

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

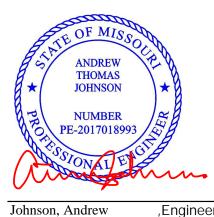
Re: 2765833 Summit/#8 Osage

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

Pages or sheets covered by this seal: I45804333 thru I45804396

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

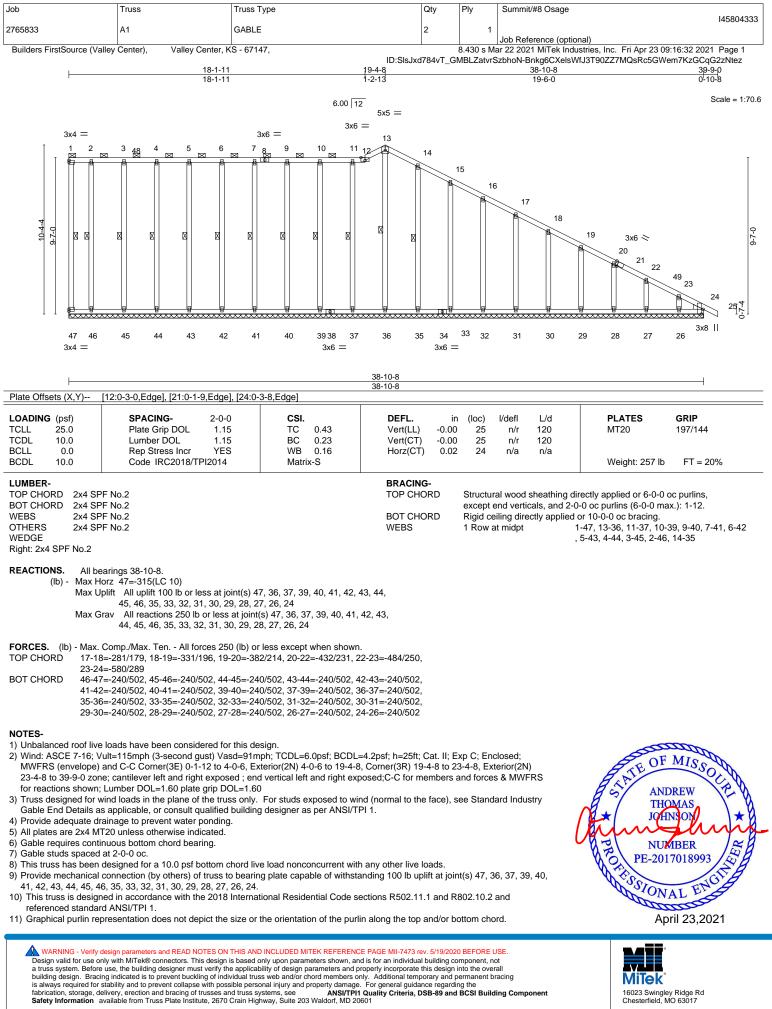
Missouri COA: Engineering 001193



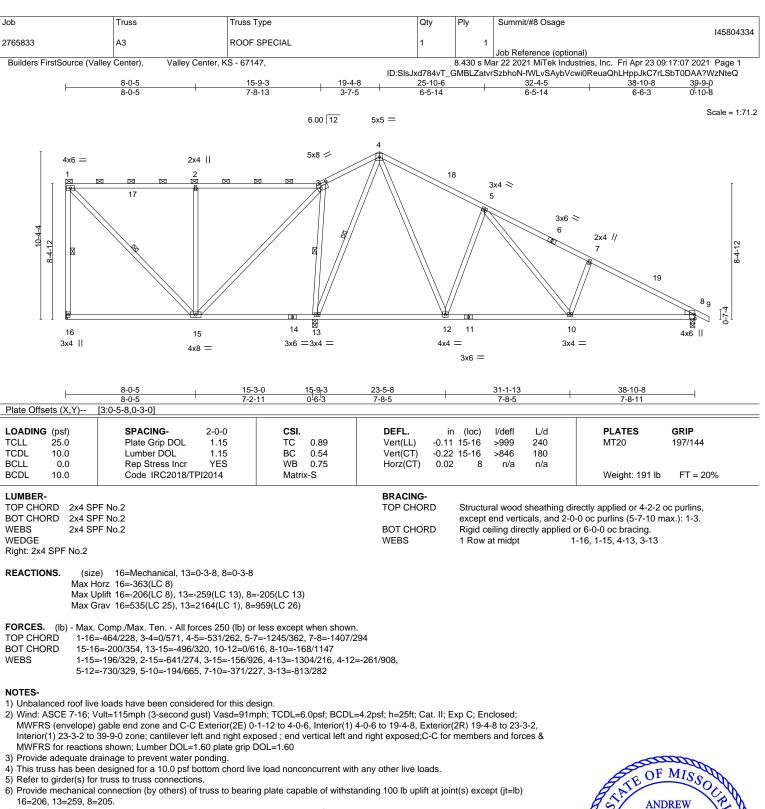
April 23,2021

IMPORTANT NOTE: The seal on these truss component designs is a certification that the engineer named is licensed in the jurisdiction(s) identified and that the designs comply with ANSI/TPI 1. These designs are based upon parameters shown (e.g., loads, supports, dimensions, shapes and design codes), which were given to MiTek or TRENCO. Any project specific information included is for MiTek's or TRENCO's customers file reference purpose only, and was not taken into account in the preparation of these designs. MiTek or TRENCO has not independently verified the applicability of the design parameters or the designs for any particular building. Before use, the building designer should verify applicability of design parameters and properly incorporate these designs into the overall building design per ANSI/TPI 1, Chapter 2.

,Engineer



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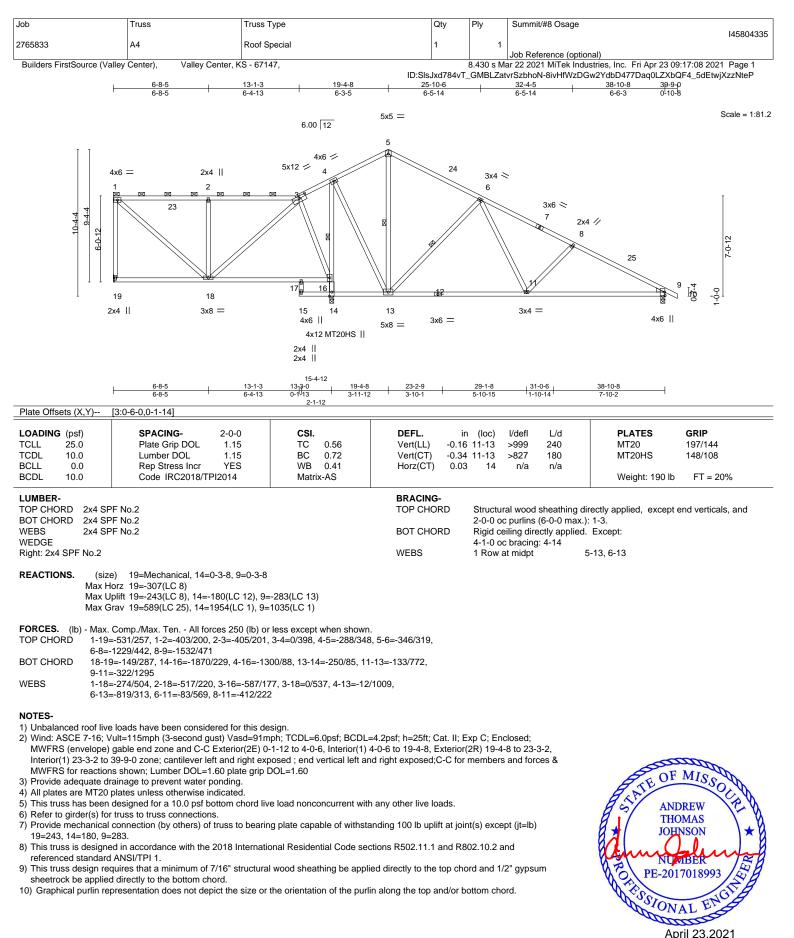
7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

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



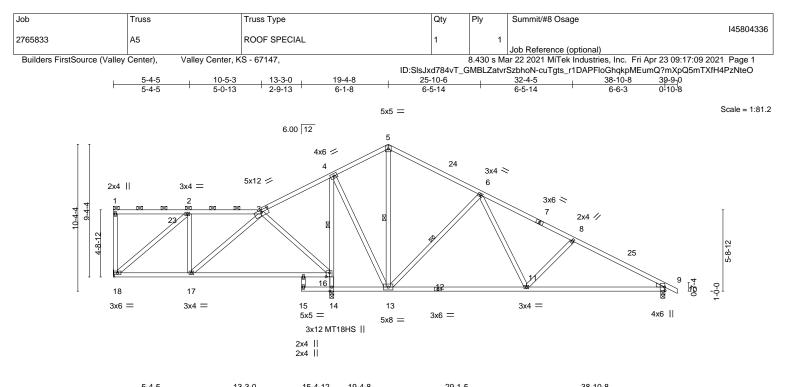
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, 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/TP11 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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	5-4-5	7-10-11	2-1-12 3-11-12	9-8-1			9-9-3	
Plate Offsets (X,Y)	[3:0-6-0,0-1-14], [16:0-3-	0,0-3-4]					1	
OADING (psf)	SPACING-	2-0-0	CSI.	DEFL. i	n (loc) l/dei	fl L/d	PLATES	GRIP
CLL 25.0	Plate Grip DOL	1.15	TC 0.43	Vert(LL) -0.22	2 16-17 >83	7 240	MT20	197/144
CDL 10.0	Lumber DOL	1.15	BC 0.72	Vert(CT) -0.43	3 16-17 >42	1 180	MT18HS	197/144
BCLL 0.0	Rep Stress Incr	YES	WB 0.49	Horz(CT) 0.03	314n/	a n/a		
3CDL 10.0	Code IRC2018/TF	PI2014	Matrix-AS				Weight: 183 lb	FT = 20%
UMBER-	·	·		BRACING-				
OP CHORD 2x4 SP	PF No.2			TOP CHORD	Structural wo	od sheathing di	rectly applied, except e	end verticals, and
OT CHORD 2x4 SP	PF No.2				2-0-0 oc purl	ins (6-0-0 max.)	: 1-3.	
VEBS 2x4 SP	PF No.2			BOT CHORD	Rigid ceiling	directly applied.	Except:	
VEDGE					1 Row at mic	lpt 4	1-16	
Right: 2x4 SPF No.2					3-11-0 oc bra	acing: 14-16		
-				WEBS	1 Row at mic	lpt t	5-13, 6-13	
REACTIONS. (size	e) 18=Mechanical, 14=	0-3-8, 9=0-3-8				-		

Max Horz 18=-268(LC 8) Max Uplift 18=-224(LC 8), 14=-172(LC 12), 9=-290(LC 13) Max Grav 18=584(LC 25), 14=2001(LC 1), 9=1032(LC 1)

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

- TOP CHORD
 2-3=-484/191, 3-4=0/449, 4-5=-290/366, 5-6=-340/335, 6-8=-1222/457, 8-9=-1525/487

 BOT CHORD
 17-18=-83/482, 16-17=-135/274, 14-16=-1957/203, 4-16=-1445/123, 13-14=-287/61, 11-13=-147/767, 9-11=-335/1289

 WEDD
 0.01/200, 0.01, 0.01/200, 0.01/
- WEBS 2-18=-610/257, 3-17=0/400, 3-16=-613/196, 6-13=-820/313, 6-11=-82/569, 8-11=-412/221, 4-13=0/1001

NOTES-

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

2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-1-12 to 4-0-6, Interior(1) 4-0-6 to 19-4-8, Exterior(2R) 19-4-8 to 23-3-2, Interior(1) 23-3-2 to 39-9-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

3) Provide adequate drainage to prevent water ponding.

4) All plates are MT20 plates unless otherwise indicated.

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

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

7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 18=224, 14=172, 9=290.

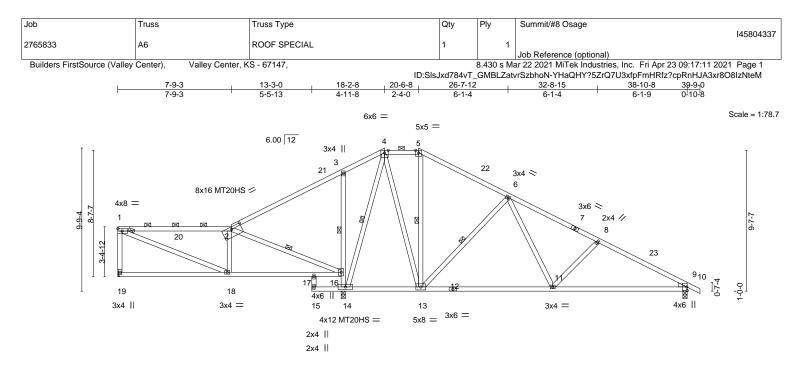
8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

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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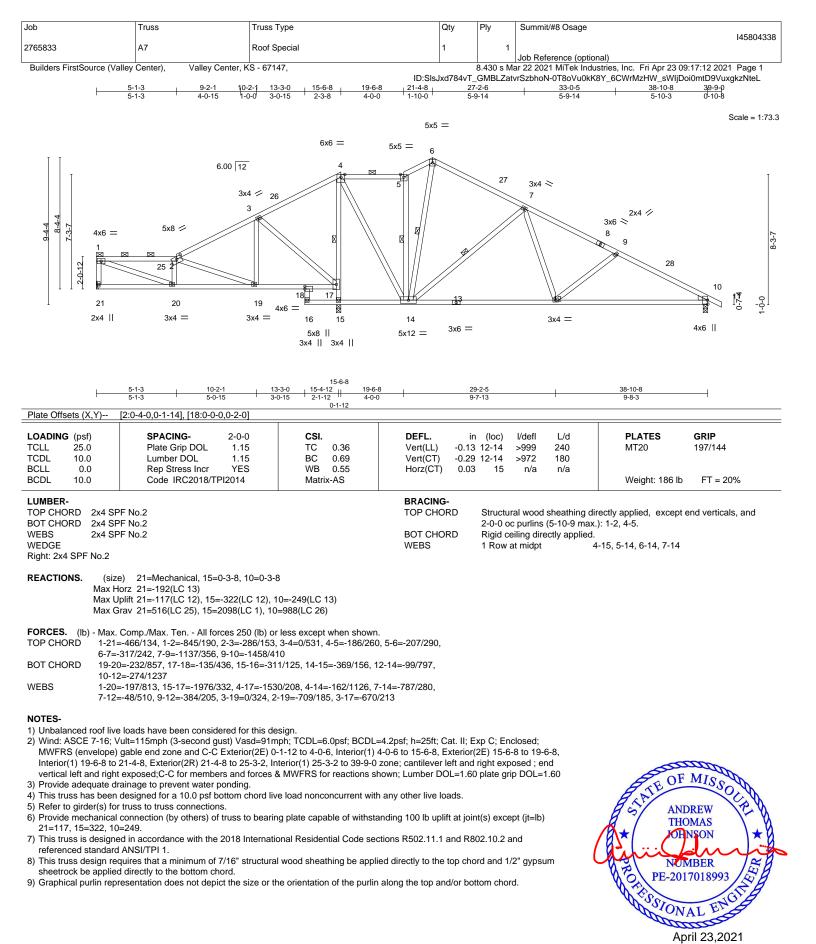


	7-9-3 13-3			29-8-5	1	38-10-8	
	7-9-3 5-5-	13 2-1-12 2-9-12	2-4-0	9-1-13	1	9-2-3	
Plate Offsets (X,Y)	[2:0-8-0,0-1-14]						
LOADING (psf) TCLL 25.0 TCDL 10.0 BCLL 0.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES	CSI. TC 0.89 BC 0.73 WB 0.52	DEFL. in Vert(LL) -0.16 Vert(CT) -0.34 Horz(CT) 0.03	9-11 >999 9-11 >819	L/d 240 180 n/a	PLATES MT20 MT20HS	GRIP 197/144 148/108
BCDL 10.0	Code IRC2018/TPI2014	Matrix-S				Weight: 185 lb	FT = 20%
LUMBER- BRACING- TOP CHORD 2x4 SPF No.2 BOT CHORD 2x4 SPF No.2 WEBS 2x4 SPF No.2 WEDGE 6-0-0 oc bracing: 13-14. Right: 2x4 SPF No.2 5-11-0 oc bracing: 3-14							
			WEBS	1 Row at midpt	2	-16, 5-13, 6-13, 4-14	
Max L Max C FORCES. (Ib) - Max. TOP CHORD 1-19 6-8= BOT CHORD 17-1 9-11. WEBS 1-18	Horz 19=-223(LC 8) Jplift 19=-162(LC 8), 14=-248(LC 12), 9= Brav 19=522(LC 25), 14=2068(LC 1), 9= . Comp./Max. Ten All forces 250 (lb) o =-451/185, 1-2=-521/207, 2-3=0/530, 3- -1232/413, 8-9=-1509/437 8=-136/521, 16-17=-136/521, 14-16=-90 =-297/484, 2-16=-873/224, 6-13=-756/2 =-152/954, 4-14=-1146/27	-1023(LC 26) r less except when shown 4=0/453, 4-5=-286/311, 5-)2/354, 3-16=-510/273, 11	6=-421/301, -13=-118/796,				
 Wind: ASCE 7-16; MWFRS (envelope) Exterior(2R) 20-6-8 exposed;C-C for me Provide adequate d All plates are MT20 This truss has been Refer to girder(s) fo Provide mechanical 19=162, 14=248, 9= 	ed in accordance with the 2018 Internati	nph; TCDL=6.0psf; BCDL= -1-12 to 4-0-6, Interior(1) - one; cantilever left and right ins shown; Lumber DOL= we load nonconcurrent with ng plate capable of withsta	4-0-6 to 18-2-8, Exterior(tt exposed ; end vertical 1.60 plate grip DOL=1.60 any other live loads. anding 100 lb uplift at joir	2E) 18-2-8 to 20-6 left and right) nt(s) except (jt=lb)	8,	HOH JOH	MISSOL REW MAS NSDN

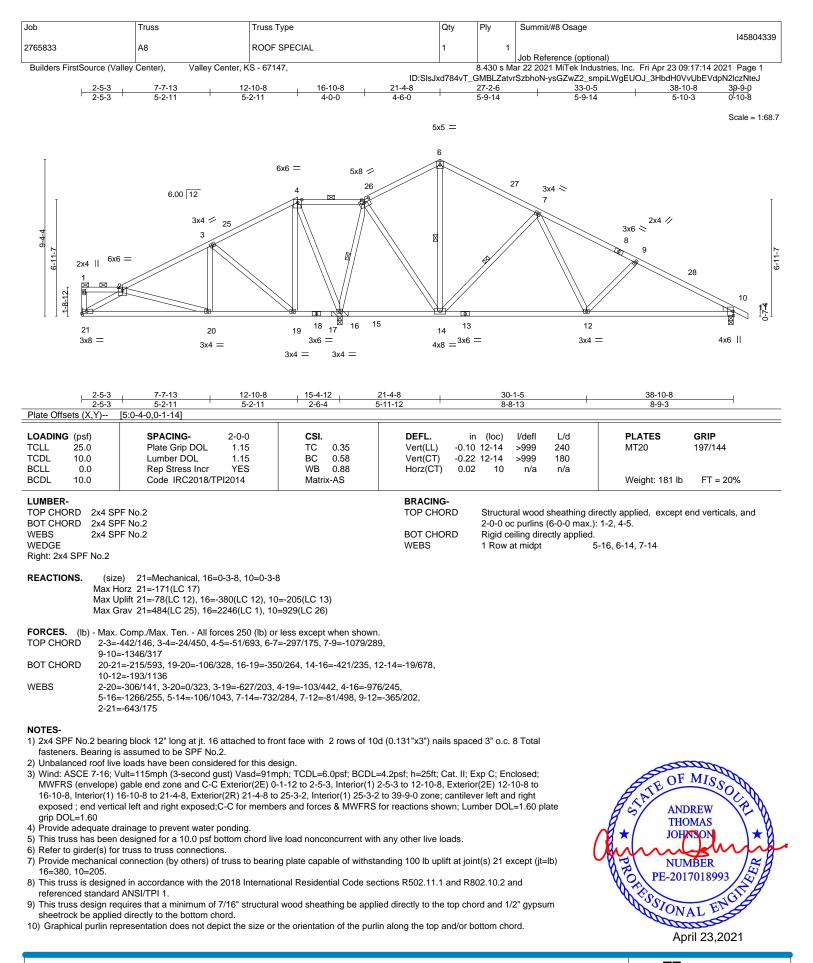
9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

NUMBER PE-2017018993

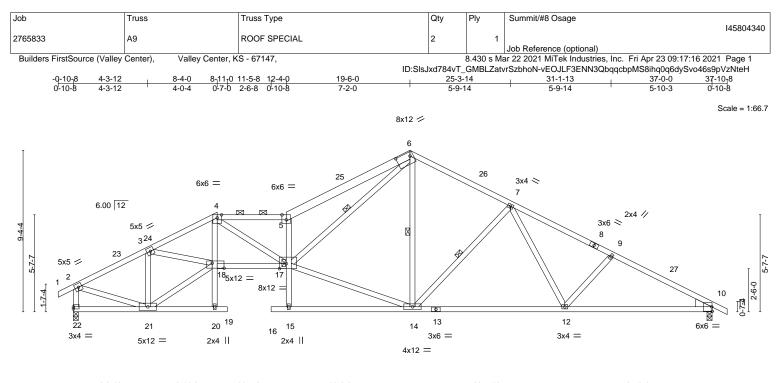
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	3-12 8-11-0 11-5-8	19-6-0	I	28-5-10	37-0-0	
	3-12 4-7-4 2-6-8	8-0-8		8-11-10	8-6-6	
Plate Offsets (X,Y)	[5:0-3-0,Edge], [6:0-9-12,0-2-12], [10:E	dge,0-3-1], [17:0-4-12,Edge	e], [18:0-8-4,0-3-8]			
LOADING (psf) TCLL 25.0	SPACING- 2-0-0 Plate Grip DOL 1.15	CSI. TC 0.91	Vert(LL) -0.42		PLATES GRIP MT20 197/144	
TCDL 10.0 BCLL 0.0	Lumber DOL 1.15 Rep Stress Incr YES	BC 0.95 WB 1.00	Vert(CT) -0.75 Horz(CT) 0.37	14-15 >587 180 10 n/a n/a		
BCDL 10.0	Code IRC2018/TPI2014	Matrix-S			Weight: 186 lb FT = 20%	
5-6: 2x BOT CHORD 2x4 SF WEBS 2x4 SF	PF No.2 *Except* 6 SPF No.2 PF No.2 PF No.2 *Except* 2x4 SPF 1650F 1.5E		BRACING- TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals, and 2-0-0 oc purlins (2-2-0 max.): 4-5. BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 2-2-0 oc bracing: 17-18 9-11-10 oc bracing: 10-12.			
WEDGE WEBS 1 Row at midpt 5-15, 6-14, 7-14, 6-17 Right: 2x6 SPF No.2 Image: 2x6 SPF No.2 Image: 2x6 SPF No.2						
Max U	e) 22=0-3-8, 10=0-3-8 lorz 22=-159(LC 13) Jplift 22=-298(LC 12), 10=-285(LC 13) Grav 22=1746(LC 1), 10=1732(LC 1)					
TOP CHORD 2-3=-	Comp./Max. Ten All forces 250 (lb) c -2095/366, 3-4=-4335/755, 4-5=-4798/ -2729/489, 9-10=-2960/489, 2-22=-170	01, 5-6=-5405/990, 6-7=-20				
WEBS 4-18: 9-12:	8=-638/3823, 12-14=-241/2166, 10-12= =-159/929, 5-17=-2838/615, 3-21=-168 =-273/196, 2-21=-252/1827, 7-14=-666 =-284/2080, 14-17=-147/1761, 6-17=-7	9/362, 4-17=-212/1205, 6-1 /272, 7-12=-83/444, 18-21=	,			
2) Wind: ASCE 7-16; W MWFRS (envelope)	e loads have been considered for this d /ult=115mph (3-second gust) Vasd=91 gable end zone and C-C Exterior(2E) 19-6-0, Exterior(2R) 19-6-0 to 23-2-6, I	nph; TCDL=6.0psf; BCDL= 0-10-8 to 2-9-14, Interior(1)	2-9-14 to 8-4-0, Exterio	or(2E) 8-4-0 to 12-4-0,	STE OF MISSO	

vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60 3) Provide adequate drainage to prevent water ponding.

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

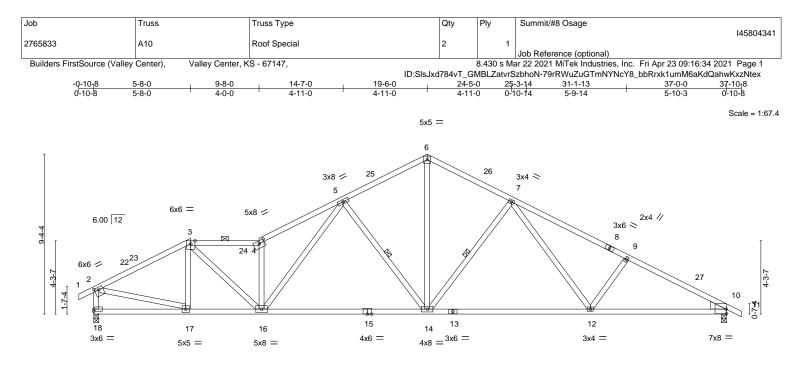
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 22=298, 10=285.

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

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

ANDREW THOMAS JOHNSON NUMBER PE-2017018993 April 23,2021

> NITEK° 16023 Swingley Ridge Rd Chesterfield, MO 63017

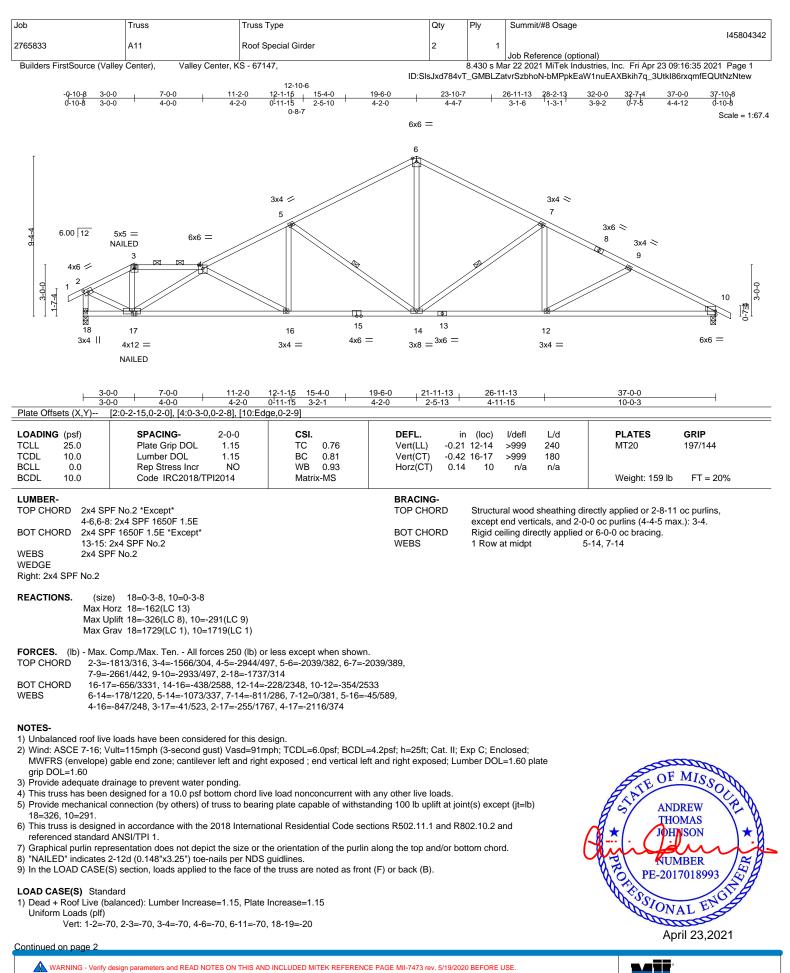


—	5-8-0 9-8- 5-8-0 4-0-			<u>27-1</u> 8-4					
Plate Offsets (X,Y)	[2:0-3-0,0-1-12], [4:0-4-0,0-	• • • •	-0	0-4	-1 1-2-	1 7-11-0			
LOADING (psf) TCLL 25.0 TCDL 10.0 BCLL 0.0 BCDL 10.0	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr Code IRC2018/TPl2	2-0-0 CSI. 1.15 TC 0.63 1.15 BC 0.99 YES WB 0.56 2014 Matrix-AS	Vert(CT)	in (loc -0.23 14-16 -0.53 14-16 0.12 10	5 >999 240 5 >832 180	PLATES MT20 Weight: 165 lb	GRIP 197/144 FT = 20%		
BRACING- TOP CHORD 2x4 SPF No.2 BOT CHORD 2x4 SPF No.2 WEBS 2x4 SPF No.2 WEDGE BOT CHORD Right: 2x6 SPF No.2 WEBS									
REACTIONS. (size) 18=0-3-8, 10=0-3-8 Max Horz 18=-162(LC 17) Max Uplift 18=-308(LC 12), 10=-287(LC 13) Max Grav 18=1730(LC 1), 10=1719(LC 1)									
TOP CHORD 2-3= 7-9= BOT CHORD 16-1 WEBS 3-16	=-2233,398, 3-4=-2946/535, 4 =-2763,494, 9-10=-2970,486, 7=-386,1939, 14-16=-339,22 5=-203,1408, 4-16=-1759,392	es 250 (lb) or less except wher 4-5=-3310/642, 5-6=-1999/439 , 2-18=-1665/356 217, 12-14=-229/2104, 10-12= 2, 5-16=-259/1135, 5-14=-844, 9-12=-343/215, 3-17=-379/95,	9, 6-7=-2006/439, -345/2567 /313, 6-14=-263/1418,						
 Wind: ASCE 7-16; MWFRS (envelope Interior(1) 8-8-0 to vertical left and right Provide adequate of 4) This truss has been) gable end zone and C-C E: 19-6-0, Exterior(2R) 19-6-0 to at exposed;C-C for members drainage to prevent water poin designed for a 10.0 psf botto	t) Vasd=91mph; TCDL=6.0psf xterior(2E) -0-10-8 to 2-1-8, Int o 22-6-0, Interior(1) 22-6-0 to 3 and forces & MWFRS for read	erior(1) 2-1-8 to 5-8-0, E 37-10-8 zone; cantilever ctions shown; Lumber D(rent with any other live lo	xterior(2R) 5-6 left and right e DL=1.60 plate ads.	8-0 to 8-8-0, exposed ; end grip DOL=1.60	STATE OF	MISSOL		

- 18=308, 10=287.6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



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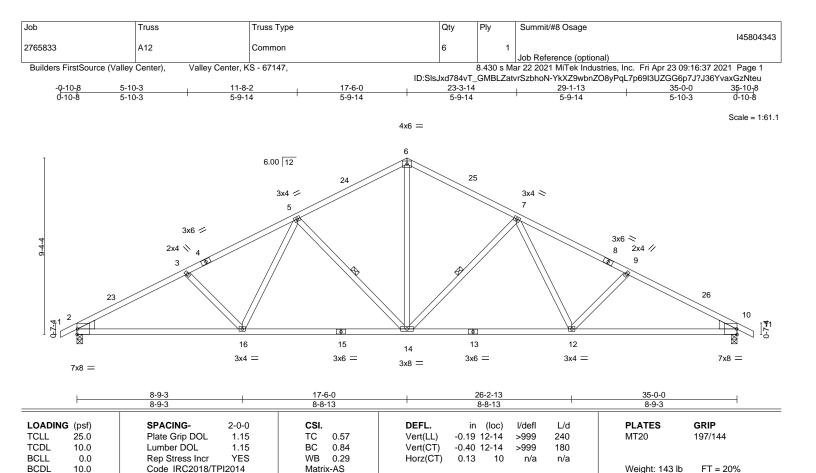
nt Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Summit/#8 Osage
					145804342
2765833	A11	Roof Special Girder	2	1	
					Job Reference (optional)
Builders FirstSource (Valley Center), Valley Center, KS - 67147,				8.430 s Ma	ar 22 2021 MiTek Industries, Inc. Fri Apr 23 09:16:35 2021 Page 2

ID:SIsJxd784vT_GMBLZatvrSzbhoN-bMPpkEaW1nuEAXBkih7q_3Utkl86rxqmfEQUtNzNtew

LOAD CASE(S) Standard Concentrated Loads (lb) Vert: 17=1(B)





BRACING-

WEBS

BOT CHORD

Structural wood sheathing directly applied.

7-14, 5-14

Rigid ceiling directly applied.

1 Row at midpt

ЈМВ	

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

WEDGE

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

REACTIONS. (size) 2=0-3-8, 10=0-3-8 Max Horz 2=162(LC 12) Max Uplift 2=-280(LC 12), 10=-280(LC 13) Max Grav 2=1636(LC 1), 10=1636(LC 1)

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

TOP CHORD 2-3=-2778/469, 3-5=-2530/444, 5-6=-1834/397, 6-7=-1834/397, 7-9=-2530/444, 9-10=-2778/469

 BOT CHORD
 2-16=-488/2395, 14-16=-323/2019, 12-14=-208/2019, 10-12=-327/2395

 WEBS
 6-14=-197/1178, 7-14=-701/281, 7-12=-73/433, 9-12=-316/194, 5-14=-701/280, 5-16=-73/433, 3-16=-316/194

NOTES-

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

2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; 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 17-6-0, Exterior(2R) 17-6-0 to 20-6-0, Interior(1) 20-6-0 to 35-10-8 zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

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

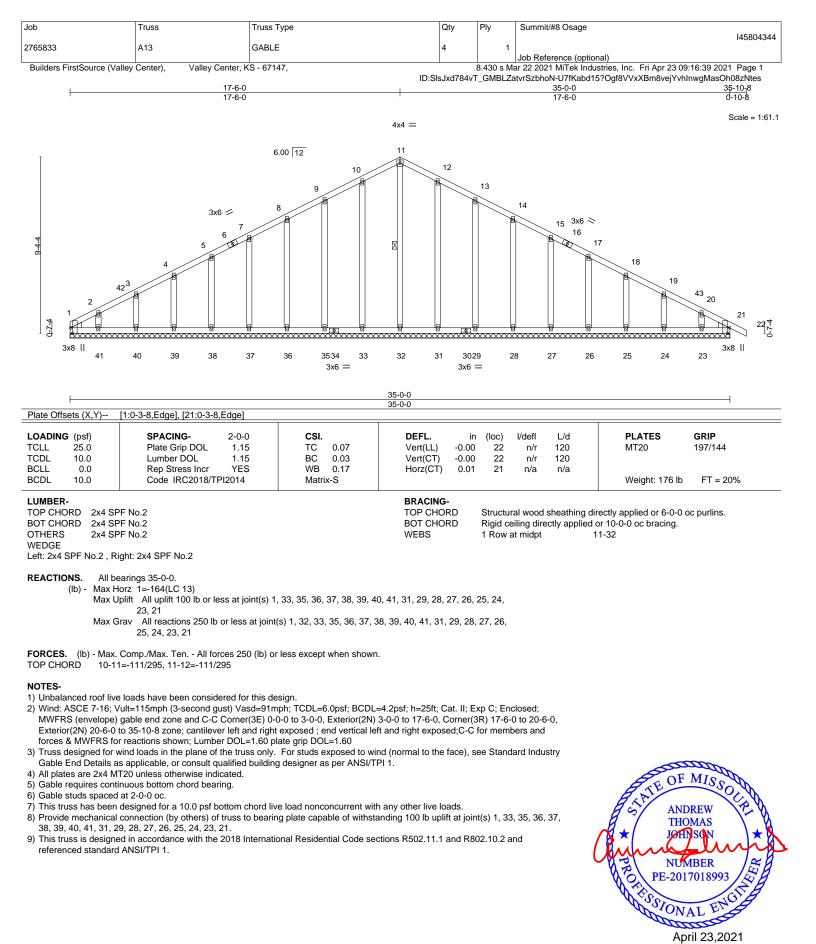
 Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=280, 10=280.

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

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

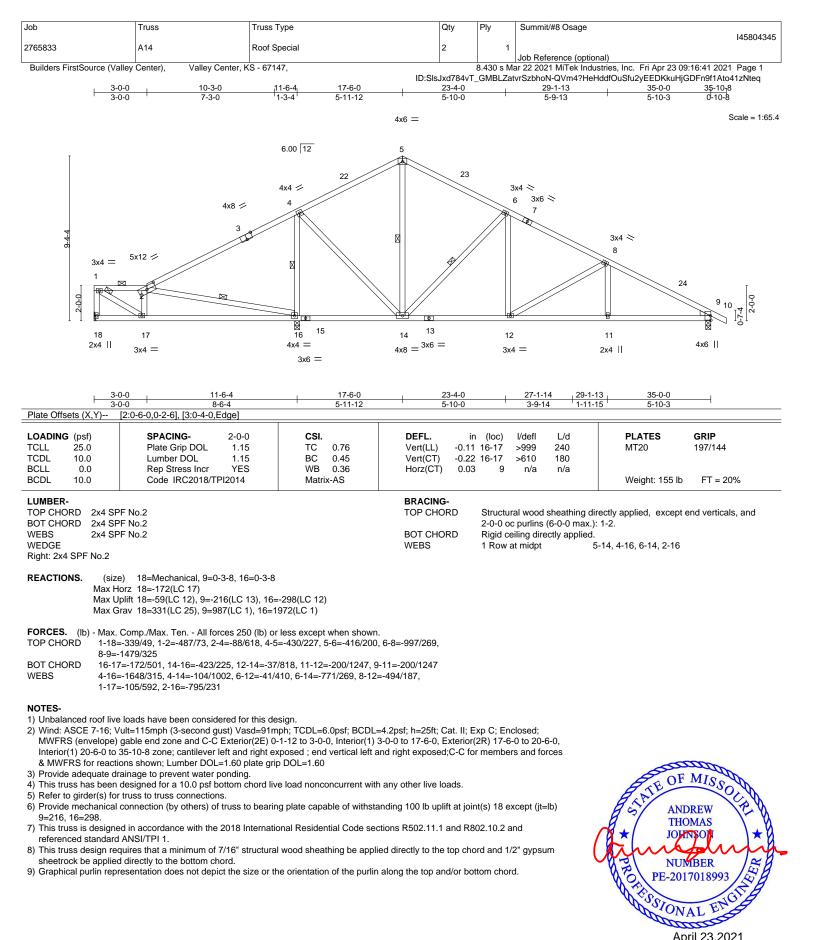






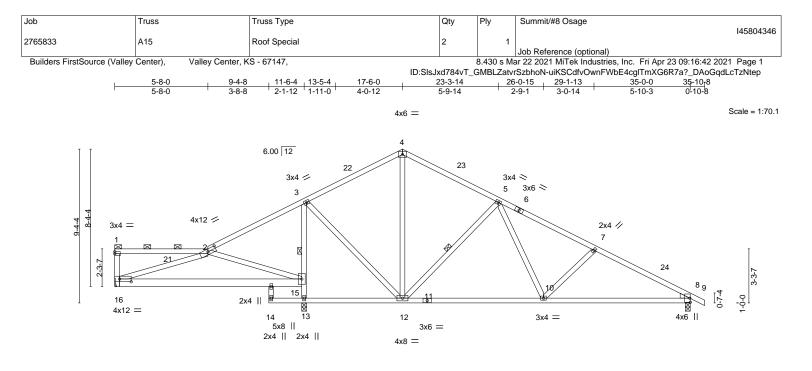
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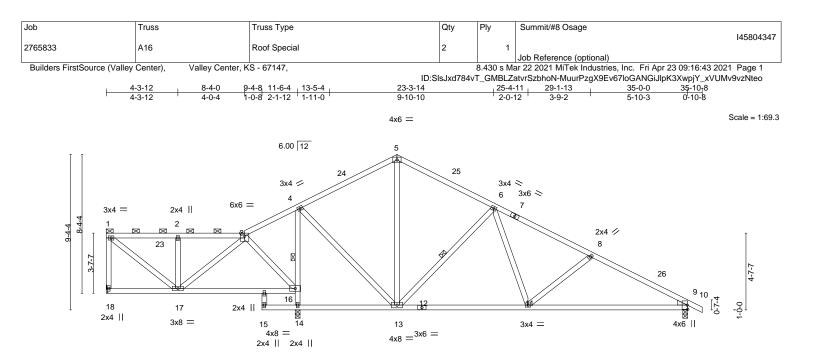
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ł	5-8-0		11-6-4	17-6-0		26-0-15			35-0-0	4
Plate Offsets (X,Y)	<u>5-8-0</u> [2:0-6-0,0-1-14], [16:0-8		2-1-12	5-11-12		8-6-15			8-11-1	······································
LOADING (psf) TCLL 25.0 TCDL 10.0 BCLL 0.0 BCDL 10.0	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr Code IRC2018/T	2-0-0 1.15 1.15 YES PI2014	CSI. TC BC WB Matrix	0.54 0.61 0.44 x-AS	DEFL. Vert(LL) Vert(CT) Horz(CT)	in -0.19 15 -0.38 15 -0.03	5-16 >725	L/d 240 180 n/a	PLATES MT20 Weight: 159 lb	GRIP 197/144 FT = 20%
BOT CHORD 2x4 SI 15-16:	PF No.2 PF No.2 *Except* : 2x6 SPF No.2 PF No.2				BRACING- TOP CHOR BOT CHOR WEBS	2 D R	Structural wood -0-0 oc purlins Rigid ceiling din Row at midpt	s (6-0-0 max.) ectly applied.		end verticals, and
Max H Max U Max C FORCES. (Ib) - Max TOP CHORD 2-3= BOT CHORD 15-1 WEBS 2-15	ze) 8=0-3-8, 13=0-3-8, Horz 16=-194(LC 13) Uplift 8=-263(LC 13), 13= Grav 8=1090(LC 1), 13=1 Comp./Max. Ten All fc 56/301, 3-4=-649/325, 4 6=-224/560, 10-12=-130/ 5=-643/261, 2-16=-433/36 2=-727/279, 5-10=-69/483	-231(LC 12), 1 1696(LC 1), 16 orces 250 (lb) c -5=-644/302, 5 /981, 8-10=-29 0, 13-15=-160	6=-133(LC 8) =467(LC 25) or less except 5-7=-1396/406 8/1421 2/271, 3-15=-	when shown. 5, 7-8=-1669/4						
 Wind: ASCE 7-16; MWFRS (envelope , Interior(1) 20-6-01 & MWFRS for react Provide adequate of Provide adequate of This truss has beer Refer to girder(s) for Provide mechanica 8=263, 13=231, 16; This truss is design referenced standard This truss design re sheetrock be applied 	ned in accordance with the	gust) Vasd=91r C Exterior(2E) (er left and right =1.60 plate gr ponding. bottom chord li ns. of truss to beari e 2018 Internat 7/16" structura hord.	mph; TCDL=6 0-1-12 to 3-1- exposed ; en ip DOL=1.60 ve load nonco ng plate capa ional Resider al wood sheat	12, Interior(1) d vertical left a poncurrent with able of withstar ntial Code sect thing be applie	3-1-12 to 17-6-0, and right exposed; any other live load nding 100 lb uplift ions R502.11.1 at d directly to the to	Exterior(2 C-C for r ds. at joint(s nd R802. op chord	2R) 17-6-0 to members and s) except (jt=lb .10.2 and and 1/2" gyps	forces)	NUN	MISSOL PREW MAS NON MBER 7018993



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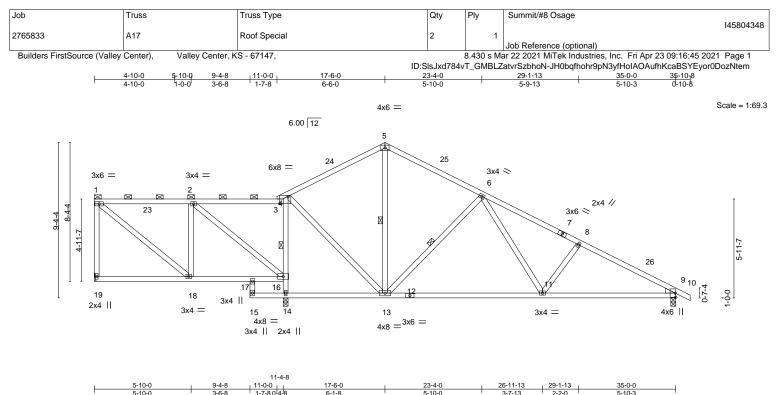


⊢––	4-3-12 8-4-0 9-4-8 11 4-3-12 4-0-4 1-0-8 2-7		25-4-11 7-10-11	27-1-14 1-9-3	<u>35-0-0</u> 7-10-2	4
LOADING (psf) TCLL 25.0 TCDL 10.0 BCLL 0.0 BCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2018/TPI2014	CSI. TC 0.36 BC 0.63 WB 0.92 Matrix-AS	Vert(LL) -0.13	(loc) l/defl L/d 11-22 >999 240 11-22 >999 180 14 n/a n/a	PLATES MT20 Weight: 159 lb	GRIP 197/144 FT = 20%
LUMBER- TOP CHORD 2x4 SP BOT CHORD 2x4 SP WEBS 2x4 SP WEDGE Right: 2x4 SPF No.2	PF No.2		BRACING- TOP CHORD BOT CHORD WEBS	Structural wood sheathin 2-0-0 oc purlins (6-0-0 m Rigid ceiling directly appl 1 Row at midpt		end verticals, and
Max H Max U	e) 18=Mechanical, 9=0-3-8, 14=0-3-8 orz 18=-224(LC 8) plift 18=-174(LC 8), 9=-265(LC 13), 14= irav 18=476(LC 25), 9=1093(LC 1), 14=					
TOP CHORD 1-18= 6-8= BOT CHORD 11-13 WEBS 14-16	Comp./Max. Ten All forces 250 (lb) or =-454/178, 1-2=-425/145, 2-3=-427/147, -1353/393, 8-9=-1668/444 3=-130/993, 9-11=-304/1423 5=-1588/246, 4-16=-1224/189, 3-16=-41 =-204/523, 3-17=0/296, 6-13=-738/274,	3-4=-51/281, 4-5=-649/32 9/111, 4-13=0/793, 2-17=-3	332/140,			
 Wind: ASCE 7-16; V MWFRS (envelope) , Interior(1) 20-6-0 tt & MWFRS for reacti Provide adequate dr 4) This truss has been Refer to girder(s) for Provide mechanical 18=174, 9=265, 14= This truss is designer referenced standard This truss design red sheetrock be applied 	ed in accordance with the 2018 Internation	ph; TCDL=6.0psf; BCDL=4 1-12 to 3-1-12, Interior(1) : exposed ; end vertical left a DOL=1.60 e load nonconcurrent with g plate capable of withstar onal Residential Code sect wood sheathing be applie	3-1-12 to 17-6-0, Exterio ind right exposed;C-C fo any other live loads. iding 100 lb uplift at join ions R502.11.1 and R80 d directly to the top cho	or(2R) 17-6-0 to 20-6-0 or members and forces t(s) except (jt=lb) 02.10.2 and rd and 1/2" gypsum	THU JOH	MISSOUT DREW DMAS NSON HBER 17018993

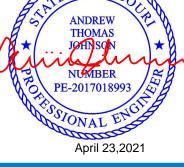


WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, 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

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		-8 0 4 8 6-1-8	5-10-0	3-7-13	2-2-0	5-10-3	
Plate Offsets (X,Y)	[3:0-6-0,0-5-4]						
LOADING (psf) TCLL 25.0 TCDL 10.0 BCLL 0.0 BCDL 10.0	SPACING-2-0-0Plate Grip DOL1.15Lumber DOL1.15Rep Stress IncrYESCodeIRC2018/TPI2014	CSI. TC 0.41 BC 0.61 WB 0.91 Matrix-AS	Vert(LL) -0.17	n (loc) l/defl 7 11-13 >999 5 11-13 >798 2 14 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 162 lb	GRIP 197/144 FT = 20%
LUMBER- TOP CHORD 2x4 SF BOT CHORD 2x4 SF WEBS 2x4 SF WEDGE Right: 2x4 SPF No.2			BRACING- TOP CHORD BOT CHORD WEBS	Structural wood 2-0-0 oc purlins Rigid ceiling dire 1 Row at midpt	(6-0-0 max.): 1 ctly applied.	ctly applied, except I-4. 13, 4-14, 6-13	end verticals, and
Max U	e) 19=Mechanical, 9=0-3-8, 14=0-3-8 lorz 19=-252(LC 8) Jplift 19=-153(LC 8), 9=-242(LC 13), 14= Grav 19=430(LC 25), 9=1059(LC 1), 14=						
TOP CHORD 1-19= 6-8=- BOT CHORD 17-18 WEBS 14-16	Comp./Max. Ten All forces 250 (lb) of =-372/166, 1-2=-264/130, 2-3=0/252, 3 -1409/388, 8-9=-1622/386 8=-24/286, 16-17=-26/374, 11-13=-93/9 6=-1631/246, 4-16=-1272/232, 4-13=-37 =-335/194, 1-18=-159/307, 2-16=-542/52	4=-12/291, 4-5=-579/277, 17, 9-11=-255/1377 /904, 6-13=-714/286, 6-11	5-6=-583/254,				
 Wind: ASCE 7-16; WMWFRS (envelope), Interior(1) 20-6-0 tt & MWFRS for reacti Provide adequate dr This truss has been Refer to girder(s) for Provide mechanical 19=153, 9=242, 14= This truss is designered standard This truss design resheetrock be applied 	ed in accordance with the 2018 Internati	hph; TCDL=6.0psf; BCDL= -1-12 to 3-1-12, Interior(1) exposed ; end vertical left p DOL=1.60 re load nonconcurrent with ng plate capable of withsta onal Residential Code sec I wood sheathing be applie	3-1-12 to 17-6-0, Exter and right exposed;C-C any other live loads. nding 100 lb uplift at joi tions R502.11.1 and R8 ed directly to the top ch	ior(2R) 17-6-0 to 2 for members and for nt(s) except (jt=lb) 302.10.2 and ord and 1/2" gypsu	prces		MISSOLP DREW DMAS TSGN TBER TO18993





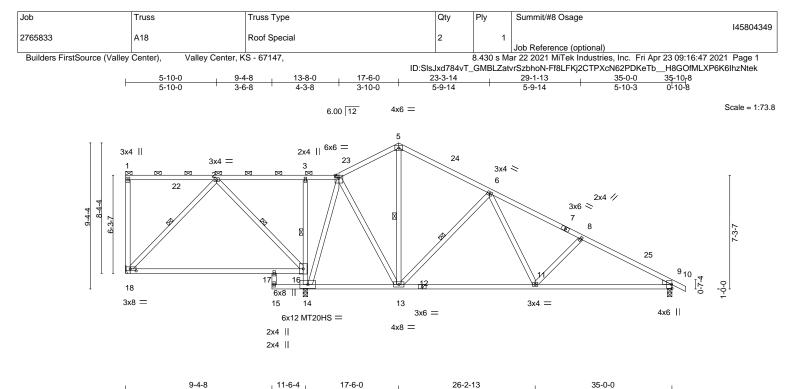


Plate Offsets (X,Y)	<u>9-4-8</u> [18:0-4-8,0-1-8]	2-1-12 5-11-12	8-8-13	8-9-3	
LOADING (psf) TCLL 25.0 TCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15	CSI. TC 0.47 BC 0.66	DEFL. in (loc) I/del Vert(LL) -0.29 17-18 >468 Vert(CT) -0.57 17-18 >239	5 240 MT20	GRIP 197/144 148/108
BCLL 0.0 BCDL 10.0	Rep Stress Incr YES Code IRC2018/TPI2014	WB 0.96 Matrix-AS	Horz(CT) 0.03 14 n/s		FT = 20%
LUMBER- TOP CHORD 2x4 SP BOT CHORD 2x4 SP				ood sheathing directly applied, except ins (6-0-0 max.): 1-4.	
WEBS 2x4 SP OTHERS 2x4 SP	F No.2			directly applied. Except:	
WEDGE Right: 2x4 SPF No.2			WEBS 1 Row at mid	lpt 2-18, 2-16, 5-13, 6-13	

REACTIONS. (size) 14=0-3-8, 9=0-3-8, 18=Mechanical Max Horz 18=-300(LC 8) Max Uplift 14=-92(LC 12), 9=-281(LC 13), 18=-266(LC 8) Max Grav 14=1872(LC 1), 9=1019(LC 1), 18=355(LC 25)

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

TOP CHORD 2-3=0/406, 3-4=0/418, 4-5=-447/366, 5-6=-493/341, 6-8=-1264/445, 8-9=-1529/470

BOT CHORD 14-16=-716/99, 3-16=-305/139, 11-13=-164/848, 9-11=-328/1297

- WEBS 2-18=-131/351, 2-16=-547/0, 6-13=-728/278, 6-11=-69/502, 8-11=-357/195,
 - 4-14=-1031/120, 4-13=0/753

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=4.2psf; h=25ft; 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 17-6-0, Exterior(2R) 17-6-0 to 20-6-0, Interior(1) 20-6-0 to 35-10-8 zone; cantilever left and right exposed; end vertical left and right exposed;C-C for members and forces

- & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.

4) All plates are MT20 plates unless otherwise indicated.

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

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

7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 14 except (jt=lb) 9=281, 18=266.

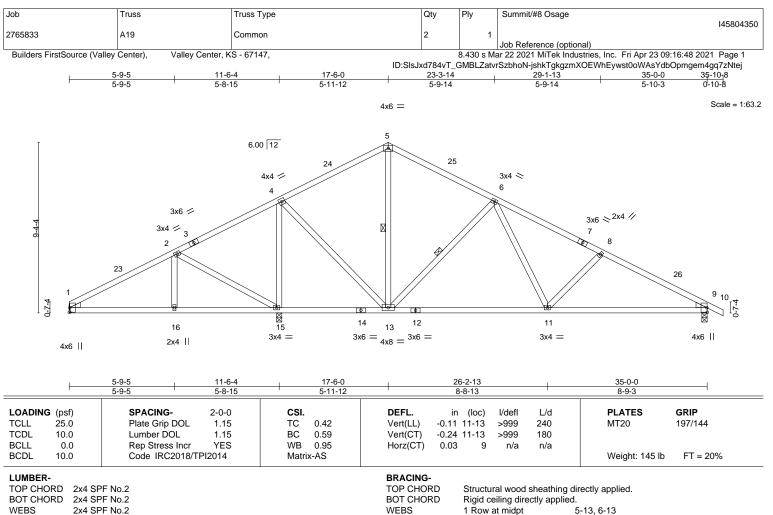
8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

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.







WEDGE

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

REACTIONS. (size) 1=Mechanical, 15=0-3-8, 9=0-3-8 Max Horz 1=-170(LC 13) Max Uplift 1=-67(LC 12), 15=-287(LC 12), 9=-217(LC 13) Max Grav 1=407(LC 25), 15=1869(LC 1), 9=1022(LC 1)

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

1-2=-462/97, 2-4=-33/461, 4-5=-500/224, 5-6=-498/209, 6-8=-1269/315, 8-9=-1534/342 1-16=-139/354, 15-16=-139/354, 13-15=-332/223, 11-13=-44/851, 9-11=-215/1302 TOP CHORD

- BOT CHORD
- WEBS 2-15=-611/210, 4-15=-1469/248, 4-13=-102/982, 6-13=-728/282, 6-11=-79/493,
- 8-11=-357/201

NOTES-

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

2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; 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 17-6-0, Exterior(2R) 17-6-0 to 20-6-0, Interior(1) 20-6-0 to 35-10-8 zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

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

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

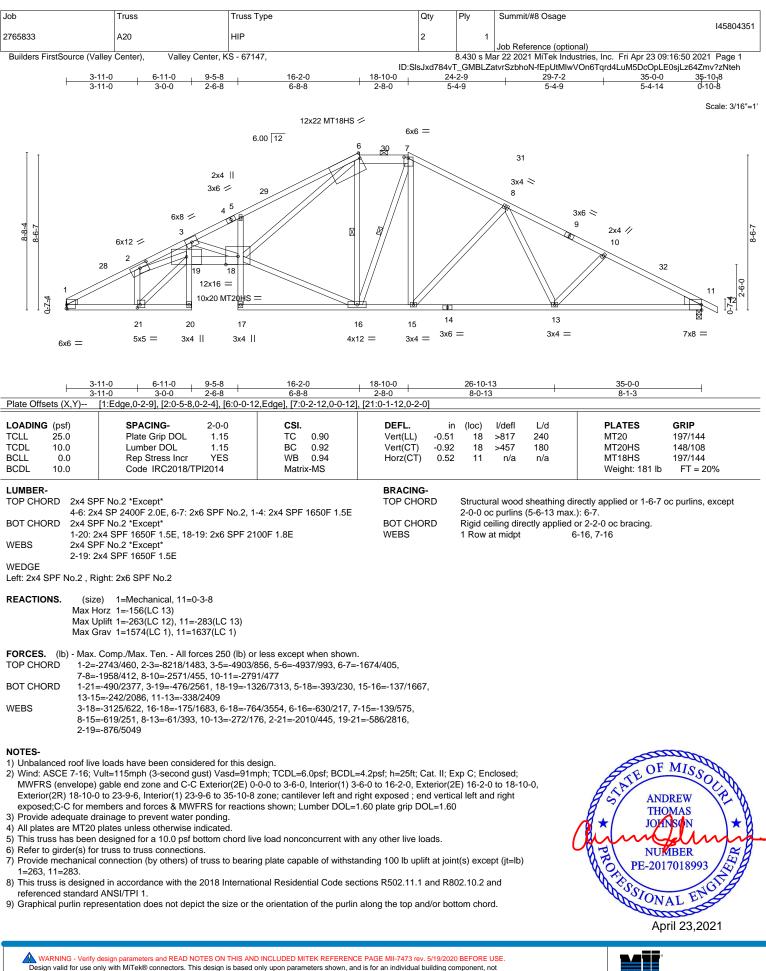
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1 except (jt=lb) 15=287, 9=217.

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.



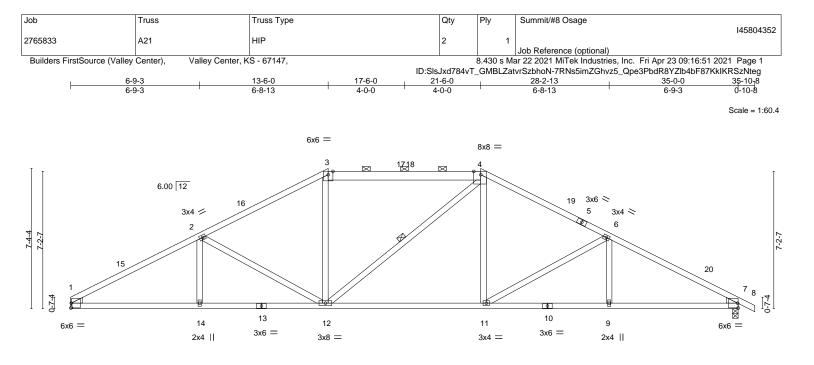
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ŀ	6-9-3 6-9-3	13-6-0 6-8-13		<u>21-6-0</u> 8-0-0	28-2-1		<u>35-0-0</u> 6-9-3	
Plate Offsets (X,Y)	[4:0-4-6,Edge]							
LOADING (psf) TCLL 25.0 TCDL 10.0 BCLL 0.0 BCDL 10.0	SPACING- Plate Grip DOI Lumber DOL Rep Stress Inc Code IRC2018	1.15 r YES	CSI. TC 0.96 BC 0.86 WB 0.59 Matrix-S	Vert(LL) -0.1	35 11-12 >999	L/d 240 180 n/a	PLATES MT20 Weight: 143 lb	GRIP 197/144 FT = 20%
3-4: 2x BOT CHORD 2x4 SF	PF No.2 *Except* 6 SPF No.2 PF No.2 PF No.2			BRACING- TOP CHORD BOT CHORD WEBS	Structural wood sh 2-0-0 oc purlins (4 Rigid ceiling direct 1 Row at midpt	-4-3 max.): 3-	4. 3-8-9 oc bracing.	

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

REACTIONS. (size) 1=Mechanical, 7=0-3-8 Max Horz 1=-127(LC 17) Max Uplift 1=-268(LC 12), 7=-287(LC 13) Max Grav 1=1565(LC 1), 7=1638(LC 1)

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

TOP CHORD 1-2=-2818/475, 2-3=-2228/418, 3-4=-1895/414, 4-6=-2221/415, 6-7=-2811/460

BOT CHORD 1-14=-453/2408, 12-14=-453/2408, 11-12=-176/1888, 9-11=-313/2371, 7-9=-313/2371

WEBS 2-14=0/278, 2-12=-594/245, 3-12=-42/479, 4-11=-51/474, 6-11=-562/239, 6-9=0/274

NOTES-

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

2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-0-12 to 3-0-12, Interior(1) 3-0-12 to 13-6-0, Exterior(2R) 13-6-0 to 17-8-15, Interior(1) 17-8-15 to 21-6-0, Exterior(2R) 21-6-0 to 25-8-15, Interior(1) 25-8-15 to 35-10-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

3) Provide adequate drainage to prevent water ponding.

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

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

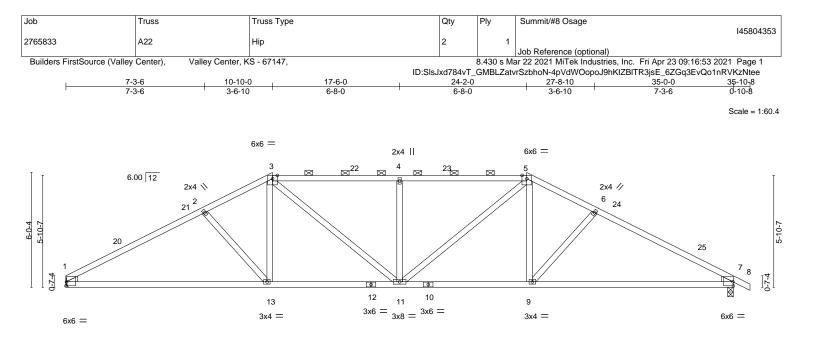
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=268, 7=287.

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.

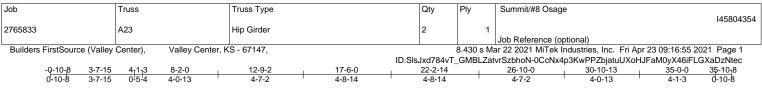






 	10-10-0 10-10-0	<u>17-6-0</u> 6-8-0	<u> </u>	<u>35-0-0</u> 10-10-0						
Plate Offsets (X,Y)	[1:Edge,0-2-9], [7:Edge,0-2-9]	0-8-0	6-8-0	10-10-0						
LOADING (psf) TCLL 25.0 TCDL 10.0 BCLL 0.0 BCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2018/TPI2014	CSI. TC 0.64 BC 0.85 WB 0.31 Matrix-AS	DEFL. in (loc) l/defl Vert(LL) -0.22 13-16 >999 Vert(CT) -0.48 13-16 >872 Horz(CT) 0.12 7 n/a	180	GRIP 197/144 b FT = 20%					
BOT CHORD 2x4 SI	PF No.2			d sheathing directly applied, excep is (2-11-1 max.): 3-5. irectly applied.	t					
Max H Max I	te) 1=Mechanical, 7=0-3-8 Horz 1=-108(LC 13) Jplift 1=-272(LC 12), 7=-292(LC 13) Grav 1=1574(LC 1), 7=1637(LC 1)									
FORCES. (lb) - Max. Comp./Max. Ten All forces 250 (lb) or less except when shown. TOP CHORD 1-2=-2711/481, 2-3=-2431/450, 3-4=-2534/485, 4-5=-2534/485, 5-6=-2427/449, 6-7=-2707/479 BOT CHORD 1-13=-418/2325, 11-13=-295/2131, 9-11=-218/2128, 7-9=-316/2319 WEBS 2-13=-287/182, 3-13=-63/431, 3-11=-183/655, 4-11=-567/223, 5-11=-183/657, 5-9=-62/430, 6-9=-282/181										
 Wind: ASCE 7-16; MWFRS (envelope), Interior(1) 15-0-15 end vertical left and DOL=1.60 Provide adequate d This truss has beer Refer to girder(s) fc Provide mechanica 1=272, 7=292. This truss is design referenced standard This truss design re sheetrock be applie) gable end zone and C-Č Exterior(2E) 0 to 24-2-0, Exterior(2R) 24-2-0 to 28-4-1 right exposed;C-C for members and for rainage to prevent water ponding. designed for a 10.0 psf bottom chord liv r truss to truss connections. I connection (by others) of truss to bearin ed in accordance with the 2018 Internati d ANSI/TPI 1.	hph; TCDL=6.0psf; BCDL= -0-0 to 3-0-0, Interior(1) 3 5, Interior(1) 28-4-15 to 3 ces & MWFRS for reaction re load nonconcurrent with ng plate capable of withsta onal Residential Code set I wood sheathing be appl	n any other live loads. anding 100 lb uplift at joint(s) except (jt=l ctions R502.11.1 and R802.10.2 and led directly to the top chord and 1/2" gyp	15-0-15 bosed ; b) sum	F MISSOLAR NDREW HOMAS HDISON JMBER 017018993					





Scale = 1:62.1

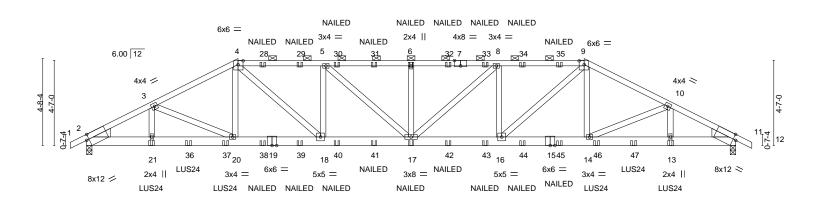


Plate Offsets (X,Y) [2:0-1-11,0-3-7], [4:0-3-4,0-2-8], [7:0-4-0.Edge], [9:0-3-4,0-2-8], [1:0-0-0-0-0-0], [11:0-1-11,0-3-7] LODDING (psf) TCLL SPACING- 2:0-0 Plate Grip DOL 1.15 IS C OSI PLATES GRIP MT20 PLATES GRIP MT20 Ign 2/3 CDL 1.00 BCLL Lumber DOL 1.15 IS BC 0.61 Vert(L1) 0.40 Vert(CT) 0.68 17 7.969 240 Vert(CT) MT20 197/144 DCL 1.00 BCLL Code IRC2018/TP2014 Matrix-MS BRACING- TOP CHORD 24.59 Z400F 2.00 "Except" 2-00 oc putins (2-2-10 max): 4-9. Weight: 185 ib FT = 20% EUMBER- TOP CHORD 2x4 SPF 1650F 1.5E S0T CHORD BOT CHORD Rigid ceiling directly applied or 2-5-1 oc putlins, except 2-00 oc putlins (2-2-10 max): 4-9. BOT CHORD Rigid ceiling directly applied or 6-8-8 oc bracing. WEBS 2x4 SPF No.2 WEDGE BOT CHORD Rigid ceiling directly applied or 6-8-8 oc bracing. Left: 2x6 SP No.2, Right: 2x6 SP No.2 REACTIONS (is) 2x2 - 78/LC 34) Max Upit 2- 1087/LC 8), 11=-1067/LC 9) Max Grav 2-3132(LC 1), 11=3132(LC 1) Not CHORD 2-3=-5656/1960, 3-4=-5364/1939, 4-5=-6156/275, 5-6=-6493/2396, 6-8=-6493/2396, 6-8=-6493/2396, 6-8=-6493/2396, 6-8=-6493/2396, 6-8=-6493/2396, 6-8=-6493/2396, 6-8=-6493/2396, 6-8=-6493/2396, 6
TCLL 25.0 Plate Grip DOL 1.15 TC 0.90 Vert(LL) 0.40 17 >999 240 MT20 197/144 TCDL 0.0 Rep Stress Incr NO WB 0.52 Horz(CT) 0.68 17 >615 180 Weight: 185 lb FT = 20% LUMBER- Code IRC2018/TPI2014 Matrix-MS BRACING- TOP CHORD 2x4 SPF 1650F 1.5E BRACING- BOT CHORD 2x4 SPF 1650F 1.5E BOT CHORD Structural wood sheathing directly applied or 2.5-1 oc purlins, except BOT CHORD 2x4 SPF No.2 WEBS 2x4 SPF No.2 BOT CHORD Rigid ceiling directly applied or 6-8-8 oc bracing. WEBGE Left: 2x6 SP No.2, Right: 2x6 SP No.2 BOT CHORD Rigid ceiling directly applied or 6-8-8 oc bracing. WEBS REACTIONS. (isize) 2-0-3-8, 11=0-3-8 BOT CHORD Rigid ceiling directly applied or 6-8-8 oc bracing. WEDGE Left: 2x6 SP No.2, Right: 2x6 SP Ao.2 BOT CHORD Structural wood sheathing directly applied or 6-8-8 oc bracing. WEBS 2-0-38, 11=-0-38 Max Horiz 22-78(IC 34) Max Horiz 22-78(IC 34) Max Horiz
LUMBER- TOP CHORD 2x4 SPF 1650F 1.5E BRACING- TOP CHORD Structural wood sheathing directly applied or 2-5-1 oc purlins, except BOT CHORD 2x6 SP 2400F 2.0E "Except" TOP CHORD Structural wood sheathing directly applied or 2-5-1 oc purlins, except WEBS 2x4 SPF No.2 BOT CHORD BOT CHORD Rigid ceiling directly applied or 6-8-8 oc bracing. WEBS 2x4 SPF No.2 BOT CHORD BOT CHORD Rigid ceiling directly applied or 6-8-8 oc bracing. WEDGE Left: 2x6 SP No.2, Right: 2x6 SP No.2 BOT CHORD Rigid ceiling directly applied or 6-8-8 oc bracing. REACTIONS. (size) 2=0-3-8, 11=-0-3-8 Max Horz BOT CHORD Rigid ceiling directly applied or 6-8-8 oc bracing. TOP CHORD 2-20-3-8, 11=-0-3-8 Max Horz BOT CHORD Rigid ceiling directly applied or 6-8-8 oc bracing. TOP CHORD (size) 2=0-3-8, 11=-0-3-8 Max Horz BOT CHORD Rigid ceiling directly applied or 6-8-8 oc bracing. TOP CHORD 2-3-32(LC 34) Max Grav 2=3132(LC 1), 11=3132(LC 1) ToP CHORD 2-3-656/1960; 3-4=-566/1961 BOT CHORD 2-2-1=764/4995, 0-21=-1764/4995, 16-20=1-1671/4748, 17-18=-2174/6054, 16-17=-213/6054, 16-17=-213/6054, 16-17=-224/654, 8-16=-1030/497, 9-17=-239/654, 6-17=-505/273, 8-17=-234/654, 8-16=-1030/497, 9-
TOP CHORD 2x4 SPF 1650F 1.5E TOP CHORD Structural wood sheathing directly applied or 2-5-1 oc purlins, except BOT CHORD 2x6 SP 2400F 2.0E "Except" 2-0-0 oc purlins (2-2-10 max.): 4-9. I5-19: Zx6 SPF 100F BOT CHORD Rigid ceiling directly applied or 6-8-8 oc bracing. WEBS 2x4 SPF No.2 BOT CHORD Rigid ceiling directly applied or 6-8-8 oc bracing. WEDGE Left: Zx6 SP No.2, Right: Zx6 SP No.2 REACTIONS. (size) 2=0-3-8, 11=0-3-8 Max Horz 2=-78(LC 34) Max Uplift 2=-1067(LC 8), 11=-1067(LC 9) Max Grav 2=3132(LC 1), 11=3132(LC 1) Rigid ceiling directly applied or 6-8-8 oc bracing. FORCES. (lb) - Max. Comp./Max. Ten All forces 250 (lb) or less except when shown. 70P CHORD 2-3=-6566/1990, 3-4=-5364/1939, 10-11=-5666/1981 BOT CHORD 2-3=-25656/1960, 3-4=-5364/1939, 10-11=-5656/1961 566-6493/2396, 6-8=-6493/2396, 6-8=-6493/2396, 6-8=-6493/2396, 8-9=-6493/2396, 6-8=-6493
Max Horz 2=-78(LC 34) Max Uplift 2=-1067(LC 8), 11=-1067(LC 9) Max Grav 2=3132(LC 1), 11=3132(LC 1) FORCES. (lb) - Max. Comp./Max. Ten All forces 250 (lb) or less except when shown. TOP CHORD 2-3=-5656/1960, 3-4=-5364/1939, 4-5=-6056/2275, 5-6=-6493/2396, 6-8=-6493/2396, 8-9=-6056/2275, 9-10=-5364/1939, 10-11=-5656/1961 BOT CHORD 2-21=-1764/4995, 20-21=-1764/4995, 18-20=-1671/4748, 17-18=-2174/6054, 16-17=-2133/6054, 14-16=-1592/4748, 13-14=-1687/4995 WEBS 3-20=-253/190, 4-20=-216/779, 4-18=-792/1859, 5-18=-1030/497, 5-17=-293/654, 6-17=-505/273, 8-17=-294/654, 8-16=-1030/497, 9-16=-792/1859, 9-14=-215/779, 10-14=-253/191 NOTES- 1) Unbalanced roof live loads have been considered for this design. 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed;
TOP CHORD 2-3=-5656/1960, 3-4=-5364/1939, 4-5=-6056/2275, 5-6=-6493/2396, 6-8=-6493/2396, 8-9=-6056/2275, 9-10=-5364/1939, 10-11=-5656/1961 BOT CHORD 2-21=-1764/4995, 20-21=-1764/4995, 18-20=-1671/4748, 17-18=-2174/6054, 16-17=-213/6054, 14-16=-1592/4748, 13-14=-1687/4995 WEBS 3-20=-253/190, 4-20=-216/779, 4-18=-792/1859, 5-18=-1030/497, 5-17=-293/654, 6-17=-505/273, 8-17=-294/654, 8-16=-1030/497, 9-16=-792/1859, 9-14=-215/779, 10-14=-253/191 NOTES- 1) Unbalanced roof live loads have been considered for this design. 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed;
1) Unbalanced roof live loads have been considered for this design. 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; 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 ps bottom chord live load nonconcurrent with any other live loads. Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=1067, 11=1067. This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1. Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord. Use Simpson Strong-Tie LUS24 (4-10d Girder, 2-10d Truss, Single Ply Girder) or equivalent spaced at 20-0-0 oc max. starting at 3-6-0 from the left end to 31-6-0 to connect truss(es) to front face of bottom chord. Fill all nail holes where hanger is in contact with lumber. NAILED' indicates 3-10d (0.148"x3") or 3-12d (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).
(1) In the LOAD CASE(S) section, loads applied to the face of the fluxs are noted as nont (F) of back (B).

Continued on page 2



Job	Truss	Truss Type	Qty	Ply	Summit/#8 Osage
					145804354
2765833	A23	Hip Girder	2	1	
					Job Reference (optional)
Builders FirstSource (Valley Center), Valley Center, KS - 67147,				8.430 s Ma	ar 22 2021 MiTek Industries, Inc. Fri Apr 23 09:16:56 2021 Page 2

es, Inc. Fri Apr 23 09:16:56 430 s Mar 22 2021 MiTek Indus ID:SlsJxd784vT_GMBLZatvrSzbhoN-UOAl8Pqh5EXFBIImQc?mKUsQKmMBGXMsU?056fzNteb

LOAD CASE(S) Standard

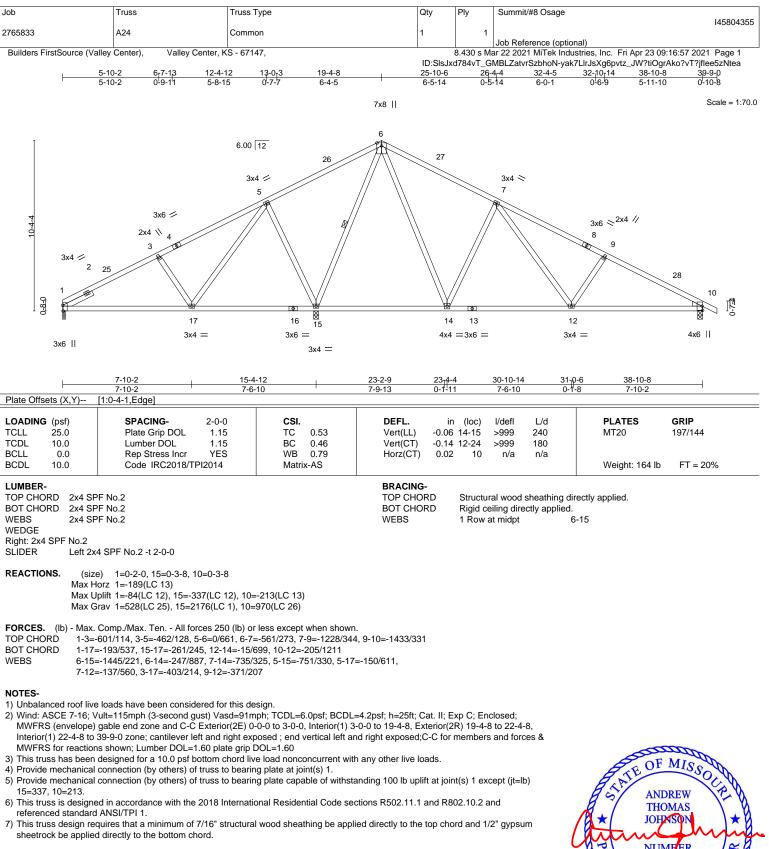
1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf) Vert: 1-4=-70, 4-9=-70, 9-12=-70, 22-25=-20

Concentrated Loads (lb)

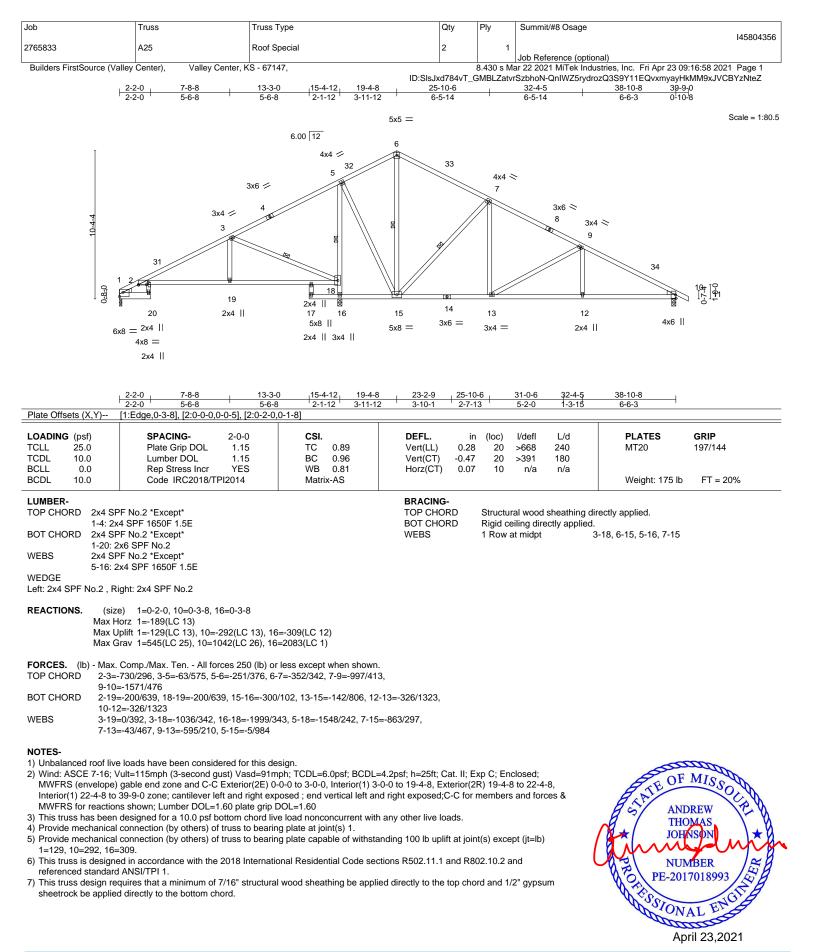
Vert: 17=-79(F) 6=-79(F) 13=-316(F) 21=-316(F) 28=-79(F) 29=-79(F) 30=-79(F) 31=-79(F) 32=-79(F) 33=-79(F) 35=-79(F) 38=-79(F) 39=-79(F) 40=-79(F) 41=-79(F) 42=-79(F) 43=-79(F) 44=-79(F) 45=-79(F) 46=-233(F) 47=-233(F)



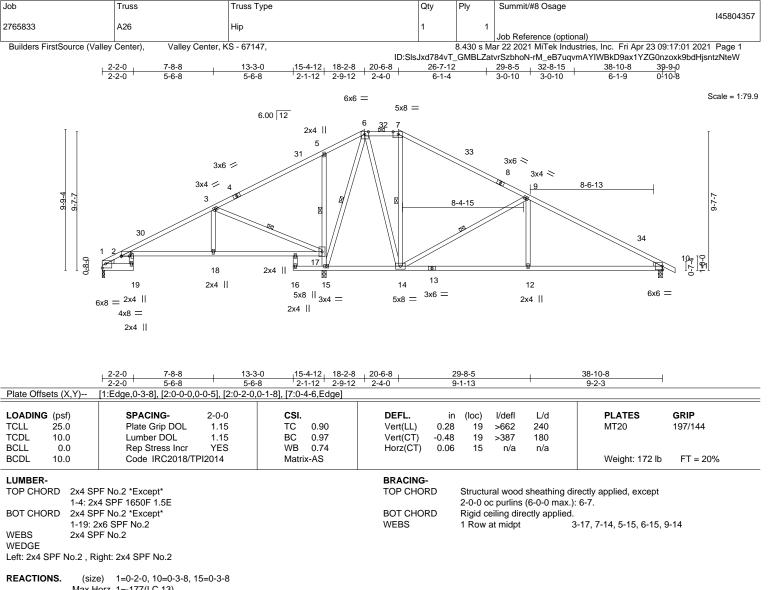












Max Horz 1=-177(LC 13) Max Uplift 1=-128(LC 13), 10=-297(LC 13), 15=-300(LC 12) Max Grav 1=552(LC 25), 10=1058(LC 26), 15=2063(LC 1)

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

- TOP CHORD 2-3=-748/298, 3-5=-44/549, 5-6=-46/449, 6-7=-378/377, 7-9=-574/351, 9-10=-1493/468
- BOT CHORD 2-18=-206/655, 17-18=-206/655, 12-14=-290/1230, 10-12=-290/1230
- WEBS 3-18=0/393, 3-17=-1038/342, 7-14=-333/88, 15-17=-938/358, 5-17=-489/256,
 - EBS 3-18=0/393, 3-17=-1038/342, 7-14=-333/88, 15-17=-938/358, 5-17=-489/ 6-15=-1081/0, 6-14=-167/985, 9-14=-988/344, 9-12=0/387

NOTES-

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

2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; 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 18-2-8, Exterior(2E) 18-2-8 to 20-6-8, Exterior(2R) 20-6-8 to 24-9-7, Interior(1) 24-9-7 to 39-9-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 1.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=128, 10=297, 15=300.

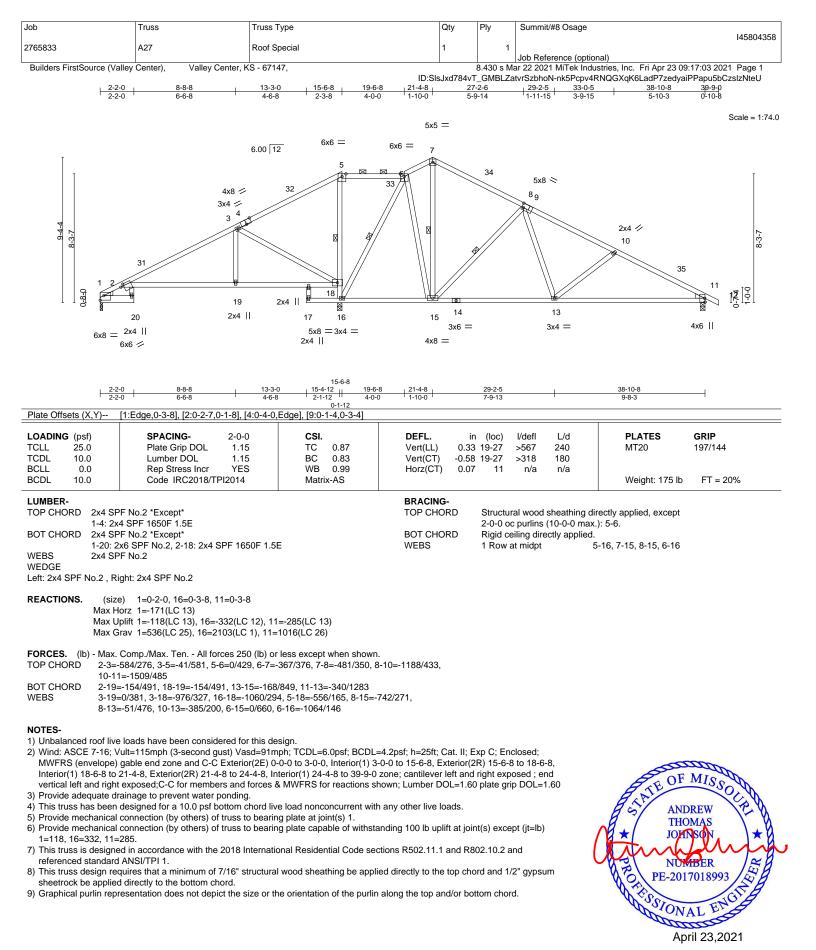
7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

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

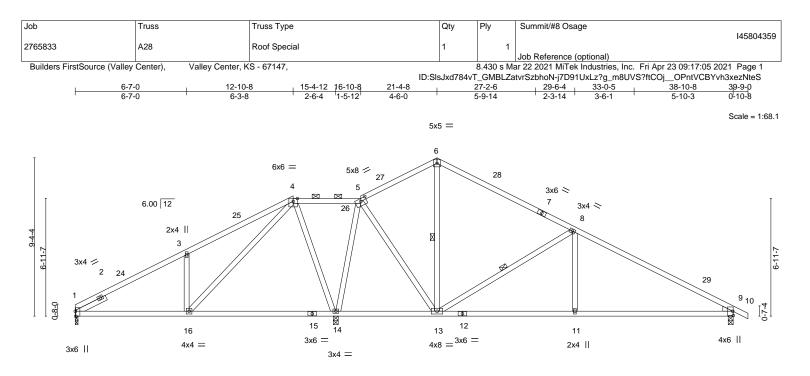
9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.









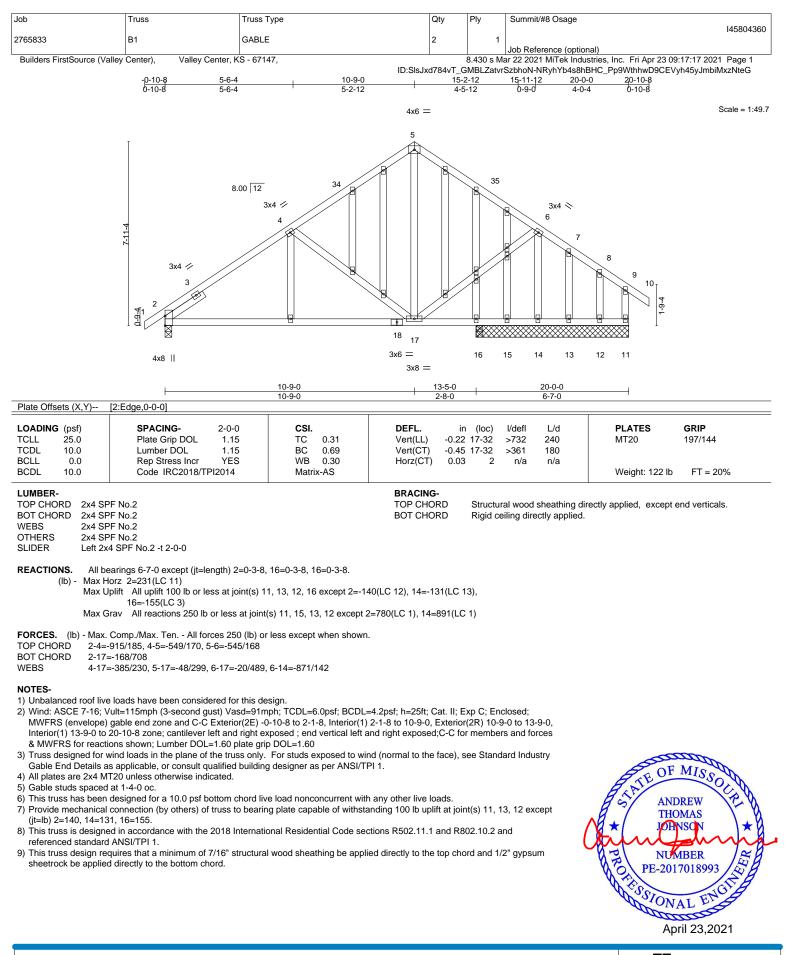


 		<u>2-10-8</u> 6-3-8 <u>2-6-4</u>	<u>16-10-8 21-4-8</u> 1-5-12 4-6-0	24-2-6	29-6-4 5-3-14	31-6-5	<u>38-10-8</u> 7-4-3	
Plate Offsets (X,Y)	[1:0-3-8,Edge], [5:0-4-0,0-1-		1012 400	2014	0014	201	140	
LOADING (psf) TCLL 25.0 TCDL 10.0 BCLL 0.0 BCDL 10.0	Plate Grip DOL Lumber DOL	1.15 BC YES WB	0.65 Ver 0.93 Hor	FL. in (t(LL) 0.13 11 t(CT) -0.29 11 z(CT) 0.01	1-23 >999	L/d 240 180 n/a	PLATES MT20 Weight: 162 lb	GRIP 197/144 FT = 20%
LUMBER- TOP CHORD 2x4 SF BOT CHORD 2x4 SF WEBS 2x4 SF WEDGE Right: 2x4 SFF No.2 SLIDER Left 2x	PF No.2		TOF	2- F CHORD R		sheathing directly (10-0-0 max.): 4-4 ctly applied. 6-13,	5.	
Max H Max U Max G FORCES. (Ib) - Max. TOP CHORD 1-3=- BOT CHORD 1-16= WEBS 3-16=	e) 1=0-2-0, 9=0-3-8, 14=0- lorz 1=-171(LC 13) plift 1=-122(LC 12), 9=-239(irav 1=560(LC 25), 9=1001(I Comp./Max. Ten All forces -659/169, 3-4=-755/322, 4-5= -216/583, 11-13=-180/1114. =-475/270, 5-14=-1152/216, - =-939/334, 8-11=0/377	LC 13), 14=-309(LC 12) LC 1), 14=2044(LC 1) s 250 (lb) or less except v =0/400, 5-6=-419/275, 6-8 , 9-11=-180/1114	8=-502/240, 8-9=-1365	/347				
 Wind: ASCE 7-16; W MWFRS (envelope) , Interior(1) 15-10-8 vertical left and right Provide adequate dt This truss has been Provide mechanical Provide mechanical Provide mechanical 1=122, 9=239, 14=3 This truss is designer referenced standard 	ed in accordance with the 20) Vasd=91mph; TCDL=6.0 terior(2E) 0-0-0 to 3-0-0, 8 to 24-4-8, Interior(1) 24 and forces & MWFRS for ding. om chord live load noncor iss to bearing plate at join iss to bearing plate capab 18 International Resident	Interior(1) 3-0-0 to 12- -4-8 to 39-9-0 zone; ca reactions shown; Lum neurrent with any other t(s) 1. le of withstanding 100 al Code sections R50	10-8, Exterior(2R) antilever left and ber DOL=1.60 pla live loads. Ib uplift at joint(s) 2.11.1 and R802.	 x) 12-10-8 to 15- right exposed; late grip DOL=1. s) except (jt=lb) .10.2 and 	end .60		MISSOLAL MAS VSON

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

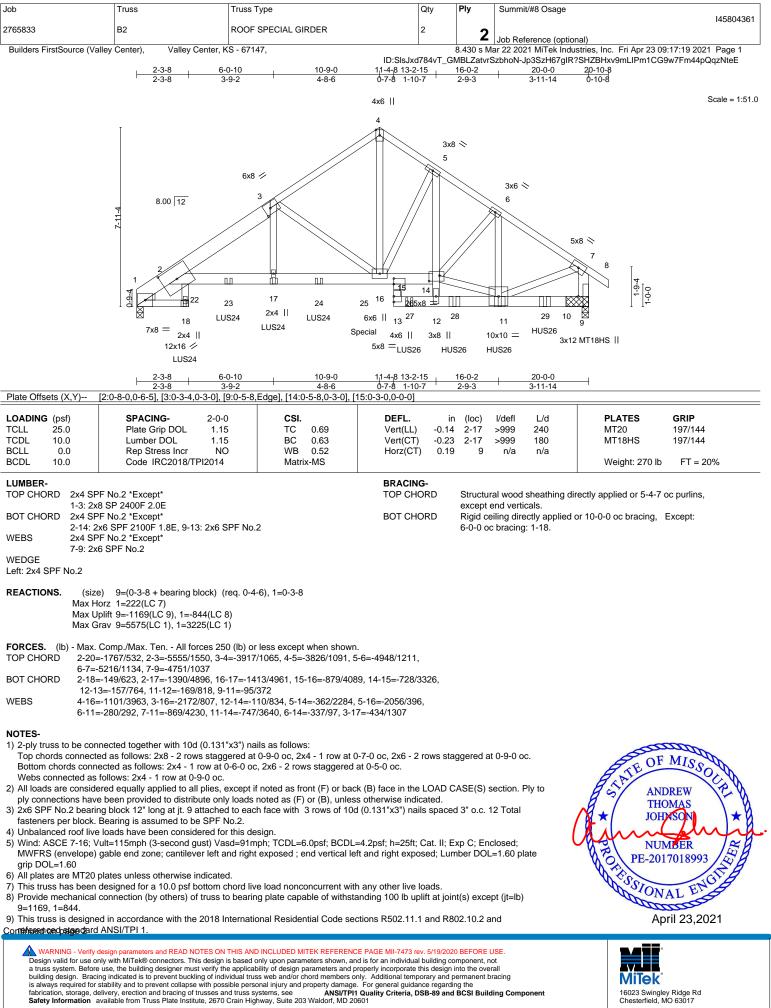






WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use,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

16023 Swingley Ridge Rd Chesterfield, MO 63017



16023 Swingley Ridge Rd Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Summit/#8 Osage
			_		I45804361
2765833	B2	ROOF SPECIAL GIRDER	2	2	Job Reference (optional)
					Job Reference (optional)
Builders FirstSource (Valley Center), Valley Center, KS - 67147,				8.430 s Ma	ar 22 2021 MiTek Industries, Inc. Fri Apr 23 09:17:20 2021 Page 2

ID:SIsJxd784vT_GMBLZatvrSzbhoN-n0dqAd6IRcZs3R7OqeQOJYraWRYVuNNO?kqMyGzNteD

NOTES-

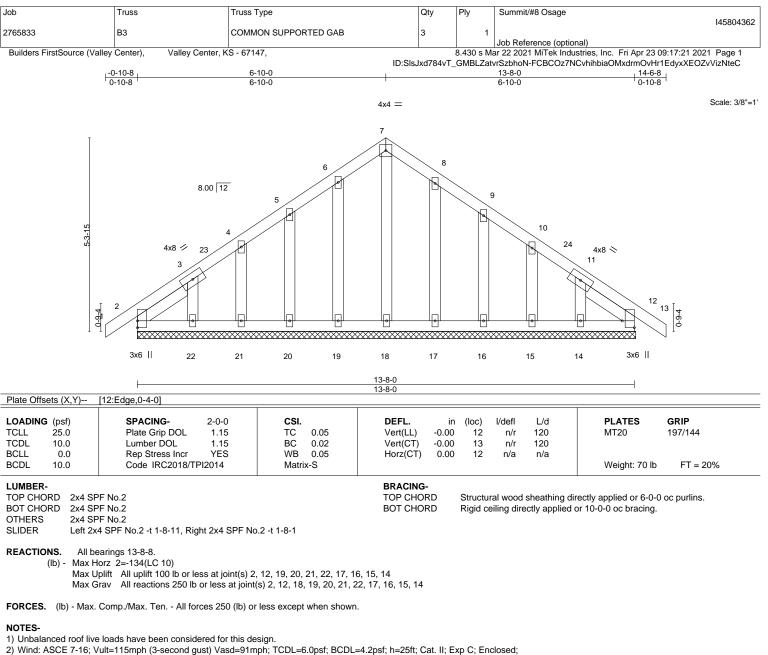
- 10) Use Simpson Strong-Tie LUS24 (4-10d Girder, 2-10d Truss, Single Ply Girder) or equivalent spaced at 2-0-0 oc max. starting at 2-1-12 from the left end to 8-0-12 to connect truss(es) to back face of bottom chord.
- 11) Use Simpson Strong-Tie LUS26 (4-10d Girder, 3-10d Truss, Single Ply Girder) or equivalent at 12-0-12 from the left end to connect truss(es) to back face of bottom chord.
- 12) Use Simpson Strong-Tie HUS26 (14-10d Girder, 6-10d Truss, Single Ply Girder) or equivalent spaced at 2-0-0 oc max. starting at 14-0-12 from the left end to 18-0-12 to connect truss(es) to back face of bottom chord.
- Fill all nail holes where hanger is in contact with lumber.
- 14) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 335 lb down and 286 lb up at 10-0-12 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=-70, 2-4=-70, 4-7=-70, 7-8=-70, 18-19=-20, 2-15=-20, 9-13=-20 Concentrated Loads (lb)

Vert: 18=-311(B) 11=-1545(B) 17=-456(B) 23=-447(B) 24=-343(B) 25=-335(B) 26=-387(B) 28=-1554(B) 29=-1554(B)





- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3E) -0-10-8 to 2-1-8, Exterior(2N) 2-1-8 to 6-10-0, Corner(3R) 6-10-0 to 9-10-0, Exterior(2N) 9-10-0 to 14-6-8 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
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) All plates are 2x4 MT20 unless otherwise indicated.
- 5) Gable requires continuous bottom chord bearing.
- 6) Gable studs spaced at 1-4-0 oc.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 12, 19, 20, 21, 22, 17, 16, 15, 14.
- 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.





	Job	Truss	Trus	ss Type			Qty	Ply	Summit/#8 Osage
									145804363
	2765833	B4	GAI	BLE			1	1	
									Job Reference (optional)
Builders FirstSource (Valley Center), Valley Center, KS - 67147,						8.430 s Ma	ar 22 2021 MiTek Industries, Inc. Fri Apr 23 09:17:22 2021 Page 1		
				ID			Jxd784vT	_GMBLZa	tvrSzbhoN-jOlabl8?zDpZJIHmy3TsOzwzhFCuMGuhS2JT19zNteB
				2-2-6	6-8-14	11-	3-6	13-7-6	<u>i 1</u> 4-5-6

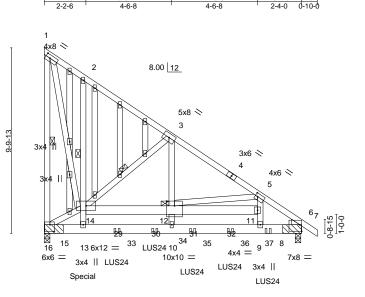


Plate Offsets (X,Y)	[1:0-2-14,0-2-0], [5:0-1-8,0-2-0], [2-2-6 4-6-8 6:Edge.0-4-2]. [12:0-5-0.0-3-0].	4-6-8 2-3-8 0-0-8 [16:0-2-12.0-4-4]	
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d	PLATES GRIP
TCLL 25.0	Plate Grip DOL 1.15	TC 0.45	Vert(LL) -0.06 11-12 >999 240	MT20 197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.76	Vert(CT) -0.11 11-12 >999 180	
BCLL 0.0	Rep Stress Incr NO	WB 0.58	Horz(CT) -0.03 16 n/a n/a	
BCDL 10.0	Code IRC2018/TPI2014	Matrix-MS		Weight: 135 lb FT = 20%

LUMBER-		BRACING-	
TOP CHORD	2x4 SPF No.2	TOP CHORD	Structural wood sheathing directly applied or 3-3-9 oc purlins,
BOT CHORD	2x6 SPF No.2 *Except*		except end verticals.
	2-13,5-9: 2x4 SPF No.2	BOT CHORD	Rigid ceiling directly applied or 8-9-12 oc bracing. Except:
WEBS	2x4 SPF No.2		6-0-0 oc bracing: 13-14, 2-14
OTHERS	2x4 SPF No.2	WEBS	1 Row at midpt 1-16, 3-14
WEDGE		JOINTS	1 Brace at Jt(s): 12
Right: 2x4 SPF	- No.2		

REACTIONS. (size) 16=(0-3-8 + bearing block) (req. 0-3-10), 6=(0-3-8 + bearing block) (req. 0-3-9) Max Horz 6=-377(LC 6)

Max Uplift 16=-774(LC 9), 6=-505(LC 9) Max Grav 16=2325(LC 1), 6=2285(LC 1)

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

TOP CHORD 1-16=-1081/421, 1-2=-390/202, 2-3=-464/230, 3-5=-2189/551, 5-6=-2869/639

BOT CHORD 2-14=-287/127, 12-14=-687/196, 5-11=-60/399, 13-16=-624/2160, 10-13=-703/2440, 9-10=-703/2440, 6-9=-674/2324

WEBS 14-16=-2436/811, 1-14=-494/1252, 3-14=-1899/629, 3-12=-488/1835, 5-12=-862/237

NOTES-

- 1) 2x6 SPF No.2 bearing block 12" long at jt. 16 attached to front face with 3 rows of 10d (0.131"x3") nails spaced 3" o.c. 12 Total fasteners. Bearing is assumed to be SPF No.2.
- 2) 2x6 SPF No.2 bearing block 12" long at jt. 6 attached to front face with 3 rows of 10d (0.131"x3") nails spaced 3" o.c. 12 Total fasteners. Bearing is assumed to be SPF No.2.
- 3) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 4) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 5) All plates are 2x4 MT20 unless otherwise indicated.
- 6) Gable studs spaced at 1-4-0 oc.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

 Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 16=774, 6=505.

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.

 Use Simpson Strong-Tie LUS24 (4-SD9112 Girder, 2-SD9212 Truss, Single Ply Girder) or equivalent at 3-10-2 from the left end to connect truss(es) to back face of bottom chord.

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Scale = 1:61.0



Job	Truss	Truss Type	Qty	Ply	Summit/#8 Osage
0705000	54				145804363
2765833	B4	GABLE	1	1	
					Job Reference (optional)
Builders FirstSource (Valley Center), Valley Center, KS - 67147,				8.430 s Ma	ar 22 2021 MiTek Industries, Inc. Fri Apr 23 09:17:23 2021 Page 2
ID:SIsJxd784vT_GMBLZatvrSzbhoN-BbJype9dkXxQwvsyWn_5wBT8QeY75j8qhi20Zbzt					tvrSzbhoN-BbJype9dkXxQwvsyWn_5wBT8QeY75j8qhi20ZbzNteA

NOTES-

13) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 537 lb down and 217 lb up at 2-0-10 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

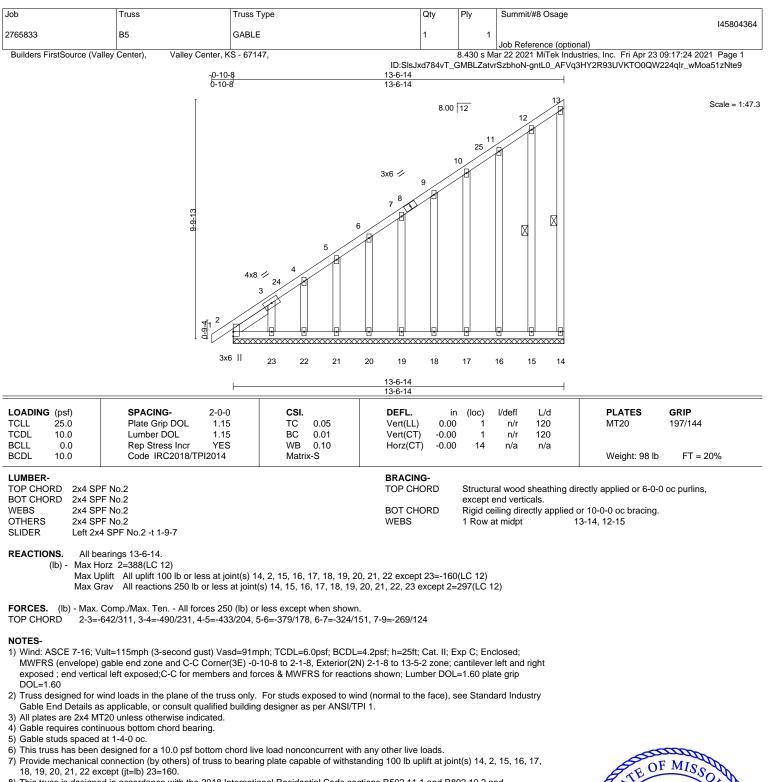
14) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

- LOAD CASE(S) Standard 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
 - Vert: 1-7=-70, 11-14=-20, 13-16=-20, 9-13=-20, 9-26=-20

Concentrated Loads (lb)

Vert: 14=-537(B) 29=-569(B) 30=-564(B) 31=-532(B) 32=-490(B) 37=-460(B)

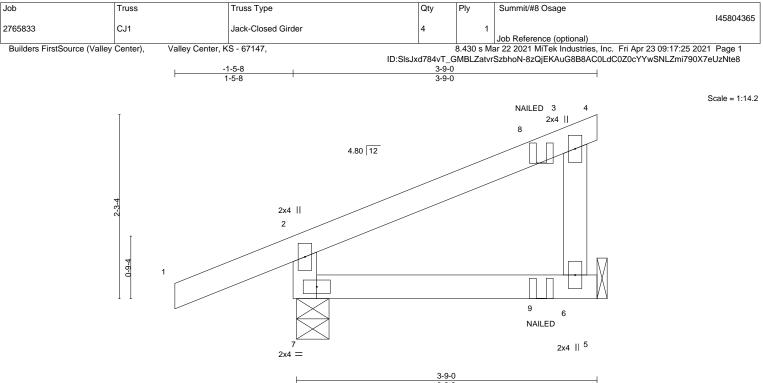




 This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



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			I	3-8-8 '
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 0.20	Vert(LL) -0.00 6-7 >999 240 MT20 197/144
TCDL	10.0	Lumber DOL 1.15	BC 0.08	Vert(CT) -0.01 6-7 >999 180
BCLL	0.0	Rep Stress Incr NO	WB 0.00	Horz(CT) -0.00 6 n/a n/a
BCDL	10.0	Code IRC2018/TPI2014	Matrix-MR	Weight: 13 lb FT = 20%

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

WEBS 2x4 SPF No.2 BRACING-TOP CHORD

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

REACTIONS. 7=0-4-13, 6=Mechanical (size) Max Horz 7=95(LC 5) Max Uplift 7=-86(LC 4), 6=-65(LC 5) Max Grav 7=291(LC 1), 6=146(LC 1)

FORCES. (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) or less except when shown. TOP CHORD 2-7=-256/99

NOTES-

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

LOAD CASE(S) Standard

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

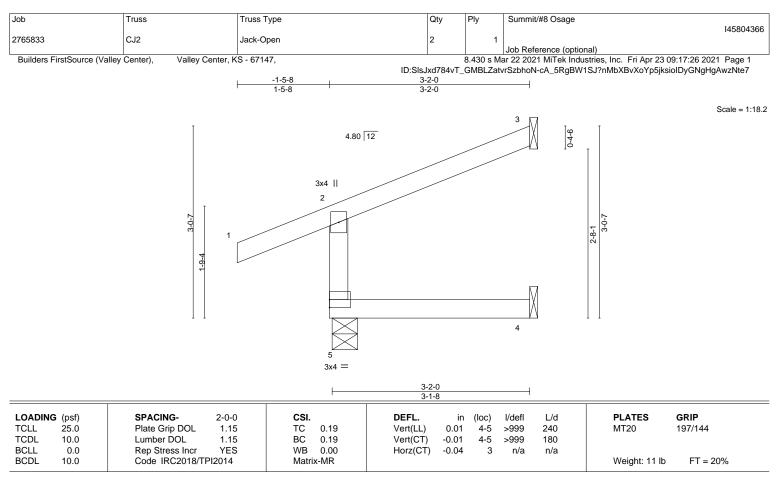
Uniform Loads (plf) Vert: 1-2=-70, 2-3=-70, 3-4=-20, 5-7=-20 Concentrated Loads (lb)

Vert: 8=-1(B) 9=-13(B)









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

BRACING-TOP CHORD BOT CHORD

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

REACTIONS. (size) 5=0-4-13, 3=Mechanical, 4=Mechanical Max Horz 5=79(LC 9) Max Uplift 5=-55(LC 8), 3=-54(LC 12), 4=-6(LC 9)

Max Grav 5=276(LC 1), 3=77(LC 1), 4=55(LC 3)

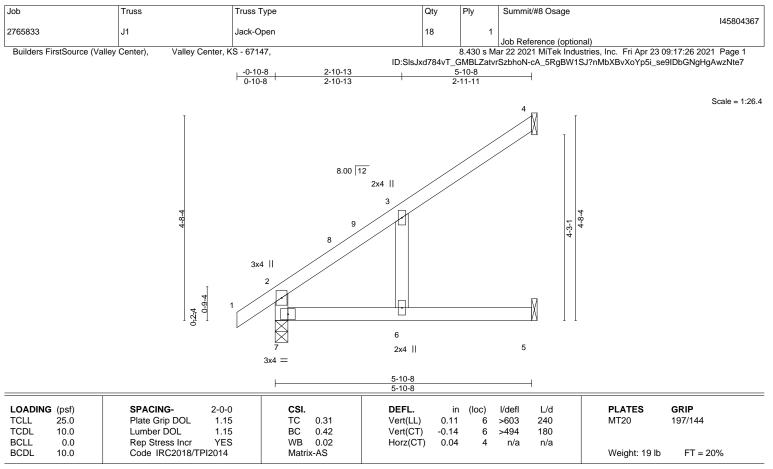
FORCES. (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) or less except when shown.

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed;
- MWFRS (envelope) gable end zone and C-C Corner(3) -1-5-8 to 2-9-7, Exterior(2R) 2-9-7 to 3-1-4 zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) Refer to girder(s) for truss to truss connections.
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 3, 4.
- 5) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.







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

BRACING-TOP CHORD BOT CHORD

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

REACTIONS. (size) 4=Mechanical, 5=Mechanical, 7=0-3-8 Max Horz 7=170(LC 12) Max Uplift 4=-91(LC 12), 5=-31(LC 12), 7=-17(LC 12) Max Grav 4=158(LC 19), 5=105(LC 19), 7=333(LC 1)

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

NOTES-

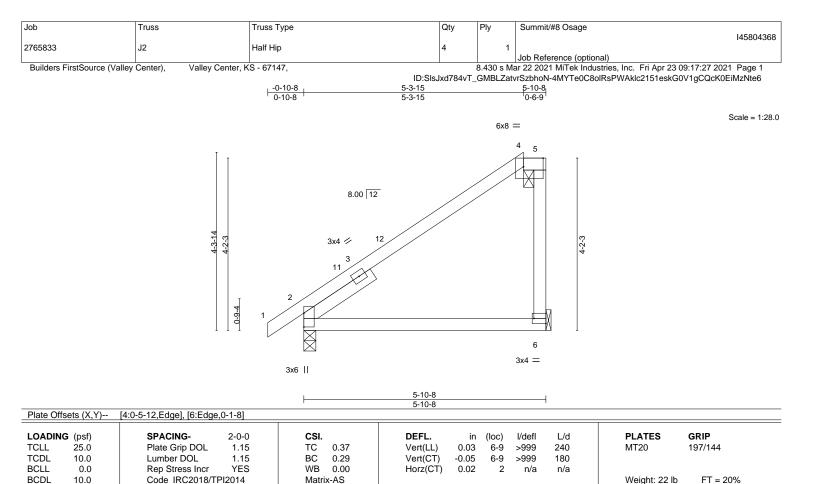
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 5-9-12 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

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

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







BRACING-

TOP CHORD

BOT CHORD

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

Rigid ceiling directly applied.

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

LUMBER-

WEBS

SLIDER

TOP CHORD

BOT CHORD

REACTIONS.

NOTES-

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

(size) 6=Mechanical, 2=0-3-8 Max Horz 2=159(LC 11)

Max Uplift 6=-78(LC 12), 2=-52(LC 12) Max Grav 6=262(LC 19), 2=324(LC 1)

- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; 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 5-3-15, Exterior(2E) 5-3-15 to 5-8-12 zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) Refer to girder(s) for truss to truss connections.

2x4 SPF No.2

2x4 SPF No.2

2x4 SPF No.2

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

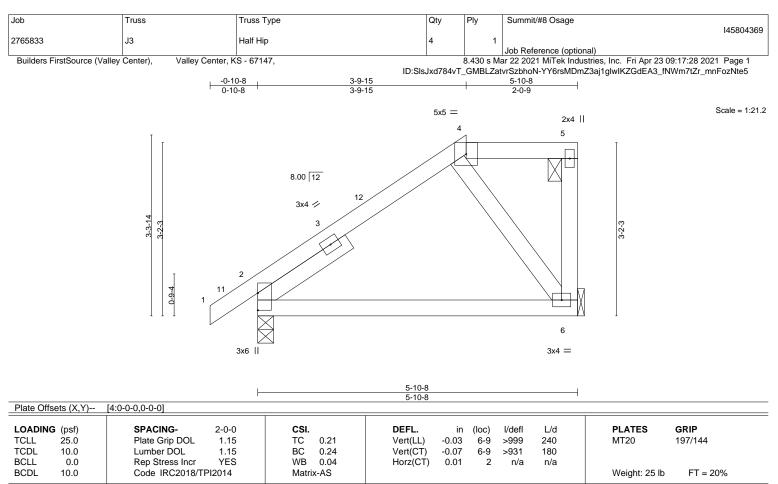
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6, 2.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



Structural wood sheathing directly applied, except end verticals, and

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BRACING-

11	IM	IRF	R-

 TOP CHORD
 2x4 SPF No.2

 BOT CHORD
 2x4 SPF No.2

 WEBS
 2x4 SPF No.2

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

TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins: 4-5. BOT CHORD Rigid ceiling directly applied.

REACTIONS. (size) 2=0-3-8, 6=Mechanical Max Horz 2=119(LC 11) Max Uplift 2=-59(LC 12), 6=-64(LC 9)

Max Grav 2=324(LC 1), 6=253(LC 1)

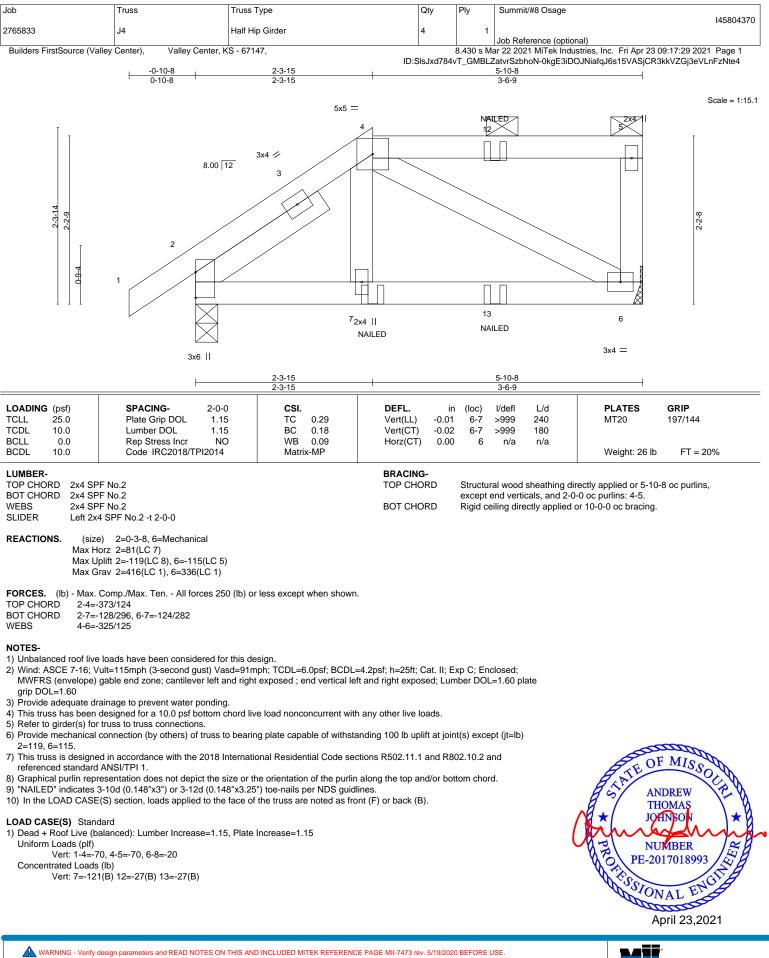
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-4=-350/72

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 3-9-15, Exterior(2E) 3-9-15 to 5-8-12 zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 6.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and
- referenced standard ANSI/TPI 1.
- 8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

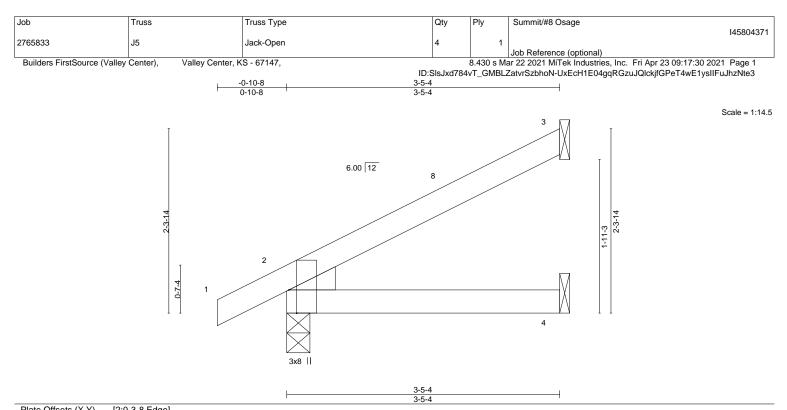






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	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.14	Vert(LL)	-0.01	4-7	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.11	Vert(CT)	-0.01	4-7	>999	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	2	n/a	n/a		
BCDL	10.0	Code IRC2018/TF	PI2014	Matri	x-MP						Weight: 10 lb	FT = 20%

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 3-5-4 oc purlins. Rigid ceiling directly applied or 10-0-0 oc bracing.

Len. 2x4 SFF N

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

Max Horz 2=84(LC 12) Max Uplift 3=-52(LC 12), 2=-34(LC 12), 4=-3(LC 12) Max Grav 3=97(LC 1), 2=221(LC 1), 4=61(LC 3)

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

NOTES-

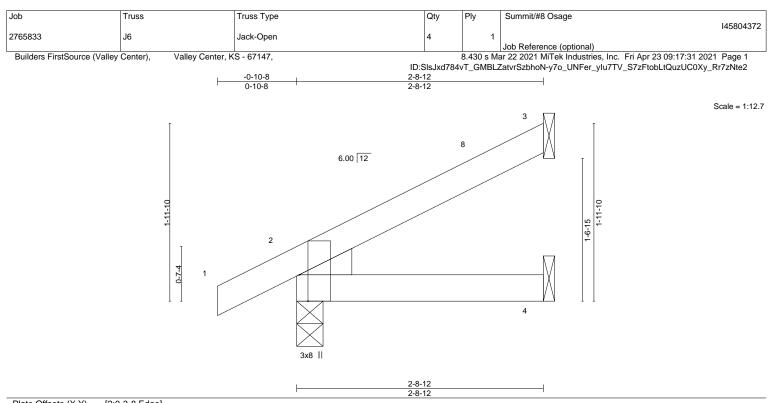
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 3-4-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

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

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







.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 0.07	Vert(LL) -0.00	7 >999	240	MT20 197/144
CDL 10.0	Lumber DOL 1.15	BC 0.07	Vert(CT) -0.01	4-7 >999	180	
BCLL 0.0	Rep Stress Incr YES	WB 0.00	Horz(CT) 0.00	3 n/a	n/a	
3CDL 10.0	Code IRC2018/TPI2014	Matrix-MP				Weight: 9 lb FT = 20%

TOP CHORD

BOT CHORD

LUMBER-

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

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

Max Horz 2=70(LC 12) Max Uplift 3=-40(LC 12), 2=-30(LC 12), 4=-4(LC 12) Max Grav 3=74(LC 1), 2=191(LC 1), 4=47(LC 3)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; 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 2-8-0 zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

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

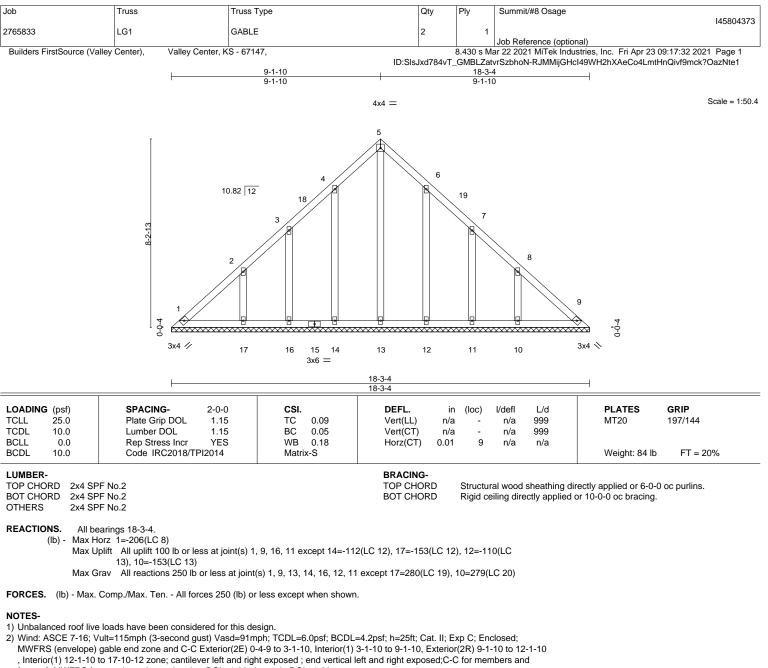
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 2, 4.
- 5) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



Structural wood sheathing directly applied or 2-8-12 oc purlins.

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





forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

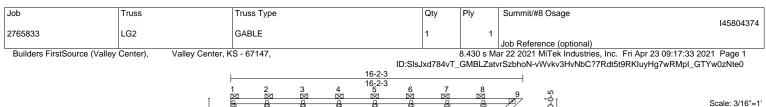
3) All plates are 2x4 MT20 unless otherwise indicated.

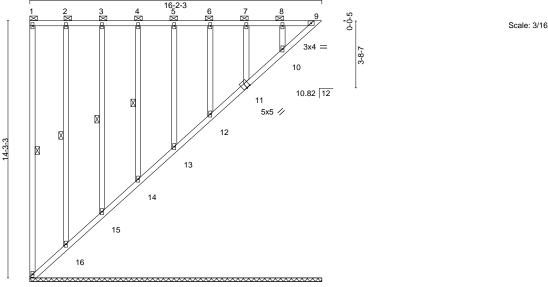
4) Gable requires continuous bottom chord bearing.

- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 9, 16, 11 except (jt=lb) 14=112, 17=153, 12=110, 10=153.
- 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.









16-2-3 47 16-2

			10-2-3			
late Offsets (X,Y)	[11:0-2-8,0-0-4]					
OADING (psf)	SPACING- 2-0-0	CSI.	DEFL.	n (loc) l/defl L/d	PLATES	GRIP
CLL 25.0	Plate Grip DOL 1.15	TC 0.05	Vert(LL) n/	a - n/a 999	MT20	197/144
CDL 10.0	Lumber DOL 1.15	BC 0.03	Vert(CT) n/	a - n/a 999		
CLL 0.0	Rep Stress Incr YES	WB 0.12	Horz(CT) 0.0	0 10 n/a n/a		
CDL 10.0	Code IRC2018/TPI2014	Matrix-S			Weight: 113 lb	FT = 20%
UMBER-			BRACING-		·	
OP CHORD 2x4 SP	PF No.2		TOP CHORD	2-0-0 oc purlins (6-0-0 max.):	1-9, except end vertic	als.
OT CHORD 2x4 SP	PF No.2		BOT CHORD	Rigid ceiling directly applied	or 6-0-0 oc bracing.	
/EBS 2x4 SP	PF No.2		WEBS	1 Row at midpt 1	-17, 2-16, 3-15, 4-14	

REACTIONS. All bearings 16-2-3.

2x4 SPF No.2

Max Uplift All uplift 100 lb or less at joint(s) 17, 9, 11, 16, 15, 14, 13, 12, 10 (lb) -

Max Grav All reactions 250 lb or less at joint(s) 17, 9, 11, 16, 15, 14, 13, 12, 10

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

NOTES-

OTHERS

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) zone; cantilever left and right exposed ; end vertical right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

2) Provide adequate drainage to prevent water ponding.

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) Bearing at joint(s) 17, 9, 11, 16, 15, 14, 13, 12, 10 considers parallel to grain value using ANSI/TPI 1 angle to grain formula.

Building designer should verify capacity of bearing surface.

7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 17, 9, 11, 16, 15, 14. 13. 12. 10.

8) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 9, 11, 16, 15, 14, 13, 12, 10.

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

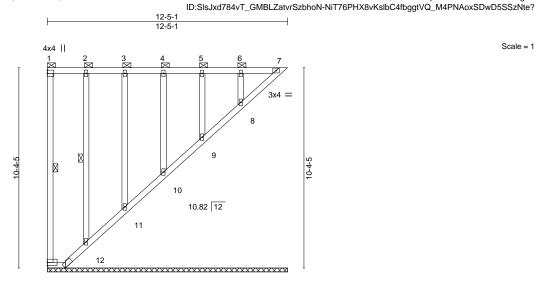
10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



MiTek 16023 Swingley Ridge Rd Chesterfield, MO 63017

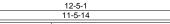
Job	Truss	Truss Type	Qty	Ply	Summit/#8 Osage
2765833	LG3	GABLE	2	1	145804375
					Job Reference (optional)
Builders FirstSource (Valley	Center), Valley Center, K	S - 67147,		8.430 s M	ar 22 2021 MiTek Industries, Inc. Fri Apr 23 09:17:34 2021 Page 1

Builders FirstSource (Valley Center), Valley Center, KS - 67147,



 $^{14}_{4x6} \stackrel{13}{=} ^{3x6} /$

0-11-2



TOP CHORD

BOT CHORD

WEBS

2-0-0 oc purlins (6-0-0 max.): 1-7, except end verticals.

1-14, 2-12

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

1 Row at midpt

LOADING (psf) TCLL 25.0 TCDL 10.0 BCLL 0.0	SPACING-2-0-0Plate Grip DOL1.15Lumber DOL1.15Rep Stress IncrYES	CSI. TC 0.60 BC 0.27 WB 0.13	DEFL. in (loc) l/defl L/d Vert(LL) n/a - n/a 999 Vert(CT) n/a - n/a 999 Horz(CT) 0.01 7 n/a n/a	PLATES GRIP MT20 197/144
BCDL 10.0	Code IRC2018/TPI2014	Matrix-S		Weight: 73 lb $FT = 20\%$

LUMBER-

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

REACTIONS. All bearings 12-5-1.

Max Horz 14=-286(LC 10) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 13, 11, 10, 9, 8 except 14=-134(LC 10), 7=-113(LC 9), 12=-113(LC

Max Grav All reactions 250 lb or less at joint(s) 14, 7, 13, 12, 11, 10, 9, 8

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

BOT CHORD 11-12=-259/246, 10-11=-257/243, 9-10=-258/243, 8-9=-258/244, 7-8=-256/238

NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; 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) Provide adequate drainage to prevent water ponding.
- 3) All plates are 2x4 MT20 unless otherwise indicated.

4) Gable requires continuous bottom chord bearing.

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

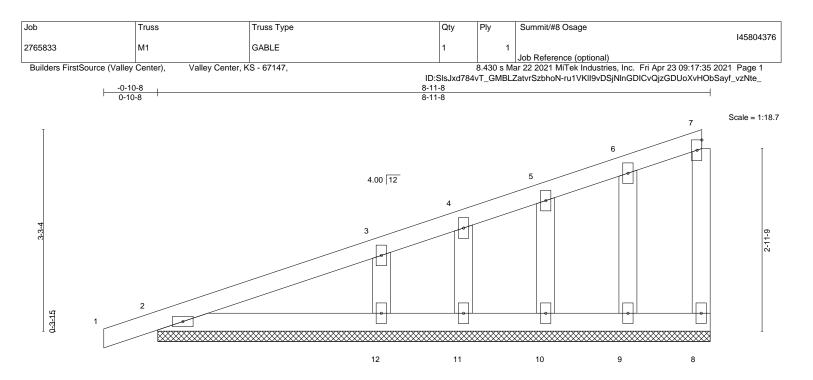
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 13, 11, 10, 9, 8 except (it=lb) 14=134, 7=113, 12=113,

- 7) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 7, 12, 11, 10, 9, 8.
- 8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



Scale = 1:59.6





	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 0.15	Vert(LL) -0.00	1 n/r	120	MT20	197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.09	Vert(CT) 0.00	1 n/r	120		
BCLL 0.0	Rep Stress Incr YES	WB 0.05	Horz(CT) 0.00	8 n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014	Matrix-P				Weight: 33 lb	FT = 20%
	F No.2	BRACING- TOP CHORD		ectly applied or 6-0-0	oc purlins,		
BOT CHORD2x4 SFWEBS2x4 SFOTHERS2x4 SF	BOT CHORD	except end verticals. 3OT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.					

REACTIONS. All bearings 8-11-8.

(lb) - Max Horz 2=137(LC 9)

Max Uplift All uplift 100 lb or less at joint(s) 8, 2, 9, 10, 11, 12

Max Grav All reactions 250 lb or less at joint(s) 8, 2, 9, 10, 11 except 12=328(LC 1)

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

```
TOP CHORD 2-3=-257/126
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WEBS 3-12=-249/294

NOTES-

 Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3E) -0-10-8 to 2-1-8, Exterior(2N) 2-1-8 to 8-9-5 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) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.

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

4) Gable requires continuous bottom chord bearing.

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

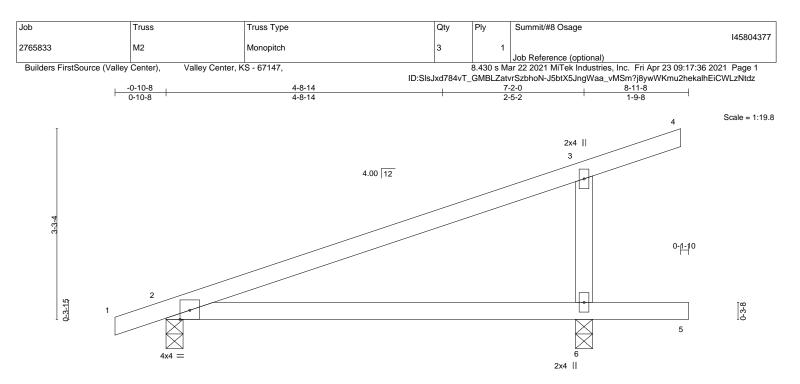
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 8, 2, 9, 10, 11, 12.
 This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



April 23,2021

16023 Swingley Ridge Rd Chesterfield, MO 63017



		7-2-0 7-2-0		7-3-12 0-1-12	8-11-8 1-7-12	
LOADING (psf) TCLL 25.0 TCDL 10.0 BCLL 0.0 BCDL 10.0	SPACING-2-0-0Plate Grip DOL1.15Lumber DOL1.15Rep Stress IncrYESCode IRC2018/TPI2014	CSI.DEFL.TC0.61Vert(LL)BC0.48Vert(CT)WB0.06Horz(CT)Matrix-ASVertice (CT)	in (loc) l/defl -0.12 6-9 >733 -0.24 6-9 >360 0.00 2 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 24 lb	GRIP 197/144 FT = 20%

BRACING-

TOP CHORD

BOT CHORD

Structural wood sheathing directly applied.

Rigid ceiling directly applied.

LUMBER-

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

REACTIONS. (size) 2=0-3-8, 6=0-3-8 Max Horz 2=133(LC 8) Max Uplift 2=-86(LC 8), 6=-121(LC 12) Max Grav 2=370(LC 1), 6=488(LC 1)

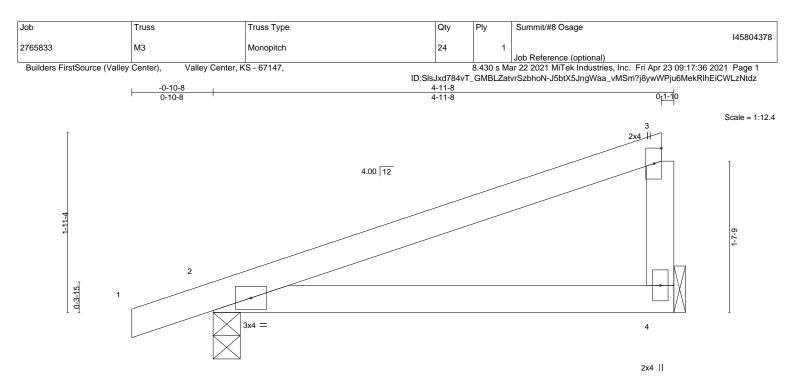
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. WEBS 3-6=-356/306

NOTES-

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; 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 8-9-14 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
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2 except (jt=lb) 6=121.
- 4) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 5) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.







			4-11-0								
LOADING (psf) TCLL 25.0 TCDL 10.0 BCLL 0.0	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr	2-0-0 1.15 1.15 YES	CSI. TC 0.29 BC 0.24 WB 0.00	()	in -0.03 -0.06 0.00	(loc) 4-7 4-7 2	l/defl >999 >988 n/a	L/d 240 180 n/a	PLATES MT20	GRIP 197/144	
BCDL 10.0	Code IRC2018/T		Matrix-AS		0100	-	n/u	n, a	Weight: 14 lb	FT = 20%	

BRACING-

1-11-9

LUMBER-

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

WEBS 2x4 SPF No.2

REACTIONS. 4=Mechanical, 2=0-3-8 (size) Max Horz 2=79(LC 11) Max Uplift 4=-53(LC 12), 2=-85(LC 8) Max Grav 4=211(LC 1), 2=283(LC 1)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; 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 4-9-12 zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) Refer to girder(s) for truss to truss connections.
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 2.
- 5) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 6) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

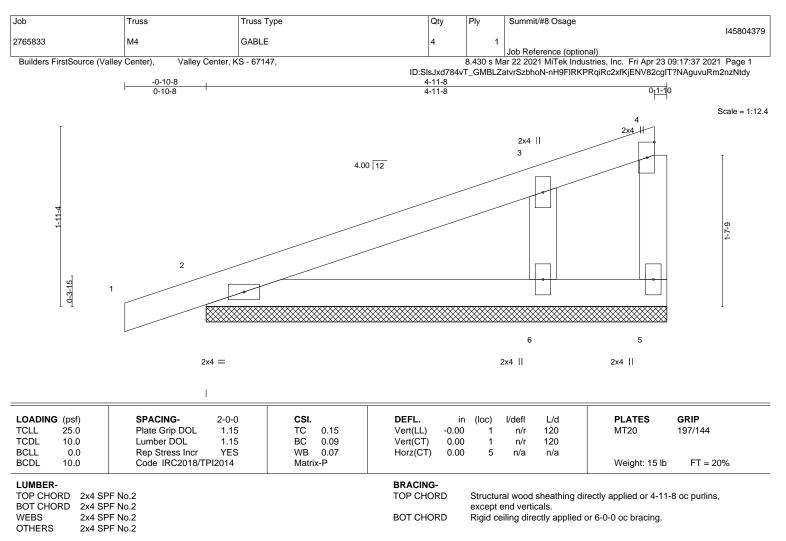


WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use,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



TOP CHORD BOT CHORD Rigid ceiling directly applied.

Structural wood sheathing directly applied, except end verticals.



REACTIONS. (size) 5=4-11-8, 2=4-11-8, 6=4-11-8 Max Horz 2=78(LC 9)

Max Uplift 5=-37(LC 1), 2=-64(LC 8), 6=-89(LC 12)

Max Grav 5=15(LC 12), 2=203(LC 1), 6=326(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. WEBS 3-6=-249/372

NOTES-

 Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3E) -0-10-8 to 2-1-8, Exterior(2N) 2-1-8 to 4-9-5 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) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.

3) Gable requires continuous bottom chord bearing.

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

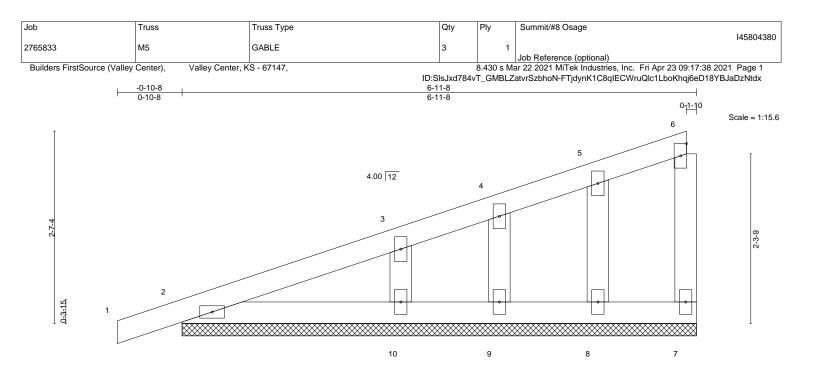
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

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

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







		t		-		1					Т	
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	0.09	Vert(LL)	-0.00	1	n/r	120	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.06	Vert(CT)	0.00	1	n/r	120		
BCLL	0.0	Rep Stress Incr	YES	WB	0.05	Horz(CT)	0.00	7	n/a	n/a		
BCDL	10.0	Code IRC2018/T	PI2014	Matri	x-P						Weight: 24 lb	FT = 20%
LUMBER-		I				BRACING-					L	
TOP CHOR BOT CHOR		PF No.2 PF No.2				TOP CHOP	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.					oc purlins,
BOT CHORD 2x4 SPF No.2 WEBS 2x4 SPF No.2 OTHERS 2x4 SPF No.2			BOT CHOP					l or 10-0-0 oc bracing.				

REACTIONS. All bearings 6-11-8.

(lb) - Max Horz 2=108(LC 9)

Max Uplift All uplift 100 lb or less at joint(s) 7, 2, 8, 9, 10

Max Grav All reactions 250 lb or less at joint(s) 7, 2, 8, 9 except 10=252(LC 1)

- FORCES. (lb) Max. Comp./Max. Ten. All forces 250 (lb) or less except when shown.
- WEBS 3-10=-191/258

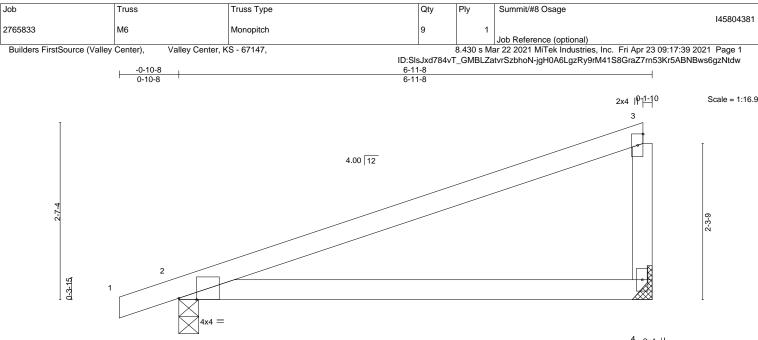
NOTES-

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3E) -0-10-8 to 2-1-8, Exterior(2N) 2-1-8 to 6-9-5 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) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 3) All plates are 2x4 MT20 unless otherwise indicated.
- 4) Gable requires continuous bottom chord bearing.
- 5) Gable studs spaced at 1-4-0 oc.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 7, 2, 8, 9, 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.







4 2x4 ||

Plate Offsets (X,Y)	[2:0-3-2,Edge]		6-11-8 6-11-8	
LOADING (psf) FCLL 25.0 FCDL 10.0 BCLL 0.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES	CSI. TC 0.62 BC 0.48 WB 0.00	DEFL. in (loc) //defl L/d Vert(LL) 0.12 4-7 >663 240 Vert(CT) -0.23 4-7 >361 180 Horz(CT) 0.00 2 n/a n/a	PLATES GRIP MT20 197/144
BCDL 10.0	Code IRC2018/TPI2014	Matrix-AS		Weight: 20 lb FT = 20%
LUMBER- TOP CHORD 2x4 S	PF No.2		BRACING- TOP CHORD Structural wood sheathing directly a	applied, except end verticals.

BOT CHORD

Rigid ceiling directly applied.

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

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

Max Horz 2=108(LC 11) Max Uplift 4=-76(LC 12), 2=-102(LC 8) Max Grav 4=303(LC 1), 2=372(LC 1)

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

NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 6-9-12 zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

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

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

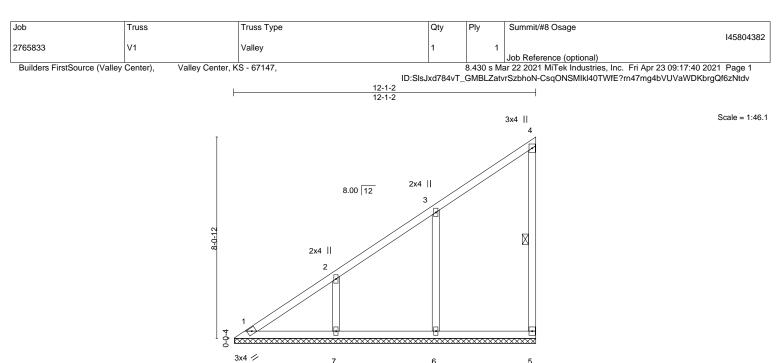
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4 except (jt=lb) 2=102.

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

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









3x4 ||

LOADING TCLL TCDL BCLL BCDL	(psf) 25.0 10.0 0.0 10.0	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr Code IRC2018/TP	2-0-0 1.15 1.15 YES I2014	CSI. TC BC WB Matrix	0.36 0.16 0.14 x-S	DEFL. Vert(LL) Vert(CT) Horz(CT)	in n/a n/a -0.00	(loc) - - 5	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20 Weight: 46 lb	GRIP 197/144 FT = 20%
LUMBER- TOP CHOR BOT CHOR WEBS OTHERS	RD 2x4 SF 2x4 SF	PF No.2 PF No.2 PF No.2 PF No.2 PF No.2				BRACING- TOP CHOF BOT CHOF WEBS	RD	except Rigid c	end verti	icals. ectly applied	lirectly applied or 6-0-0 or 10-0-0 oc bracing. 4-5) oc purlins,

2x4 ||

REACTIONS. All bearings 12-0-12.

(lb) - Max Horz 1=304(LC 9)

Max Uplift All uplift 100 lb or less at joint(s) 1, 5 except 6=-164(LC 12), 7=-161(LC 12) Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 6=396(LC 19), 7=392(LC 19)

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

TOP CHORD 1-2=-448/348, 2-3=-317/265

WEBS 3-6=-321/232, 2-7=-298/207

NOTES-

 Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-5-12 to 3-5-12, Interior(1) 3-5-12 to 11-11-6 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

2) Gable requires continuous bottom chord bearing.

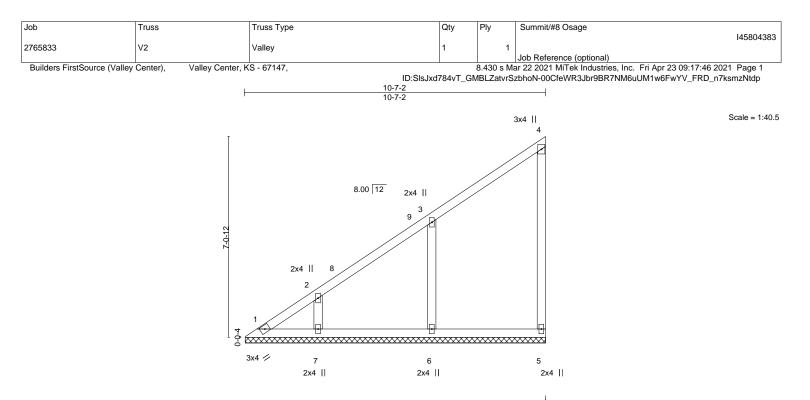
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 5 except (jt=lb) 6=164, 7=161.

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







LOADING (psf) TCLL 25.0 TCDL 10.0 BCLL 0.0	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr	2-0-0 1.15 1.15 YES	CSI. TC BC WB	0.29 0.13 0.09	DEFL. Vert(LL) Vert(CT) Horz(CT)	in n/a n/a -0.00	(loc) - - 5	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20	GRIP 197/144
BCDL 10.0	Code IRC2018/TPI2	-	Matri			0.00	Ū	170		Weight: 39 lb	FT = 20%
LUMBER-							Structu	rolwood	abaathing d	irectly applied or 6-0-0	oo nurlino

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

TOP CHORE

BOT CHORD

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

REACTIONS. All bearings 10-6-12.

Max Horz 1=265(LC 9) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 1, 5 except 6=-122(LC 12), 7=-137(LC 12) Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 6=412(LC 19), 7=315(LC 19)

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

1-2=-404/272, 2-3=-319/228 TOP CHORD

WEBS 3-6=-330/240

NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-5-12 to 3-5-12, Interior(1) 3-5-12 to 10-5-6 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

2) Gable requires continuous bottom chord bearing.

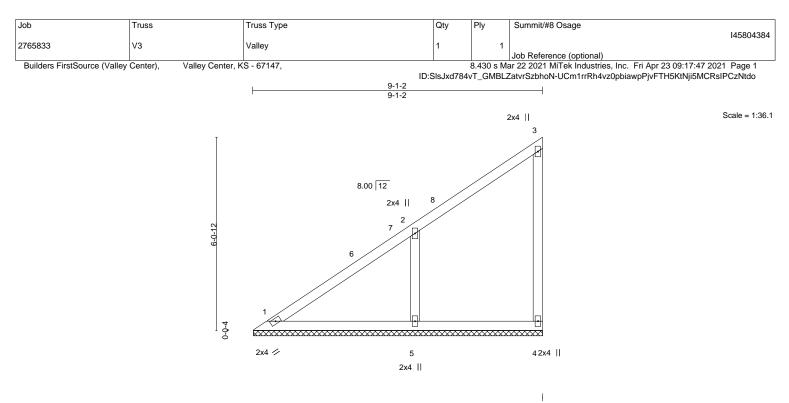
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 5 except (jt=lb) 6=122, 7=137.

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







LOADING (psf) TCLL 25.0 TCDL 10.0 BCLL 0.0 BCDL 10.0	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr Code IRC2018/TF	2-0-0 1.15 1.15 YES Pl2014	CSI. TC BC WB Matri:	0.28 0.15 0.07 x-S	DEFL. Vert(LL) Vert(CT) Horz(CT)	in n/a n/a -0.00	(loc) - - 4	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20 Weight: 32 lb	GRIP 197/144 FT = 20%
LUMBER- TOP CHORD 2x4 SF	PF No.2				BRACING- TOP CHOR		Structu	ral wood	sheathing di	rectly applied or 6-0-0	oc purlins,

BOT CHORD

except end verticals.

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

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

REACTIONS. (size) 1=9-0-12, 4=9-0-12, 5=9-0-12 Max Horz 1=225(LC 9)

Max Uplift 1=-6(LC 8), 4=-50(LC 9), 5=-179(LC 12)

Max Grav 1=192(LC 20), 4=143(LC 19), 5=489(LC 19)

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

TOP CHORD 1-2=-333/236 WEBS 2-5=-377/276

NOTES-

 Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-5-12 to 3-5-12, Interior(1) 3-5-12 to 8-11-6 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

2) Gable requires continuous bottom chord bearing.

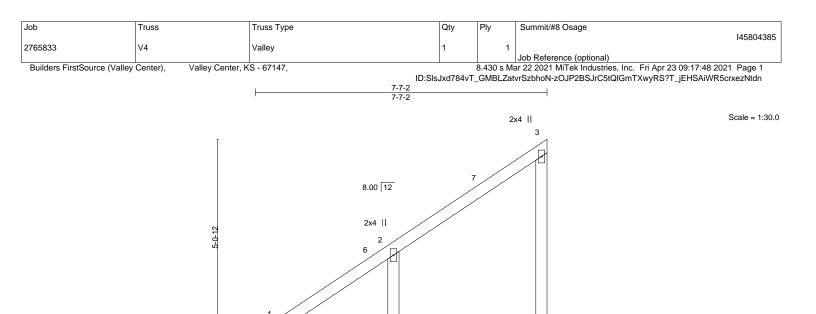
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 4 except (jt=lb) 5=179.

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







DEFL.

Vert(LL)

Vert(CT)

Horz(CT)

BRACING-

TOP CHORD

BOT CHORD

2x4 ||

ł

L/d

999

999

n/a

PLATES

Weight: 26 lb

MT20

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

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

GRIP

197/144

FT = 20%

l/defl

n/a

n/a

n/a

except end verticals.

4

in (loc)

n/a

n/a

-0.00

5 2x4 ||

LUMBER-

TCLL

TCDL

BCLL

BCDL

LOADING (psf)

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

25.0

10.0

0.0

10.0

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

REACTIONS. (size) 1=7-6-12, 4=7-6-12, 5=7-6-12 Max Horz 1=185(LC 9)

SPACING-

Plate Grip DOL

Rep Stress Incr

Code IRC2018/TPI2014

Lumber DOL

Max Uplift 1=-16(LC 8), 4=-46(LC 9), 5=-162(LC 12)

Max Grav 1=128(LC 20), 4=154(LC 19), 5=410(LC 19)

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

0-0-4

2-0-0

1.15

1.15

YES

2x4 💋

CSI.

тс

BC

WB

Matrix-P

0.21

0.10

0.05

TOP CHORD 1-2=-313/2162-5=-322/259

WEBS

NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-5-12 to 3-7-2, Interior(1) 3-7-2 to 7-5-6 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

2) Gable requires continuous bottom chord bearing.

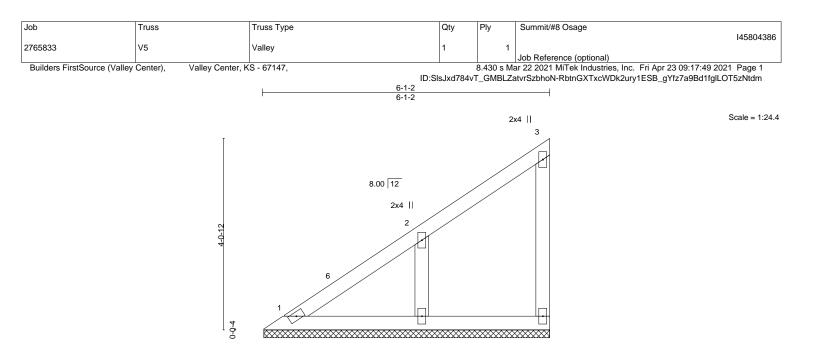
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 4 except (jt=lb) 5 = 162

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









5

TOP CHORD

BOT CHORD

2x4 ||

4 2x4 ||

except end verticals.

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

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

LUMBER-

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

REACTIONS. (size) 1=6-0-12, 4=6-0-12, 5=6-0-12 Max Horz 1=145(LC 9)

Max Uplift 1=-6(LC 8), 4=-32(LC 9), 5=-131(LC 12)

Max Grav 1=120(LC 20), 4=95(LC 19), 5=320(LC 19)

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

TOP CHORD 1-2=-255/175

WEBS 2-5=-251/230

NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-5-12 to 3-4-10, Interior(1) 3-4-10 to 5-11-6 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

2x4 ⁄

2) Gable requires continuous bottom chord bearing.

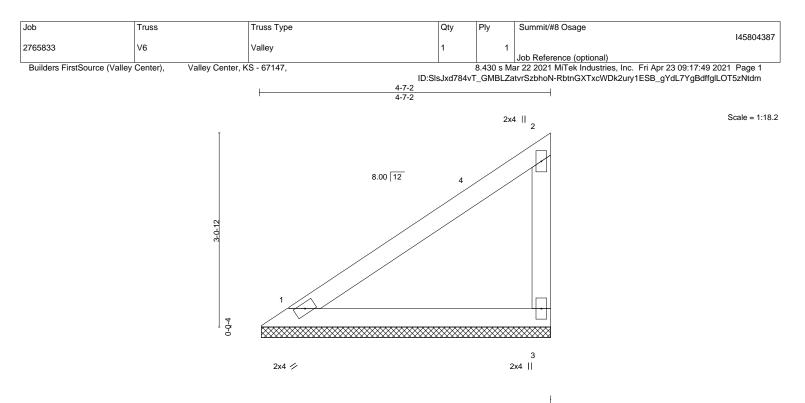
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 4 except (jt=lb) 5=131

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







LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES GRIP
TCLL 25.0	Plate Grip DOL 1.15	TC 0.30	Vert(LL)	n/a -	n/a	999	MT20 197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.16	Vert(CT)	n/a -	n/a	999	
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-P	· · · ·				Weight: 14 lb FT = 20%

TOP CHORD

BOT CHORD

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

WEBS 2x4 SPF No.2

REACTIONS. (size) 1=4-6-12, 3=4-6-12 Max Horz 1=105(LC 9) Max Uplift 1=-22(LC 12) 3=-59

Max Uplift 1=-22(LC 12), 3=-59(LC 12) Max Grav 1=179(LC 1), 3=192(LC 19)

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

NOTES-

 Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-5-12 to 3-5-12, Interior(1) 3-5-12 to 4-5-6 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

2) Gable requires continuous bottom chord bearing.

- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.
- 5) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

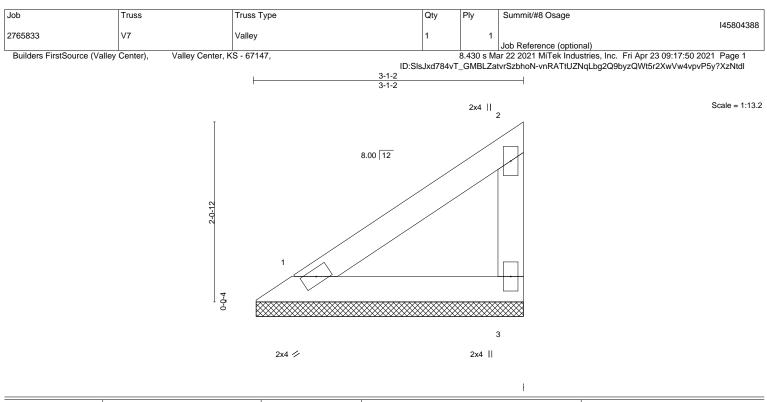


Structural wood sheathing directly applied or 4-7-2 oc purlins,

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

except end verticals.





LOADING (psf) TCLL 25.0 TCDL 10.0 BCLL 0.0	SPACING-2-0-0Plate Grip DOL1.15Lumber DOL1.15Rep Stress IncrYES	CSI. TC 0.11 BC 0.06 WB 0.00	DEFL. Vert(LL) Vert(CT) Horz(CT)	in n/a n/a 0.00	(loc) - - 3	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20	GRIP 197/144
BCDL 10.0	Code IRC2018/TPI2014	Matrix-P						Weight: 9 lb	FT = 20%

TOP CHORD

BOT CHORD

LUMBER-

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

REACTIONS. 1=3-0-12, 3=3-0-12 (size) Max Horz 1=66(LC 9) Max Uplift 1=-14(LC 12), 3=-37(LC 12)

Max Grav 1=111(LC 1), 3=119(LC 19)

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

NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

2) Gable requires continuous bottom chord bearing.

- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.
- 5) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

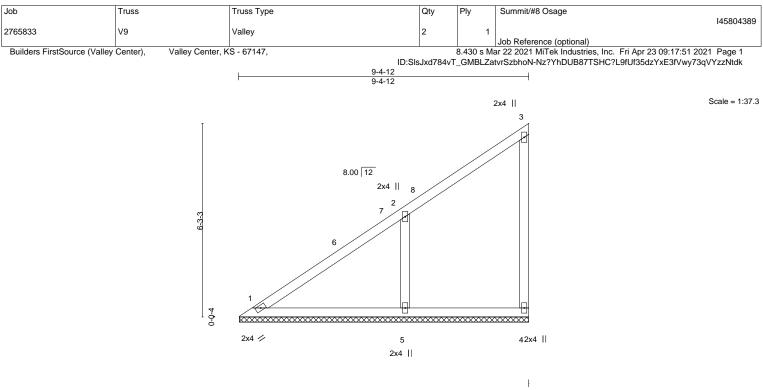
OF MISSO ATE ANDREW THOMAS JOHNSO NUMBER ro, PE-2017018993 HESSIONAL E April 23,2021

Structural wood sheathing directly applied or 3-1-2 oc purlins,

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

except end verticals.





LOADING (psf) TCLL 25.0	SPACING- 2-0-0 Plate Grip DOL 1.15	CSI. TC 0.31	DEFL. Vert(LL)	in n/a	(loc)	l/defl n/a	L/d 999	PLATES MT20	GRIP 197/144
TCDL 10.0 BCLL 0.0	Lumber DOL 1.15 Rep Stress Incr YES	BC 0.16 WB 0.08	Vert(CT) Horz(CT)	n/a -0.00	- 4	n/a n/a	999 n/a	WIZO	137/144
BCDL 10.0	Code IRC2018/TPI2014	Matrix-S						Weight: 33 lb	FT = 20%
LUMBER- TOP CHORD 2x4 SP	F No.2		BRACING- TOP CHOR		Structu	ral wood	sheathing di	irectly applied or 6-0-0	oc purlins.

BOT CHORD

except end verticals.

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

 TOP CHORD
 2x4 SPF No.2

 BOT CHORD
 2x4 SPF No.2

 WEBS
 2x4 SPF No.2

 OTHERS
 2x4 SPF No.2

REACTIONS. (size) 1=9-4-6, 4=9-4-6, 5=9-4-6

Max Horz 1=233(LC 9) Max Uplift 1=-4(LC 8), 4=-50(LC 9), 5=-183(LC 12)

Max Grav 1=203(LC 20), 4=138(LC 19), 5=511(LC 19)

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

TOP CHORD 1-2=-339/242

WEBS 2-5=-393/281

NOTES-

 Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-5-12 to 3-5-12, Interior(1) 3-5-12 to 9-3-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

2) Gable requires continuous bottom chord bearing.

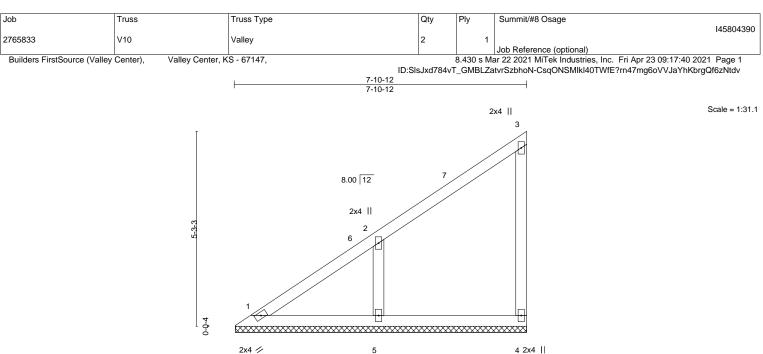
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 4 except (jt=lb) 5=183.

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







2x4 ||

LOADING (psf) TCLL 25.0 TCDL 10.0 BCLL 0.0 BCDL 10.0	Plate Grip DOL Lumber DOL	-	0.22 0.11 0.05	DEFL. Vert(LL) Vert(CT) Horz(CT)	in n/a n/a -0.00	(loc) - - 4	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20 Weight: 27 lb	GRIP 197/144 FT = 20%
BOT CHORD 2x4 SI	PF No.2 PF No.2 PF No.2			BRACING- TOP CHOR BOT CHOR	D	except	end verti	cals.	rectly applied or 6-0-0 or 10-0-0 oc bracing.	oc purlins,

OTHERS 2x4 SPF No.2

REACTIONS. (size) 1=7-10-6, 4=7-10-6, 5=7-10-6 Max Horz 1=193(LC 9)

Max Uplift 1=-14(LC 8), 4=-46(LC 9), 5=-165(LC 12)

Max Grav 1=142(LC 20), 4=152(LC 19), 5=425(LC 19)

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

TOP CHORD 1-2=-318/221

WEBS 2-5=-334/262

NOTES-

 Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-5-12 to 3-5-12, Interior(1) 3-5-12 to 7-9-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

2) Gable requires continuous bottom chord bearing.

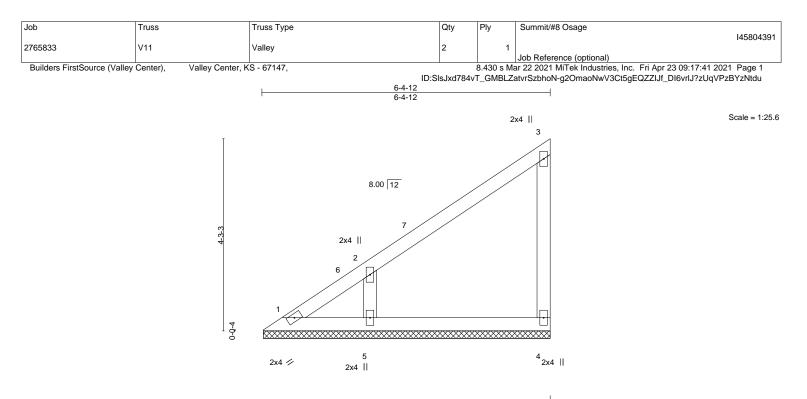
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 4 except (jt=lb) 5=165.

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







LOADING (psf) TCLL 25.0 TCDL 10.0 BCLL 0.0 BCDL 10.0	SPACING-2-0-0Plate Grip DOL1.15Lumber DOL1.15Rep Stress IncrYESCode IRC2018/TPI2014	CSI. TC 0.18 BC 0.10 WB 0.05 Matrix-P	DEFL. Vert(LL) Vert(CT) Horz(CT)	in n/a n/a 0.00	(loc) - - 4	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20 Weight: 21 lb	GRIP 197/144 FT = 20%
LUMBER- TOP CHORD 2x4 SF	PF No.2		BRACING- TOP CHOR		Structu	ral wood	sheathing di	irectly applied or 6-0-0	oc purlins,

BOT CHORD

except end verticals.

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

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

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

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

Max Horz 1=153(LC 9) Max Uplift 1=-36(LC 10), 4=-42(LC 9), 5=-153(LC 12)

Max Grav 1=78(LC 9), 4=156(LC 19), 5=371(LC 19)

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FORCES. (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) or less except when shown.
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TOP CHORD 1-2=-300/200

WEBS 2-5=-291/259

NOTES-

 Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-5-12 to 3-5-12, Interior(1) 3-5-12 to 6-3-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

2) Gable requires continuous bottom chord bearing.

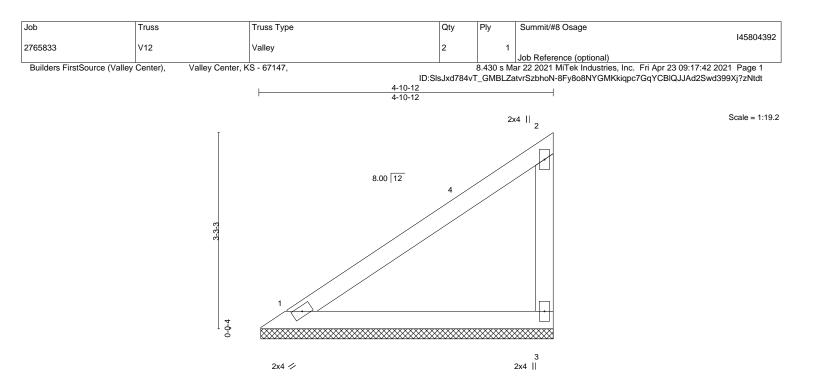
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

 Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 4 except (jt=lb) 5=153.

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







LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES GRIP
TCLL 25.0	Plate Grip DOL 1.15	TC 0.35	Vert(LL) r	n/a -	n/a	999	MT20 197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.19	Vert(CT) r	n/a -	n/a	999	
BCLL 0.0	Rep Stress Incr YES	WB 0.00	Horz(CT) 0.	00 3	n/a	n/a	
3CDL 10.0	Code IRC2018/TPI2014	Matrix-P	· · /				Weight: 15 lb FT = 20%

TOP CHORD

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

BRACING-TOP CHORD BOT CHORD

Structural wood sheathing directly applied or 4-10-12 oc purlins, except end verticals. Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. 1=4-10-6, 3=4-10-6 (size) Max Horz 1=113(LC 9) Max Uplift 1=-24(LC 12), 3=-63(LC 12) Max Grav 1=192(LC 1), 3=206(LC 19)

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

NOTES-

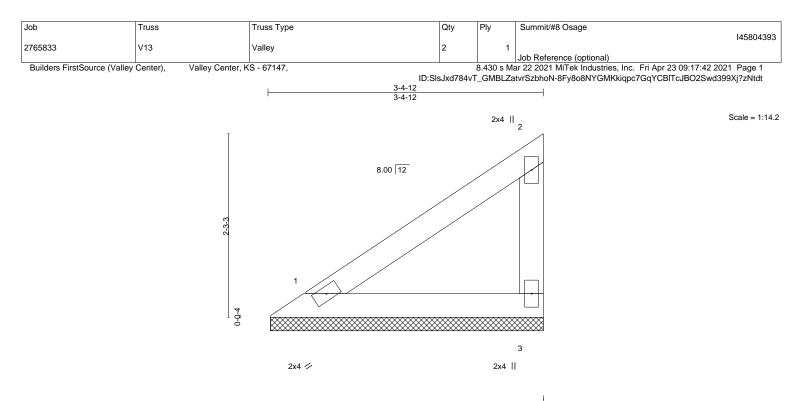
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-5-12 to 3-5-12, Interior(1) 3-5-12 to 4-9-0 zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

2) Gable requires continuous bottom chord bearing.

- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.
- 5) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.







LOADING (psf) TCLL 25.0 TCDL 10.0 BCLL 0.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES	CSI. TC 0.14 BC 0.07 WB 0.00	DEFL. in Vert(LL) n/a Vert(CT) n/a Horz(CT) 0.00	(loc) - - 3	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES GRIP MT20 197/144
BCDL 10.0	Code IRC2018/TPI2014	Matrix-P	1012(01) 0.00	0	n/a	174	Weight: 10 lb FT = 20%
LUMBER-			BRACING-				

TOP CHORD

BOT CHORD

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

WEBS 2x4 SPF No.2

REACTIONS. (size) 1=3-4-6, 3=3-4-6 Max Horz 1=74(LC 9) Max Uplift 1=-15(LC 12), 3=-41(LC 12) Max Grav 1=125(LC 1), 3=134(LC 19)

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

NOTES-

 Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

2) Gable requires continuous bottom chord bearing.

- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.
- 5) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

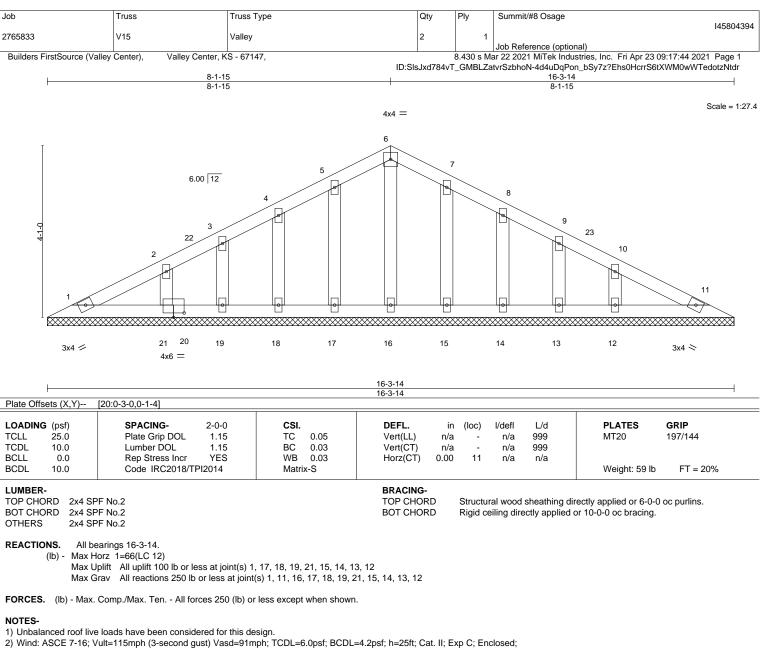
ANDREW THOMAS JOHNSON NUMBER PE-2017018993 FROMAL ENGINE April 23,2021

Structural wood sheathing directly applied or 3-4-12 oc purlins,

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

except end verticals.



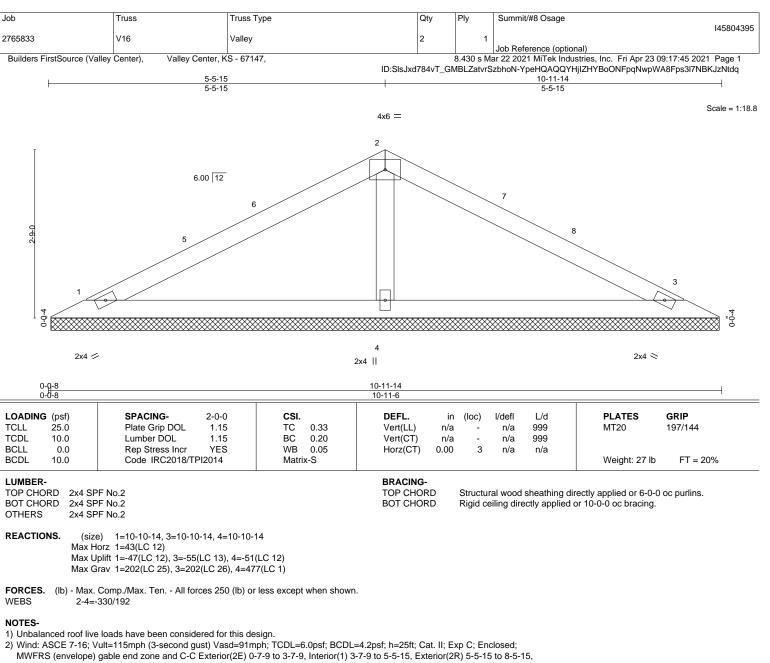


2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3E) 0-7-7 to 3-7-7, Exterior(2N) 3-7-7 to 8-1-15, Corner(3R) 8-1-15 to 11-1-15, Exterior(2N) 11-1-15 to 15-8-8 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) All plates are 2x4 MT20 unless otherwise indicated.
- 5) Gable studs spaced at 1-4-0 oc.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 17, 18, 19, 21, 15, 14, 13, 12.
- 8) Non Standard bearing condition. Review required.
- 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.







Interior(1) 8-5-15 to 10-4-5 zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

3) Gable requires continuous bottom chord bearing.

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

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

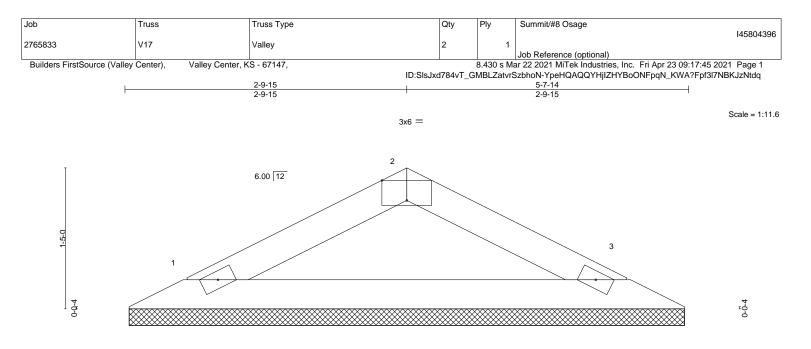
6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and

referenced standard ANSI/TPI 1.



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

16023 Swingley Ridge Rd Chesterfield, MO 63017



2x4 💋

2x4 📚

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

Plate Offsets (X,Y) [2:0-3-0,Edge]					
OADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d	PLATES GRIP	
CLL 25.0	Plate Grip DOL 1.15	TC 0.11	Vert(LL) n/a - n/a 999	MT20 197/144	
CDL 10.0	Lumber DOL 1.15	BC 0.21	Vert(CT) n/a - n/a 999		
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-P		Weight: 12 lb FT = 20%	

BOT CHORD

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

REACTIONS. 1=5-6-14, 3=5-6-14 (size) Max Horz 1=19(LC 16) Max Uplift 1=-33(LC 12), 3=-33(LC 13) Max Grav 1=198(LC 1), 3=198(LC 1)

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

NOTES-

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

2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed;

- MWFRS (envelope) gable end zone and C-C Exterior(2E) zone; cantilever left and right exposed ; end vertical left and right
- exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

3) Gable requires continuous bottom chord bearing.

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

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

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





