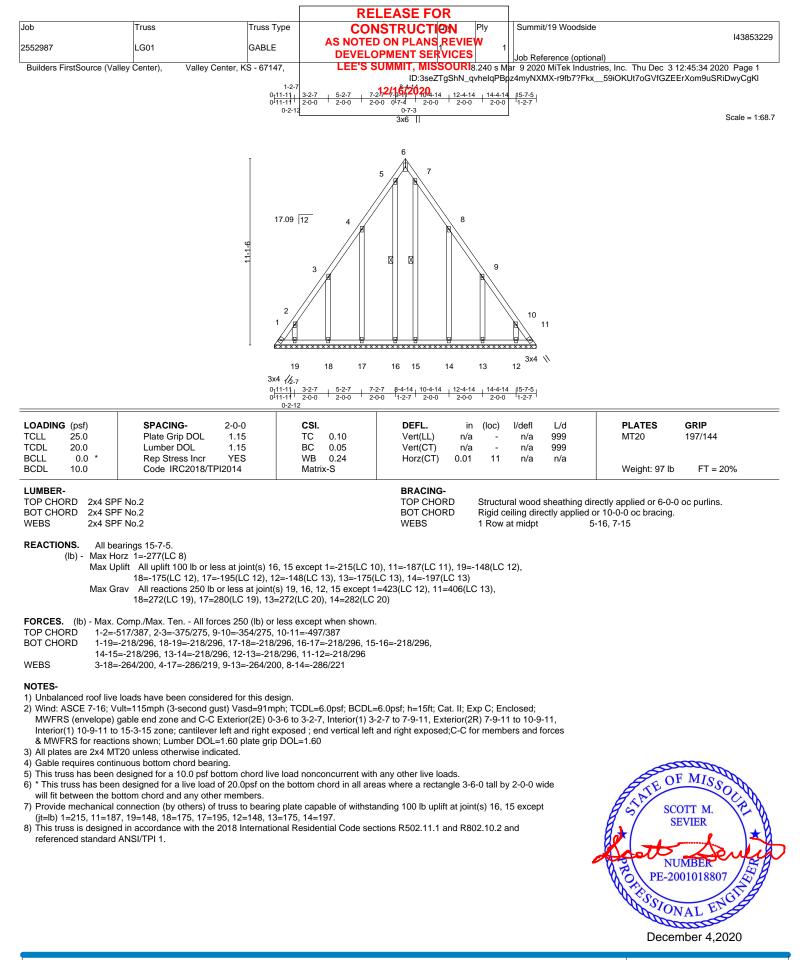
3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.

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

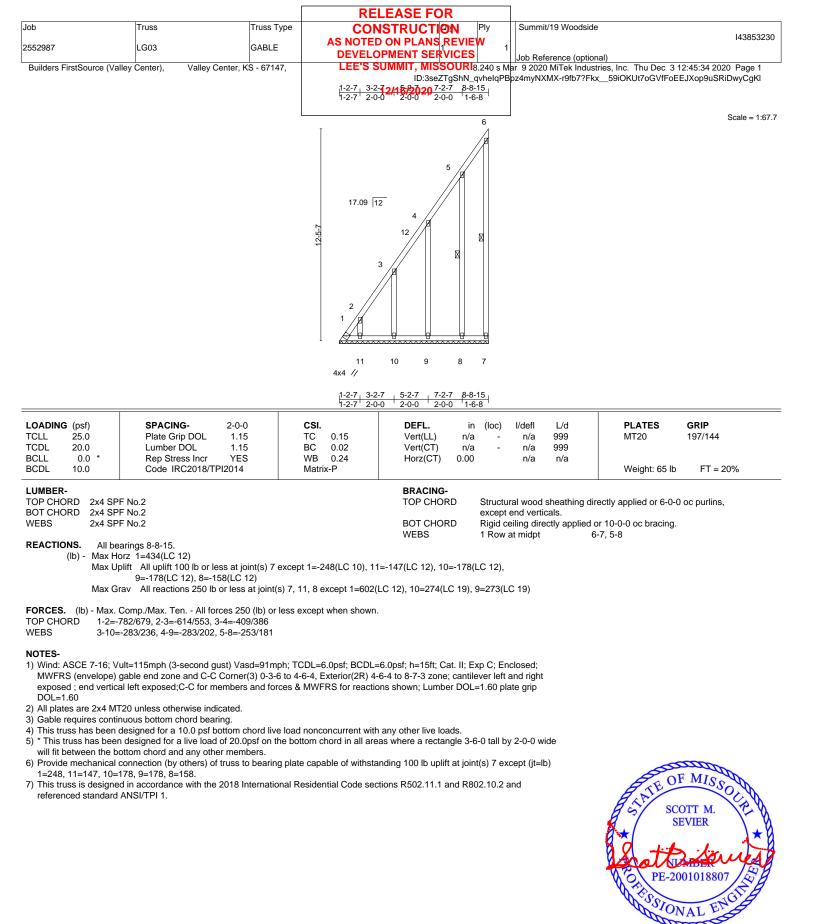
- 5) Bearing at joint(s) 5 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 3, 4.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.







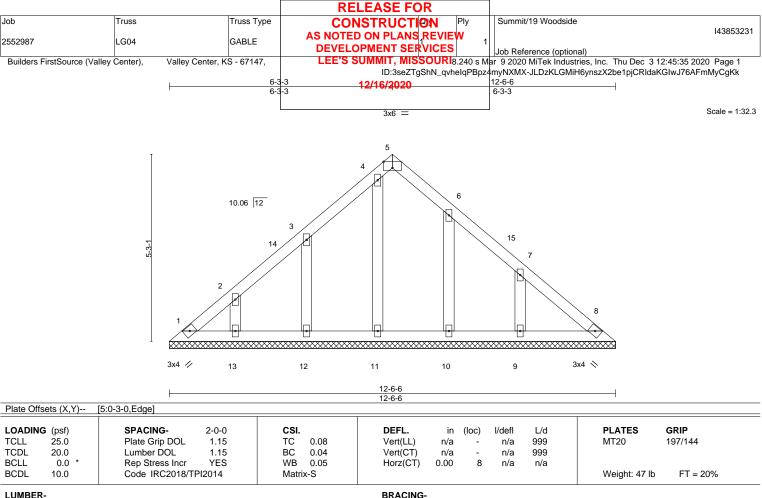




WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and property incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses 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



December 4,2020



LUMBER-

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

BRACING-TOP CHORD BOT CHORD

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

REACTIONS. All bearings 12-6-6.

(lb) - Max Horz 1=-115(LC 8)

Max Uplift All uplift 100 lb or less at joint(s) 1, 13, 12, 10 except 9=-101(LC 13)

Max Grav All reactions 250 lb or less at joint(s) 1, 8, 13, 12, 11, 10 except 9=285(LC 20)

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

NOTES-

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

2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-4-13 to 3-4-13, Interior(1) 3-4-13 to 6-3-3, Exterior(2R) 6-3-3 to 9-3-3, Interior(1) 9-3-3 to 12-1-9 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.

4) Gable requires continuous bottom chord bearing.

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

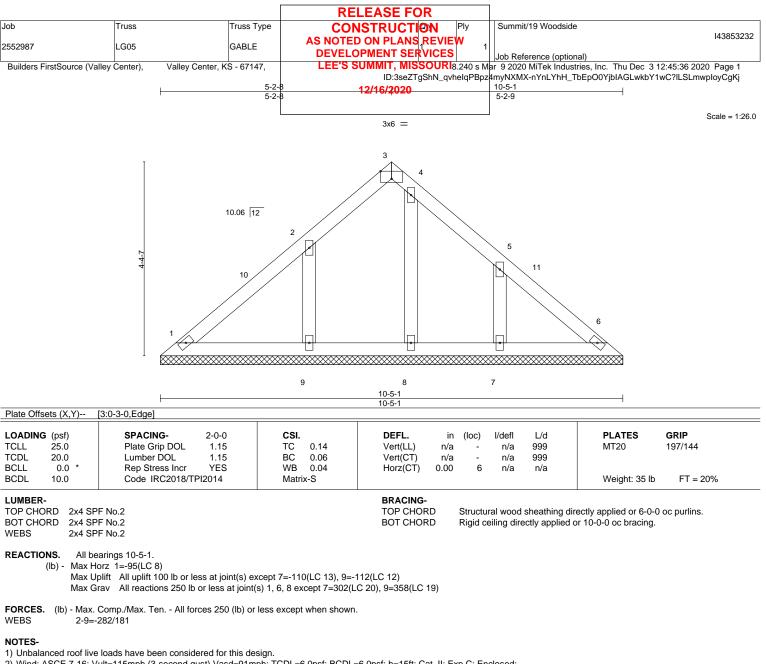
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.

7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 13, 12, 10 except (jt=lb) 9=101.

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.







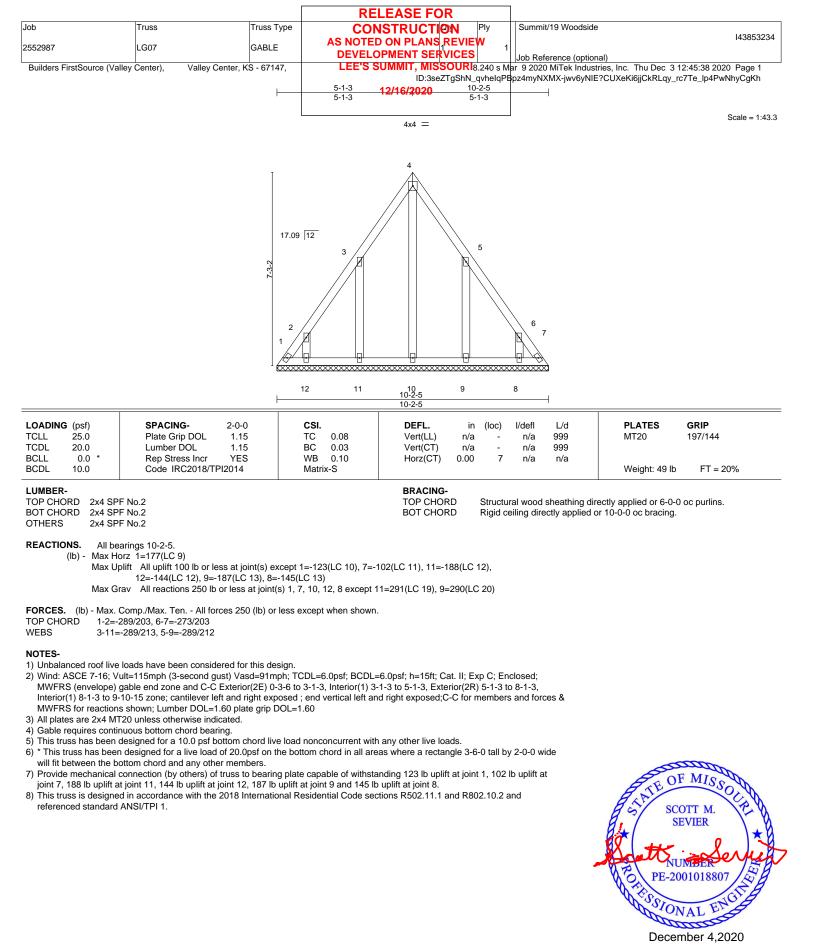
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-4-13 to 3-4-4, Interior(1) 3-4-4 to 5-2-8, Exterior(2R) 5-2-8 to 8-2-8, Interior(1) 8-2-8 to 10-0-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) 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) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 110 lb uplift at joint 7 and 112 lb uplift at joint 9.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



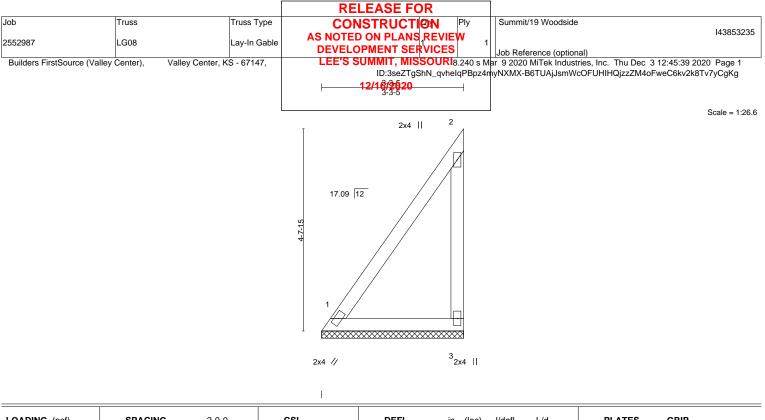


		[REL	EASE FOR				
Job	Truss	Truss Type	CON	STRUCTION	Ply	Summit/19 Woodsid	e	143853233
2552987	LG06	GABLE		ON PLANS REVIE MENT SERVICES		Joh Deference (antio	201	140000200
Builders FirstSource (Va	Iley Center), Valley Center,	KS - 67147,		JMMIT, MISSOURI8	3.240 s M		stries, Inc. Thu Dec 3 12:45	
			L1	2/16/2020	/helqPBp ⊣	z4myNXMX-FkLjl1lcEv	/Mg0A7v90hVu8Hm_RF9k9	bcaQfMqEyCgKi
			1	9-3-3	'			
		т	N					Scale = 1:67.7
		13-2-5			6 24			
			H	<u>9-3-3</u> 9-3-3	-1			
LOADING (psf) TCLL 25.0 TCDL 20.0 BCLL 0.0 * BCDL 10.0	SPACING- 2-0 Plate Grip DOL 1. Lumber DOL 1. Rep Stress Incr YP Code IRC2018/TPI201	15 15 ES	CSI. TC 0.16 BC 0.08 WB 0.23 Matrix-S	DEFL. in Vert(LL) n/a Vert(CT) n/a Horz(CT) 0.01	-	l/defl L/d n/a 999 n/a 999 n/a n/a	PLATES GF MT20 19 Weight: 68 lb	1 IP 7/144 FT = 20%
LUMBER- TOP CHORD 2x4 SP BOT CHORD 2x4 SP WEBS 2x4 SP OTHERS 2x4 SP	F No.2 F No.2			BRACING- TOP CHORD BOT CHORD WEBS	except e	end verticals. eiling directly applied	rectly applied or 6-0-0 oc p or 9-3-15 oc bracing. I-11, 2-10	purlins,
(Ib) - Max He Max Uj	arings 9-3-3. orz 11=-412(LC 13) olift All uplift 100 lb or less at 8=-181(LC 13), 7=-148(LC rav All reactions 250 lb or les 8=275(LC 20)	13)				20),		
TOP CHORD 2-3=-2 BOT CHORD 10-11	Comp./Max. Ten All forces 2 258/260, 3-4=-431/418, 4-5=-6 =-405/442, 9-10=-405/442, 8- -287/197, 3-9=-273/187, 4-8=-	9=-405/442, 7-8	45/705	/442				
MWFRS (envelope) right exposed ; end v DOL=1.60 2) All plates are 2x4 MT 3) Gable requires conti 4) This truss has been	ult=115mph (3-second gust) V gable end zone and C-C Exter rertical right exposed;C-C for n r20 unless otherwise indicated nuous bottom chord bearing. designed for a 10.0 psf bottom o designed for a live load of 20	ior(2E) 0-1-12 to nembers and for	o 4-4-11, Interior(1) 4 rces & MWFRS for re nonconcurrent with a	4-4-11 to 8-11-13 zone; eactions shown; Lumbe any other live loads.	cantileve r DOL=1	er left and .60 plate grip		
 will fit between the b 6) Provide mechanical 6=259, 10=110, 9=10 	ottom chord and any other me connection (by others) of truss 61, 8=181, 7=148. d in accordance with the 2018	mbers. to bearing plate	e capable of withstan	ding 100 lb uplift at join	t(s) 11 ex	kcept (jt=lb)	STATE OF M SCOTT SEVIL OF PE-20010 December	M. BR 118807 ENGINE









OADING (psf) CLL 25.0 CDL 20.0 SCLL 0.0 SCDL 10.0	SPACING-2-0-0Plate Grip DOL1.15Lumber DOL1.15Rep Stress IncrYESCode IRC2018/TPI2014	CSI. TC 0.26 BC 0.08 WB 0.00 Matrix-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	-	GRIP 197/144 FT = 20%
UMBER-			BRACING-						

TOP CHORD

BOT CHORD

LUMBER-

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

REACTIONS. 1=3-3-5, 3=3-3-5 (size) Max Horz 1=144(LC 11)

Max Uplift 1=-30(LC 8), 3=-97(LC 9) Max Grav 1=205(LC 20), 3=209(LC 19)

FORCES. (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) or less except when shown. TOP CHORD 1-2=-228/254, 2-3=-284/214

NOTES-

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

2) Gable requires continuous bottom chord bearing.

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

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

5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 30 lb uplift at joint 1 and 97 lb uplift at joint 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.

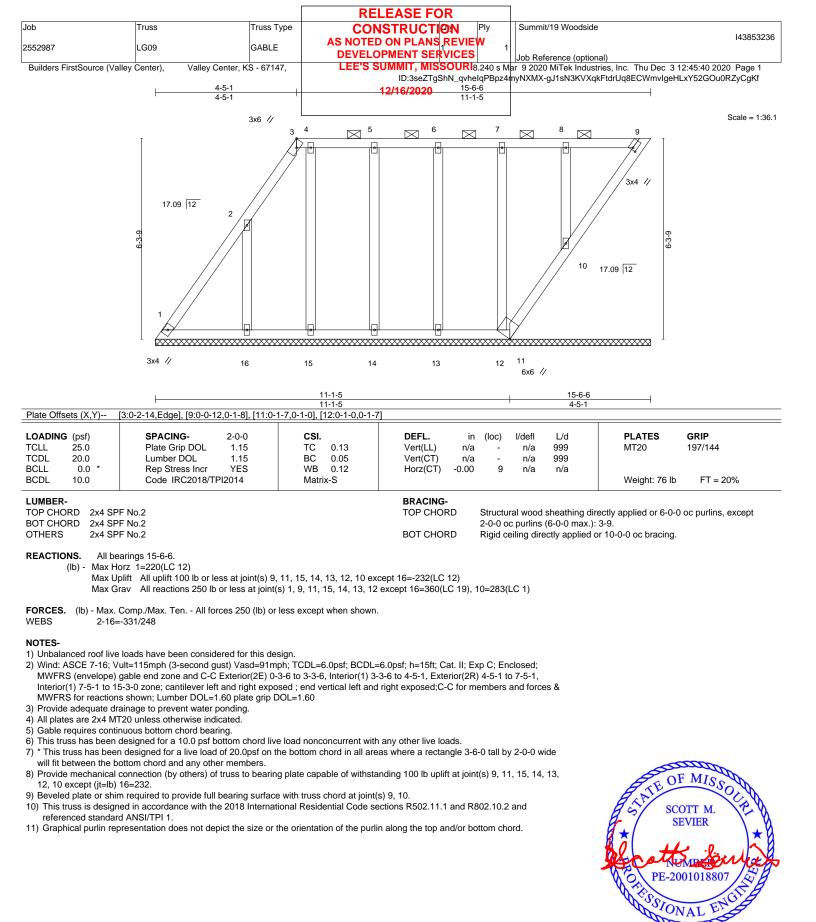


Structural wood sheathing directly applied or 3-3-5 oc purlins,

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

except end verticals.

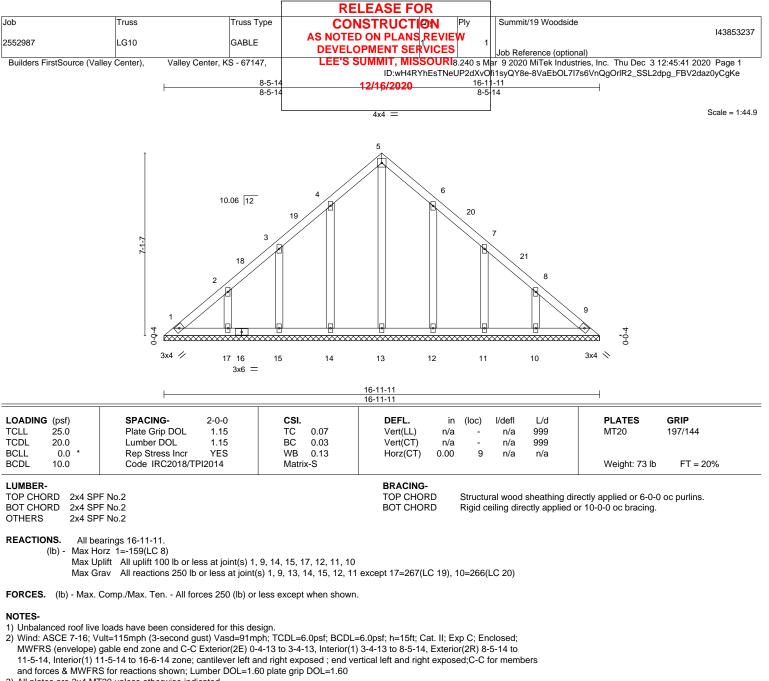








December 4,2020



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.

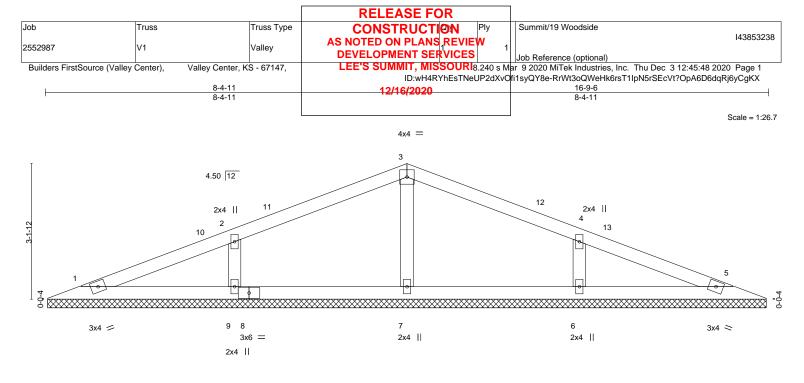
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.

7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 9, 14, 15, 17, 12, 11, 10.

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







0-0 _[11	<u>16-9-6</u>									
0-0-11	16-8-12									
OADING (psf)	SPACING- 2-0-0	CSI.	DEFL.	n/a `	loc)	l/defl	L/d	PLATES	GRIP	
CLL 25.0	Plate Grip DOL 1.15	TC 0.27	Vert(LL)		-	n/a	999	MT20	197/144	
CDL 20.0 CLL 0.0 * CDL 10.0	Lumber DOL 1.15 Rep Stress Incr YES Code IRC2018/TPI2014	BC 0.10 WB 0.05 Matrix-S	Vert(CT) Horz(CT)	n/a 0.00	5	n/a n/a	999 n/a	Weight: 43 lb	FT = 20%	

TOP CHORD

BOT CHORD

LUMBER-

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

REACTIONS. All bearings 16-8-1. (lb) - Max Horz 1=45(LC 12)

Max Uplift All uplift 100 lb or less at joint(s) 1, 5, 9, 6

Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 7=379(LC 1), 9=494(LC 25), 6=494(LC 26)

FORCES. (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) or less except when shown. 3-7=-305/66, 2-9=-402/150, 4-6=-402/150 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=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-10-1 to 3-10-1, Interior(1) 3-10-1 to 8-4-11, Exterior(2R) 8-4-11 to 11-4-11, Interior(1) 11-4-11 to 15-11-6 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.

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

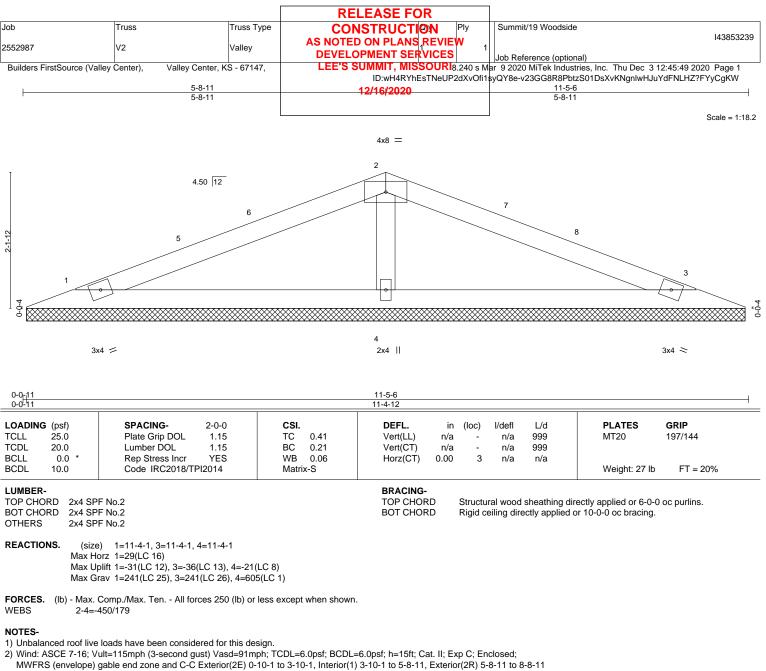
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 5, 9, 6.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



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

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





MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-10-1 to 3-10-1, Interior(1) 3-10-1 to 5-8-11, Exterior(2R) 5-8-11 to 8-8-1 , Interior(1) 8-8-11 to 10-7-6 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.

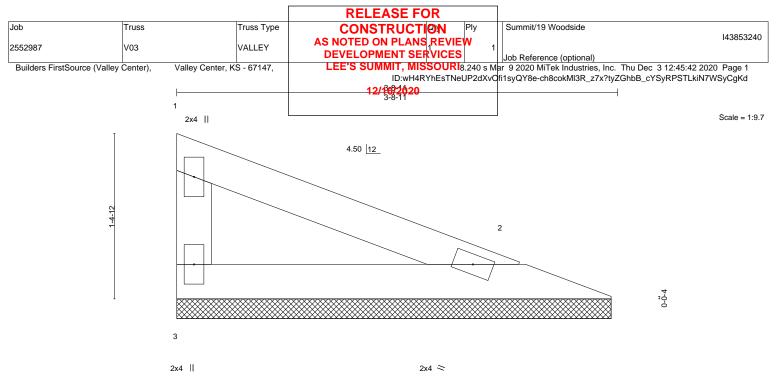
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.

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

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







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ICLL25.0PlateICDL20.0Lumb	CING- 2-0-0 Grip DOL 1.15 er DOL 1.15 Stress Incr YES	CSI. TC 0.17 BC 0.07 WB 0.00	DEFL. i Vert(LL) n/ Vert(CT) n/ Horz(CT) 0.0	a -	l/defl L/d n/a 999 n/a 999 n/a n/a	PLATES GRIP MT20 197/144
3CDL 10.0 Code -UMBER- TOP CHORD 2x4 SPF No.2	IRC2018/TPI2014	Matrix-P	BRACING- TOP CHORD	Structu	iral wood sheathing	Weight: 9 lb FT = 20%

BOT CHORD

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

WEBS 2x4 SPF No.2

REACTIONS. (size) 3=3-8-0, 2=3-8-0 Max Horz 3=-42(LC 8) Max Uplift 3=-21(LC 13), 2=-14(LC 13) Max Grav 3=151(LC 1), 2=151(LC 1)

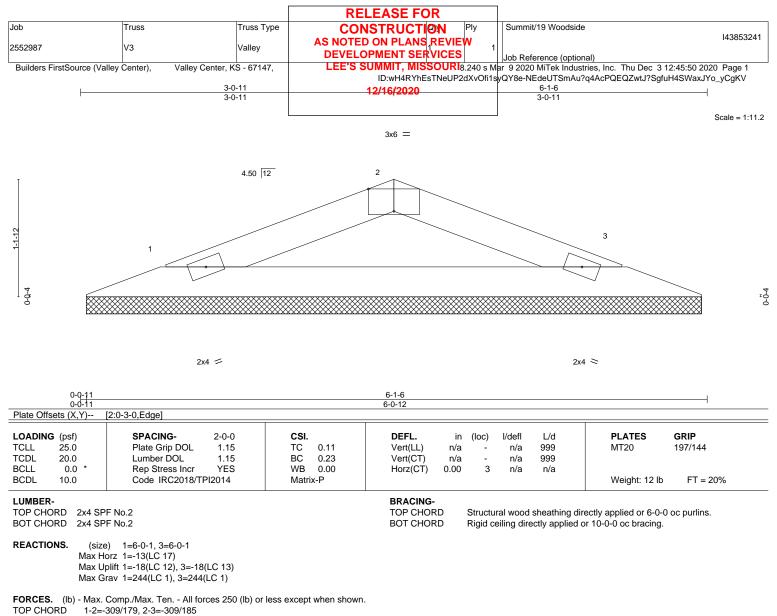
FORCES. (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) or less except when shown.

NOTES-

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=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) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 2.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.







BOT CHORD 1-3=-143/263

NOTES-

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

 Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; 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
 Gable requires continuous bottom chord bearing.

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

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

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

 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.





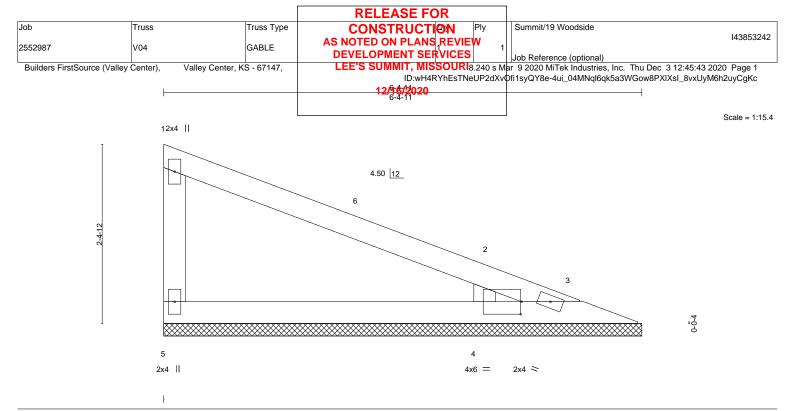


Plate Offsets (X,Y)-- [2:0-1-12,0-0-10], [4:0-0-2,0-2-0], [4:0-1-12,0-0-0]

LOADING (psf) TCLL 25.0 TCDL 20.0 BCLL 0.0 * BCDL 10.0	SPACING-2-0-0Plate Grip DOL1.15Lumber DOL1.15Rep Stress IncrYESCodeIRC2018/TPI2014	CSI. TC 0.28 BC 0.12 WB 0.05 Matrix-P	Vert(CT) r	in (loc) /a - /a - 00 3	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20 Weight: 16 lb	GRIP 197/144 FT = 20%
LUMBER- TOP CHORD 2x4 SP BOT CHORD 2x4 SP WEBS 2x4 SP	F No.2		BRACING- TOP CHORD BOT CHORD	except	end verti	cals.	ectly applied or 6-0-0 r 10-0-0 oc bracing.	oc purlins,

OTHERS 2x4 SPF No.2 **REACTIONS.** (size) 5=6-4-11, 3=6-4-11, 4=6-4-11 Max Horz 5=-82(LC 8) Max Lipit 5= 24(LC 12) 2= 78(LC 1) 4-

Max Uplift 5=-24(LC 13), 3=-78(LC 1), 4=-80(LC 13) Max Grav 5=183(LC 1), 3=36(LC 13), 4=489(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. WEBS 2-4=-400/244

NOTES-

 Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-1-12 to 4-3-8, Interior(1) 4-3-8 to 5-6-10 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

2) Gable requires continuous bottom chord bearing.

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

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

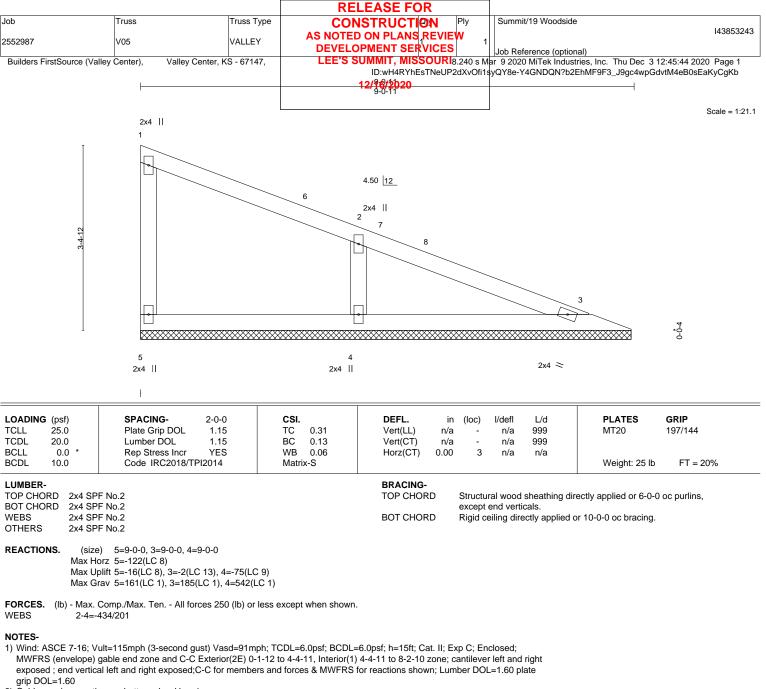
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 3, 4.

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

referenced standard ANSI/TPI 1.







2) Gable requires continuous bottom chord bearing.

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

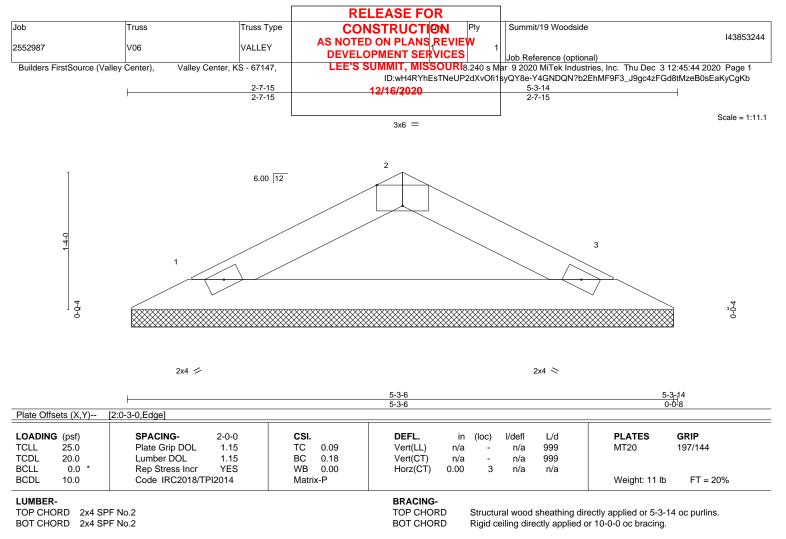
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.

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

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







REACTIONS. (size) 1=5-2-14, 3=5-2-14 Max Horz 1=-16(LC 13) Max Uplift 1=-16(LC 12), 3=-16(LC 13) Max Grav 1=223(LC 1), 3=223(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=6.0psf; 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.

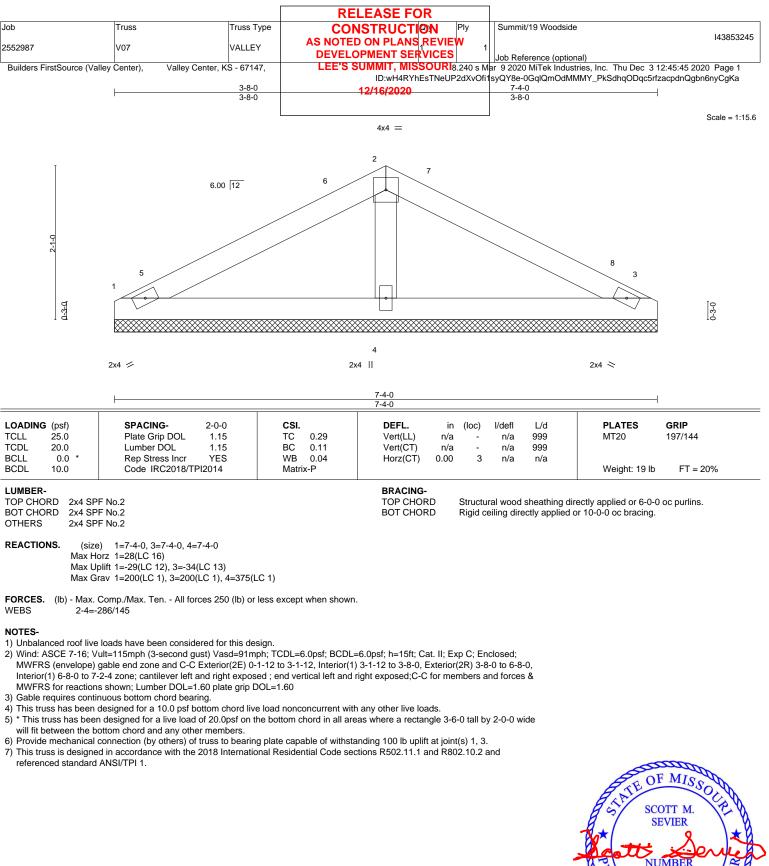
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.

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

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.

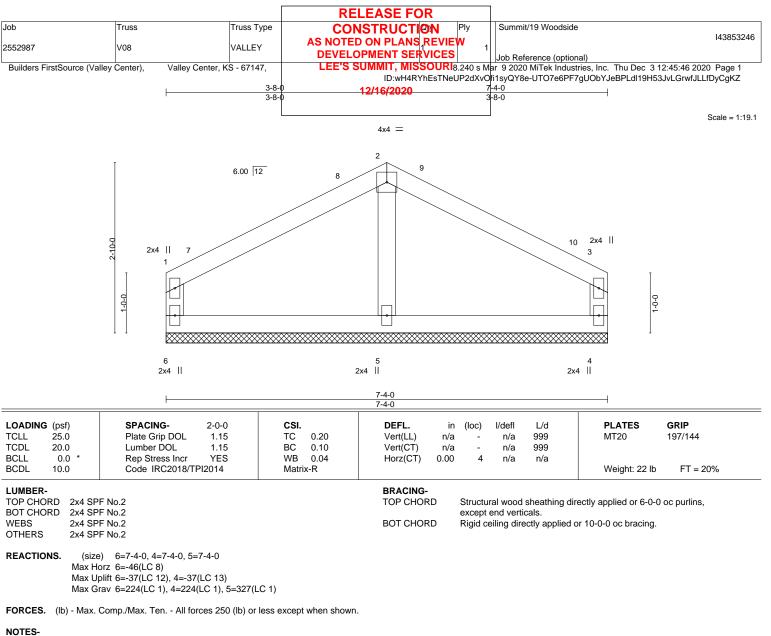












1) Unbalanced roof live loads have been considered for this design.

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

- 3) Gable requires continuous bottom chord bearing.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

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

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





