

RE: Lot 27 OS Lot 27 OS

Site Information:

Customer: Project Name: Lot 27 OS Lot/Block: Address: City:

Model: Subdivision: State:

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

No.

21

22

23

Seal#

145424730

145424731

145424732

Design Code: IRC2018/TPI2014 Wind Code: ASCE 7 - 16[Low Rise] Roof Load: 45.0 psf Design Program: MiTek 20/20 8.4 Wind Speed: 115 mph Floor Load: N/A psf

This package includes 23 individual, dated Truss Design Drawings and 0 Additional Drawings.

	a		
No.	Seal#	Truss Name	Date
1	l45424710	B1	3/31/2021
2	145424711	B2	3/31/2021
3	145424712	B3	3/31/2021
4	145424713	B4	3/31/2021
5	145424714	B5	3/31/2021
6	145424715	B6	3/31/2021
7	145424716	C1	3/31/2021
8	145424717	C2	3/31/2021
9	145424718	C3	3/31/2021
10	145424719	C4	3/31/2021
11	145424720	C5	3/31/2021
12	145424721	D1	3/31/2021
13	145424722	D2	3/31/2021
14	145424723	D3	3/31/2021
15	145424724	D4	3/31/2021
16	145424725	D5	3/31/2021
17	145424726	D6	3/31/2021
18	145424727	D7	3/31/2021
19	145424728	D8	3/31/2021
20	145424729	V1	3/31/2021

The truss drawing(s) referenced above have been prepared by MiTek USA, Inc under my direct supervision

based on the parameters provided by Wheeler - Waverly.

Truss Design Engineer's Name: Sevier, Scott

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.



Sevier, Scott

Truss Name

V2

V3

V4



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

Date

3/31/2021

3/31/2021

3/31/2021

Job	Truss	Truss Type	Qty	Ply	Lot 27 OS	
Lot 27 OS	B1	GABLE	1	1	Job Reference (optional)	145424710

6-0-0

6-0-0

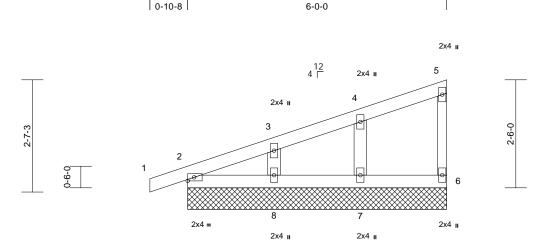
-0-10-8

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.43 S Mar 22 2021 Print: 8.430 S Mar 22 2021 MiTek Industries, Inc. Tue Mar 30 12:58:39 ID:hquPfxpp0CdNHWhMuPizeLzNEki-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1





0.00		1 00 7
Scale	=	1:26.7

		i											
Loading	(psf)	Spacing	2-0-0		csi		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15		TC	0.05	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15		BC	0.03	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES		WB	0.02	Horz(CT)	0.00	6	n/a	n/a		
BCDL	10.0	Code	IRC2018	3/TPI2014	Matrix-P							Weight: 19 lb	FT = 10%
	Max Horiz 2=98 (LC Max Uplift 2=-39 (LC (LC 4), 8= Max Grav 2=150 (LC (LC 1), 8=	cept end verticals. applied or 10-0-0 oc 5) 2 4), 6=-11 (LC 5), 7= -48 (LC 8) C 1), 6=67 (LC 1), 7= -179 (LC 1)	⁶⁻⁰⁻⁰ LC	on the bottom 3-06-00 tall b chord and an Provide meci bearing plate 6, 39 lb uplift uplift at joint This truss is International	designed in acco Residential Code nd referenced sta	as where will fit betw s. on (by oth standing 1 uplift at joi ordance w e sections	a rectangle veen the botto ers) of truss t 1 lb uplift at j nt 8 and 48 lk ith the 2018 i R502.11.1 a	o o oint o					
FORCES	(lb) - Maximum Com Tension	pression/Maximum											
TOP CHORD	1-2=0/6, 2-3=-78/27 5-6=-52/20	, 3-4=-55/23, 4-5=-48	3/16,										
BOT CHORD WEBS	2-8=-31/23, 7-8=-31 3-8=-134/74, 4-7=-1	,											
NOTES													
Vasd=91m II; Exp C; E cantilever I	E 7-16; Vult=115mph ph; TCDL=6.0psf; BC Enclosed; MWFRS (er left and right exposed sed; Lumber DOL=1.6	DL=6.0psf; h=25ft; C velope) exterior zon ; end vertical left and	e; I								A	STATE OF M	MISSOLAN

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.

Gable studs spaced at 2-0-0 oc. 4)

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



SEVIER

NUMBER

PE-2001018807

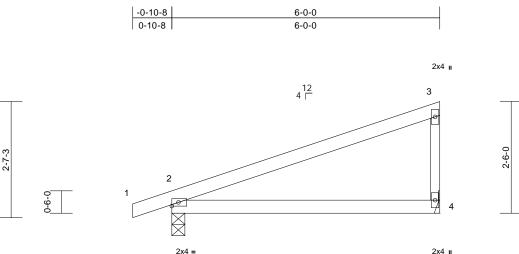
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March 31,2021

NOFESSIONAL

Job	Truss	Truss Type	Qty	Ply	Lot 27 OS	
Lot 27 OS	B2	Monopitch	5	1	Job Reference (optional)	145424711

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6-0-0

		i		1								
Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.61	Vert(LL)	-0.07	2-4	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.35	Vert(CT)	-0.13	2-4	>526	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 17 lb	FT = 10%

LUMBER

Scale - 1.25.8

TOP CHORD	2x4 SPF No.2
BOT CHORD	2x4 SPF No.2
WEBS	2x3 SPF No.2

TOP CHORD		wood sheathing directly applied or
BOT CHORD		ourlins, except end verticals.
	bracing.	
REACTIONS	(size)	2=0-3-8, 4= Mechanical

	Max Horiz	2=98 (LC 5)			
	Max Uplift	2=-88 (LC 4), 4=-55 (LC 8)			
	Max Grav	2=337 (LC 1), 4=252 (LC 1)			
FORCES	(lb) - Maximum Compression/Maximun				
	Tension				

TOP CHORD	1-2=0/6, 2-3=-87/55, 3-4=-195/89
BOT CHORD	2-4=-31/23

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior 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.
- This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 55 lb uplift at joint 4 and 88 lb uplift at joint 2.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard





Job	Truss	Truss Type	Qty	Ply	Lot 27 OS	
Lot 27 OS	B3	Monopitch	5	1	Job Reference (optional)	145424712

-0-10-8

0-10-8

Wheeler Lumber, Waverly, KS - 66871,

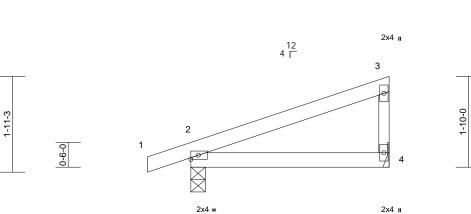
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4-0-0

4-0-0

4-0-0





Scolo	1	:23.2

Scale = 1:23.2												
Loading TCLL (roof) TCDL BCLL BCDL	(psf) 25.0 10.0 0.0* 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 YES IRC2018/TPI2014	CSI TC BC WB Matrix-P	0.22 0.14 0.00	DEFL Vert(LL) Vert(CT) Horz(CT)	in -0.01 -0.02 0.00	(loc) 2-4 2-4 4	l/defl >999 >999 n/a	L/d 360 240 n/a	PLATES MT20 Weight: 12 lb	GRIP 197/144 FT = 10%
BCDL LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD BOT CHORD BOT CHORD BOT CHORD BOT CHORD BOT CHORD NOTES 1) Wind: ASC Vasd=91m I; Exp C; F cantilever 1 right expos 2) This truss b chord live 1	10.0 2x4 SPF No.2 2x3 SPF No.2 2x3 SPF No.2 Structural wood shead 4-0-0 oc purlins, exit Rigid ceiling directly bracing. (size) 2=0-3-8, 4 Max Horiz 2=69 (LC Max Horiz 2=69 (LC Max Uplift 2=-75 (LC Max Grav 2=250 (LC (Ib) - Maximum Comm Tension 1-2=0/6, 2-3=-69/35, 2-4=-21/16 SE 7-16; Vult=115mph ph; TCDL=6.0psf; BC Enclosed; MWFRS (er eft and right exposed bas been designed for oad nonconcurrent wi	Code athing directly applie cept end verticals. applied or 10-0-0 or 4= Mechanical 5) c1), 4=-35 (LC 8) c1), 4=-35 (LC 8) c1), 4=-159 (LC 1) pression/Maximum , 3-4=-122/57 (3-second gust) DL=6.0psf; h=25ft; C ivelope) exterior zor ; end vertical left an 0 plate grip DOL=1.6 r a 10.0 psf bottom th any other live load	IRC2018/TPI2014								STATE	FT = 10%
 on the both 3-06-00 tal chord and 4 Refer to gii Provide me bearing pla 4 and 75 lb This truss in International 	s has been designed f om chord in all areas I by 2-00-00 wide will any other members. rder(s) for truss to trus echanical connection (ate capable of withstar o uplift at joint 2. is designed in accorda al Residential Code sa and referenced stand 5) Standard	where a rectangle fit between the botto ss connections. (by others) of truss to nding 35 lb uplift at jo ance with the 2018 ections R502.11.1 at	o D								SCOT SEV NUM PE-2001	T M. HER BER 018807

March 31,2021



Job	Truss	Truss Type	Qty	Ply	Lot 27 OS	
Lot 27 OS	B4	GABLE	1	1	Job Reference (optional)	145424713

4-0-0

4-0-0

4-0-0

-0-10-8

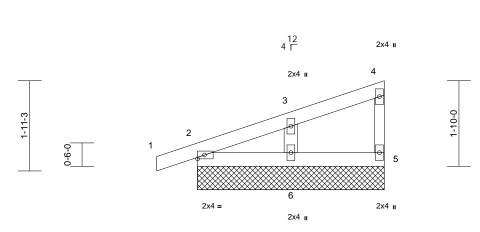
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Wheeler Lumber, Waverly, KS - 66871,

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Page: 1





Scale =	1.24 7

Loading	(psf)	Spacing	2-0-0	csi		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	тс	0.05	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.03	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.02	Horz(CT)	0.00	5	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 12 lb	FT = 10%
	4-0-0 oc purlins, ex Rigid ceiling directly bracing.	5=4-0-0, 6=4-0-0 5) 2 4), 5=-11 (LC 4), 6=	bearing plat 5, 47 lb uplif 8) This truss is Internationa R802.10.2 a d or LOAD CASE(S)	hanical connectior e capable of withsta t at joint 2 and 50 l designed in accord Residential Code nd referenced star Standard	anding 1 b uplift a dance w sections	1 lb uplift at j at joint 6. ith the 2018 s R502.11.1 a	joint					
FORCES	(IC T) (Ib) - Maximum Corr	pression/Maximum										
	Tension											
TOP CHORD BOT CHORD WEBS	1-2=0/6, 2-3=-54/28 2-6=-21/16, 5-6=-21 3-6=-150/79		3/20									
NOTES												
 Vasd=91m II; Exp C; I cantilever right expos 2) Truss desi only. For see Stand or consult 3) Gable requited 4) Gable studies 5) This truss chord live 6) * This truss on the bott 3-06-00 ta 	CE 7-16; Vult=115mph ph; TCDL=6.0psf; BC Enclosed; MWFRS (er left and right exposed sed; Lumber DOL=1.6 gned for wind loads in studs exposed to wind ard Industry Gable En qualified building desi uires continuous botto ds spaced at 2-0-0 oc. has been designed fo load nonconcurrent wi s has been designed fo tom chord in all areas II by 2-00-00 wide will any other members.	DL=6.0psf; h=25ft; C vvelope) exterior zon ; end vertical left and 0 plate grip DOL=1.6 the plane of the trus I (normal to the face) d Details as applicab gner as per ANSI/TP m chord bearing. r a 10.0 psf bottom ith any other live load or a live load of 20.0	e; 1 00 s le, I 1. Is.								STATE OF I SEVI SEVI PE-2001	I M. ER BER 018807

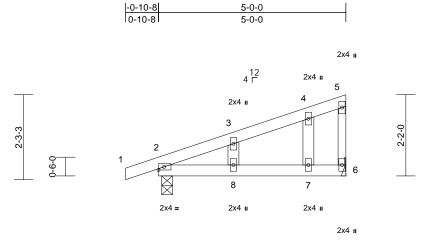
March 31,2021

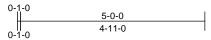


Job	Truss	Truss Type	Qty	Ply	Lot 27 OS	
Lot 27 OS	B5	GABLE	1	1	Job Reference (optional)	145424714

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5-0-0

Scale = 1:30.7

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.20	Vert(LL)	-0.02	7-8	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.21	Vert(CT)	-0.05	7-8	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.01	Horz(CT)	0.00	6	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.02	7-8	>999	240	Weight: 16 lb	FT = 10%
LUMBER TOP CHORD BOT CHORD WEBS OTHERS BRACING TOP CHORD BOT CHORD	2x4 SPF No.2 2x4 SPF No.2 2x3 SPF No.2 2x4 SPF No.2 Structural wood she 5-0-0 oc purlins, ex Rigid ceiling directly bracing.	cept end verticals.	bearing pla 6 and 81 lb 8) This truss is Internationa R802.10.2 ad or LOAD CASE(S	chanical connect te capable of wi uplift at joint 2. s designed in ac al Residential Co and referenced) Standard	thstanding 4 cordance worden sections	5 lb uplift at ith the 2018 R502.11.1 a	joint					
	(size) 2=0-3-8, (Max Horiz 2=84 (LC Max Uplift 2=-81 (LC Max Grav 2=293 (LC (lb) - Maximum Com	2 4), 6=-45 (LC 8) C 1), 6=206 (LC 1)										

TOP CHORD -2=0/6, 2-3=-121/0, 3-4=-78/9, 4-5=-51/24, 5-6=-95/25 BOT CHORD 2-8=-21/55, 7-8=-21/55, 6-7=-21/55 WEBS 3-8=-46/49, 4-7=-44/34

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) 1) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss 2) 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.
- Gable studs spaced at 2-0-0 oc. 3)
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom
- chord and any other members.
- 6) Refer to girder(s) for truss to truss connections.





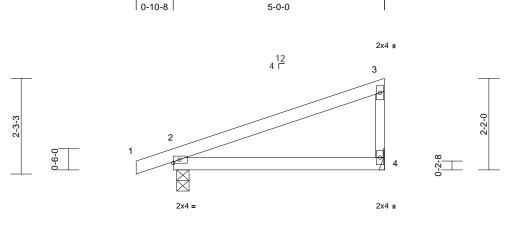
Job	Truss	Truss Type	Qty	Ply	Lot 27 OS	
Lot 27 OS	B6	Monopitch	7	1	Job Reference (optional)	145424715

-0-10-8

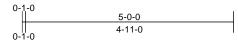
Wheeler Lumber, Waverly, KS - 66871,

Run: 8.43 S Mar 22 2021 Print: 8.430 S Mar 22 2021 MiTek Industries, Inc. Tue Mar 30 12:58:43 ID:hquPfxpp0CdNHWhMuPizeLzNEki-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f





5-0-0



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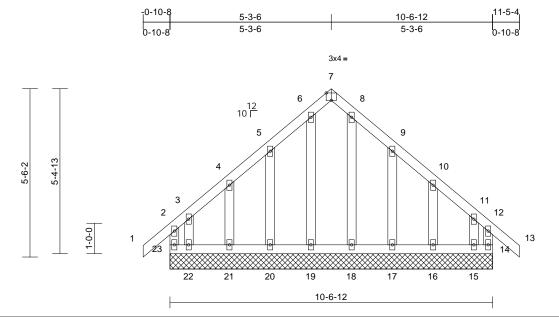
Loading TCLL (roof) TCDL BCLL BCDL	(psf) 25.0 10.0 0.0* 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 YES IRC2018/TPI2014	BC	0.39 0.23 0.00	DEFL Vert(LL) Vert(CT) Horz(CT)	in -0.03 -0.06 0.00	(loc) 2-4 2-4 4	l/defl >999 >933 n/a	L/d 360 240 n/a	PLATES MT20 Weight: 14 lb	GRIP 197/144 FT = 10%
LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD BOT CHORD	2x4 SPF No.2 2x4 SPF No.2 2x3 SPF No.2 Structural wood she 5-0-0 oc purlins, exi Rigid ceiling directly bracing.	cept end verticals. applied or 10-0-0 oc										
	Max Horiz 2=84 (LC Max Uplift 2=-81 (LC Max Grav 2=293 (LC (Ib) - Maximum Com	2 4), 4=-45 (LC 8) C 1), 4=206 (LC 1)										
TOP CHORD BOT CHORD NOTES	Tension TOP CHORD 1-2=0/6, 2-3=-74/45, 3-4=-159/73 BOT CHORD 2-4=-26/20											
Vasd=91m II; Exp C; E cantilever I	E 7-16; Vult=115mph ph; TCDL=6.0psf; BC Enclosed; MWFRS (er eft and right exposed ed; Lumber DOL=1.6	DL=6.0psf; h=25ft; C velope) exterior zon ; end vertical left and	e; d									
 This truss I chord live I * This truss on the bott 3-06-00 tal chord and 	has been designed for oad nonconcurrent wi s has been designed fo om chord in all areas I by 2-00-00 wide will any other members.	r a 10.0 psf bottom th any other live load or a live load of 20.0 where a rectangle fit between the botto	ds. psf								STATE OF M	
5) Provide me bearing pla 4 and 81 lb 6) This truss i	 4) Refer to girder(s) for truss to truss connections. 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 45 lb uplift at joint 4 and 81 lb uplift at joint 2. 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1. COAD CASE(S) Standard 											
R802.10.2	and referenced stand S) Standard	ard ANSI/TPI 1.								Ŷ	ESSIONA	L ENGINE



Job	Truss	Truss Type	Qty	Ply	Lot 27 OS	
Lot 27 OS	C1	GABLE	1	1	Job Reference (optional)	145424716

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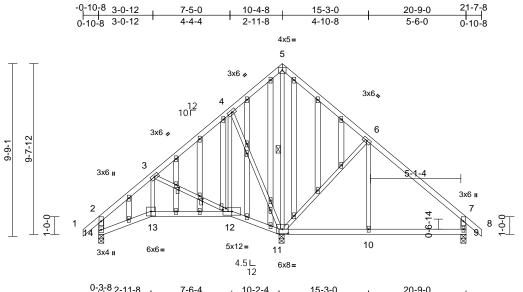
Plate Offsets (X, Y): [7:0-2-0,Edge]

Loading		(psf)	Spacing Plate Grip DOL	2-0-0		CSI TC	0.07	DEFL	in	(loc)	l/defl	L/d 999	PLATES MT20	GRIP 197/144
TCLL (roof)		25.0		1.15		-	0.07	Vert(LL)	n/a		n/a		MI 20	197/144
TCDL		10.0	Lumber DOL	1.15		BC	0.06	Vert(CT)	n/a		n/a	999		
BCLL		0.0*	Rep Stress Incr	YES		WB	0.04	Horz(CT)	0.00	14	n/a	n/a		
BCDL		10.0	Code	IRC2	018/TPI2014	Matrix-R							Weight: 56 lb	FT = 10%
LUMBER					NOTES									
TOP CHORD	2x4 SPF	No.2			1) Unbalanced	roof live loads hav	ve been	considered fo	r					
BOT CHORD	2x4 SPF	No.2			this design.									
WEBS	2x4 SPF	No.2			2) Wind: ASCE	7-16; Vult=115m	ph (3-se	cond gust)						
OTHERS	2x4 SPF	No.2			Vasd=91mpl	n; TCDL=6.0psf; E	BCDL=6.	0psf; h=25ft;	Cat.					
BRACING					II; Exp C; En	closed; MWFRS ((envelop	e) exterior zoi	ne;					
TOP CHORD	Structura		athing directly applie	nd or	cantilever lef	t and right expose	ed; end	vertical left an	d					
			cept end verticals.	,u 01	right expose	d; Lumber DOL=1	.60 plate	e grip DOL=1.	60					
BOT CHORD			applied or 6-0-0 oc		3) Truss design	ed for wind loads	in the pl	ane of the tru	SS					
DOT CHORD	bracing.	ing uncolly	applied 01 0-0-0 00		only. For stu	ids exposed to wi	nd (norm	nal to the face),					
REACTIONS	0	14-10.64	12, 15=10-6-12,			d Industry Gable E								
REACTIONS	(5120)		12, 15=10-6-12, 12, 17=10-6-12,			alified building de			PI 1.					
			12, 19=10-6-12,			2x4 MT20 unless								
			12, 21=10-6-12,			es continuous bot								
			12, 23=10-6-12,		6) Truss to be f	ully sheathed fron	n one fac	ce or securely						
	Max Horiz				braced agair	ist lateral moveme	ent (i.e. o	diagonal web)						
		,	LC 5), 15=-166 (LC			spaced at 1-4-0 o								
			C 9), 17=-82 (LC 9),			s been designed								
			C 8), 21=-55 (LC 8),		chord live loa	ad nonconcurrent	with any	other live loa	ds.					
			LC 8), 23=-141 (LC		9) * This truss h	as been designed	d for a liv	e load of 20.0	Opsf					
	Max Gray		LC 0), 25=141 (LC LC 15), 15=158 (LC		on the bottor	n chord in all area	as where	a rectangle						
	wax Grav		_C 16), 17=131 (LC		3-06-00 tall b	y 2-00-00 wide w	ill fit betv	ween the bott	om					
			_C 17), 19=133 (LC			y other members								
			_C 15), 21=129 (LC			hanical connectio							000	TID
			_C 6), 23=228 (LC 1)			capable of withs							A OF I	MIG
FORCES		,	pression/Maximum	0)		Ib uplift at joint 14							SCOT	MISSO
FURGES	Tension		pression/maximum			joint 21, 81 lb up						F	T.T.	N.S.
TOP CHORD		2/00 1 2 0)/46, 2-3=-130/110,			5 lb uplift at joint 1	16 and 10	56 lb uplift at j	oint			A	SCOT	TM. VEN
TOP CHORD		,	/75, 5-6=-47/119,		15.							H	7 SEV	
			/79, 8-9=-32/111,			designed in accor						N L	-1	
				/95		Residential Code			ind			2 1		
		46, 12-14=-	,	65,	R802.10.2 a	nd referenced sta	ndard Al	NSI/TPI 1.				N N	L HS	ka una d
BOT CHORD		,	2=-80/90, 20-21=-80/	/00	LOAD CASE(S)	Standard						0	NUX	and a g
BOT CHORD		,	=-80/90, 20-21=-80/ =-80/90, 17-18=-80/	,	.,							N	O PE-2001	018807
		,	=-80/90, 17-18=-80/ =-80/90, 14-15=-80/	'								N	A 11 2001	STOOL STO
WEBS												Y	100	INB.
WEB5		,	105/77, 5-20=-102/9	,									SIONA	TENS
		,	102/0, 9-17=-104/96),									ESSIONA	
	10-10=-1	05/77, 11-1	5=-10/92											
													March	n 31,2021



Job	Truss	Truss Type	Qty	Ply	Lot 27 OS	
Lot 27 OS	C2	GABLE	1	1	Job Reference (optional)	145424717

Run: 8.43 S Mar 22 2021 Print: 8.430 S Mar 22 2021 MiTek Industries, Inc. Tue Mar 30 12:58:44 ID:hquPfxpp0CdNHWhMuPizeLzNEki-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1



0-5-0 2-11-8	7-6-4	10-2-4	15-3-0	20-9-0	
0-3-8 2-8-0	4-6-12	2-8-0	5-0-12	5-6-0	

Scale = 1:65.1 Plate Offsets (X, Y): [11:0-4-0,0-2-13], [12:0-0-15,0-2-0], [17:0-1-9,0-0-4], [20:0-1-9,0-0-4]

Loading TCLL (roof) TCDL BCLL BCDL	(psf) 25.0 10.0 0.0* 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 YES IRC2018/TPI2014	CSI TC 0.37 BC 0.22 WB 0.63 Matrix-S	DEFL Vert(LL) Vert(CT) Horz(CT) Wind(LL)	in -0.02 -0.05 0.02 0.02	(loc) 12-13 12-13 11 12-13	l/defl >999 >999 n/a >999	L/d 360 240 n/a 240	PLATES MT20 Weight: 144 lb	GRIP 197/144 FT = 10%
BOT CHORD WEBS OTHERS BRACING TOP CHORD BOT CHORD WEBS REACTIONS (s M	2400F 2.0E 2x4 SPF No.2 Structural wood shea 6-0-0 cc purlins, exc Rigid ceiling directly bracing. 1 Row at midpt size) 9=0-3-8, 1 fax Horiz 14=-276 (1 fax Uplift 9=-143 (L) 14=-109 (1	applied or 6-0-0 oc 5-11 (1=0-3-8, 14=0-3-8 LC 6) C 9), 11=-120 (LC 8), LC 9) C 22), 11=1285 (LC 1)	 only. For stuse standard or consult qu 4) All plates are 5) Truss to be fbraced again 6) Gable studs 7) This truss ha chord live loa 8) * This truss ha on the bottor 3-06-00 tall bchord and ar 9) Bearing at jousing ANSI/7 designer sho h) Provide mec 	the d for wind loads in the pi ds exposed to wind (norm d Industry Gable End Deta alified building designer a 2X4 MT20 unless otherw ully sheathed from one far st lateral movement (i.e. of spaced at 1-4-0 oc. as been designed for a 10. ad nonconcurrent with any has been designed for a 10. ad nonconcurrent with any has been designed for a 11 n chord in all areas where by 2-00-00 wide will fit betr y other members. int(s) 14 considers paralle FPI 1 angle to grain formul hanical connection (by oth e capable of withstanding 1	al to the face iils as applical s per ANSI/TF ise indicated. cor securely diagonal web) 0 psf bottom or other live loa ve load of 20.0 a rectangle ween the botto I to grain valu a. Building ing surface. hers) of truss t), ble, PI 1. , ds. Dpsf om le					
	(lb) - Maximum Com Tension	pression/Maximum		Ib uplift at joint 9 and 120							
	1-2=0/46, 2-3=-370/ 4-5=-30/372, 5-6=-7/ 7-8=0/46, 2-14=-387	/371, 6-7=-326/160,	Ínternational	designed in accordance w Residential Code sections nd referenced standard Al	s R502.11.1 a	ind				~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	
	13-14=-229/393, 12- 11-12=-167/150, 10- 9-10=-48/162		LOAD CASE(S)	Standard					L	TATE OF M	AISSOL
NOTES 1) Unbalanced this design.								ė		SCOTT SEVI	Service

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

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



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March 31,2021

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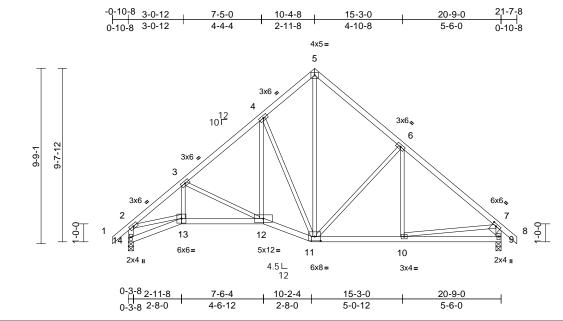
Or .

Job	Truss	Truss Type	Qty	Ply	Lot 27 OS	
Lot 27 OS	C3	Roof Special	3	1	Job Reference (optional)	145424718

Run: 8.43 S Mar 22 2021 Print: 8.430 S Mar 22 2021 MiTek Industries. Inc. Tue Mar 30 12:58:45 ID:hquPfxpp0CdNHWhMuPizeLzNEki-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Page: 1



Scale = 1:64.1 Plate Offsets (X, Y): [7:0-2-12,0-1-8], [11:0-4-0,0-2-13]

	7, 1). [7.0 2 12,0 1 0	j, [11.0 + 0,0 Z 10]											
Loading TCLL (roof) TCDL BCLL	(psf) 25.0 10.0 0.0*	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr	2-0-0 1.15 1.15 YES		CSI TC BC WB	0.30 0.34 0.93	DEFL Vert(LL) Vert(CT) Horz(CT)	in -0.04 -0.09 0.05	(loc) 12 12-13 9	l/defl >999 >999 n/a	L/d 360 240 n/a	MT20	GRIP 197/144
	10.0 2x4 SPF No.2 2x3 SPF No.2 *Exce No.2 Structural wood she: 4-9-13 oc purlins, e Rigid ceiling directly bracing. (size) 9=0-3-8, 1 Max Horiz 14=-276 (Max Uplift 9=-114 (L Max Grav 9=992 (LC	athing directly applie xcept end verticals. applied or 10-0-0 or 14=0-3-8 LC 6) C 9), 14=-114 (LC 8	ed or (c	on the botton 3-06-00 tall 11 chord and an b) Bearing at jc using ANSI/ designer sho b) Provide mec bearing plate 14 and 114 I This truss is International	Matrix-S mas been designed in chord in all area by 2-00-00 wide w by other members wint(s) 14 considers TPI 1 angle to grai buld verify capacity chanical connection e capable of withst b uplift at joint 9. designed in accor Residential Code nd referenced star Standard	s where ill fit betw s paralle n formul o of bear n (by oth anding 1 dance w sections	a rectangle veen the both to grain valu a. Building ng surface. ers) of truss 14 lb uplift a th the 2018 s R502.11.1 a	tom ue to at joint	12	>999	240	Weight: 99 lb	FT = 10%
FORCES	(lb) - Maximum Com Tension	,, , , ,											
TOP CHORD	1-2=0/46, 2-3=-1444 4-5=-735/227, 5-6=- 7-8=0/46, 2-14=-974	788/217, 6-7=-1064/	/140,										
BOT CHORD	13-14=-261/316, 12- 11-12=-68/871, 10-1		4/198										
WEBS	3-13=-35/226, 3-12= 4-11=-684/232, 5-11 6-11=-364/208, 6-10 7-10=0/534	=-200/606,	,									E OF	MISSO
this desigr 2) Wind: ASC	ed roof live loads have	(3-second gust)										STATE OF SCOT	T M. HER

Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60 This truss has been designed for a 10.0 psf bottom 3)

chord live load nonconcurrent with any other live loads.



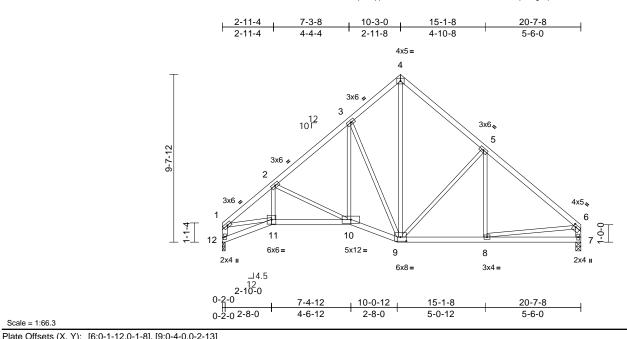


Job	Truss	Truss Type	Qty	Ply	Lot 27 OS	
Lot 27 OS	C4	Roof Special	2	1	Job Reference (optional)	145424719

Scale = 1:66.3

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	0112,010], [0:0 1 0,0 2 1	5]	
Loading	(nsf)	Spacing	2-0-0	

Loading TCLL (roof) TCDL BCLL	(psf) 25.0 10.0 0.0*	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr	2-0-0 1.15 1.15 YES		CSI TC BC WB	0.34 0.33 0.91	DEFL Vert(LL) Vert(CT) Horz(CT)	in -0.04 -0.09 0.04	(loc) 10 10-11 7	l/defl >999 >999 n/a	L/d 360 240 n/a	PLATES MT20	GRIP 197/144
BCDL	10.0	Code	IRC201	8/TPI2014	Matrix-S		Wind(LL)	0.04	10	>999	240	Weight: 96 lb	FT = 10%
LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD BOT CHORD	2x4 SPF No.2 2x4 SPF No.2 2x3 SPF No.2 *Exce 2400F 2.0E Structural wood shea 4-10-9 oc purlins, ex Rigid ceiling directly bracing.	athing directly applie kcept end verticals.	7) d or	using ANSI/T designer sho Provide mecl bearing plate 12 and 90 lb This truss is International	int(s) 12 considers TPI 1 angle to grain uld verify capacity hanical connection at joint(s) 12. hanical connection capable of withstern uplift at joint 7. designed in accord Residential Code	n formul of bear n (by oth anding 8 dance w sections	a. Building ing surface. ers) of truss t ers) of truss t 9 lb uplift at j ith the 2018 5 R502.11.1 a	o o oint					
	(size) 7=0-3-8, 1 Max Horiz 12=-254 (I Max Uplift 7=-90 (LC Max Grav 7=915 (LC	LC 4) 9), 12=-89 (LC 8)	L	R802.10.2 ar DAD CASE(S)	nd referenced star Standard	idard AN	ISI/TPI 1.						
FORCES	(lb) - Maximum Com Tension	pression/Maximum											
TOP CHORD	1-2=-1401/211, 2-3= 3-4=-733/227, 4-5=-7 1-12=-900/149, 6-7=	787/216, 5-6=-1060/	136,										
BOT CHORD	11-12=-258/293, 10- 9-10=-84/849, 8-9=-2												
WEBS	2-11=-40/194, 2-10= 3-9=-668/236, 4-9=-2 5-8=0/173, 1-11=-11	-400/196, 3-10=-67/ 200/607, 5-9=-374/2	528,									OF M	
this design 2) Wind: ASC	ed roof live loads have n. CE 7-16; Vult=115mph nph; TCDL=6.0psf; BCl	(3-second gust)										STATE OF M	r M. ER

- II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom 3) chord live load nonconcurrent with any other live loads. 4) * This truss has been designed for a live load of 20.0psf
- on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.

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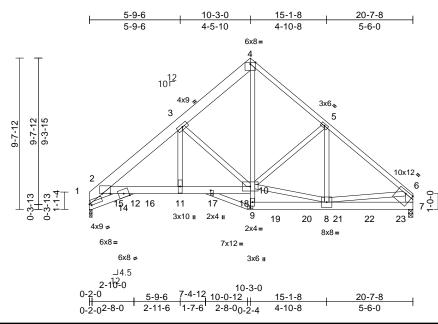


Job	Truss	Truss Type	Qty	Ply	Lot 27 OS	
Lot 27 OS	C5	Roof Special Girder	1	3	Job Reference (optional)	145424720

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Scale = 1:73.5

Plate Offsets (X, Y): [1:0-1-4,0-1-2], [2:0-6-1,Edge], [6:Edge,0-2-0], [13:0-2-8,0-1-0]

Loading	(psf)	Spacing	2-0-0		CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP			
TCLL (roof)	25.0	Plate Grip DOL	1.15		TC	0.30	Vert(LL)		11-12		360	MT20	244/190			
TCDL	10.0	Lumber DOL	1.15		BC	0.56	Vert(CT)		11-12	>999	240					
BCLL	0.0*	Rep Stress Incr	NO		WB	0.34	- (-)	0.07	7	n/a	n/a					
BCDL	10.0	Code	IRC201	8/TPI2014	Matrix-S	-	Wind(LL)	0.04	11-12	>999	240	Weight: 473 lb	FT = 10%			
LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD BOT CHORD REACTIONS	2x6 SP 2400F 2.0E 4-9,0-0,13-9:2x4 SP 2x4 SPF No.2 *Exce Structural wood she 6-0-0 oc purlins, ex Rigid ceiling directly bracing. Except: 10-0-0 oc bracing: 9	*Except* F No.2 pt* 7-6:2x6 SPF No athing directly applie cept end verticals. applied or 10-0-0 oc -10 7=0-3-8 C 5)	2 d or	(0.131"x3") n Top chords of staggered at rows stagge Bottom chor staggered at Web connect All loads are except if not CASE(S) se provided to of unless other	b be connected to hails as follows: connected as follow (0-9-0 oc, 2x4 - 1 red at 0-9-0 oc. ds connected as i (0-5-0 oc, 2x4 - 1 ted as follows: 2x considered equa ed as front (F) or ction. Ply to ply co distribute only loa wise indicated. roof live loads ha	ows: 2x8 row at 0 row at 0 row at 0 4 - 1 row Ily applie back (B) onnection ds noted	- 2 rows 9-0 oc, 2x6 - x6 - 2 rows 7-0 oc. at 0-9-0 oc. d to all plies, face in the LC s have been as (F) or (B),	DAD	pro lb d lb u 103 103 dov dov cho (s) 12) Fille LOAD (1) De Pl	vided su lown and p at 4-C 33 lb dow 3 lb up at vn at 14 vn at 18 ord. The is the re er applie CASE(S	fficient d 103 ll -0, 103 vn and t 10-0- -0-0, 1 -0-0, a design sponsi d to pl) Sta pof Live ease=1	b up at 2-0-0, 10: 33 lb down and 11 103 lb up at 8-0- 0, 1062 lb down at 062 lb down at 1 ind 943 lb down a 1/selection of such bility of others. y: 1(Front) indard a (balanced): Lurr .15	ce(s) shall be entrated load(s) 103 33 lb down and 103 03 lb up at 6-0-0, -0, 1033 lb down an at 12-0-0, 1062 lb 6-0-0, and 1062 lb tt 20-0-0 on bottom h connection device			
FORCES	Max Grav 1=5682 (L (lb) - Maximum Com Tension	<i>y</i> .	16) 4)	 Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; 							Vert: 1-4=-70, 4-6=-70, 1-12=-20, 10-12=-20, 7-9=-20 Concentrated Loads (lb)					
TOP CHORD	1-2=-7163/274, 2-3= 4-5=-5075/7, 5-6=-6		1/0,		ft and right expos d; Lumber DOL= [,]				Vert: 11=-910 (B), 14=-910 (B), 16=-910 (B), 17=-910 (B), 18=-910 (B), 19=-938 (B), 20=-938 (B)							
BOT CHORD	1-14=-275/3589, 12- 2-15=0/2842, 12-15=		5)		as been designed ad nonconcurrent			ds.				22=-938 (B), 23=-9				
	12-16=-179/6373, 1 11-17=-182/6415, 1 10-18=-182/6415, 9 9-19=0/594, 19-20=(8-21=0/1282, 21-22= 7-23=0/1282	7-18=-182/6415, -10=0/895, 4-10=0/6(0/594, 8-20=0/594, =0/1282, 22-23=0/12	,	on the botton 3-06-00 tall chord and an Bearing at jo using ANSI/	nas been designe m chord in all area by 2-00-00 wide v ny other members int(s) 1 considers TPI 1 angle to gra	as where vill fit betv s. s parallel in formul	a rectangle veen the botto to grain value a. Building	, om			B	STATE OF M	MISSOLA			
WEBS	3-11=-272/3799, 3-1 8-10=0/4382, 5-10=- 6-8=0/3666		8)	Provide med	ould verify capacit hanical connection at joint(s) 1.			0		Ļ	B	SEVI				
NOTES			9)	Provide med	capable of withs						K	cotto NUM	Gene			
					destance of the second						XX'	ON PE-20010	018807 159			

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



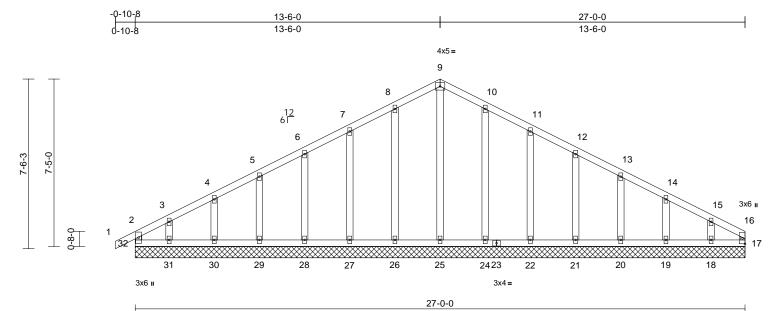
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March 31,2021

Job	Truss	Truss Type	Qty	Ply	Lot 27 OS	
Lot 27 OS	D1	Common Supported Gable	1	1	Job Reference (optional)	145424721

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Scale	= 1	:51
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Scale = 1:51													
Loading TCLL (roof) TCDL BCLL BCDL	(psf) 25.0 10.0 0.0* 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 YES IRC201	8/TPI2014	CSI TC BC WB Matrix-R	0.07 0.04 0.13	DEFL Vert(LL) Vert(CT) Horz(CT)	in n/a n/a 0.00	(loc) - - 17	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20 Weight: 121 lb	GRIP 197/144 FT = 10%
LUMBER TOP CHORD BOT CHORD WEBS OTHERS BRACING TOP CHORD BOT CHORD REACTIONS	2x4 SPF No.2 Structural wood she 6-0-0 oc purlins, ex Rigid ceiling directly bracing. (size) 17=27-0-(20=27-0-(27=27-0-(30=27-0-(30=27-0-(Max Horiz 32=121 (I Max Uplift 18=-88 (L 22=-56 (L 24=-54 (L 28=-53 (L 30=-48 (L 19=183 (I 21=181 (I 24=190 (I 24=190 (I 28=181 (I	applied or 10-0-0 oc 0, 18=27-0-0, 19=27-0 0, 21=27-0-0, 22=27-0 0, 25=27-0-0, 26=27-0 0, 28=27-0-0, 32=27-0 0, 31=27-0-0, 32=27-0 0, 21, 27=178 (LC 9), 0, 21, 27=178 (LC 1), 1, 20, 22, 22=179 (LC 1) 1, 20, 22, 22=179 (LC 1) 1, 20, 22=178 (LC 1) 1, 20, 21, 27=178 (LC 1) 1, 21, 29=178 (LC 2) 1, 31=131 (LC 15)	D.2 W or H-0, Ni H-0, 1) H-0, 2) H-0 2) 3) (, 5) (, 6) 3), 7) (), 8)	YEBS S OTES Unbalanced this design. Wind: ASCE Vasd=91mpl II; Exp C; En cantilever lef right expose Truss design only. For stu see Standard or consult qu All plates are Gable requir Truss to be f braced agair Gable studs This truss ha chord live loa * This truss f	31-32=-23/87, 30-3 28-29=-23/87, 27-20 25-26=-23/87, 21-2 21-23-23/87, 21-2 19-20=-23/87, 18-19 9-25=-150/0, 8-26=- 5-28=-141/78, 5-29 3-31=-101/94, 10-2 11-22=-138/80, 12-1 13-20=-139/78, 14-1 15-18=-130/90 roof live loads have 7-16; Vult=115mph n; TCDL=6.0psf; BC closed; MWFRS (et t and right exposed d; Lumber DOL=1.6 tods exposed to wind d Industry Gable En talfied building desi e 2x4 MT20 unless (et so continuous botto ully sheathed from the st lateral movement spaced at 2-0-0 oc. to been designed fo ad nonconcurrent w has been designed for	8=-23/8 5=-23/8 2=-23/8 2=-23/8 =-150/78 =-150/78 =-138/7 4=-150, 21=-14 19=-14: 19=-1	7, 26-27=-23/ 7, 23-24=-23/ 7, 20-21=-23/ 7, 20-21=-23/ 7, 17-18=-23/ 9, 4-30=-147/ 76, 0/77, 3/77, considered for ond gust) 0/psf; h=25ft; C e) exterior zon rertical left and grip DCL=1.6 e) exterior zon rertical	87, 87, 87, 87, 9, 76, 76, 76, 76, 76, 76, 76, 76, 76, 76	bea 32, upli 30, upli 20, 11) This Inte	rring plat 54 lb up ft at join 96 lb up ft at join 49 lb up s truss is prnationa 02.10.2 a	te capa lift at jt t 28, 5¢ lift at jt 22, 5¢ lift at jt 22, 5¢ lift at jt 24, 5¢ li	ble of withstandii bint 26, 56 lb uplif 5 lb uplift at joint 2 bint 31, 52 lb uplif 8 lb uplift at joint 2 bint 19 and 88 lb ned in accordance dential Code sect erenced standarc	e with the 2018 ions R502.11.1 and IANSI/TPI 1.
FORCES)/32, 2-3=-144/61, /91, 5-6=-57/116, 7/169, 8-9=-41/192,		3-06-00 tall b	n chord in all areas yy 2-00-00 wide will ny other members.			m		-		PE-20010	ENGINE

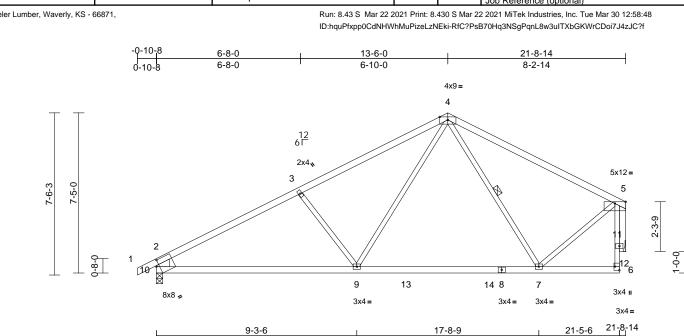
March 31,2021

Page: 1



Job	Truss	Truss Type	Qty	Ply	Lot 27 OS	
Lot 27 OS	D2	Roof Special	5	1	Job Reference (optional)	145424722

Page: 1



I	9-3-6	8-5-3	3-8-13 0-3-8
Scale = 1:53.4			
Plate Offsets (X, Y): [6:Edge,0-2-8], [10:0-1	-10,0-3-4]		

Loading TCLL (roof) TCDL BCLL BCDL	(psf) 25.0 10.0 0.0* 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 YES IRC2018/TPI2	CSI TC BC WB 014 Matrix-S	0.95 0.73 0.24	DEFL Vert(LL) Vert(CT) Horz(CT) Wind(LL)	in -0.21 -0.33 0.06 0.06	(loc) 7-9 7-9 12 7-9	l/defl >999 >772 n/a >999	L/d 360 240 n/a 240	PLATES MT20 Weight: 80 lb	GRIP 197/144 FT = 10%
LUMBER TOP CHORD BOT CHORD WEBS OTHERS BRACING TOP CHORD BOT CHORD WEBS REACTIONS		athing directly applie applied or 10-0-0 or 4-7 12= Mechanical .C 8) LC 8), 12=-91 (LC 9	on th 3-06 S chor 5) Refe 6) Prov bear joint 7) This Inter R80: LOAD C	s truss has been designe te bottom chord in all are -00 tall by 2-00-00 wide t d and any other member r to girder(s) for truss to ide mechanical connecti ing plate capable of with 10 and 91 lb uplift at joir truss is designed in acco national Residential Cod 2.10.2 and referenced st ASE(S) Standard	eas where will fit betw rs, with BC truss conr on (by oth standing 1 nt 12. ordance w le sections	a rectangle veen the bott DL = 10.0ps nections. ers) of truss 54 lb uplift a ith the 2018 \$ R502.11.1 a	tom if. to t					
FORCES	(lb) - Maximum Com Tension		-,									
TOP CHORD	1-2=0/37, 2-3=-1503 4-5=-824/116, 6-12= 2-10=-948/202	,	3,									
BOT CHORD	9-10=-282/1255, 9-1 13-14=-80/737, 8-14 6-7=-64/177		37,									
WEBS	5-7=-17/648, 4-9=-1 4-7=-256/109, 5-12=		3,								TATE OF	MISS
this design 2) Wind: ASC Vasd=91n	ed roof live loads have n. CE 7-16; Vult=115mph nph; TCDL=6.0psf; BC Enclosed: MWFRS (er	(3-second gust) DL=6.0psf; h=25ft; 0	Cat.							R	STAT SCOT SEV	

- II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed ; end vertical left and right exposed; 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.

March 31,2021 MiTek 16023 Swingley Ridge Rd Chesterfield, MO 63017

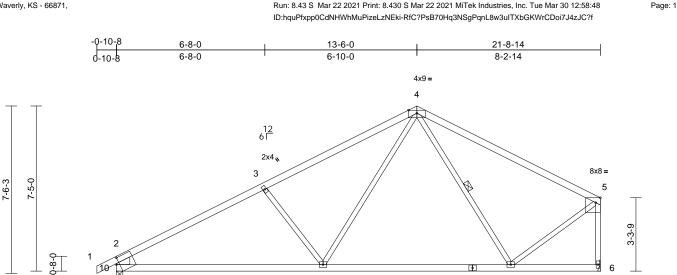
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NUMBER

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PE-200101880

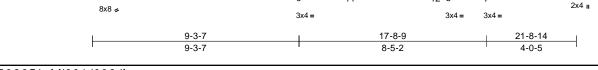
Job	Truss	Truss Type	Qty	Ply	Lot 27 OS	
Lot 27 OS	D3	Common	4	1	Job Reference (optional)	145424723



Run: 8.43 S Mar 22 2021 Print: 8.430 S Mar 22 2021 MiTek Industries, Inc. Tue Mar 30 12:58:48

12 8

7



9

11

Scale = 1:51.7	
Plate Offsets (X, Y):	[5:0-2-8,Edge], [10:0-1-10,0-3-4]

	(⊼, 1). [5.0-2-0,∟uge],	, [10.0-1-10,0-3-4]										
Loading TCLL (roof) TCDL	(psf) 25.0 10.0	Spacing Plate Grip DOL Lumber DOL	2-0-0 1.15 1.15	CSI TC BC	0.85 0.73	DEFL Vert(LL) Vert(CT)	in -0.20 -0.33	(loc) 7-9 7-9	l/defl >999 >786	L/d 360 240	PLATES MT20	GRIP 197/144
BCLL	0.0*	Rep Stress Incr	YES	WB	0.26	Horz(CT)	0.03	6	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014			Wind(LL)	0.04	7-9	>999	240	Weight: 78 lb	FT = 10%
LUMBER			6) Provide	mechanical connecti	ion (by oth	ers) of truss	to					
TOP CHORD	2x4 SPF No.2 *Exce 1.8E	ept* 4-5:2x4 SPF 21	10.	plate capable of with		•	joint					
BOT CHORD	2x4 SPF No.2		· · · ·	ss is designed in acc ional Residential Coc			and					
WEBS BRACING	2x3 SPF No.2 *Exce	ept* 10-2:2x8 SP DS		0.2 and referenced st			and					
TOP CHORD	Structural wood she 3-3-12 oc purlins, e			E(S) Standard								
BOT CHORD	Rigid ceiling directly bracing.	applied or 10-0-0 o	0C									
WEBS	1 Row at midpt	4-7										
	(size) 6= Mecha Max Horiz 10=153 (I Max Uplift 10=-31 (L Max Grav 6=1020 (I	.C 8)	2)									
FORCES	(lb) - Maximum Com Tension	pression/Maximum										
TOP CHORD	1-2=0/37, 2-3=-1499 4-5=-807/49, 5-6=-9											
BOT CHORD	9-10=-71/1291, 9-11 8-12=0/754, 7-8=0/7	,	54,									
WEBS	4-7=-290/58, 5-7=0/ 3-9=-402/155	767, 4-9=-12/691,										an
NOTES											TEOF	MISC
 Unbalance this design 	ed roof live loads have	been considered fo	or							1	ALE	
	CE 7-16; Vult=115mph	(3-second aust)								a	SCOT	TM
Vasd=91m	nph; TCDL=6.0psf; BC	DL=6.0psf; h=25ft;								a	SEV	
	Enclosed; MWFRS (er									ant.	1 Lan	*
	exposed ; end vertical OL=1.60 plate grip DC		ea;							X		Je MIN
	has been designed fo								9	- WA	NUM	DER A
chord live	load nonconcurrent wi	ith any other live loa								NS	PE-2001	018807
	s has been designed f		0psf							V		188
	tom chord in all areas all by 2-00-00 wide will		om								SSIONA	FNUS
	any other members, v										WNA	L
5) Refer to gi	irder(s) for truss to trus	ss connections.									Mara	21 2021

- * This truss has been designed for a live load of 20.0psf 4) on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 5) Refer to girder(s) for truss to truss connections.

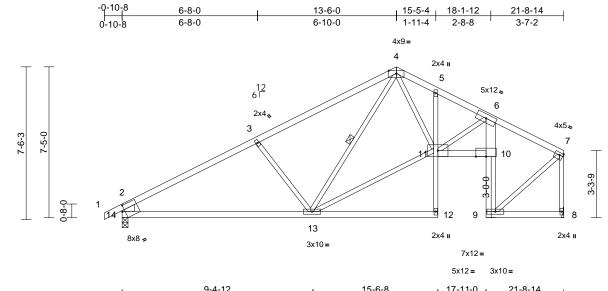
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use,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



March 31,2021

Job	Truss	Truss Type	Qty	Ply	Lot 27 OS	
Lot 27 OS	D4	Roof Special	1	1	Job Reference (optional)	145424724

Run: 8.43 S Mar 22 2021 Print: 8.430 S Mar 22 2021 MiTek Industries, Inc. Tue Mar 30 12:58:49 ID:hquPfxpp0CdNHWhMuPizeLzNEki-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1



Loading	(pcf)	Spacing	200		6	DEEL	in	(loc)	l/dofl	L/d		CDID	,
Plate Offsets (X, Y): [7:0-2-0,0-1-8],	[14:0-1-10,0-3-	4]										
Scale = 1:56.7													
				9-4-12		6-1-12	1	2-4-8	I	3-9-	14		
		L.		9-4-12		15-6-8		17-11-0	0	21-8-	14		

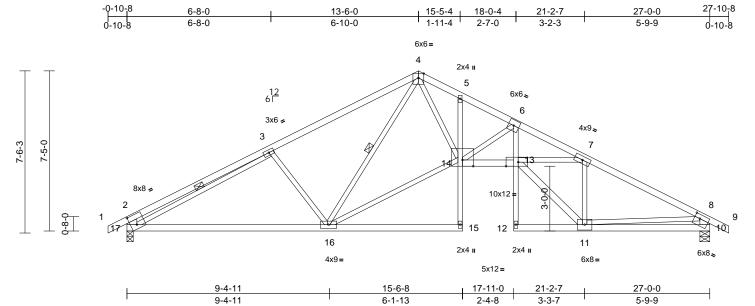
Loading TCLL (roof) TCDL BCLL BCDL	(psf) 25.0 10.0 0.0* 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 YES IRC201	18/TPI2014	CSI TC BC WB Matrix-S	0.84 0.67 0.37	DEFL Vert(LL) Vert(CT) Horz(CT) Wind(LL)		(loc) 13-14 13-14 8 10-11	l/defl >999 >717 n/a >999	L/d 360 240 n/a 240	PLATES MT20 Weight: 97 lb	GRIP 197/144 FT = 10%
	Max Horiz 14=153 (L	0.2, 5; 5 6; d or 7;	on the botton 3-06-00 tall b chord and ar) Refer to girde) Provide mecl bearing plate 14.) This truss is International	has been designe in chord in all area by 2-00-00 wide w by other members er(s) for truss to t hanical connection e capable of withs designed in accoon Residential Code nd referenced stat Standard	as where vill fit betw s. russ conr in (by oth tanding 3 rdance w e sections	a rectangle veen the botto nections. ers) of truss t i1 lb uplift at j ith the 2018 i R502.11.1 a	o o oint						
	Max Uplift 14=-31 (L Max Grav 8=958 (LC (lb) - Maximum Com	C 1), 14=1045 (LC 1)											
TOP CHORD	Tension 1-2=0/37, 2-3=-1454 4-5=-1463/50, 5-6=- 7-8=-961/18, 2-14=-	1551/21, 6-7=-721/3	9,										
BOT CHORD	13-14=-73/1196, 12- 5-11=-100/87, 10-11 6-10=-422/36, 8-9=-	-13=0/11, 11-12=0/8 =-7/1552, 9-10=-410	,									TE OF M	MISSO
WEBS	3-13=-402/156, 4-13 4-11=-15/832, 6-11=	,	068,								B	S SCOT	гм.
this design 2) Wind: ASC Vasd=91rr II; Exp C; I and right e Lumber D0 3) This truss	ed roof live loads have a. EF 7-16; Vult=115mph ph; TCDL=6.0psf; BC Enclosed; MWFRS (er exposed ; end vertical I OL=1.60 plate grip DC has been designed for load nonconcurrent wi	Cat. eft d;) د		SEVI NOM PE-2001 RessionA March	BER 018807	

16023 Swingley Ridge Rd Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Lot 27 OS	
Lot 27 OS	D5	Roof Special	1	1	Job Reference (optional)	145424725

Run: 8.43 S Mar 22 2021 Print: 8.430 S Mar 22 2021 MiTek Industries, Inc. Tue Mar 30 12:58:50 ID:hquPfxpp0CdNHWhMuPizeLzNEki-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:53.4

Plate Offsets (X, V).	[2:0-3-5,0-5-12], [10:0-3-0,0-2-4	1 [13:0-6-12 Edge]
	[2.0-3-3,0-3-12], [10.0-3-0,0-2-4], [13.0-0-12,Luge]

Loading	(psf)	Spacing	2-0-0	csi		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP		
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.66	Vert(LL)		13-14	>999	360	MT20	197/144		
TCDL	10.0	Lumber DOL	1.15	BC	0.71	Vert(CT)		13-14	>690	240				
BCLL	0.0*	Rep Stress Incr	YES	WB	0.82	. ,	0.31	10	n/a	n/a				
BCDL	10.0	Code	IRC2018/TPI2	014 Matrix-S		Wind(LL)		13-14	>999	240	Weight: 118 lb	FT = 10%		
					-			-		-	- 5			
LUMBER				truss has been designed										
TOP CHORD	2x4 SPF No.2			d live load nonconcurren										
BOT CHORD				is truss has been design			osf							
	No.2, 14-13:2x4 SP			ne bottom chord in all are										
WEBS		ept* 17-2,10-8:2x6 S		3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.5) Provide mechanical connection (by others) of truss to										
	No.2, 11-13:2x4 SP	F No.2												
BRACING				ring plate capable of with										
TOP CHORD		eathing directly applie		10 and 174 lb uplift at jo		174 ID uplitt at								
	2-5-2 oc purlins, ex		C) This	truss is designed in acco		ith the 2018								
BOT CHORD	0 0 ,	applied or 10-0-0 or		national Residential Cod			h							
	bracing.			2.10.2 and referenced st			iu iu							
WEBS	1 Row at midpt	4-16, 3-17		ASE(S) Standard										
REACTIONS	()	, 17=0-3-8	LUAD	ASE(S) Standard										
	Max Horiz 17=111 (I	,												
	Max Uplift 10=-174 ((<i>)</i> , (,											
	Max Grav 10=1272	(LC 1), 17=1272 (LC	5 1)											
FORCES	(lb) - Maximum Corr	npression/Maximum												
	Tension													
TOP CHORD	1-2=0/35, 2-3=-836/													
	4-5=-2714/267, 5-6=		_											
	,	=-1931/232, 8-9=0/3	5,											
DOT OUODD	2-17=-625/185, 8-10		100											
BOT CHORD	,										000	TO		
		4=-164/4035, 12-13= 12=-2/30, 10-11=-13									OF I	ALSO A		
WEBS	3-16=-401/254, 4-16	,	0/374							-	THE OF I	-0.0		
WEDS	14-16=-80/1732, 4-1									A	N.	New		
	6-14=-1935/194, 7-1	,								H	SCOT			
	7-11=-1602/182, 3-1									B	SEVI	ER \ Y		
	8-11=-21/1068, 11-1									100*				
NOTES										VX .	4.	Kor allan		
	ed roof live loads have	been considered for	r						1		NUM	and the second		
this design										27	DE 2001			
	 CE 7-16; Vult=115mph	(3-second aust)								N.	PE-2001	1000/ 201		
	nph; TCDL=6.0psf; BC		Cat.							Y		1.SA		
	Enclosed; MWFRS (er									0	SSIONA	FNA		
	left and right exposed										WNA	L		
	sed; Lumber DOL=1.6										Cas	50-5		

Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60

> MiTek 16023 Swingley Ridge Rd Chesterfield, MO 63017

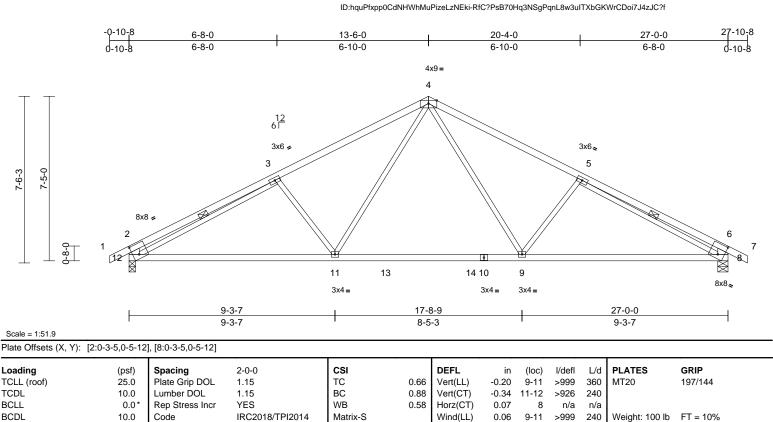
March 31,2021



Job		Truss	Truss Type	Qty	Ply	Lot 27 OS	
Lot :	27 OS	D6	Common	2	1	Job Reference (optional)	145424726

Run: 8 43 S. Mar 22 2021 Print: 8 430 S. Mar 22 2021 MiTek Industries. Inc. Tue Mar 30 12:58:50

Wheeler Lumber, Waverly, KS - 66871,



LUMBER TOP CHORD BOT CHORD WEBS	2x4 SPF No.2 2x4 SPF No.2 2x3 SPF No.2 *Except* 12-2,8-6:2x6 SPF No.2	4) 5)	* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf. Provide mechanical connection (by others) of truss to
BRACING			bearing plate capable of withstanding 174 lb uplift at
TOP CHORD	Structural wood sheathing directly applied or 3-0-12 oc purlins, except end verticals.	6)	joint 12 and 174 lb uplift at joint 8. This truss is designed in accordance with the 2018
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.		International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
WEBS	1 Row at midpt 3-12, 5-8	LO	DAD CASE(S) Standard
REACTIONS	(size) 8=0-5-8, 12=0-3-8		
	Max Horiz 12=111 (LC 8)		
	Max Uplift 8=-174 (LC 9), 12=-174 (LC 8)		
	Max Grav 8=1320 (LC 2), 12=1320 (LC 2)		
FORCES	(lb) - Maximum Compression/Maximum Tension		
TOP CHORD	1-2=0/35, 2-3=-874/191, 3-4=-1808/260,		
	4-5=-1808/260, 5-6=-874/190, 6-7=0/35,		
	2-12=-630/186, 6-8=-630/186		
BOT CHORD	11-12=-259/1707, 11-13=-51/1190,		
	13-14=-51/1190, 10-14=-51/1190,		
	9-10=-51/1190, 8-9=-149/1705		
WEBS	4-9=-111/695, 5-9=-403/255, 4-11=-111/695,		
	3-11=-403/255, 3-12=-1150/97, 5-8=-1149/97		
NOTES			
,	ed roof live loads have been considered for		
this design			
 Wind ASC 	E 7-16: Vult-115mph (3-second quet)		

Wind: ASCE 7-16; Vult=115mph (3-second gust) 2) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed ; end vertical left and right exposed; 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.

er members, with BCDL = 10.0psf. al connection (by others) of truss to ble of withstanding 174 lb uplift at uplift at joint 8. ned in accordance with the 2018 lential Code sections R502.11.1 and erenced standard ANSI/TPI 1. ndard



Page: 1



Job	Truss	Truss Type	Qty	Ply	Lot 27 OS	
Lot 27 OS	D7	Common Supported Gable	1	1	Job Reference (optional)	145424727

13-6-0

13-6-0

Wheeler Lumber, Waverly, KS - 66871,

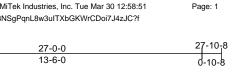
-0-10-8 0-10-8

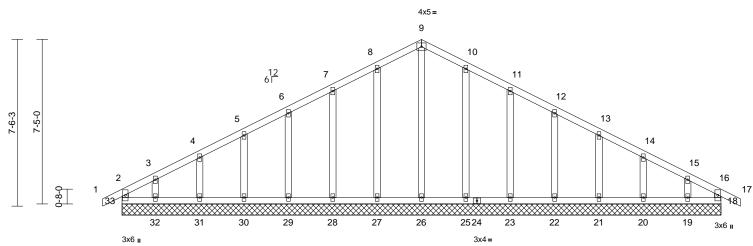
33=146 (LC 21)

Tension

(lb) - Maximum Compression/Maximum

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27-0-0

Scale	=	1:51	.9

FORCES

Loading TCLL (roof) TCDL BCLL BCDL		(psf) 25.0 10.0 0.0* 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code		18/TPI2014	CSI TC BC WB Matrix-R 2-33=-129/41, 1-2	0.07 0.04 0.14	DEFL Vert(LL) Vert(CT) Horz(CT)	in n/a n/a 0.00	(loc) - - 18 9) * Th	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20 Weight: 122 lb	GRIP 197/144 D FT = 10%
TOP CHORD BOT CHORD WEBS OTHERS BRACING TOP CHORD BOT CHORD REACTIONS	2x4 SPF N 2x4 SPF N 2x4 SPF N Structural 6-0-0 oc p Rigid ceili bracing. (size) Max Horiz Max Uplift	No.2 No.2 No.2 wood she purlins, ex ng directly 18=27-0-(25=27-0-(31=27-0-(31=27-0-(31=27-0-(31=27-0-(28=27-0-(18=-15)(20=-50)(L	athing directly applied cept end verticals. applied or 6-0-0 cc), 19=27-0-0, 20=27), 26=27-0-0, 23=27 0, 26=27-0-0, 23=27 0, 32=27-0-0, 33=27 C 8) C 5), 19=-81 (LC 9), C 9), 21=-55 (LC 9), C 9), 23=-56 (LC 9),	d or E D-0, D-0, D-0, D-0, D-0,	30T CHORD VEBS	3-4=-92/73, 4-5= 6-7=-39/140, 7-8; 9-10=-35/183, 10 11-12=-31/104, 1 14-15=-59/46, 15 16-18=-129/20 32-33=-24/105, 2 28-29=-24/105, 2 26-27=-24/105, 2 24-25=-24/105, 2 22-23=-24/105, 2 20-21=-24/105, 1 18-19=-24/105 9-26=-154/0, 8=23 6-29=-141/78, 5=3 3-32=-101/94, 10 11-23=-138/80, 1	-64/89, 5- 30/167, +11=-30/1 2-13=-31, -16=-101, 1-32=-24, 9-30=-24, 7-28=-24, 5-26=-24, 3-24=-24, 1-22=-24, 9-20=-24, 7=-150/78, 30=-138/7, -25=-150, 2-22=-14	6=-50/115, 8-9=-35/191, 38, 178, 13-14=-3' (29, 16-17=0/: (105, (1	32, ⁻ '9,	on 1 3-00 cho 10) Pro bea 33, upli 30, upli 22, upli 11) This Inte	the bottc 6-00 tall rd and a vide me tring pla 15 lb up ft at join 48 lb up ft at join 55 lb up ft at join s truss is rnationa 02.10.2 a	om cho by 2-0 any oth chanic te capa alift at ju t 28, 5 blift at ju t 25, 5 blift at ju t 19. s desig al Resid and ref	rd in all areas w 00-00 wide will fi ler members. al connection (b able of withstand oint 18, 54 lb up 3 lb uplift at join oint 31, 96 lb up 6 lb uplift at join oint 21, 50 lb up ned in accordar dential Code se ierenced standa	where a rectangle it between the bottom by others) of truss to ding 40 lb uplift at joint Jlift at joint 27, 56 lb t 29, 56 lb uplift at joint Jlift at joint 32, 53 lb t 23, 53 lb uplift at joint Jlift at joint 20 and 81 lb nce with the 2018 ctions R502.11.1 and
		25=-53 (L 28=-56 (L 30=-56 (L 32=-96 (L 18=146 (I 20=189 (I 22=181 (I 25=190 (I 27=190 (I 29=181 (I	C 9), 27=-54 (LC 8), C 8), 29=-53 (LC 8), C 8), 31=-48 (LC 8), C 8), 33=-40 (LC 4) C 22), 19=131 (LC 1 C 22), 21=178 (LC 1 C 22), 23=178 (LC 1 C 22), 26=194 (LC 1 C 21), 28=178 (LC 1 LC 21), 30=178 (LC 1 LC 21), 32=133 (LC 1), 2), 2), 8),),),	NOTES) Unbalanced this design. 2) Wind: ASCE Vasd=91mp II; Exp C; Er cantilever le right expose 3) Truss design	13-21=-138/78, 1 15-19=-101/86 roof live loads ha 7-16; Vult=115m h; TCDL=6.0psf; nclosed; MWFRS ft and right expos d; Lumber DOL= ned for wind loads uds exposed to w	ave been aph (3-sec BCDL=6. (envelope ed ; end v 1.60 plate s in the pl	considered for cond gust) Dpsf; h=25ft; (e) exterior zor vertical left and grip DOL=1.6 ane of the trus	Cat. le; d 60 ss				STATE OF	MISSOUR

- 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) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
 7) Only study and study and study on the study of th
 - 7) Gable studs spaced at 2-0-0 oc.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

PE-2001018807 March 31,2021



Job	Truss	Truss Type	Qty	Ply	Lot 27 OS	
Lot 27 OS	D8	Roof Special	4	1	Job Reference (optional)	145424728

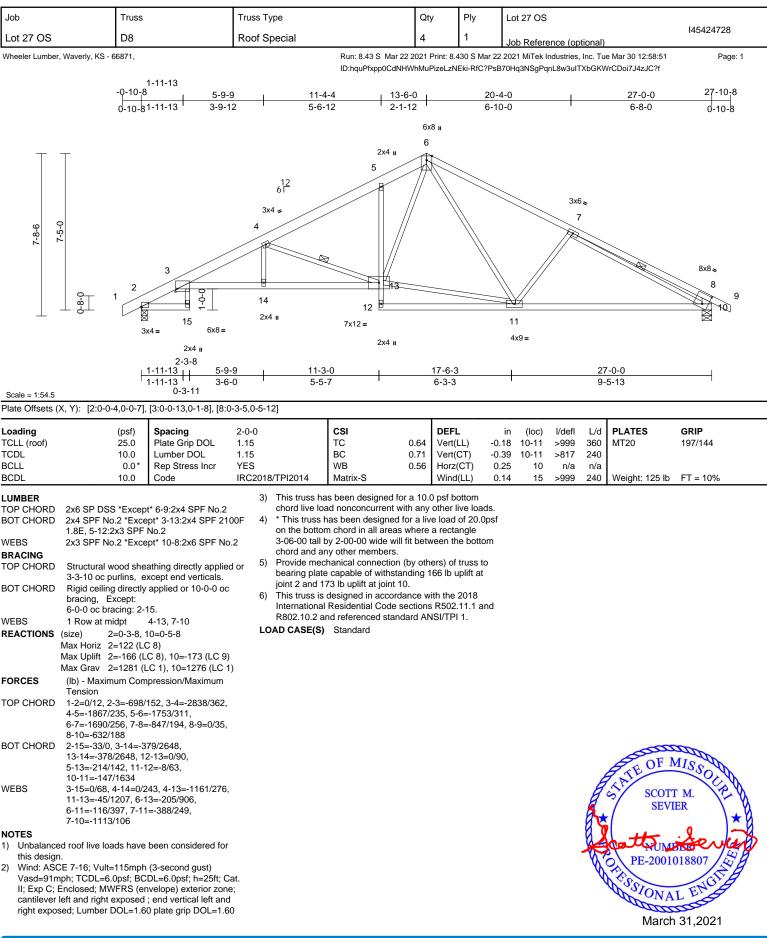
TCDL

BCLL

BCDL

1)

2)



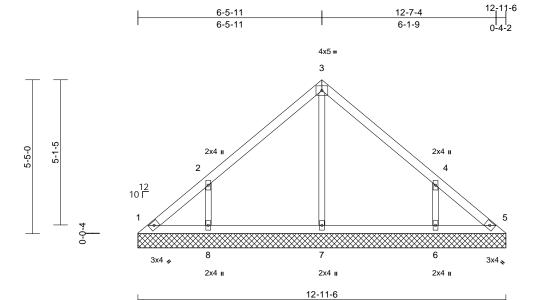
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use,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

MiTek 16023 Swingley Ridge Rd Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Lot 27 OS	
Lot 27 OS	V1	Valley	1	1	Job Reference (optional)	145424729

Run: 8,43 S Mar 22 2021 Print: 8,430 S Mar 22 2021 MiTek Industries. Inc. Tue Mar 30 12:58:51 ID:hquPfxpp0CdNHWhMuPizeLzNEki-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f





Scale = 1:40.5

Loading TCLL (roof) TCDL BCLL BCDL		(psf) 25.0 10.0 0.0* 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 YES IRC2	018/TPI2014	CSI TC BC WB Matrix-S	0.17 0.10 0.11	DEFL Vert(LL) Vert(TL) Horiz(TL)	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 = 10%
LUMBER TOP CHORD BOT CHORD OTHERS BRACING TOP CHORD BOT CHORD REACTIONS	2x4 SPF 1 2x3 SPF 1 Structural 6-0-0 oc p Rigid ceili bracing. (size) Max Horiz Max Uplift	No.2 No.2 I wood shea purlins. ing directly 1=12-11-6 1=-133 (L 1=-34 (LC (LC 9), 8= 1=119 (LC	4), 5=-11 (LC 5), 6= -178 (LC 8) 2 16), 5=102 (LC 15) 2 16), 7=257 (LC 1),	: 1-6, =-178	 chord live loa * This truss I on the bottoo 3-06-00 tall I chord and at 8) Provide mec bearing plate 1, 11 lb uplift uplift at joint 9) This truss is International 	designed in accord Residential Code nd referenced stan	vith any for a liv s where Il fit betw (by oth anding 3 plift at ju dance w sections	other live loa e load of 20.0 a rectangle veen the botto ers) of truss t i4 lb uplift at j joint 8 and 178 ith the 2018 i R502.11.1 a	0psf om o oint 3 Ib					
FORCES	(lb) - Max Tension	imum Com	pression/Maximum											
TOP CHORD	1-2=-141/ 4-5=-123/		171/112, 3-4=-167/8	8,										
BOT CHORD	1-8=-39/9 5-6=-39/9		95, 6-7=-39/95,											
WEBS	3-7=-172/	2, 2-8=-29	3/219, 4-6=-293/219											
NOTES													OF	ALL ALL
 Unbalanced roof live loads have been considered for this design. Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60 												I	STATE OF M	I M. ER

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. Gable requires continuous bottom chord bearing.

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

MiTek

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March 31,2021

PE-200101880

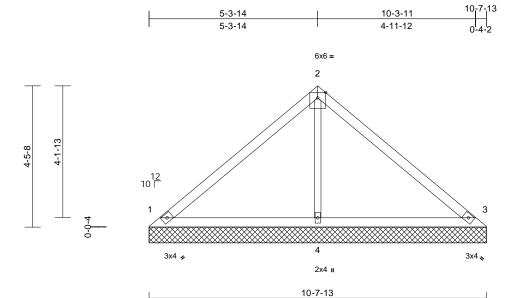
SSIONAL E

Job	Truss	Truss Type	Qty	Ply	Lot 27 OS	
Lot 27 OS	V2	Valley	1	1	Job Reference (optional)	145424730

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Page: 1



Scale	- 1	1.36.4	

Loading	(psf)	Spacing	2-0-0		CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15		TC	0.35	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15		BC	0.21	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES		WB	0.10	Horiz(TL)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC201	8/TPI2014	Matrix-S							Weight: 30 lb	FT = 10%
LUMBER			7)	* This truss h	nas been desigr	ned for a liv	e load of 20.	0psf					
TOP CHORD	2x4 SPF No.2		,	on the bottor	n chord in all ar	eas where	a rectangle						
BOT CHORD	2x4 SPF No.2			3-06-00 tall b	y 2-00-00 wide	will fit betw	veen the bott	tom					
OTHERS	2x3 SPF No.2			chord and ar	ny other membe	ers.							
BRACING			8)	Provide mec	hanical connect	tion (by oth	ers) of truss	to					
TOP CHORD	Structural wood she	athing directly applie	ed or		e capable of with			joint					
	6-0-0 oc purlins.	annig anoonj appne		1, 54 lb uplift	at joint 3 and 9	lb uplift at	joint 4.						
BOT CHORD	Rigid ceiling directly	applied or 10-0-0 or	9)		designed in acc								
	bracing.				Residential Co			and					
REACTIONS	•	3, 3=10-7-13, 4=10-7	7-13	R802.10.2 a	nd referenced s	tandard AN	ISI/TPI 1.						
	Max Horiz 1=-108 (L	, ,	Ľ	DAD CASE(S)	Standard								
	Max Uplift 1=-42 (LC	,	9										
	(LC 8)	-,,,,-	•										
	Max Grav 1=248 (LC	C 1), 3=248 (LC 1), 4	1=394										
	(LC 1)	- // //											
FORCES	(lb) - Maximum Com	pression/Maximum											
	Tension												
TOP CHORD	1-2=-205/95, 2-3=-2	04/76											
BOT CHORD	1-4=-24/95, 3-4=-24	/95											
WEBS	2-4=-242/60												
NOTES													
1) Unbalanc	ed roof live loads have	been considered for	r										
this desig	n.												
2) Wind: AS	CE 7-16; Vult=115mph	(3-second gust)											and a
Vasd=91r	nph: TCDL=6.0psf: BC	DL=6.0psf: h=25ft: (Cat.									Same	and

=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed ; end vertical left and

right exposed; 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) Gable requires continuous bottom chord bearing. Gable studs spaced at 4-0-0 oc.

5)

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

OF MISSO SCOTT M. SEVIER PE-2001018807 SSIONAL E March 31,2021



Job	Truss	Truss Type	Qty	Ply	Lot 27 OS	
Lot 27 OS	V3	Valley	1	1	Job Reference (optional)	145424731

2-9-14

Wheeler Lumber, Waverly, KS - 66871,

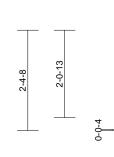
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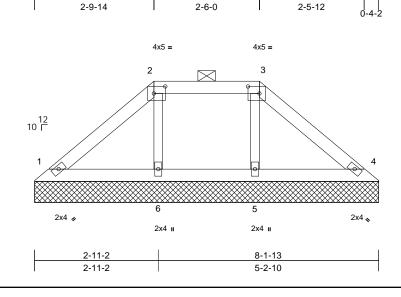


l4zJC?f

8-1-13

7-9-11





5-3-14

Scale = 1:27.3

Plate Offsets (X, Y): [2:0-3-4,0-2-0], [3:0-3-4,0-2-0]

Loading	(psf)	Spacing	2-0-0		CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15		TC	0.11	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15		BC	0.04	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES		WB	0.03	Horiz(TL)	0.00	4	n/a	n/a		
BCDL	10.0	Code	IRC2018/	TPI2014	Matrix-P							Weight: 22 lb	FT = 10%
LUMBER TOP CHORE BOT CHORE WEBS OTHERS BRACING TOP CHORE BOT CHORE REACTIONS	 2x4 SPF No.2 2x3 SPF No.2 2x3 SPF No.2 2x3 SPF No.2 Structural wood she 6-0-0 oc purlins, exc 2-0-0 oc purlins (6-0 Rigid ceiling directly bracing. (size) 1=8-1-13, 6=8-1-13 Max Horiz 1=-54 (LC (LC 4), 6= Max Grav 1=136 (LC (LC 22), 6 	cept -0 max.): 2-3. applied or 10-0-0 oc 4=8-1-13, 5=8-1-13 C 4) C 9), 4=-32 (LC 9), 5= -27 (LC 5) C 1), 4=136 (LC 1), 5 S=201 (LC 21)	8) d or 9) ; 10) ; 11) =-14	chord live loa * This truss h on the botton 3-06-00 tall b chord and arn Provide mecl bearing plate 1, 32 lb uplift uplift at joint This truss is International R802.10.2 ar Graphical pu	designed in accor Residential Code nd referenced star rlin representation titon of the purlin a l.	with any d for a liv s where ill fit betw n (by oth tanding 2 plift at joi rdance w sections ndard AN n does no	other live loa e load of 20.0 a rectangle veen the botth ers) of truss t 4 lb uplift at j nt 5 and 27 ll ith the 2018 5 R502.11.1 a ISI/TPI 1. ot depict the s	Opsf om oint o nd					
FORCES	Tension OP CHORD 1-2=-90/45, 2-3=-28/51, 3-4=-90/30 OT CHORD 1-6=-19/46, 5-6=-18/40, 4-5=-16/44												
TOP CHORD BOT CHORD WEBS													
NOTES	, -											OF I	APPIN
 Unbalance this designed Wind: AS Vasd=91 II; Exp C; cantileve right exp 3) Truss des only. For see Stan or consul Provide a 5) Gable ree 	eed roof live loads have gn. SCE 7-16; Vult=115mph mph; TCDL=6.0psf; BC ; Enclosed; MWFRS (er r left and right exposed osed; Lumber DOL=1.6 signed for wind loads in r studs exposed to wind dard Industry Gable En It qualified building desi adequate drainage to pr quires continuous botto uds spaced at 4-0-0 oc.	(3-second gust) DL=6.0psf; h=25ff; C twelope) exterior zon ; end vertical left and 0 plate grip DOL=1.6 the plane of the trus (normal to the face) d Details as applicat gner as per ANS/ITP event water ponding	Cat. e; 50 ss , ole, 1 1.									PE-2001	HER BER 018807

March 31,2021



Job	Truss	Truss Type	Qty	Ply	Lot 27 OS	
Lot 27 OS	V4	Valley	1	1	Job Reference (optional)	145424732

3-2-6

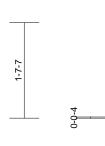
3-2-6

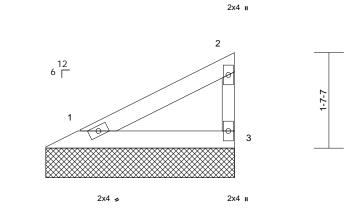
Wheeler Lumber, Waverly, KS - 66871,

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Page: 1







Scal			

Scale = 1.19.5												
Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.11	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.06	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horiz(TL)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 8 lb	FT = 10%
LUMBER				s is designed in acc								
TOP CHORD				nal Residential Coo			nd					
BOT CHORD				2 and referenced st	andard AN	ISI/TPI 1.						
WEBS	2x3 SPF No.2		LOAD CASE	(S) Standard								
BRACING												
TOP CHORD			ed or									
	3-2-14 oc purlins, e											
BOT CHORD	Rigid ceiling directly bracing.	applied or 10-0-0 or	C									
REACTIONS	(size) 1=3-2-6, 3	3=3-2-6										
	Max Horiz 1=52 (LC											
Max Uplift 1=-14 (LC 8), 3=-28 (LC 8)												
	Max Grav 1=113 (L0											
FORCES	(lb) - Maximum Com	pression/Maximum										
TOP CHORD	Tension 1-2=-48/31, 2-3=-88	/42										
BOT CHORD	,	/43										
	1-3=-10/14											
NOTES		(0										
	CE 7-16; Vult=115mph nph; TCDL=6.0psf; BC		Cat									
	Enclosed; MWFRS (er											
	left and right exposed											
	sed; Lumber DOL=1.6											
	signed for wind loads in											(m)
only. For	studs exposed to wind	(normal to the face)),								TATE OF	A BURN
	dard Industry Gable En										F.OF	MISS
	qualified building desig		기 1.							4		N.S.
	uires continuous botto	m chord bearing.								A	S SCOT	TM. CAN
	ds spaced at 4-0-0 oc.									H		TER \ X
	has been designed for		da						1	Ma		
	load nonconcurrent wi ss has been designed f								ι, i	-NY	-	Xm Ink
	ttom chord in all areas		ipsi								con	- en al
	i-00 tall by 2-00-00 wide will fit between the bottom d and any other members.											
								1018807				
	nechanical connection ((by others) of truss to	0							V	The second secon	158
	late capable of withstar	nding 14 lb uplift at jo	oint								*SSIONA	FNO
1 and 28 l	lb uplift at joint 3.										UNA	AL L'A
											and the	000

March 31,2021

16023 Swingley Ridge Rd Chesterfield, MO 63017

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building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing
is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the
fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component
Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

