



RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI 07/13/2021

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

Site Information:

Customer: Project Name: 2755622 Lot/Block: Address: City:

Model: Subdivision: State:

General Truss Engineering Criteria & Design Loads (Individual Truss Design Drawings Show Special Loading Conditions):

Design Code: IRC2018/TPI2014 Wind Code: N/A Roof Load: 45.0 psf

Design Program: MiTek 20/20 8.4 Wind Speed: 115 mph Floor Load: N/A psf

This package includes 64 individual, dated Truss Design Drawings and 0 Additional Drawings.

No.	Seal#	Truss Name	Date	No.	Seal#	Truss Name	Date
1	145804333	A1	6/11/2021	21	145804353	A22	6/11/2021
2	145804334	A3	6/11/2021	22	l45804354	A23	6/11/2021
3	145804335	A4	6/11/2021	23	l45804355	A24	6/11/2021
4	145804336	A5	6/11/2021	24	l45804356	A25	6/11/2021
5	145804337	A6	6/11/2021	25	l45804357	A26	6/11/2021
6	145804338	A7	6/11/2021	26	l45804358	A27	6/11/2021
7	145804339	A8	6/11/2021	27	l45804359	A28	6/11/2021
8	145804340	A9	6/11/2021	28	I45804360	B1	6/11/2021
9	I45804341	A10	6/11/2021	29	l45804361	B2	6/11/2021
10	145804342	A11	6/11/2021	30	l45804362	B3	6/11/2021
11	145804343	A12	6/11/2021	31	l45804363	B4	6/11/2021
12	145804344	A13	6/11/2021	32	I45804364	B5	6/11/2021
13	145804345	A14	6/11/2021	33	I45804365	CJ1	6/11/2021
14	145804346	A15	6/11/2021	34	I45804366	CJ2	6/11/2021
15	145804347	A16	6/11/2021	35	145804367	J1	6/11/2021
16	145804348	A17	6/11/2021	36	145804368	J2	6/11/2021
17	145804349	A18	6/11/2021	37	I45804369	J3	6/11/2021
18	145804350	A19	6/11/2021	38	I45804370	J4	6/11/2021
19	145804351	A20	6/11/2021	39	145804371	J5	6/11/2021
20	145804352	A21	6/11/2021	40	145804372	J6	6/11/2021

The truss drawing(s) referenced above have been prepared by

MiTek USA, Inc under my direct supervision

based on the parameters provided by Builders FirstSource (Valley Center).

Truss Design Engineer's Name: Johnson, Andrew

My license renewal date for the state of Missouri is December 31, 2021. Missouri COA: 001193

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. Any project specific information included is for MiTek customers file reference purpose only, and was not taken into account in the preparation of these designs. MiTek 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.





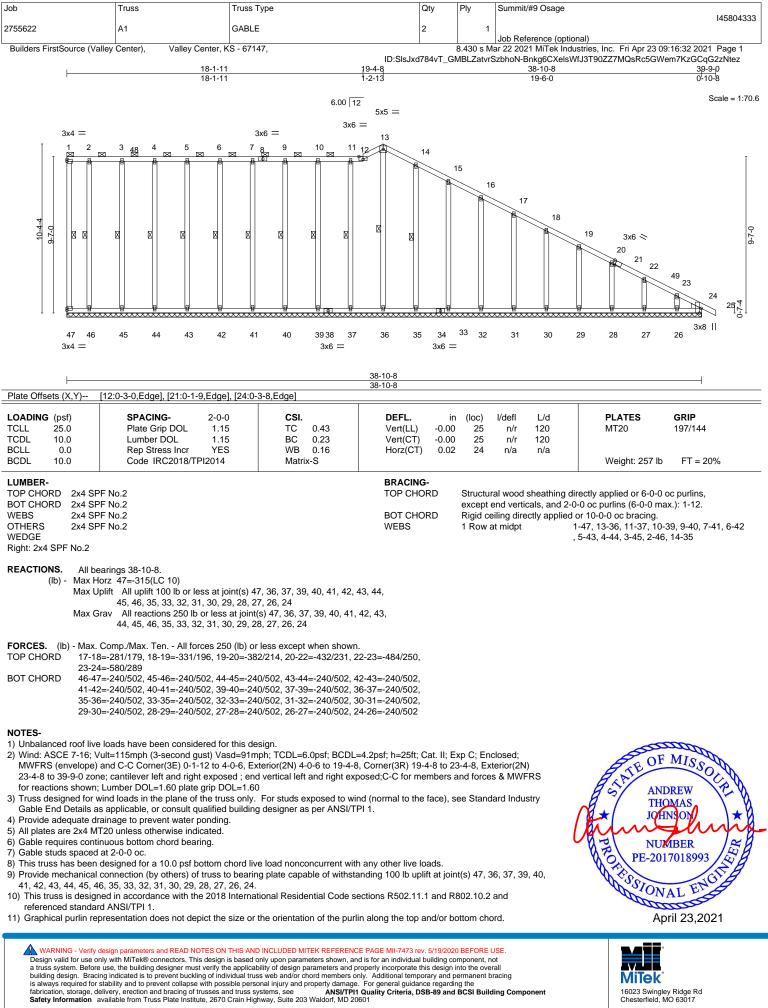
RE: 2755622 - Summit/#9 Osage

Site Information:

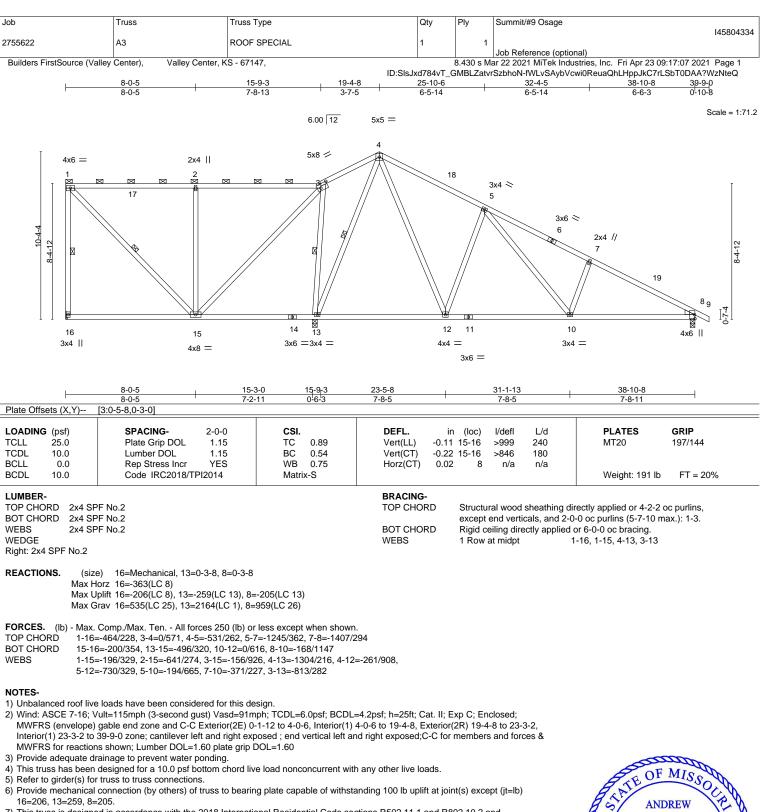
Project Customer: Lot/Block: Address:	Project Name: 275	5622	Subdivision:
City, County:			State:
No. Seal#	Truss Name	Date	

INU.	Seal#	TTUSS Maine	Dale
41	145804373	LG1	6/11/2021
42	145804374	LG2	6/11/2021
43	145804375	LG3	6/11/2021
44	145804376	M1	6/11/2021
45	145804377	M2	6/11/2021
46	145804378	M3	6/11/2021
47	145804379	M4	6/11/2021
48	145804380	M5	6/11/2021
49	l45804381	M6	6/11/2021
50	145804382	V1	6/11/2021
51	145804383	V2	6/11/2021
52	145804384	V3	6/11/2021
53	145804385	V4	6/11/2021
54	145804386	V5	6/11/2021
55	145804387	V6	6/11/2021
56	145804388	V7	6/11/2021
57	145804389	V9	6/11/2021
58	145804390	V10	6/11/2021
59	145804391	V11	6/11/2021
60	145804392	V12	6/11/2021
61	145804393	V13	6/11/2021
62	145804394	V15	6/11/2021
63	145804395	V16	6/11/2021
64	145804396	V17	6/11/2021

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



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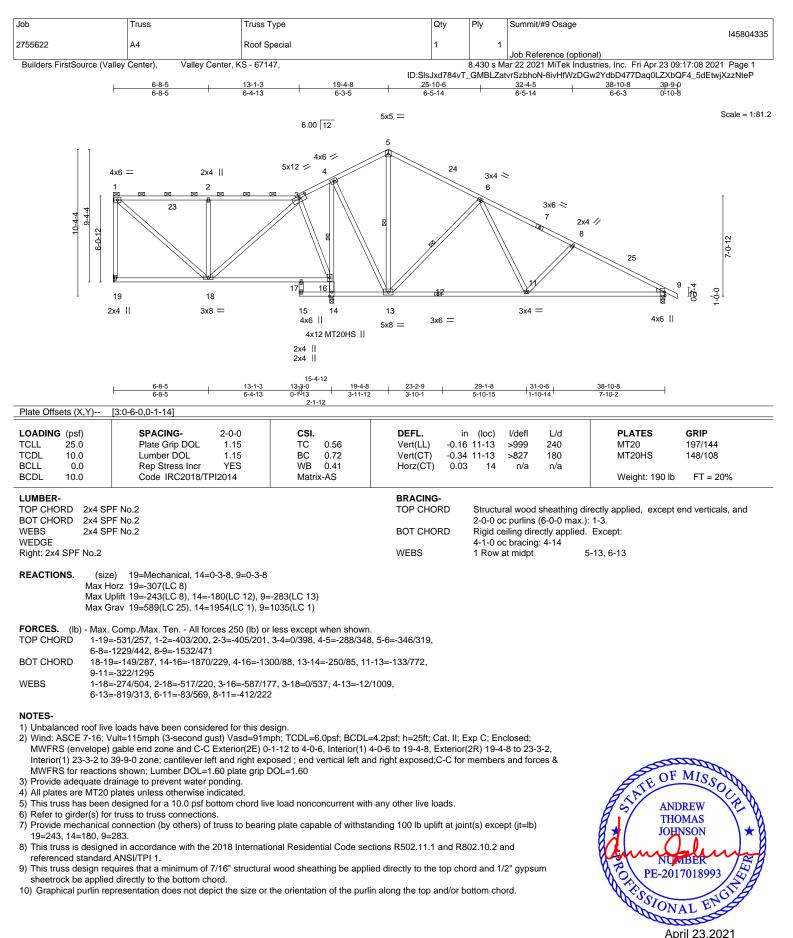
7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

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



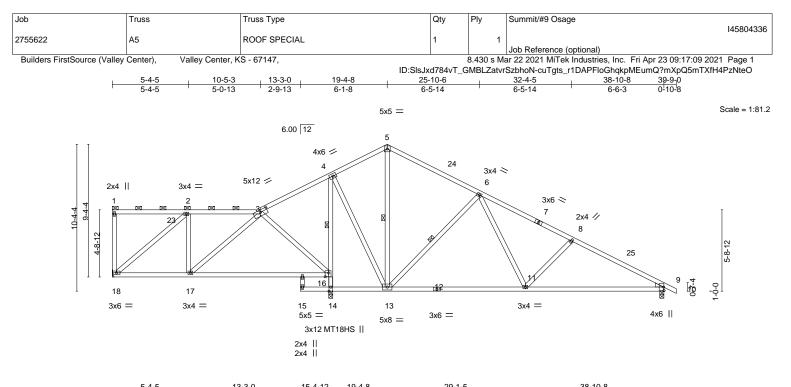
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use,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

16023 Swingley Ridge Rd Chesterfield, MO 63017



April 23,2021





	5-4-5	13-3-0 7-10-11	15-4-12 19-4-8 2-1-12 3-11-12				3-10-8 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/def	i 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
CLL 0.0	Rep Stress Incr	YES	WB 0.49	Horz(CT) 0.03	314n/a	a n/a		
SCDL 10.0	Code IRC2018/TP	12014	Matrix-AS				Weight: 183 lb	FT = 20%
JMBER-				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 purli	ins (6-0-0 max.)	: 1-3.	
/EBS 2x4 SP	PF No.2			BOT CHORD	Rigid ceiling	directly applied.	Except:	
VEDGE					1 Row at mid	lpt 4	-16	
Right: 2x4 SPF No.2					3-11-0 oc bra	cing: 14-16		
-				WEBS	1 Row at mid	lpt 5	5-13, 6-13	
EACTIONS. (size	e) 18=Mechanical, 14=0	-3-8, 9=0-3-8				-		

Max Horz 18=-284(LC 8) Max Uplift 18=-284(LC 8) Max Grav 18=584(LC 25), 14=-172(LC 12), 9=-290(LC 13) Max Grav 18=584(LC 25), 14=2001(LC 1), 9=1032(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) 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

 WERS
 2-18=-640/057, 2-17=-0400, 2-16=-642/406, 6-12=-820/242, 0-144_00/257, 2-17=-0400, 2-16=-642/406, 6-12=-820/242, 0-144_00/257, 2-17=-0400, 2-16=-642/406, 6-12=-820/242, 0-144_00/257, 2-17=-0400, 2-16=-642/406, 6-12=-820/242, 0-144_00/257, 2-17=-0400, 2-16=-642/406, 6-12=-820/242, 0-144_00/257, 2-17=-0400, 2-16=-642/406, 6-12=-820/242, 0-144_00/257, 2-17=-0400, 2-16=-642/406, 6-12=-820/242, 0-144_00/257, 2-17=-0400, 2-16=-642/406, 6-12=-820/242, 0-144_00/257, 2-144_00/257, 2-15=-642/406, 0-12=-820/242, 0-144_00/257, 2-15=-642/406, 0-12=-820/242, 0-144_00/257, 2-15=-642/406, 0-12=-820/242, 0-144_00/257, 2-144_00/257, 2-15=-642/406, 0-12=-820/242, 0-144_00/257, 2-15=-642/406, 0-12=-820/242, 0-144_00/257, 2-144_
- 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.

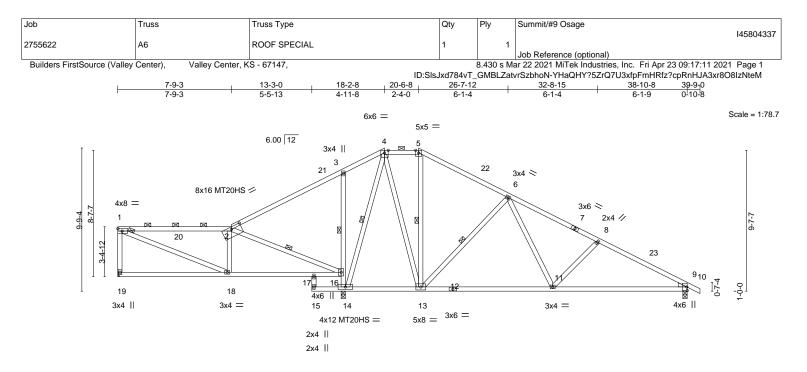
8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

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.







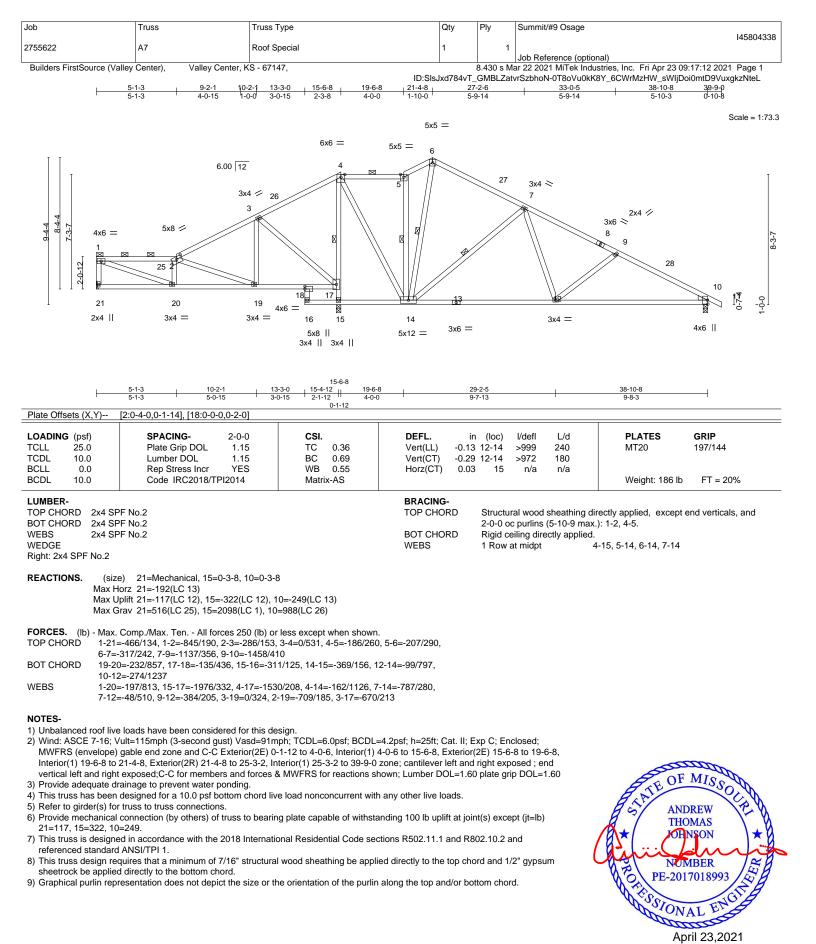
	7-9-3	13-3-0 _15-4-12 _ 18-2-8	20-6-8	29-8-5		38-10-8	
	7-9-3	5-5-13 2-1-12 2-9-12		9-1-13		9-2-3	
Plate Offsets (X,Y)	[2:0-8-0,0-1-14]						
LOADING (psf) TCLL 25.0	SPACING- 2-0-0 Plate Grip DOL 1.15	CSI. TC 0.89	DEFL. in Vert(LL) -0.16	· · ·	L/d 240	PLATES MT20	GRIP 197/144
TCDL 10.0 BCLL 0.0	Lumber DOL 1.15 Rep Stress Incr YES	BC 0.73 WB 0.52	Vert(CT) -0.34 Horz(CT) 0.03			MT20HS	148/108
BCDL 10.0	Code IRC2018/TPI2014	Matrix-S				Weight: 185 lb	FT = 20%
	PF No.2		BRACING- TOP CHORD			rectly applied or 4-2-3 c	
	PF No.2 PF No.2		BOT CHORD		irectly applied ng: 13-14.)-0 oc purlins (2-8-10 m or 10-0-0 oc bracing, I	
Night. 2x4 011 No.2			WEBS	1 Row at midp		2-16, 5-13, 6-13, 4-14	
FORCES. (lb) - Max TOP CHORD 1-19 6-8= BOT CHORD 17-1	Grav 19=522(LC 25), 14=2068(LC . Comp./Max. Ten All forces 250 =-451/185, 1-2=-521/207, 2-3=0/5 -1232/413, 8-9=-1509/437 8=-136/521, 16-17=-136/521, 14-1 =-298/1260	(lb) or less except when showr 30, 3-4=0/453, 4-5=-286/311, 5	5-6=-421/301,				
WEBS 1-18	=-290/1200 =-207/484, 2-16=-873/224, 6-13=- =-152/954, 4-14=-1146/27	756/287, 6-11=-80/527, 8-11=-	357/211,				
2) Wind: ASCE 7-16; MWFRS (envelope Exterior(2R) 20-6-8 exposed;C-C for m	e loads have been considered for t Vult=115mph (3-second gust) Vasc) gable end zone and C-C Exterior to 24-5-2, Interior(1) 24-5-2 to 39- embers and forces & MWFRS for n	l=91mph; TCDL=6.0psf; BCDL 2E) 0-1-12 to 4-0-6, Interior(1) 9-0 zone; cantilever left and rig	4-0-6 to 18-2-8, Exterior(ht exposed ; end vertical	2E) 18-2-8 to 20 left and right		OF	MISC
4) All plates are MT20	Irainage to prevent water ponding. plates unless otherwise indicated. designed for a 10.0 psf bottom ch	ord live load nonconcurrent wit	h any other live loads.			STATE OF	REW
	or truss to truss connections. I connection (by others) of truss to =269.	bearing plate capable of withst	anding 100 lb uplift at joir	nt(s) except (jt=ll	b)	HU IHU	MAS VSON
	ed in accordance with the 2018 Int	ernational Residential Code se	ctions R502.11.1 and R8	02.10.2 and		any	ABER ZA

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



MiTek° 16023 Swingley Ridge Rd Chesterfield, MO 63017

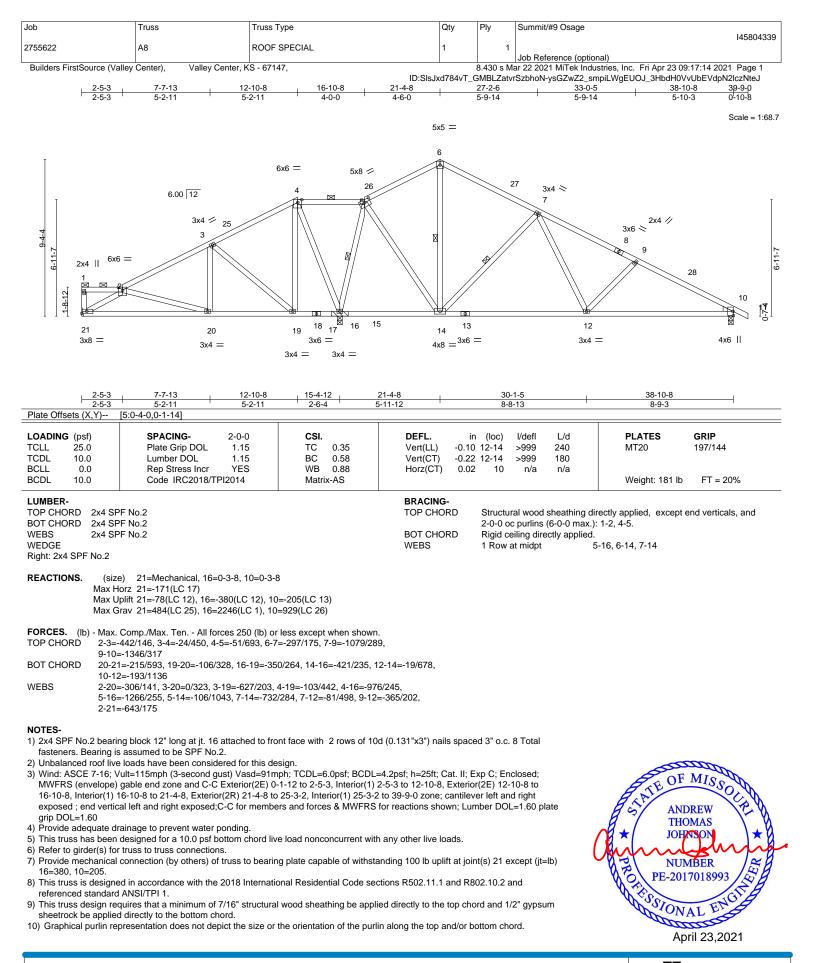




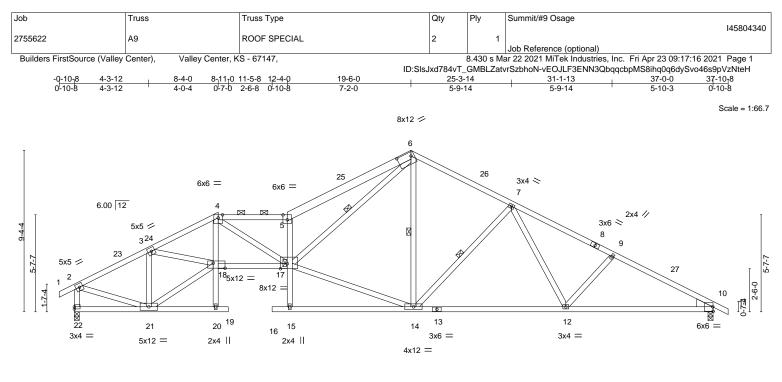
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MiTek[°]

16023 Swingley Ridge Rd Chesterfield, MO 63017







 	4-3-12 8-11-0		19-6-0		28-5-10	37-0-0		
	4-3-12 4-7-4		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,Edg	gej, [18:0-8-4,0-3-8]				
LOADING (psf) TCLL 25.0	SPACING- Plate Grip DOL	2-0-0 1.15	CSI. TC 0.91	DEFL. in Vert(LL) -0.42	i (loc) l/defl L/d 16 >999 240	PLATES MT20	GRIP 197/144	
TCDL 10.0 BCLL 0.0	Lumber DOL Rep Stress Inc	1.15	BC 0.95 WB 1.00		14-15 >587 180			
BCDL 10.0	Code IRC2018	/TPI2014	Matrix-S			Weight: 186 lb	FT = 20%	
LUMBER- BRACING- TOP CHORD 2x4 SPF No.2 *Except* 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 2x4 SPF No.2 BOT CHORD BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 2x4 SPF No.2 *Except* 5-15: 2x4 SPF 1650F 1.5E BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: WEDGE WEBS 1 Row at midpt 5-15. 6-14, 7-14, 6-17							ax.): 4-5.	
Right: 2x6 SPF No.	2			VVEDS	i Row at mupt	5-15, 6-14, 7-14, 6-17		
Ma Ma	(size) 22=0-3-8, 10=0-3 ax Horz 22=-159(LC 13) ax Uplift 22=-298(LC 12), ax Grav 22=1746(LC 1), 1	10=-285(LC 13)						
TOP CHORD 2	1ax. Comp./Max. Ten All -3=-2095/366, 3-4=-4335/ -9=-2729/489, 9-10=-2960	755, 4-5=-4798/8	01, 5-6=-5405/990, 6-7=-2					
WEBS 4 9	BOT CHORD 17-18=-638/3823, 12-14=-241/2166, 10-12=-345/2521							
 2) Wind: ASCE 7-1 MWFRS (envelo Interior(1) 12-4-(vertical left and 1 3) Provide adequat 	f live loads have been con 6; Vult=115mph (3-second ppe) gable end zone and C 0 to 19-6-0, Exterior(2R) 1 right exposed;C-C for men te drainage to prevent wat	d gust) Vasd=91n -C Exterior(2E) -(9-6-0 to 23-2-6, Ir abers and forces a er ponding.	nph; TCDL=6.0psf; BCDL= 0-10-8 to 2-9-14, Interior(1 0.000 to 2-9-14, Interior(1) 0.000 to 2-9-14, Interior(1) 0.000 to 2-9-14, Interior 0.000 to 2-9-14, Interior 0.0000 to 2-9-14, Interior 0.0000 to	1) 2-9-14 to 8-4-0, Exterio 8 zone; cantilever left an hown; Lumber DOL=1.60	or(2E) 8-4-0 to 12-4-0, d right exposed ; end	STATE OF	MISSOUR	

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

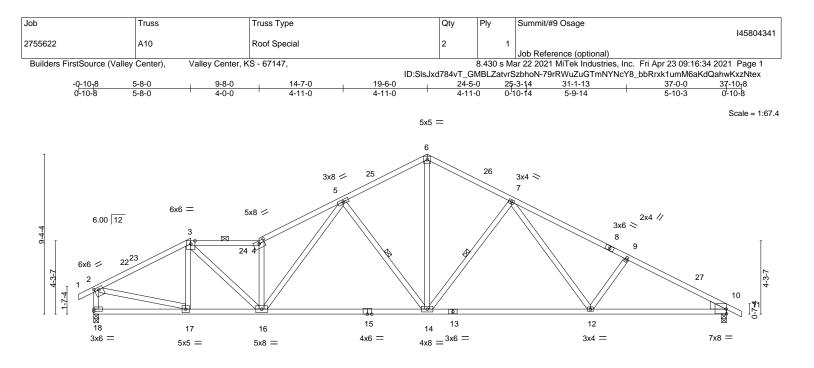
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 22=298, 10=285.

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.







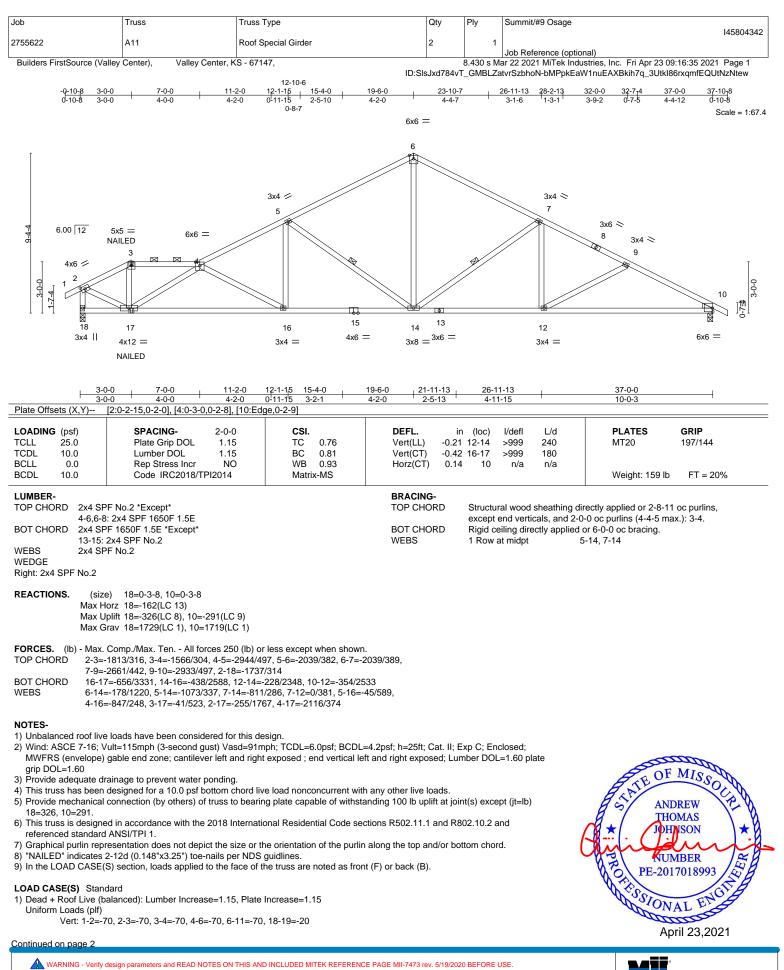
<u>5-8-0</u> 5-8-0	9-8-0	<u>19-6-0</u> 9-10-0			27-10-7 8-4-7	29-0-8 1-2-1	37-0-0 7-11-8	
Plate Offsets (X,Y) [2:0-3-0,0	·1-12], [4:0-4-0,0-1-14], [10:E	dge,0-3-4]						
TCLL 25.0 Pla TCDL 10.0 Lu BCLL 0.0 Re	ACING- 2-0-0 te Grip DOL 1.15 nber DOL 1.15 o Stress Incr YES te IRC2018/TPI2014	CSI. TC 0.63 BC 0.91 WB 0.56 Matrix-AS	DEFL. Vert(Ll Vert(C Horz(C	.) -0.23 T) -0.53	14-16 >9 14-16 >8	defl L/d 199 240 132 180 n/a n/a	PLATES MT20 Weight: 165 lb	GRIP 197/144 FT = 20%
LUMBER- TOP CHORD 2x4 SPF No.2 BOT CHORD 2x4 SPF No.2 WEBS 2x4 SPF No.2 WEDGE Right: 2x6 SPF No.2			BRACI TOP C BOT C WEBS	HORD	2-0-0 oc pu	urlins (3-2-12 max. g directly applied.	rectly applied, except e	
FORCES. (lb) Max. Comp./M TOP CHORD 2-3=-2233/398 7-9=-2763/494 BOT CHORD 16-17=-386/19 WEBS 3-16=-203/140	62(LC 17) 08(LC 12), 10=-287(LC 13) '30(LC 1), 10=1719(LC 1) x. Ten All forces 250 (lb) of 3-4=-2946/535, 4-5=-3310/of 9-10=-2970/486, 2-18=-1666 9, 14-16=-339/2217, 12-14= 8, 4-16=-1759/392, 5-16=-258	42, 5-6=-1999/439, 6-7=-2 5/356 -229/2104, 10-12=-345/28 9/1135, 5-14=-844/313, 6-	2006/439, 567 14=-263/1418	,				
7-14=-675/289 NOTES- 1) Unbalanced roof live loads ha 2) Wind: ASCE 7-16; Vult=115m MWFRS (envelope) gable end Interior(1) 8-8-0 to 19-6-0, Ext vertical left and right exposed 3) Provide adequate drainage to 4) This truss has been designed 5) Provide mechanical connection 18=308, 10=287.	bh (3-second gust) Vasd=91r zone and C-C Exterior(2E) - rrior(2R) 19-6-0 to 22-6-0, In C-C for members and forces prevent water ponding. for a 10.0 psf bottom chord li	esign. nph; TCDL=6.0psf; BCDL 0-10-8 to 2-1-8, Interior(1) ierior(1) 22-6-0 to 37-10-8 & MWFRS for reactions s ve load nonconcurrent wit	=4.2psf; h=25) 2-1-8 to 5-8-(zone; cantilev hown; Lumber h any other liv), Exterior(2 er left and DOL=1.60 e loads.	R) 5-8-0 to right expose plate grip D	8-8-0, ed ; end IOL=1.60	STATE OF	MISSOL

- 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.







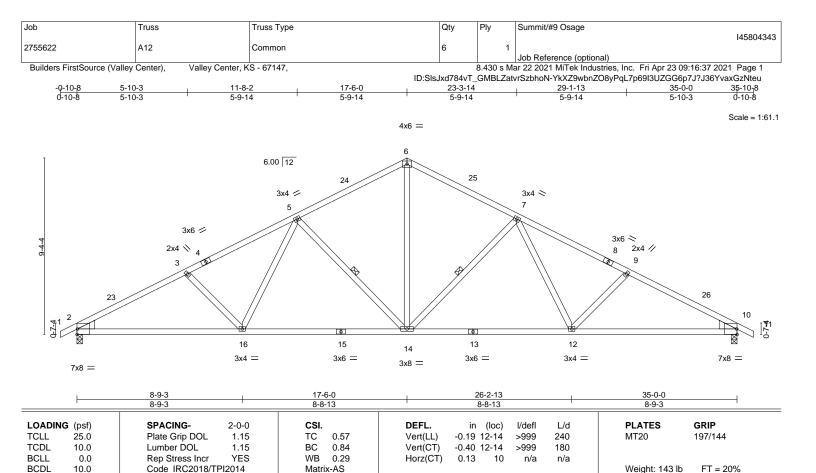
16023 Swingley Ridge Rd Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Summit/#9 Osage
					145804342
2755622	A11	Roof Special Girder	2	1	
					Job Reference (optional)
Builders FirstSource (Valley	Center), Valley Center, K	S - 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-TOP CHORD

WEBS

BOT CHORD

Structural wood sheathing directly applied.

7-14, 5-14

Rigid ceiling directly applied.

1 Row at midpt

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

10.0

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.

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

Matrix-AS

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

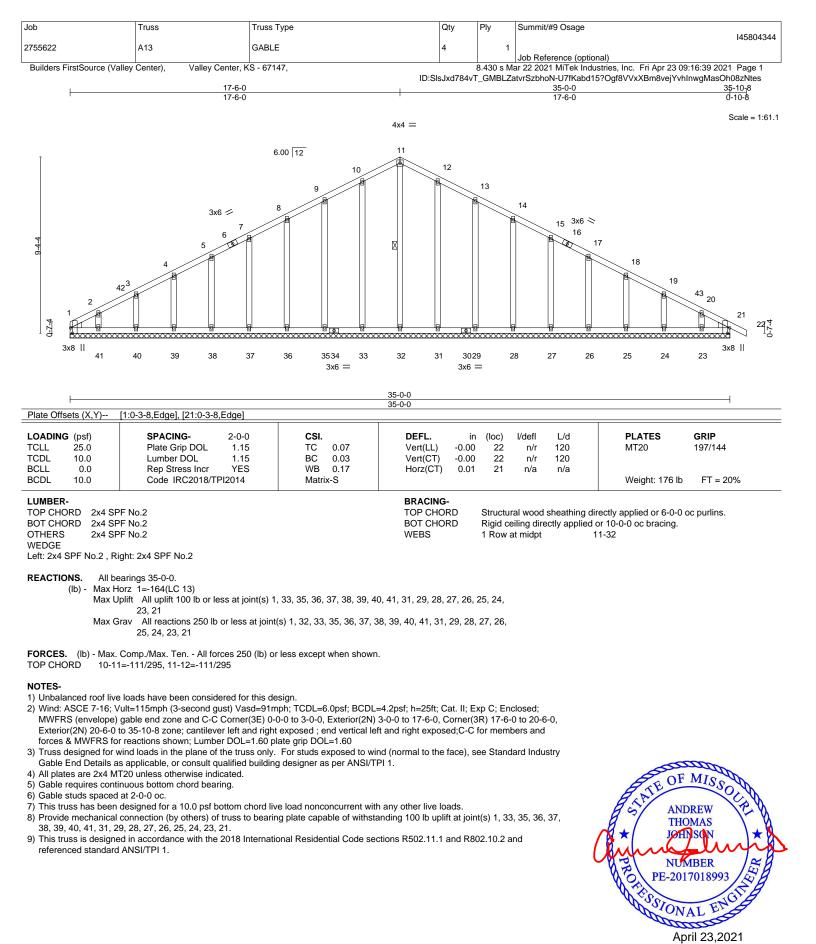
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=280, 10=280.

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.

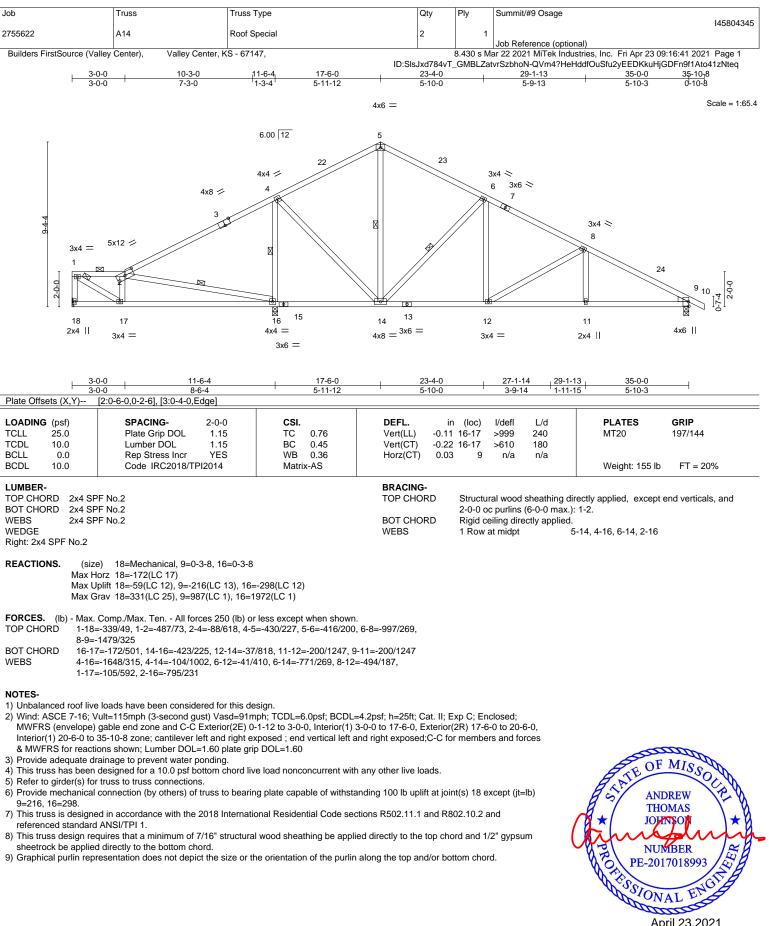
6) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.







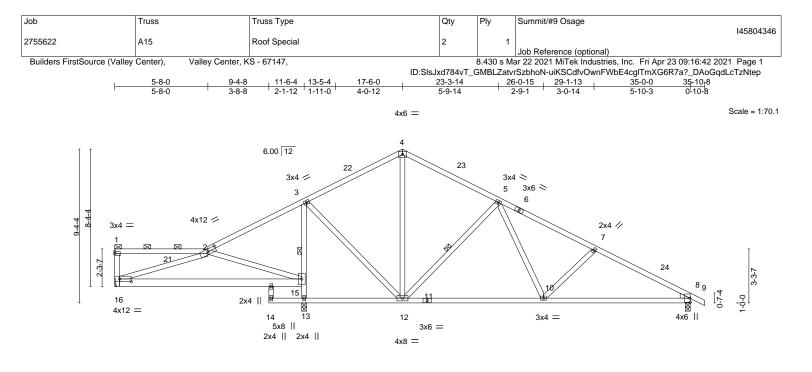




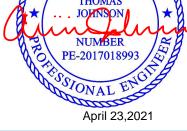
MiTek

April 23,2021

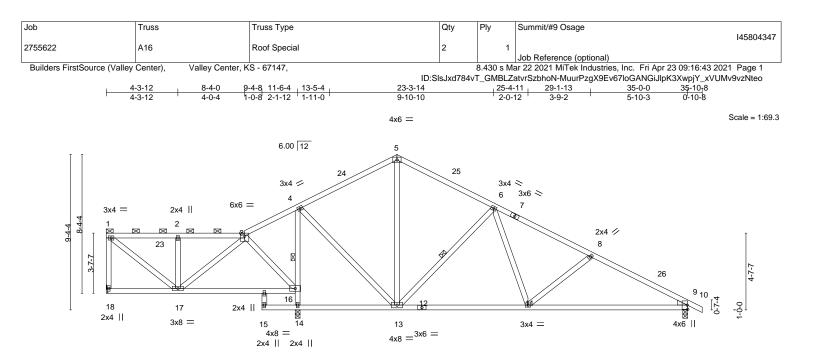
16023 Swingley Ridge Rd Chesterfield, MO 63017



F	5-8-0	9-4-8	11-6-4 17-6-0	26-0		1	35-0-0	4
Plate Offsets (X,Y)	<u>5-8-0</u> [2:0-6-0,0-1-14], [16:0-8-	3-8-8	2-1-12 5-11-12	8-6-	15		8-11-1	·
	[2.0-0-0,0-1-14], [10.0-0-	0,0-2-0]						
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 0.54 BC 0.61 WB 0.44	Vert(LL) -0.19 Vert(CT) -0.38	(loc) l/defl 15-16 >725 15-16 >364 13 n/a	L/d 240 180 n/a	PLATES MT20	GRIP 197/144
BCDL 10.0	Code IRC2018/TI		Matrix-AS	Horz(CT) -0.03	15 II/a	11/a	Weight: 159 lb	FT = 20%
BOT CHORD 2x4 SF 15-16:	PF No.2 PF No.2 *Except* 2x6 SPF No.2 PF No.2			BRACING- TOP CHORD BOT CHORD WEBS	Structural wood 2-0-0 oc purlins Rigid ceiling dir 1 Row at midpt	(6-0-0 max.): ectly applied.	rectly applied, except e : 1-2. 3-13, 5-12	end verticals, and
Max H Max U Max G FORCES. (lb) - Max. TOP CHORD 2-3=- BOT CHORD 15-10 WEBS 2-15-	-56/301, 3-4=-649/325, 4- 6=-224/560, 10-12=-130/9	231(LC 12), 696(LC 1), 10 rces 250 (lb) -5=-644/302, 981, 8-10=-29 0, 13-15=-160	16=-133(LC 8))=467(LC 25) or less except when shown. 5-7=-1396/406, 7-8=-1669/43 38/1421)2/271, 3-15=-1298/230, 3-12					
 Wind: ASCE 7-16; M MWFRS (envelope) , Interior(1) 20-6-0 tt & MWFRS for reacti 3) Provide adequate dt 4) This truss has been 5) Refer to girder(s) foi 6) Provide mechanical 8=263, 13=231, 16= 7) This truss is designer referenced standard 8) This truss design re- sheetrock be applier 	gable end zone and C-Č o 35-10-8 zone; cantileve ions shown; Lumber DOL rainage to prevent water j designed for a 10.0 psf b r truss to truss connectior connection (by others) of =133. ed in accordance with the d ANSI/TPI 1. quires that a minimum of d directly to the bottom ch	ust) Vasd=91 Exterior(2E) r left and righ =1.60 plate of ponding. sottom chord ns. f truss to bea 2018 Interna 7/16" structu nord.	mph; TCDL=6.0psf; BCDL=4. 0-1-12 to 3-1-12, Interior(1) 3 t exposed ; end vertical left ar	-1-12 to 17-6-0, Exteri ad right exposed;C-C f ny other live loads. ding 100 lb uplift at joir ons R502.11.1 and R8 l directly to the top cho	or(2R) 17-6-0 to or members and ht(s) except (jt=lb 02.10.2 and ord and 1/2" gyps	forces)		MISSOL REW MAS TSON HER 7018993



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H	4-3-12 8-4-0 9-4-8 11 4-3-12 4-0-4 1-0-8 2-1		25-4-11 7-10-11	27-1-14	<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 Max G	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= rav 18=476(LC 25), 9=1093(LC 1), 14=	1685(LC 1)				
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=-	332/140,			
 Wind: ASCE 7-16; V MWFRS (envelope) , Interior(1) 20-6-0 tc & MWFRS for reacting 3) Provide adequate dr 4) This truss has been 5) Refer to girder(s) for 6) Provide mechanical 18=174, 9=265, 14= 7) This truss is designered standard 8) This truss design red sheetrock be applied 	ed in accordance with the 2018 Internation	ph; TCDL=6.0psf; BCDL= -1-12 to 3-1-12, Interior(1) exposed ; end vertical left a DOL=1.60 e load nonconcurrent with g plate capable of withsta onal Residential Code sec	3-1-12 to 17-6-0, Exterio and right exposed;C-C fo any other live loads. nding 100 lb uplift at join tions R502.11.1 and R80 ad directly to the top cho	r(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 NU	MISSOUTH DREW DMAS INSON



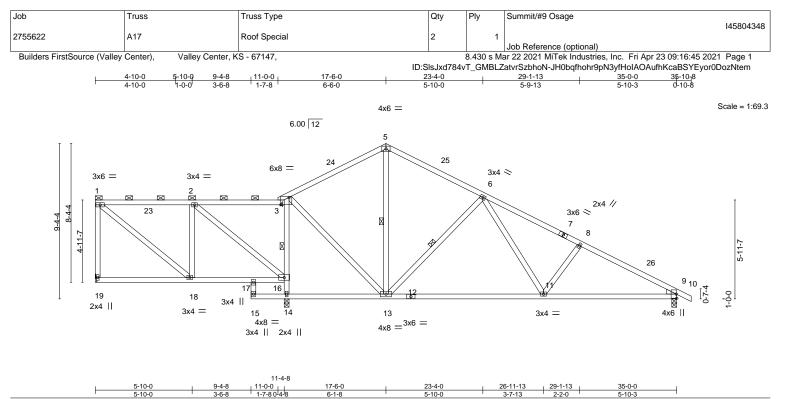
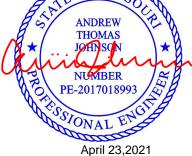
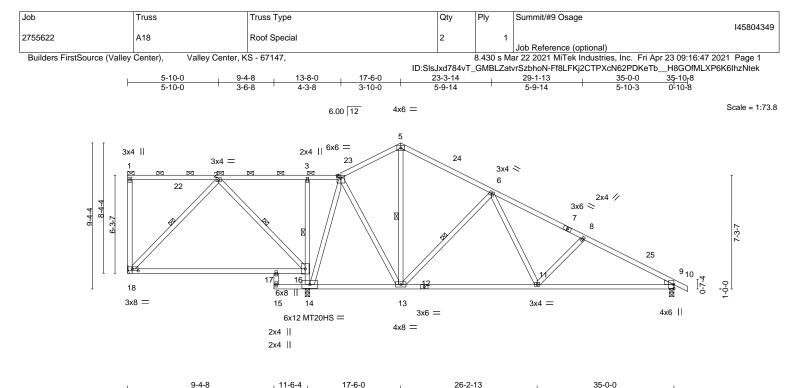


Plate Offsets (X,Y)	[3:0-6-0,0-5-4]	7-00-4-0 0-1-0	5-10-0	3-7-13	2-2-0	5-10-3	
LOADING (psf) TCLL 25.0 TCDL 10.0 BCLL 0.0 BCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2018/TPI2014	CSI. TC 0.41 BC 0.61 WB 0.91 Matrix-AS	Vert(LL) -0.17	n (loc) l/defl 11-13 >999 11-13 >798 14 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 162 lb	GRIP 197/144 FT = 20%
LUMBER- TOP CHORD 2x4 S BOT CHORD 2x4 S WEBS 2x4 S WEDGE Right: 2x4 SPF No.2			BRACING- TOP CHORD BOT CHORD WEBS	Structural wood 2-0-0 oc purlins Rigid ceiling dir 1 Row at midpt	ectly applied.	ectly applied, except 1-4. 13, 4-14, 6-13	end verticals, and
Max Max	ze) 19=Mechanical, 9=0-3-8, 14=0-3-8 Horz 19=-252(LC 8) Uplift 19=-153(LC 8), 9=-242(LC 13), 14 Grav 19=430(LC 25), 9=1059(LC 1), 14	=-213(LC 12)					
TOP CHORD 1-19 6-8= BOT CHORD 17-7 WEBS 14-7	x. Comp./Max. Ten All forces 250 (lb) c 9=-372/166, 1-2=-264/130, 2-3=0/252, 3 =-1409/388, 8-9=-1622/386 18=-24/286, 16-17=-26/374, 11-13=-93/9 16=-1631/246, 4-16=-1272/232, 4-13=-3 1=-335/194, 1-18=-159/307, 2-16=-542/9	4=-12/291, 4-5=-579/277, 4 17, 9-11=-255/1377 7/904, 6-13=-714/286, 6-11	5-6=-583/254,				
 Wind: ASCE 7-16; MWFRS (envelope , Interior(1) 20-6-0 & MWFRS for read Provide adequate of This truss has been Refer to girder(s) fo Provide mechanica 19=153, 9=242, 14 This truss is design referenced standar This truss design russheetrock be applied 	ned in accordance with the 2018 Internat	nph; TCDL=6.0psf; BCDL=)-1-12 to 3-1-12, Interior(1) exposed ; end vertical left a ip DOL=1.60 we load nonconcurrent with ng plate capable of withsta ional Residential Code sec al wood sheathing be applie	3-1-12 to 17-6-0, Exteri and right exposed;C-C f any other live loads. nding 100 lb uplift at join tions R502.11.1 and R8 ad directly to the top cho	or(2R) 17-6-0 to or members and ht(s) except (jt=lb 02.10.2 and ord and 1/2" gyps	forces)		MISSOL DREW DMAS DISON MBER 7018993







	9-4-8	2-1-12 5-11-12	8-8-	13	8-9-3	
Plate Offsets (X,Y)	[18:0-4-8,0-1-8]					
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. ir	n (loc) l/defl L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL 1.15	TC 0.47	Vert(LL) -0.29	9 17-18 >465 240	MT20	197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.66	Vert(CT) -0.57	7 17-18 >239 180	MT20HS	148/108
BCLL 0.0	Rep Stress Incr YES	WB 0.96	Horz(CT) 0.03	3 14 n/a n/a		
BCDL 10.0	Code IRC2018/TPI2014	Matrix-AS			Weight: 168 lb	FT = 20%
LUMBER-			BRACING-			
TOP CHORD 2x4 SP	F No.2		TOP CHORD	Structural wood sheathing di	rectly applied, except	
BOT CHORD 2x4 SP	F No.2			2-0-0 oc purlins (6-0-0 max.)	: 1-4.	
WEBS 2x4 SP	F No.2		BOT CHORD	Rigid ceiling directly applied.		
OTHERS 2x4 SP	F No.2			6-0-0 oc bracing: 3-14	•	
WEDGE			WEBS		2-18, 2-16, 5-13, 6-13	
Right: 2x4 SPF No.2				•		

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.

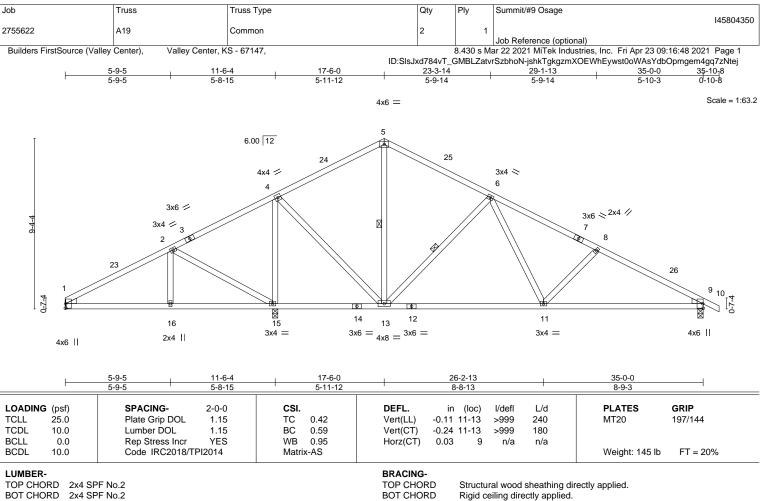
8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

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.







WEBS

1 Row at midpt

5-13, 6-13

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

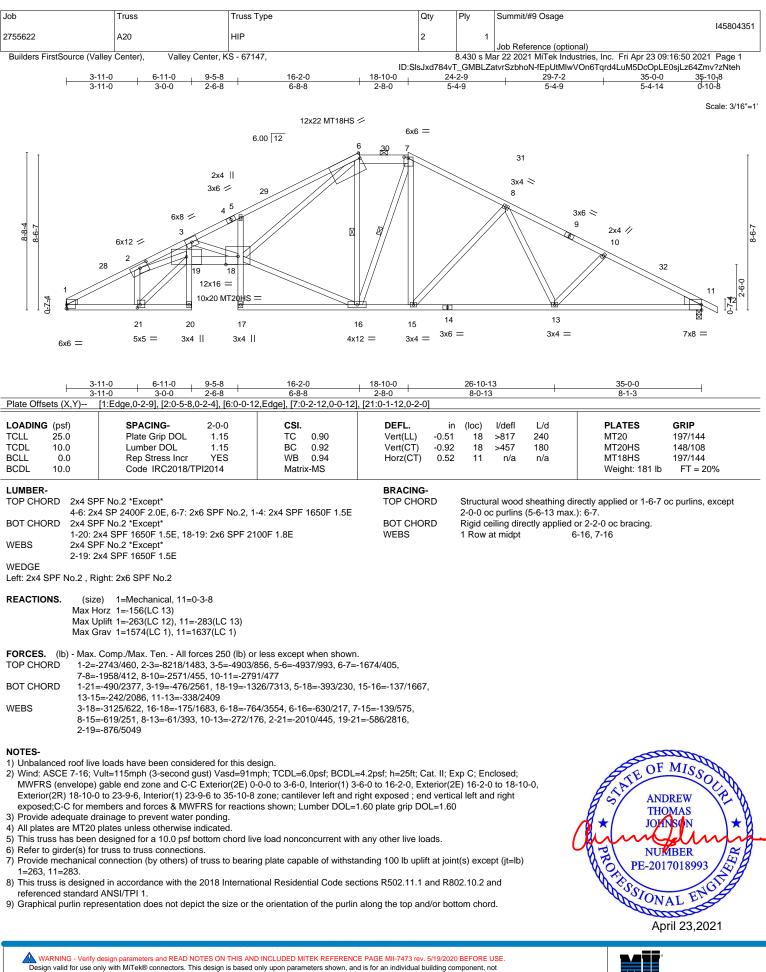
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1 except (jt=lb) 15=287, 9=217.

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.

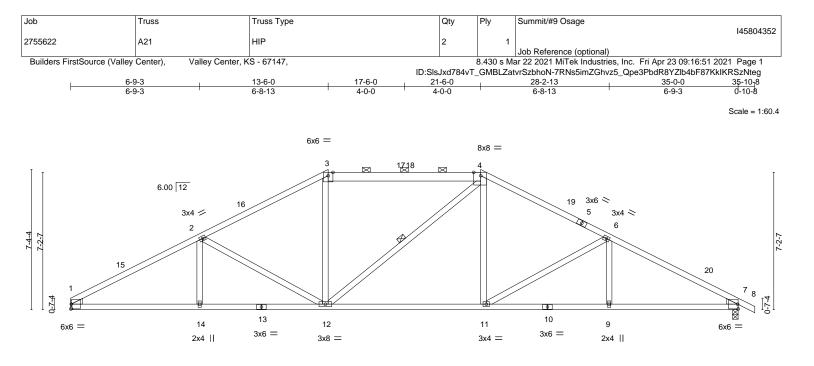


MiTek 16023 Swingley Ridge Rd Chesterfield, MO 63017



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss we be 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 **ANSUTPTI 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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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 sł 2-0-0 oc purlins (4 Rigid ceiling direct 1 Row at midpt	-4-3 max.): 3-	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.

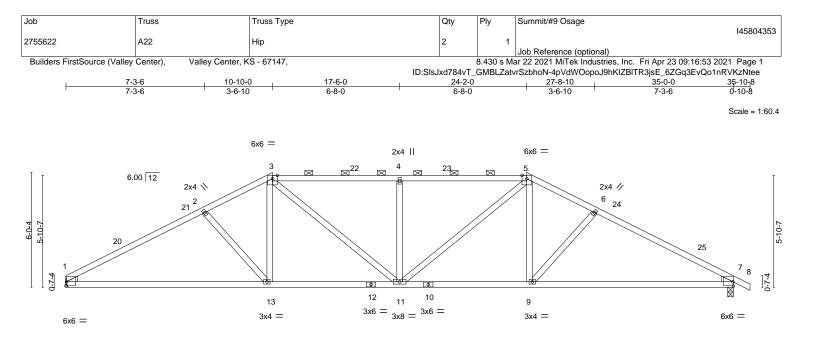
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=268, 7=287.

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.



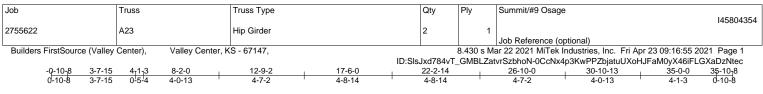




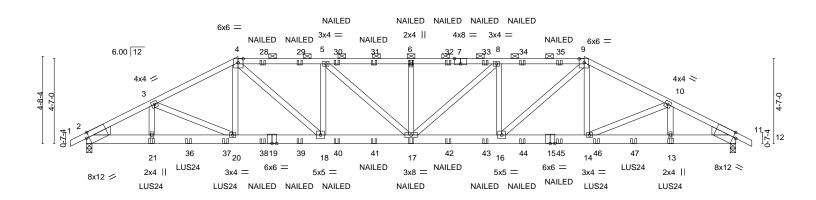
 	<u>10-10-0</u> 10-10-0	<u>17-6-0</u> 6-8-0	24-2-0				<u>35-0-0</u> 10-10-0	
Plate Offsets (X,Y)	[1:Edge,0-2-9], [7:Edge,0-2-9]	0-0-0	0-0-0				10-10-0	
LOADING (psf) TCLL 25.0 TCDL 10.0 BCLL 0.0 BCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2018/TPI2014	CSI. TC 0.64 BC 0.85 WB 0.31 Matrix-AS	Vert(LL) -0.22	n (loc) 2 13-16 3 13-16 2 7	l/defl >999 >872 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 134 lb	GRIP 197/144 FT = 20%
LUMBER- TOP CHORD 2x4 SP BOT CHORD 2x4 SP WEBS 2x4 SP WEDGE Left: 2x4 SPF No.2 , Ri	F No.2 F No.2 F No.2	Main-AS	BRACING- TOP CHORD BOT CHORD	2-0-0 c	oc purlins (2	heathing dir 2-11-1 max.) tly applied.	ectly applied, except	<u><u> </u></u>
Max H Max U	e) 1=Mechanical, 7=0-3-8 orz 1=-108(LC 13) plift 1=-272(LC 12), 7=-292(LC 13) rav 1=1574(LC 1), 7=1637(LC 1)							
TOP CHORD 1-2=- 6-7=- BOT CHORD 1-13= WEBS 2-13=	Comp./Max. Ten All forces 250 (lb) c 2711/481, 2-3=-2431/450, 3-4=-2534/4 2707/479 418/2325, 11-13=-295/2131, 9-11=-2 287/182, 3-13=-63/431, 3-11=-183/65 62/430, 6-9=-282/181	85, 4-5=-2534/485, 5-6=- 18/2128, 7-9=-316/2319	2427/449,					
 Wind: ASCE 7-16; W MWFRS (envelope) , Interior(1) 15-0-15 end vertical left and DOL=1.60 Provide adequate dr 4) This truss has been Refer to girder(s) for Provide mechanical 1=272, 7=292. This truss is designer referenced standard This truss design referenced standard This truss design referenced by applied 	e loads have been considered for this d (ult=115mph (3-second gust) Vasd=911 gable end zone and C-C Exterior(2E) (to 24-2-0, Exterior(2R) 24-2-0 to 28-4-1 right exposed;C-C for members and for ainage to prevent water ponding. designed for a 10.0 psf bottom chord li truss to truss connections. connection (by others) of truss to beari ad in accordance with the 2018 Internat ANSI/TPI 1. quires that a minimum of 7/16" structura d directly to the bottom chord. resentation does not depict the size or t	nph; TCDL=6.0psf; BCDL -0-0 to 3-0-0, Interior(1) 3 5, Interior(1) 28-4-15 to 3 rces & MWFRS for reaction we load nonconcurrent with ng plate capable of withsta ional Residential Code se al wood sheathing be appl	-0-0 to 10-10-0, Exterior 5-10-8 zone; cantilever I ns shown; Lumber DOL n any other live loads. anding 100 lb uplift at joi ctions R502.11.1 and R8 ded directly to the top ch	(2R) 10-7 eft and rig =1.60 pla nt(s) exce 302.10.2 ord and 1	10-0 to 15-(ght expose te grip ept (jt=lb) and /2" gypsun	d;	the John	MAS ISON BER 7018993

April 23,2021





Scale = 1:62.1



		-9-2 17-6-0	22-2-14	26-10-0	30-10-13 35-0-0	4
	7-15 0 ¹ 5 ¹ 4 4-0-13 4- [2:0-1-11,0-3-7], [4:0-3-4,0-2-8], [7:0-4-0	7-2 4-8-14 Edge] [9:0-3-4 0-2-8] [1	<u>4-8-14</u>	4-7-2	4-0-13 4-1-3	
LOADING (psf) TCLL 25.0 TCDL 10.0 BCLL 0.0 BCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr NO Code IRC2018/TPI2014	CSI. TC 0.90 BC 0.61 WB 0.52 Matrix-MS		n (loc) l/defl L/d 0 17 >999 240 3 17 >615 180	PLATES GRIP MT20 197/144 Weight: 185 lb FT = 20°	%
BOT CHORD 2x6 SP 15-19:	2x6 SPF 2100F 1.8E PF No.2		BRACING- TOP CHORD BOT CHORD	Structural wood sheathing 2-0-0 oc purlins (2-2-10 m Rigid ceiling directly applie	,	xcept
Max H Max U Max G	e) 2=0-3-8, 11=0-3-8 Horz 2=-78(LC 34) Jplift 2=-1067(LC 8), 11=-1067(LC 9) Brav 2=3132(LC 1), 11=3132(LC 1)					
TOP CHORD 2-3=- 8-9=- BOT CHORD 2-21 16-17 WEBS 3-20= 6-17=	Comp./Max. Ten All forces 250 (lb) or -5656/1960, 3-4=-5364/1939, 4-5=-6056 -6056/2275, 9-10=-5364/1939, 10-11=-5 =-1764/4995, 20-21=-1764/4995, 18-20 7=-2133/6054, 14-16=-1592/4748, 13-14 =-253/190, 4-20=-216/779, 4-18=-792/18 =-505/273, 8-17=-294/654, 8-16=-1030/4 4=-253/191	/2275, 5-6=-6493/2396, 6- 656/1961 1671/4748, 17-18=-2174 1687/4995, 11-13=-168 359, 5-18=-1030/497, 5-17	/6054, 7/4995 =-293/654,			
 Wind: ASCE 7-16; V MWFRS (envelope) grip DOL=1.60 Provide adequate dr 4) This truss has been Provide mechanical 2=1067, 11=1067. This truss is designe referenced standard Graphical purlin repr Use Simpson Strong 3-6-0 from the left er Fill all nail holes whe 10) "NAILED" indicates In the LOAD CASE 	resentation does not depict the size or th g-Tie LUS24 (4-10d Girder, 2-10d Truss, nd to 31-6-0 to connect truss(es) to front ere hanger is in contact with lumber. s 3-10d (0.148"x3") or 3-12d (0.148"x3.2 E(S) section, loads applied to the face of	ph; TCDL=6.0psf; BCDL= exposed ; end vertical left e load nonconcurrent with g plate capable of withstai onal Residential Code sec ne orientation of the purlin Single Ply Girder) or equi face of bottom chord. 5") toe-nails per NDS guic	and right exposed; Lur any other live loads. nding 100 lb uplift at join tions R502.11.1 and R8 along the top and/or bo valent spaced at 20-0-0	nber DOL=1.60 plate nt(s) except (jt=lb) 02.10.2 and ttom chord.	ANDREW THOMAS THOMAS NOMBER PE-2017018993	A LINE A
LOAD CASE(S) Stand	dard				April 23,202	21

LOAD CASE(S) Standard Continued on page 2



Job	Truss	Truss Type	Qty	Ply	Summit/#9 Osage
					145804354
2755622	A23	Hip Girder	2	1	
					Job Reference (optional)
Builders FirstSource (Valley	Center), Valley Center, K	S - 67147,		8.430 s Ma	ar 22 2021 MiTek Industries, Inc. Fri Apr 23 09:16:56 2021 Page 2

ID:SlsJxd784vT_GMBLZatvrSzbhoN-UOAl8Pqh5EXFBIImQc?mKUsQKmMBGXMsU?056fzNteb

LOAD CASE(S) Standard

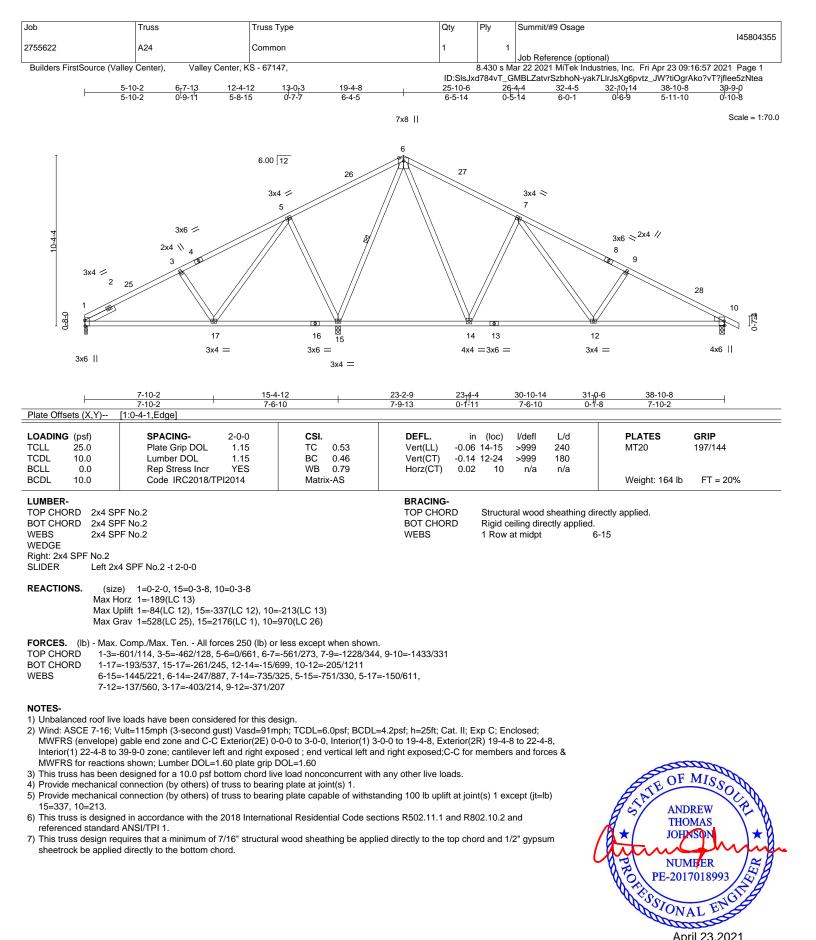
1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15

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) 34=-79(F) 35=-79(F) 35=-79(F) 36=-233(F) 37=-233(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)

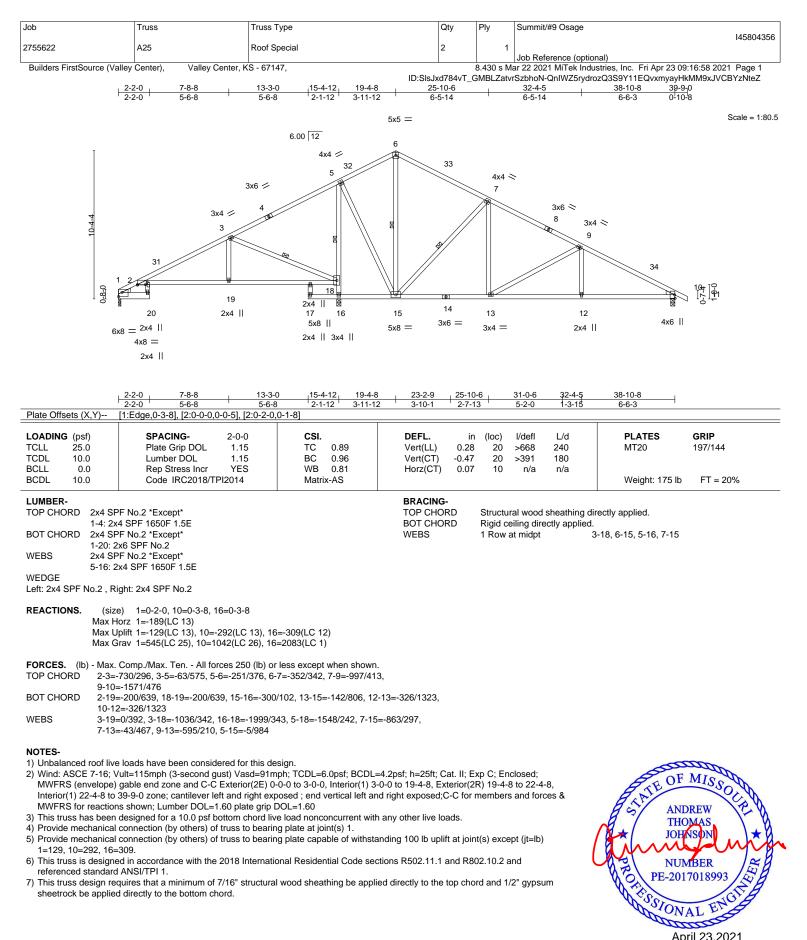








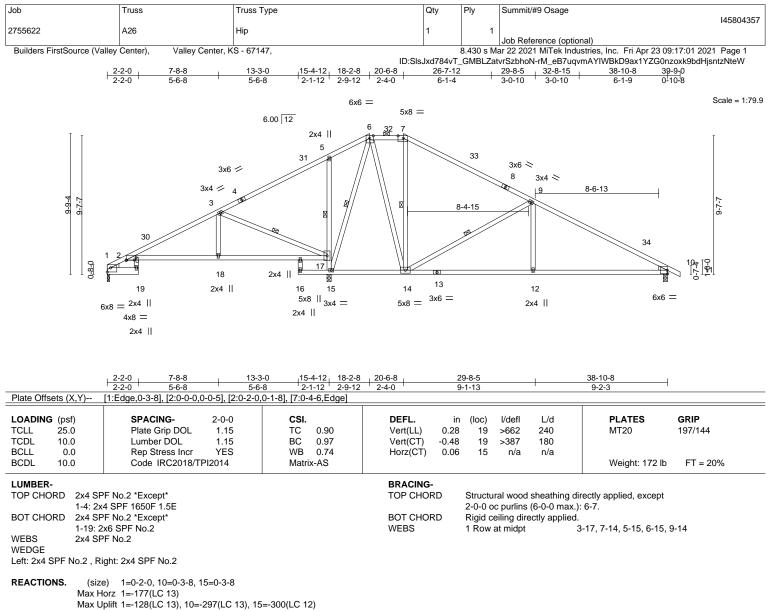
April 23,2021



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April 23,2021





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
- 3-18=0/393, 3-17=-1038/342, 7-14=-333/88, 15-17=-938/358, 5-17=-489/256, WFBS

 - 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.

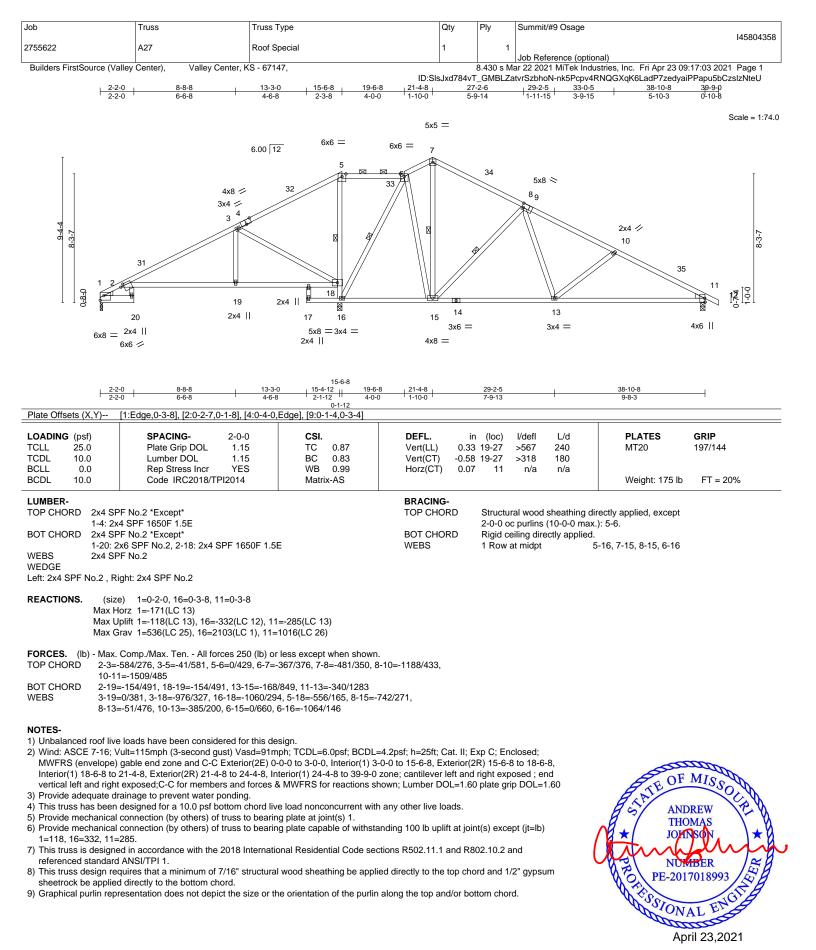
7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

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.

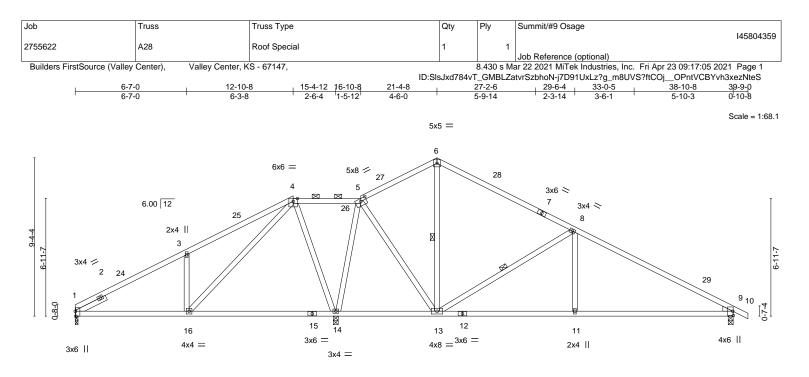
9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.









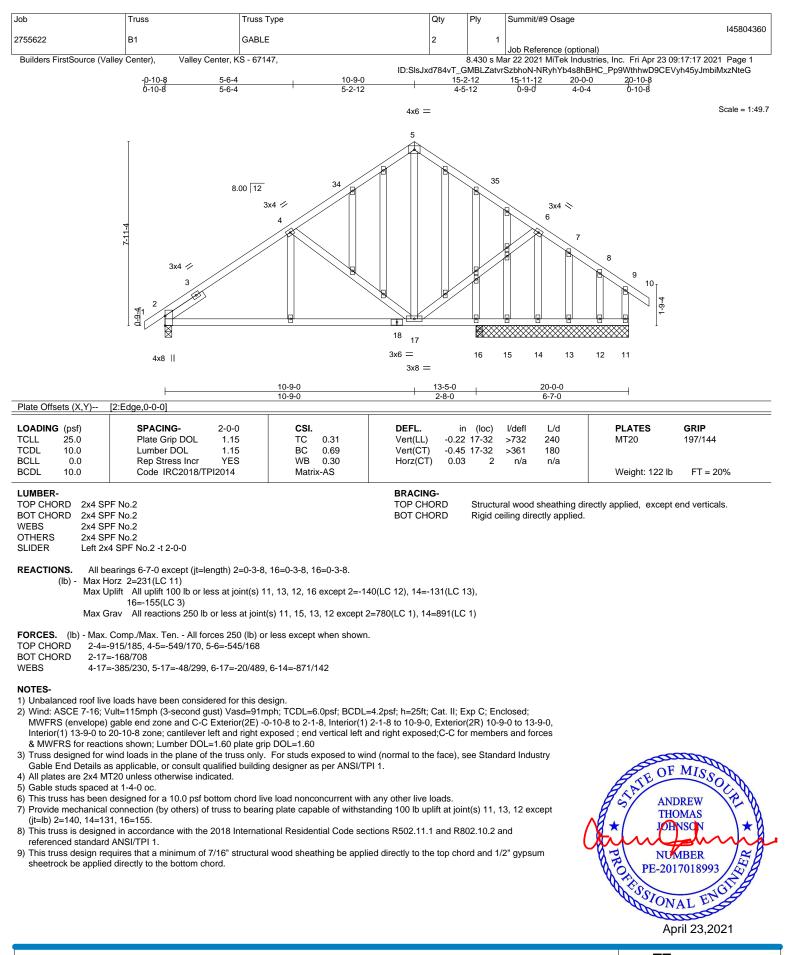


6-7-0 12-10-8 6-7-0 6-3-8	15-4-12 16-10-8 21-4-8 24-2-6 29-6-4 31-6-5 38-10-8 2-6-4 1-5-12 4-6-0 2-9-14 5-3-14 2-0-1 7-4-3									
Plate Offsets (X,Y) [1:0-3-8,Edge], [5:0-4-0,0-1-14]										
LOADING (psf) SPACING- 2-0-0 TCLL 25.0 Plate Grip DOL 1.15 TCDL 10.0 Lumber DOL 1.15 BCLL 0.0 Rep Stress Incr YES BCDL 10.0 Code IRC2018/TPI2014	CSI. DEFL. in (loc) l/defl L/d TC 0.77 Vert(LL) 0.13 11-23 >999 240 BC 0.65 Vert(CT) -0.29 11-23 >975 180 WB 0.93 Horz(CT) 0.01 1 n/a n/a Matrix-AS Weight: 162 lb FT = 20%									
LUMBER- TOP CHORD 2x4 SPF No.2 BOT CHORD 2x4 SPF No.2 BRACING- TOP CHORD 2x4 SPF No.2 WEBS 2x4 SPF No.2 TOP CHORD 2x4 SPF No.2 WEDGE Right: 2x4 SPF No.2 BOT CHORD Rigid ceiling directly applied. WEBS 1 Row at midpt 6-13, 8-13										
REACTIONS. (size) 1=0-2-0, 9=0-3-8, 14=0-3-8 Max Horz 1=-171(LC 13) Max Uplift 1=-122(LC 12), 9=-239(LC 13), 14=-309(LC 12) Max Grav 1=560(LC 25), 9=1001(LC 1), 14=2044(LC 1)										
FORCES. (lb) - Max. Comp./Max. Ten All forces 250 (lb) o TOP CHORD 1-3=-659/169, 3-4=-755/322, 4-5=0/400, 5-6 BOT CHORD 1-16=-216/583, 11-13=-180/1114, 9-11=-180 WEBS 3-16=-475/270, 5-14=-1152/216, 4-14=-817/ 8-13=-939/334, 8-11=0/377	=-419/275, 6-8=-502/240, 8-9=-1365/347 //1114									
 MWFRS (envelope) gable end zone and C-Č Exterior(2E) C, Interior(1) 15-10-8 to 21-4-8, Exterior(2R) 21-4-8 to 24-4-8 vertical left and right exposed;C-C for members and forces Provide adequate drainage to prevent water ponding. This truss has been designed for a 10.0 psf bottom chord li Provide mechanical connection (by others) of truss to beari 1=122, 9=239, 14=309. This truss is designed in accordance with the 2018 Internat referenced standard ANSI/TPI 1. 	hph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; -0-0 to 3-0-0, Interior(1) 3-0-0 to 12-10-8, Exterior(2R) 12-10-8 to 15-10-8, Interior(1) 24-4-8 to 39-9-0 zone; cantilever left and right exposed ; end & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60 re load nonconcurrent with any other live loads. ng plate at joint(s) 1. ng plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb)									

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

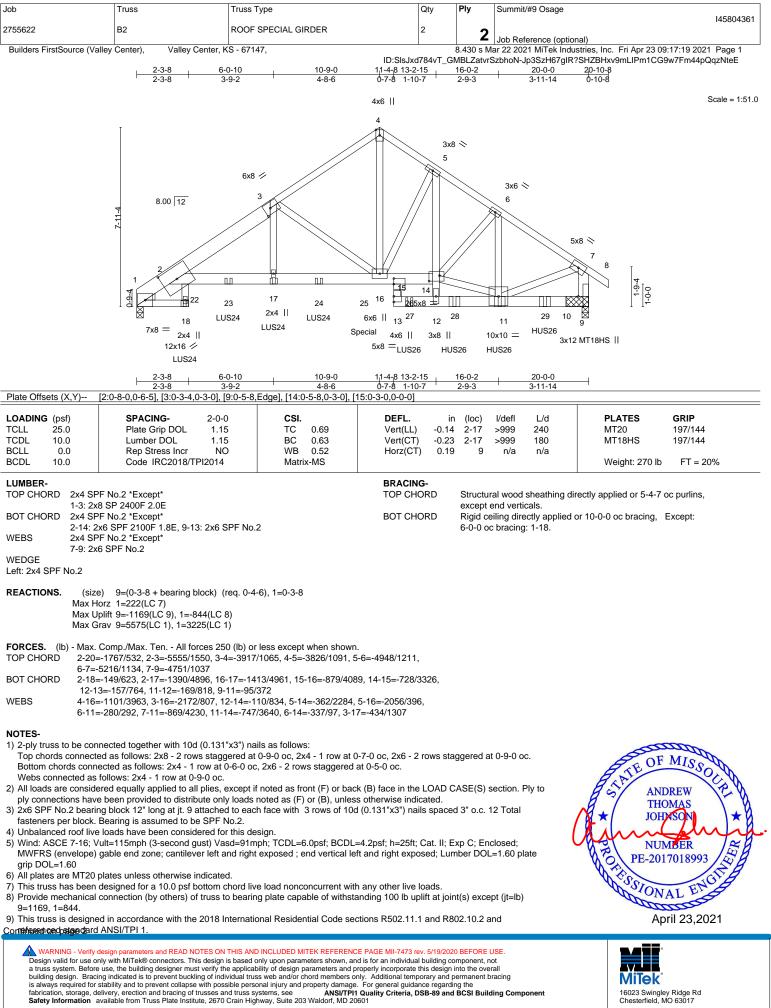


MiTek 16023 Swingley Ridge Rd Chesterfield, MO 63017



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16023 Swingley Ridge Rd Chesterfield, MO 63017



16023 Swingley Ridge Rd Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Summit/#9 Osage
	-				I45804361
2755622	B2	ROOF SPECIAL GIRDER	2	2	
				-	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 09:17:20 2021 Page 2

ID:SIsJxd784vT_GMBLZatvrSzbhoN-n0dqAd6IRcZs3R7OqeQOJYraWRYVuNNO?kqMyGzNteD

NOTES-

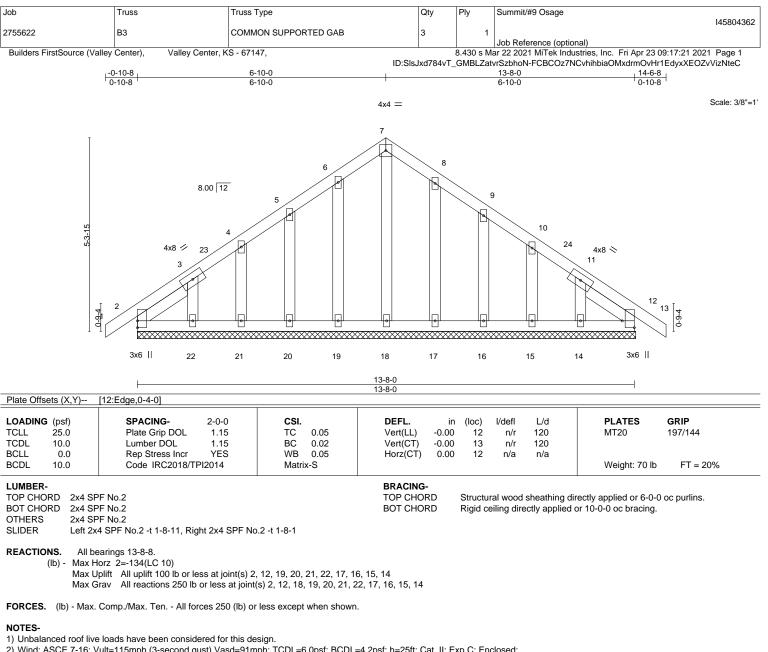
- 10) Use Simpson Strong-Tie LUS24 (4-10d Girder, 2-10d Truss, Single Ply Girder) or equivalent spaced at 2-0-0 oc max. starting at 2-1-12 from the left end to 8-0-12 to connect truss(es) to back face of bottom chord.
- 11) Use Simpson Strong-Tie LUS26 (4-10d Girder, 3-10d Truss, Single Ply Girder) or 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)



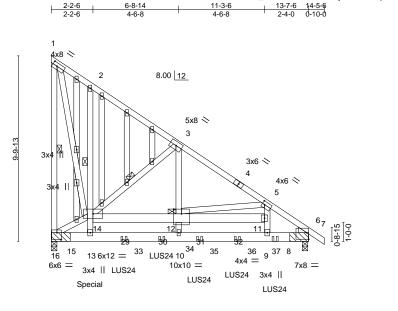


- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3E) -0-10-8 to 2-1-8, Exterior(2N) 2-1-8 to 6-10-0, Corner(3R) 6-10-0 to 9-10-0, Exterior(2N) 9-10-0 to 14-6-8 zone; cantilever left 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	Truss Type	Qtv	Plv	Summit/#9 Osage
				l í	145804363
2755622	B4	GABLE	1	1	
					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 09:17:22 2021 Page 1
		ID:SI	sJxd784v]	Г GMBLZa	atvrSzbhoN-jOlabl8?zDpZJIHmy3TsOzwzhFCuMGuhS2JT19zNteB



			ł	2-2-6	6-8-14	11-3-6		14 13-7-6			
				2-2-6	4-6-8	4-6-8	2-3-	<u>-8 0-0-8</u>			
Plate Offs	sets (X,Y)	[1:0-2-14,0-2-0], [5:0-1-8	,0-2-0], [6:Ed	ge,0-4-2], [12	:0-5-0,0-3-0], [1	6:0-2-12,0-4-4]					
LOADING	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	0.45	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/TF	PI2014	Matr	ix-MS					Weight: 135 lb	FT = 20%

	-				5
LUMBER-			BRACING-		
TOP CHORD	2x4 SP	PF No.2	TOP CHORD	Structural wood sheathing di	rectly applied or 3-3-9 oc purlins,
BOT CHORD	2x6 SP	PF 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 SP	PF No.2		6-0-0 oc bracing: 13-14, 2-14	4
OTHERS	2x4 SP	PF No.2	WEBS	1 Row at midpt	1-16, 3-14
WEDGE			JOINTS	1 Brace at Jt(s): 12	
Right: 2x4 SP	F 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.

11) Use Simpson Strong-Tie LUS24 (4-10d Girder, 2-10d Truss, Single Ply Girder) or equivalent spaced at 2-0-0 oc max. starting at 5-10-2 from the left end to 11-10-2 to connect truss(es) to back face of bottom chord.
 Ocitificational paipages where hanger is in contact with lumber.

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Scale = 1:61.0



Job	Truss	Truss Type	Qty	Ply	Summit/#9 Osage
	- /				145804363
2755622	B4	GABLE	1	1	
					Job Reference (optional)
Builders FirstSource (Valley	Center), Valley Center, K	S - 67147,		8.430 s Ma	ar 22 2021 MiTek Industries, Inc. Fri Apr 23 09:17:23 2021 Page 2
		ID:SIs	Jxd784vT	_GMBLZa	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

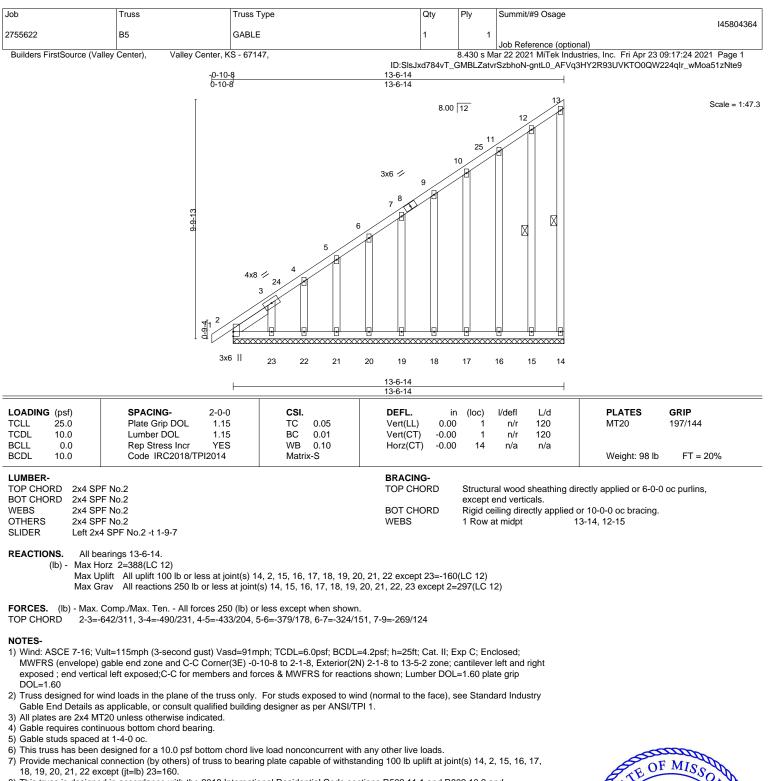
Uniform Loads (plf)

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)

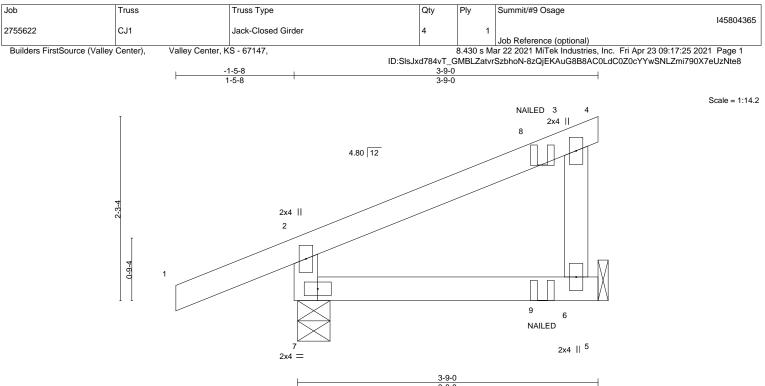




 This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



16023 Swingley Ridge Rd Chesterfield, MO 63017



				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%	

LUMBER-

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

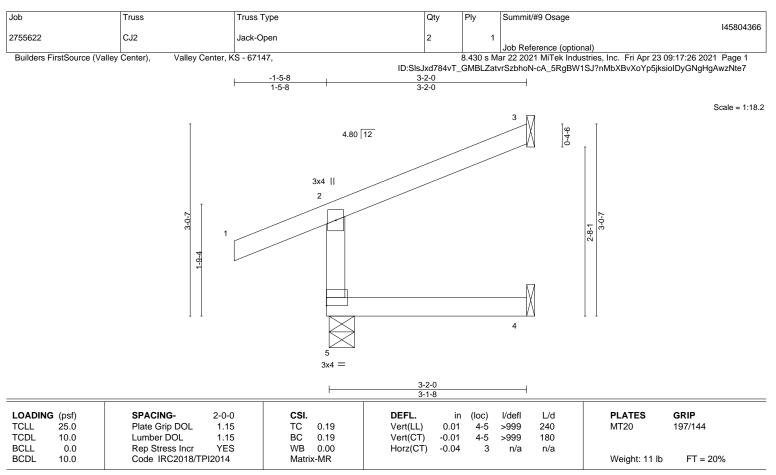
1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15

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)







LUMBER-

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)

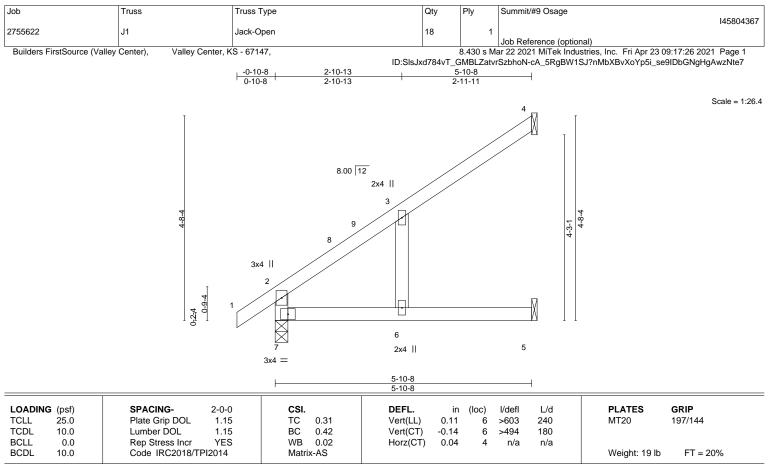
FORCES. (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) or less except when shown.

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.







LUMBER-

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

BRACING-TOP CHORD BOT CHORD

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

REACTIONS. (size) 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-

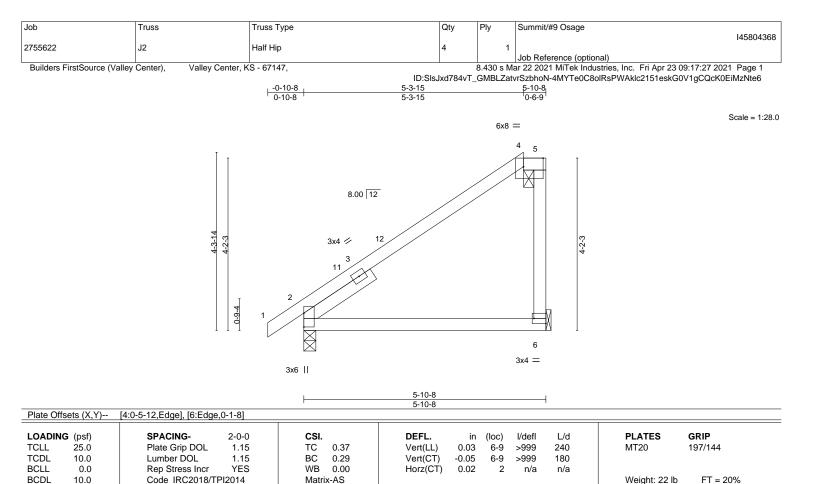
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 5-9-12 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for 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.

NOTES-

LUMBER-

WEBS

SLIDER

BOT CHORD

REACTIONS.

TOP CHORD 2x4 SPF No.2

2x4 SPF No.2

2x4 SPF No.2

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

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)

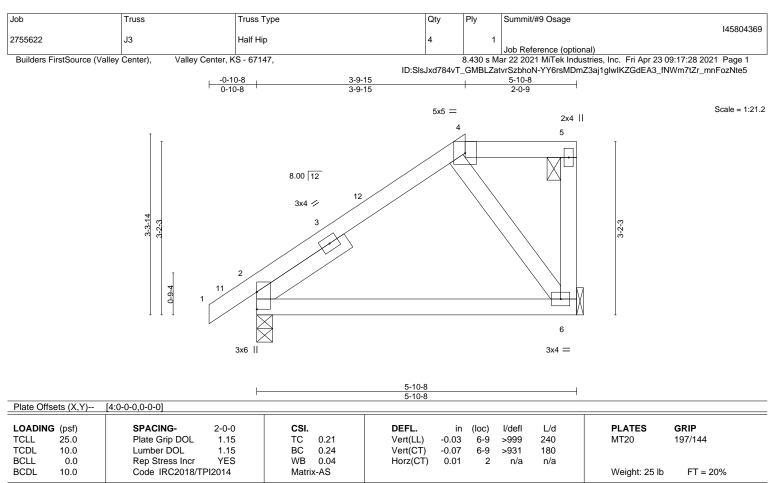
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

- 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.
- 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





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

 D Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins: 4-5.
 D 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)

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

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-

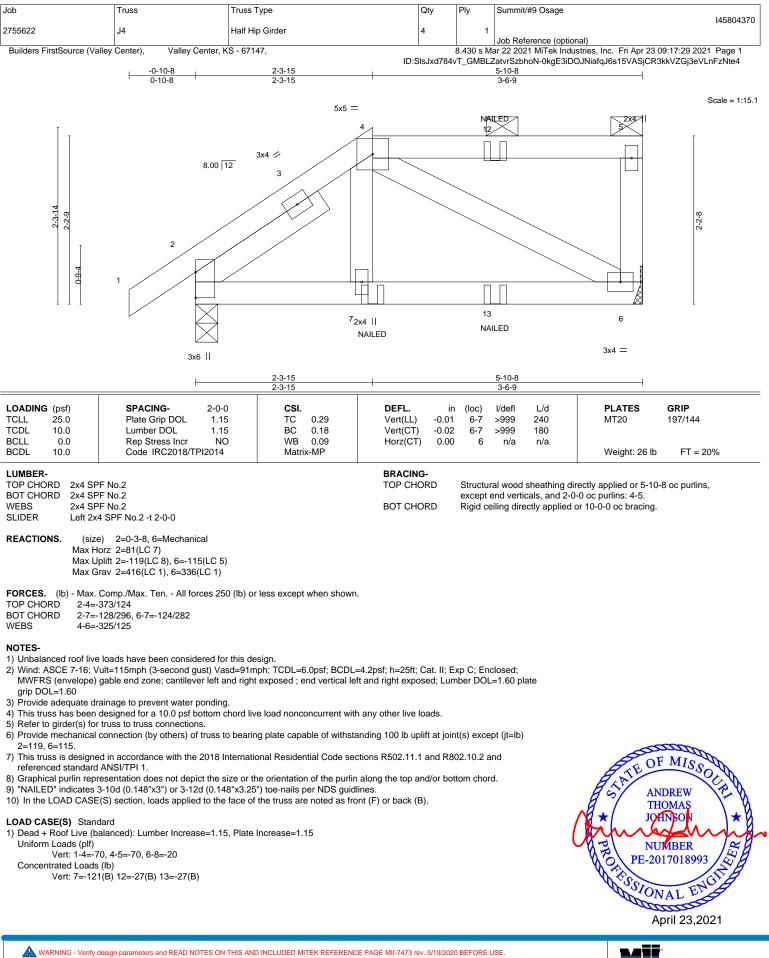
SLIDER

- 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.



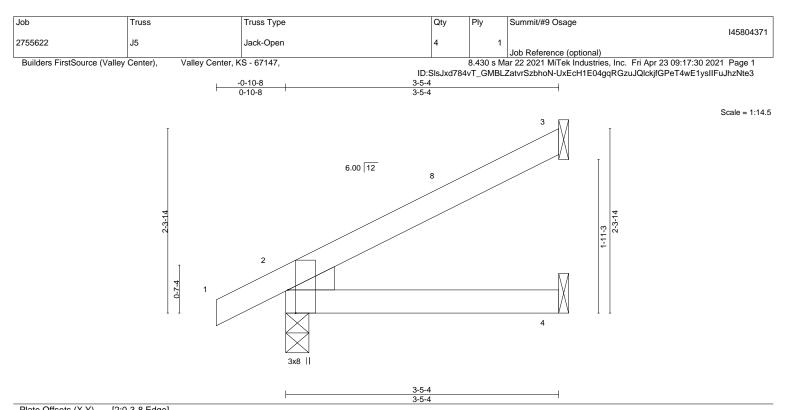


¹⁾ Unbalanced roof live loads have been considered for this design.



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



	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%

BRACING-

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=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.

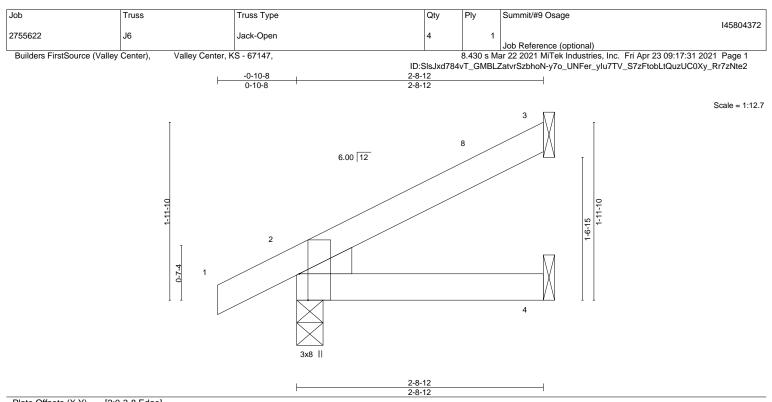
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 2, 4.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



Structural wood sheathing directly applied or 3-5-4 oc purlins.

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





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 0.07	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	
BCDL 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.

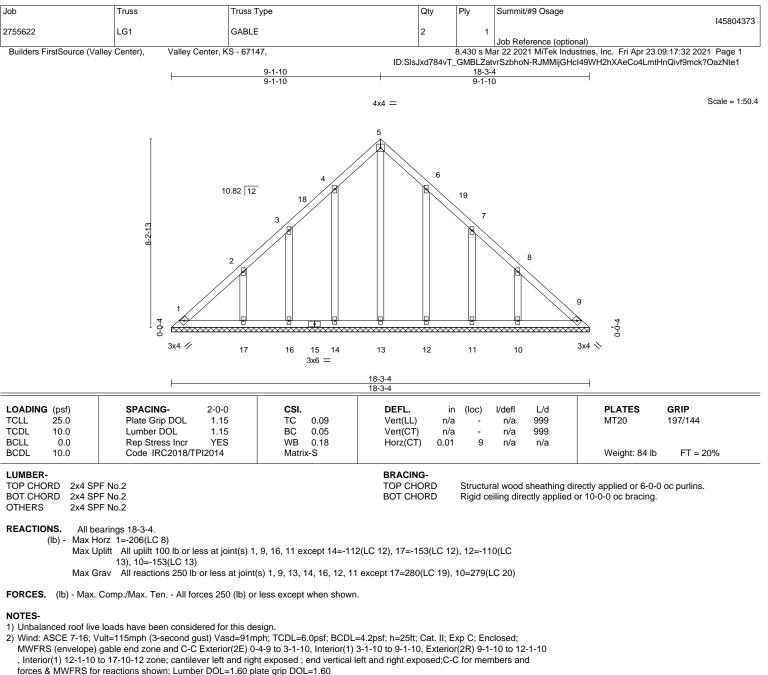
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 2, 4.
- 5) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



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

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





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

All plates are 2x4 wir20 unless otherwise indicate
 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.







ID:SIsJxd784vT_GMBLZatvrSzbhoN-vWvkv3HvNbC?7Rdt5t9RKIuyHg7wRMpI_GTYw0zNte0

16-2-3 16-2-3 4 6 0-0-2 3x4 =3-8-7 10 10.82 12 11 X 5x5 🥢 Ø 12 X 13 14 15 16



Plate Offsets (X,Y)	[11:0-2-8,0-0-4]		10-2-3			
LOADING (psf) ICLL 25.0 ICDL 10.0 BCLL 0.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES	CSI. TC 0.05 BC 0.03 WB 0.12		c) l/defl L/d - n/a 999 - n/a 999 0 n/a n/a	PLATES MT20	GRIP 197/144
3CDL 10.0	Code IRC2018/TPI2014	Matrix-S			Weight: 113 lb	FT = 20%
SOT CHORD 2x4 SI	PF No.2 PF No.2 PF No.2 PF No.2		BOT CHORD Rigid	0 oc purlins (6-0-0 max.): 1 d ceiling directly applied or ow at midpt 1-1	· · · ·	als.

OTHERS 2x4 SPF No.2

REACTIONS. All bearings 16-2-3.

- 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

14-3-3

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 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.

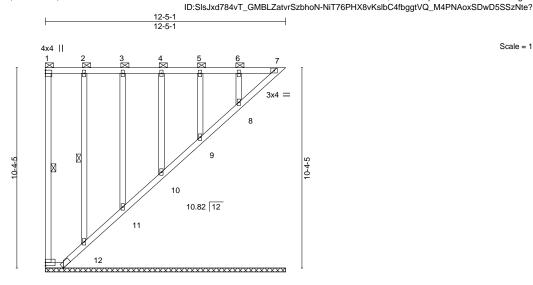


Scale: 3/16"=1'



Job	Truss	Truss Type	Qty	Ply	Summit/#9 Osage
2755622	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,



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

<u>0-11-2</u>

12-5-1

	L.	F11-Z	11-5-14			
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in	(loc) l/defl L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL 1.15	TC 0.60	Vert(LL) n/a	- n/a 999	MT20	197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.27	Vert(CT) n/a	- n/a 999)	
BCLL 0.0	Rep Stress Incr YES	WB 0.13	Horz(CT) 0.01	7 n/a n/a	L .	
BCDL 10.0	Code IRC2018/TPI2014	Matrix-S			Weight: 73 lb	FT = 20%
LUMBER-			BRACING-			

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

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.

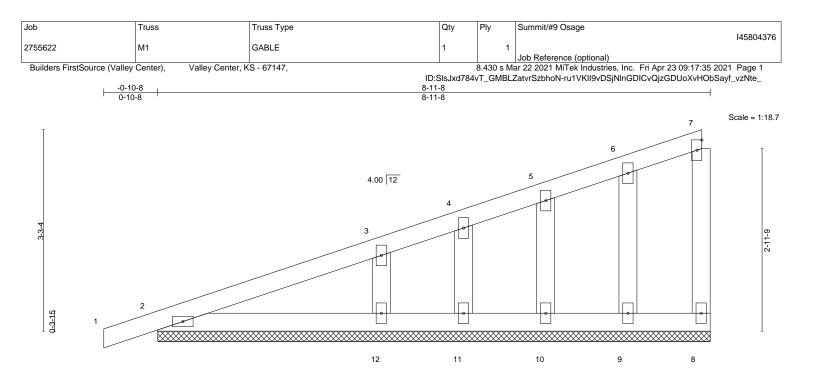
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

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.



MiTek 16023 Swingley Ridge Rd Chesterfield, MO 63017 Scale = 1:59.6



	1	1					1	
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. ir	n (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%
LUMBER-	-		BRACING-				1	
TOP CHORD 2x4 S	PF No.2		TOP CHORD	Structu	ral wood	sheathing di	rectly applied or 6-0-0	oc purlins,
BOT CHORD 2x4 S	PF No.2			except	end verti	cals.		
WEBS 2x4 S	PF No.2		BOT CHORD	Rigid co	eiling dire	ectly applied	or 10-0-0 oc bracing.	
OTHERS 2x4 S	PF No.2							

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

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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.

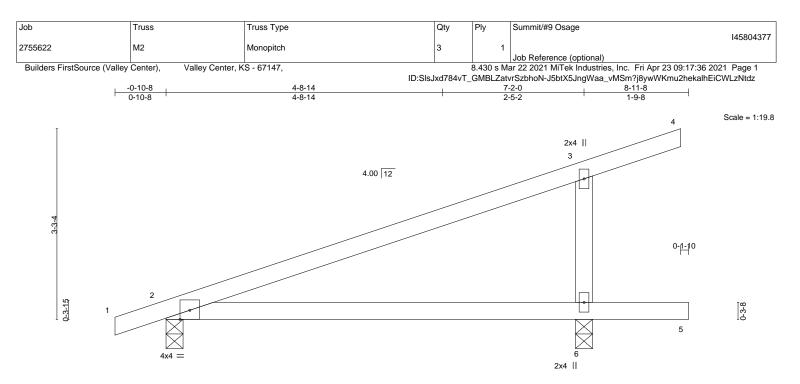
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

7) 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.
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.







		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)

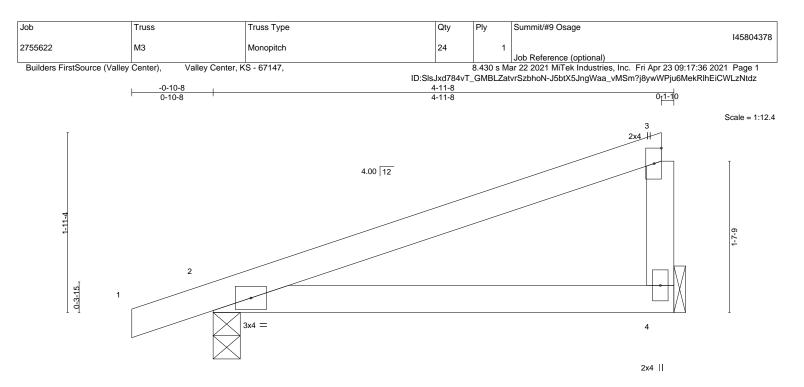
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. WEBS 3-6=-356/306

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.







				4-11-6	-					
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.

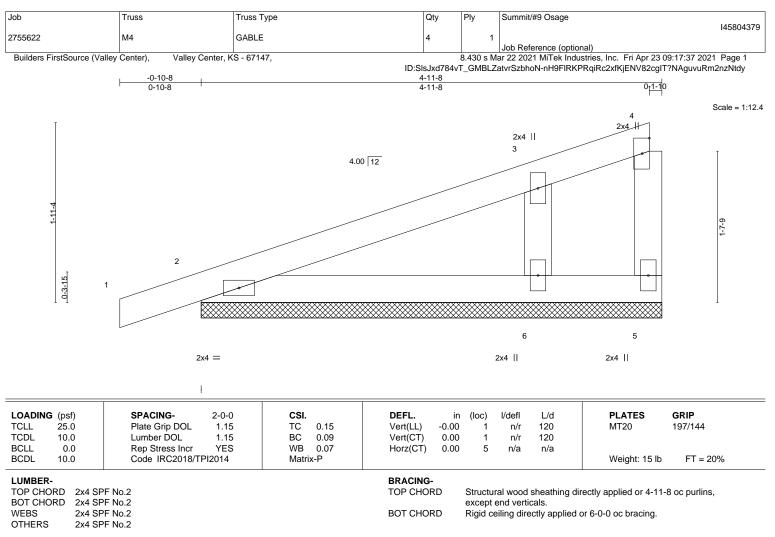


WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use,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

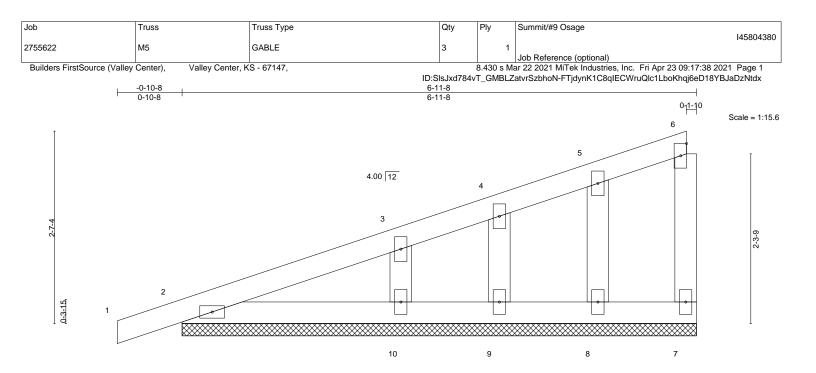
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

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				
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/TPI2014	Matrix-P			Weight: 24 lb	FT = 20%
LUMBER-			BRACING-			
	PF No.2 PF No.2		TOP CHORD	Structural wood sh except end vertica	neathing directly applied or 6-0- als.	0 oc purlins,
	PF No.2 PF No.2		BOT CHORD		tly applied 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.

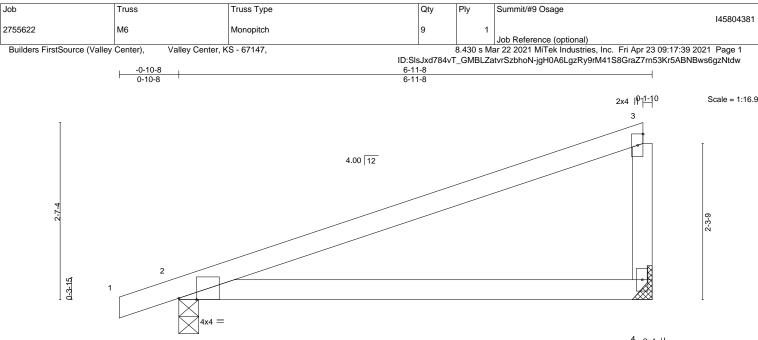
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 7, 2, 8, 9, 10.

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 ||

ate Offsets (X,Y)	[2:0-3-2,Edge]		6-11-8				
OADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in	(loc) I/d	defl L/d	PLATES	GRIP
CLL 25.0	Plate Grip DOL 1.15	TC 0.62	Vert(LL) 0.12	4-7 >6	663 240	MT20	197/144
CDL 10.0	Lumber DOL 1.15	BC 0.48	Vert(CT) -0.23	4-7 >3	361 180		
CLL 0.0	Rep Stress Incr YES	WB 0.00	Horz(CT) 0.00	2	n/a n/a		
CDL 10.0	Code IRC2018/TPI2014	Matrix-AS				Weight: 20 lb	FT = 20%

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.

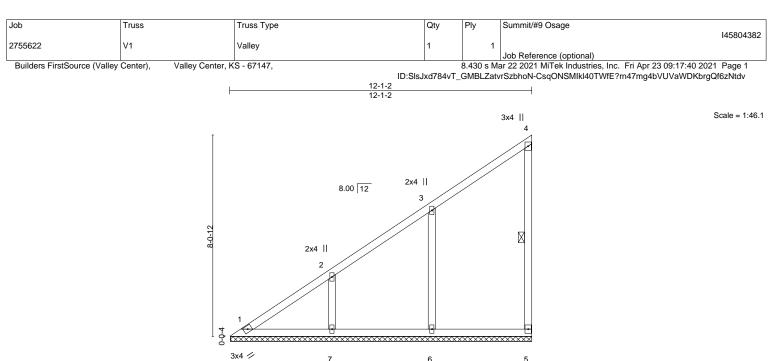
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4 except (jt=lb) 2=102.

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 (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 0.36 BC 0.16 WB 0.14 Matrix-S	DEFL. i Vert(LL) n/ Vert(CT) n/ Horz(CT) -0.0	a -	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20 Weight: 46 lb	GRIP 197/144 FT = 20%
BOT CHORD 2x4 WEBS 2x4	SPF No.2 SPF No.2 SPF No.2 SPF No.2		BRACING- TOP CHORD BOT CHORD WEBS	except e Rigid ce	end vertic	cals.	rectly applied or 6-0-0 or 10-0-0 oc bracing. 1-5	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.

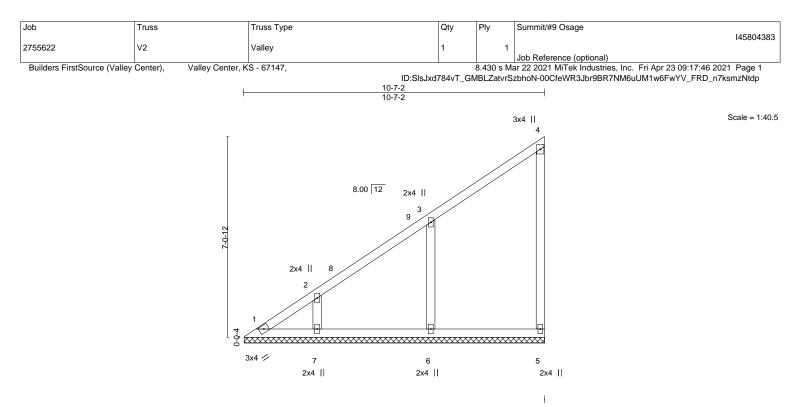
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

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 BCDL 10.0	SPACING-2-0-0Plate Grip DOL1.15Lumber DOL1.15Rep Stress IncrYESCode IRC2018/TPI2014	CSI. TC 0.29 BC 0.13 WB 0.09 Matrix-S	DEFL. Vert(LL) Vert(CT) Horz(CT)	in n/a n/a -0.00	(loc) - - 5	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20 Weight: 39 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
BOT CHORD	2x4 SPF No
WEBS	2x4 SPF No

.2 .2 OTHERS 2x4 SPF No.2

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. (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) 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.

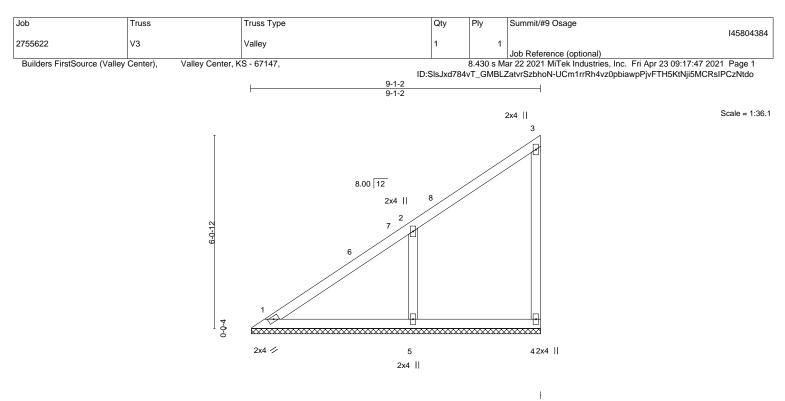
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

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)	SPACING- 2-0-0	CSI.	DEFL. in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL 1.15	TC 0.28	Vert(LL) n/a	-	n/a	999	MT20	197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.15	Vert(CT) n/a	-	n/a	999		
BCLL 0.0	Rep Stress Incr YES	WB 0.07	Horz(CT) -0.00	4	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014	Matrix-S	· · /				Weight: 32 lb	FT = 20%

BOT CHORD

except end verticals.

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

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. 1-2=-333/236

TOP CHORD

WEBS 2-5=-377/276

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 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.

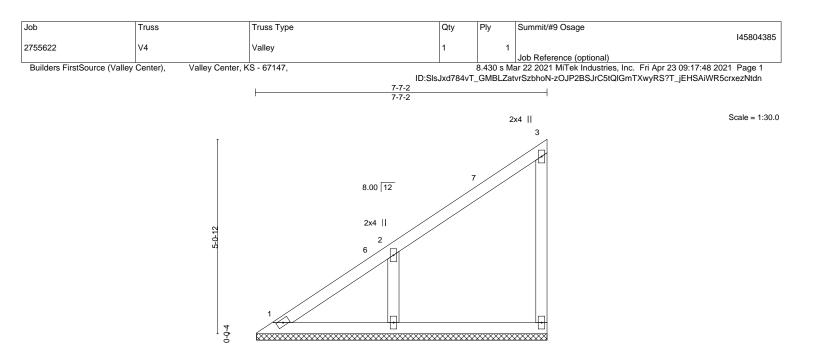
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

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 = 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.







5 2x4 ||

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

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

25.0

10.0

0.0

10.0

LOADING (psf)

TCLL

TCDL

BCLL

BCDL

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

TOP CHORD 1-2=-313/216

WEBS 2-5=-322/259

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 3-7-2, 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.

2x4 💋

CSI.

тс

BC

WB

Matrix-P

0.21

0.10

0.05

2-0-0

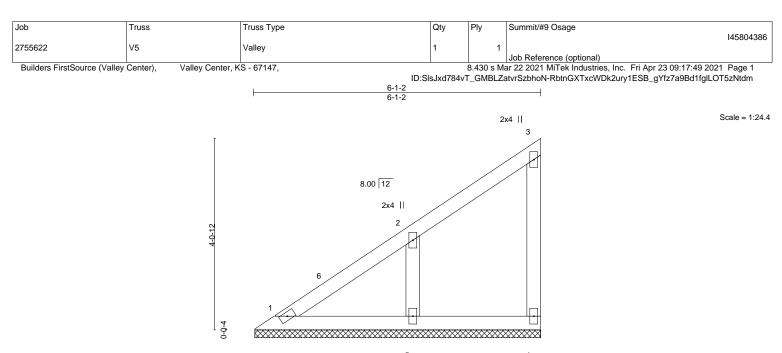
1.15

1.15

YES







5 2x4 ||

2x4 ||

LOADING (psf) TCLL 25.0 TCDL 10.0	SPACING- Plate Grip DOL Lumber DOL	2-0-0 CSI . 1.15 TC 1.15 BC	0.13 0.06	DEFL. Vert(LL) Vert(CT)	in n/a n/a	(loc) - -	l/defl n/a n/a	L/d 999 999	PLATES MT20	GRIP 197/144
BCLL 0.0 BCDL 10.0	Rep Stress Incr Code IRC2018/TP	YES WB I2014 Matr	0.04 ix-P	Horz(CT)	0.00	4	n/a	n/a	Weight: 20 lb	FT = 20%
LUMBER-				BRACING-						
	SPF No.2 SPF No.2			TOP CHOR			ral wood end verti		ectly applied or 6-0-0	oc purlins,
	SPF No.2 SPF No.2			BOT CHOR	D	Rigid ce	eiling dire	ectly applied o	or 10-0-0 oc bracing.	

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

TOP CHORD 1-2=-255/175

WEBS 2-5=-251/230

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 3-4-10, 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.

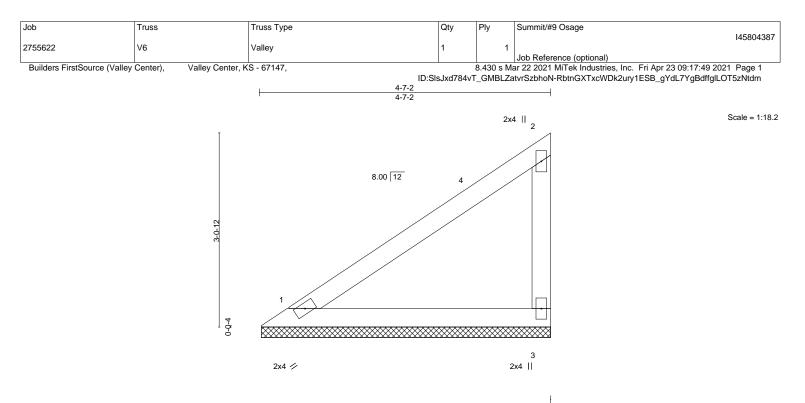
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

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 CHORD2x4 SPF No.2WEBS2x4 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(LC 12) Max Grav 1=179(LC 1), 3=192(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) 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.

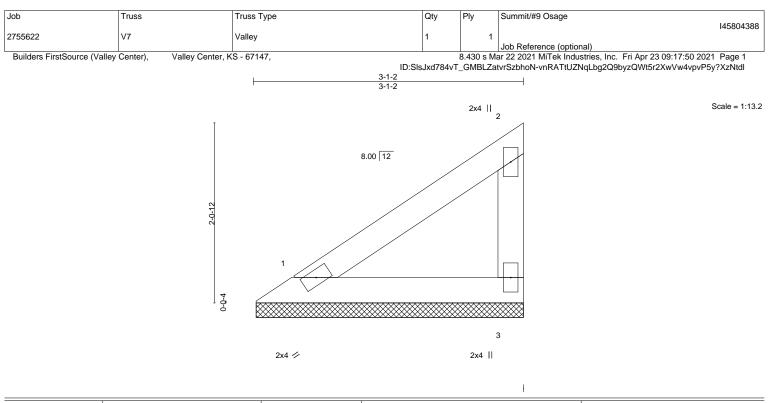


Structural wood sheathing directly applied or 4-7-2 oc purlins,

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

except end verticals.





LOADING (psf) TCLL 25.0 TCDL 10.0 BCLL 0.0 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 0.11 BC 0.06 WB 0.00 Matrix-P	DEFL. in (loc) l/defl L/d Vert(LL) n/a - n/a 999 Vert(CT) n/a - n/a 999 Vert(CT) 0/a - n/a 999 Horz(CT) 0.00 3 n/a n/a	PLATES GRIP MT20 197/144 Weight: 9 lb FT = 20%
LUMBER-			BRACING-	

TOP CHORD

BOT CHORD

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.

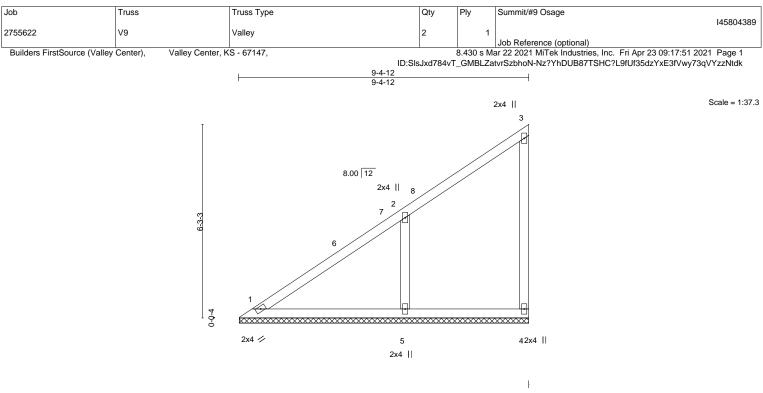
OF MISSO ATE ANDREW THOMAS JOHNSO NUMBER ro, PE-2017018993 HESSIONAL E April 23,2021

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 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 0.31 BC 0.16 WB 0.08 Matrix-S	DEFL. i Vert(LL) n/ Vert(CT) n/ Horz(CT) -0.0	a -	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20 Weight: 33 lb	GRIP 197/144 FT = 20%
	2F No.2 2F No.2		BRACING- TOP CHORD		ral wood end verti		rectly applied or 6-0-0) oc purlins,

BOT CHORD

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

BOT CHORD 2x4 SPF No.2 2x4 SPF No.2 WEBS 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. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. 1-2=-339/242

TOP CHORD WEBS 2-5=-393/281

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 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.

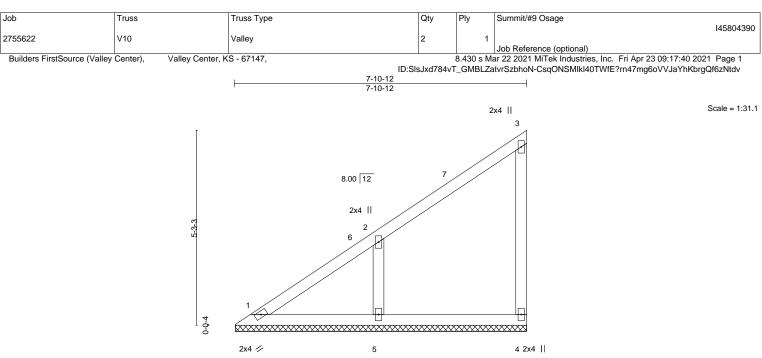
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

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 = 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 ||

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LOADING(psf)TCLL25.0TCDL10.0BCLL0.0BCDL10.0	SPACING-2-0-0Plate Grip DOL1.15Lumber DOL1.15Rep Stress IncrYESCodeIRC2018/TPI2014	CSI. TC 0.22 BC 0.11 WB 0.05 Matrix-P	DEFL. ir Vert(LL) n/a Vert(CT) n/a Horz(CT) -0.00	a - n/a a - n/a	L/d 999 999 n/a	PLATES GRIP MT20 197/144 Weight: 27 lb FT = 20%
BOT CHORD 2> WEBS 2>	4 SPF No.2 4 SPF No.2 4 SPF No.2 4 SPF No.2		BRACING- TOP CHORD BOT CHORD	except end ve	ticals.	rectly applied or 6-0-0 oc purlins, or 10-0-0 oc bracing.

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.

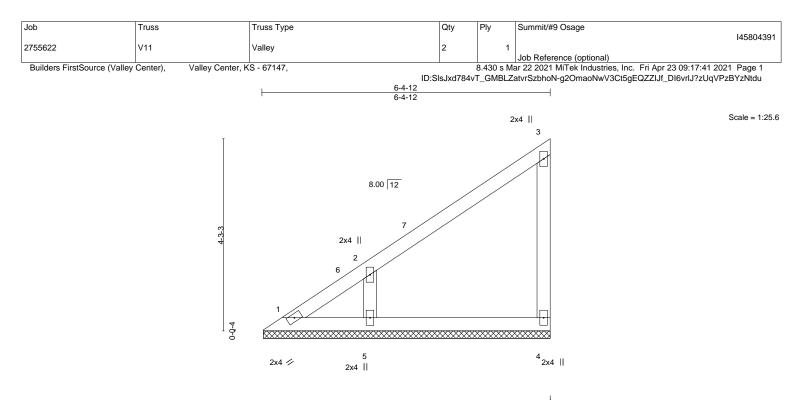
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

 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 IncrYESCodeIRC2018/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 CHOF		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

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)

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

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.

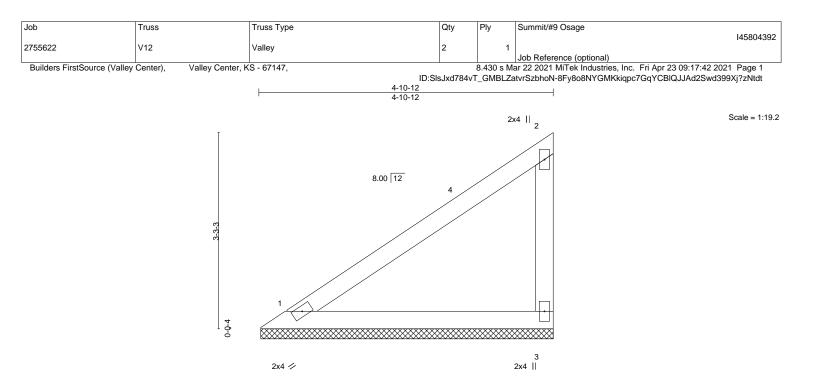
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

 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	тс	0.35	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC	0.19	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/TP	12014	Matrix	ĸ-P						Weight: 15 lb	FT = 20%

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

BOT CHORD

Structural wood sheathing directly applied or 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-

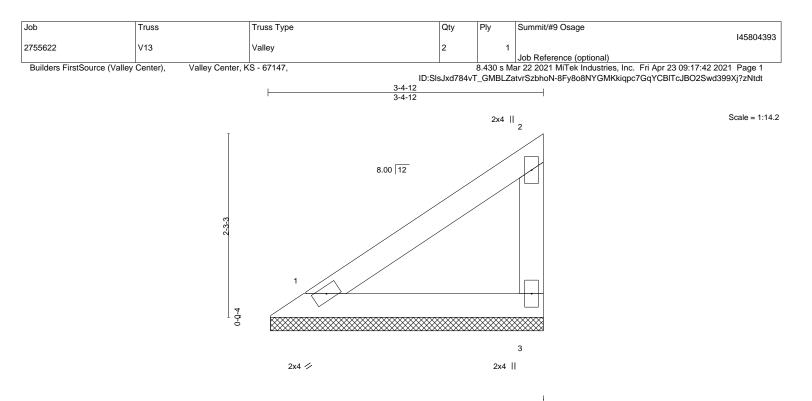
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-5-12 to 3-5-12, Interior(1) 3-5-12 to 4-9-0 zone; cantilever left and right exposed ; end vertical left and right exposed; C-C 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 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 0.14 BC 0.07 WB 0.00 Matrix-P	DEFL. Vert(LL) Vert(CT) Horz(CT)	in (loc) n/a - n/a - 0.00 3	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES GRIP MT20 197/144 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.

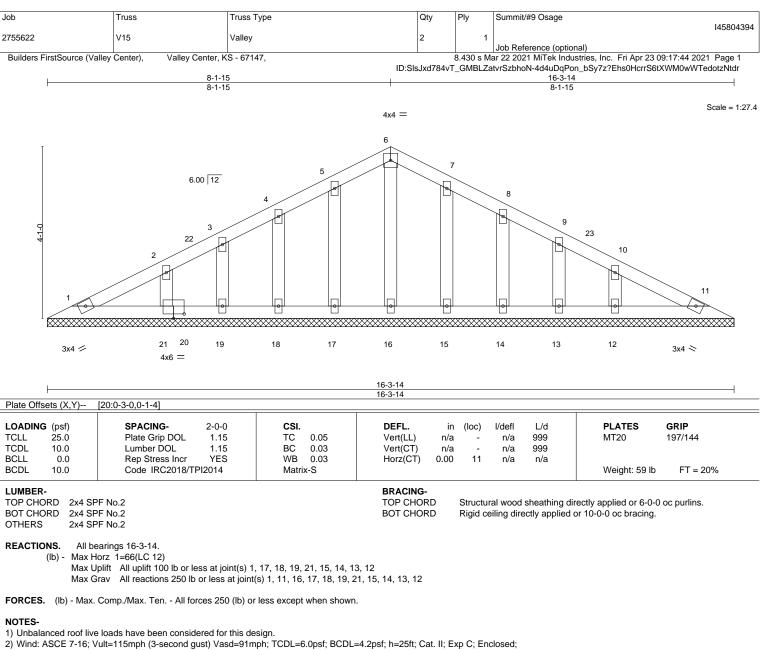
ANDREW THOMAS JOHNSON NUMBER PE-2017018993

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

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

except end verticals.

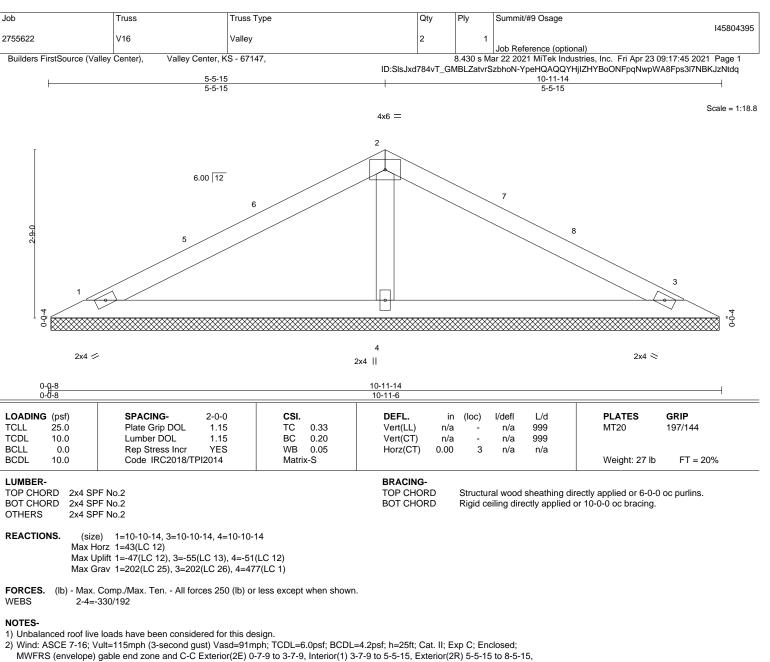




- MWFRS (envelope) gable end zone and C-C Corner(3E) 0-7-7 to 3-7-7, Exterior(2N) 3-7-7 to 8-1-15, Corner(3R) 8-1-15 to 11-1-15, Exterior(2N) 11-1-15 to 15-8-8 zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber 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.

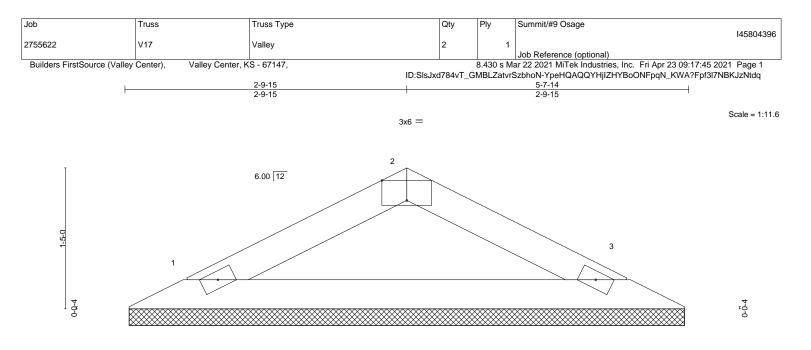
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3, 4.

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.







2x4 💋

2x4 📚

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

late Offsets (X,Y)	[2:0-3-0,Edge]	1	-	
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.





