

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

Re: B230005 Lot 50 OS

The truss drawing(s) referenced below have been prepared by MiTek USA, Inc. under my direct supervision based on the parameters provided by Wheeler - Waverly.

Pages or sheets covered by this seal: I56071037 thru I56071077

My license renewal date for the state of Missouri is December 31, 2024.

Missouri COA: Engineering 001193



January 10,2023

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

RF ΞΩΡ CONSI NOTED ON PLANS REVIEW Δ EXELOPMENT SERVICES SUMMIT, MISSOURI Lumber, Waverly, KS - 66871, 5/2023 3:17:48

Truss Type	Qty	Ply	Lot 50 OS	
Half Hip Girder	2	1	Job Reference (optional)	156071037
Run: 8.43 S. Jan. 6.20)22 Print: 8 4	30 S.Jan 62	2022 MiTek Industries Inc. Tue Jan 10 13:25:23	Page: 1

ID:497xtQGJ1X82X2xt2ymjyzymezV-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

2-0-9

3x4 II

5

6

 \bigotimes

6x6 =



Scale = 1:31.5

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	0.50	Vert(LL)	-0.17	6-7	>900	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15		BC	0.59	Vert(CT)	-0.35	6-7	>431	240		
BCLL	0.0*	Rep Stress Incr	NO		WB	0.83	Horz(CT)	0.03	6	n/a	n/a		
BCDL	10.0	Code	IRC201	8/TPI2014	Matrix-S		Wind(LL)	0.05	6-7	>999	240	Weight: 40 lb	FT = 10%
LUMBER			6)	Provide mec	hanical connectior	n (by oth	ers) of truss	to					
TOP CHORD	2x4 SPF No.2			bearing plate	capable of withsta	anding 2	223 lb uplift a	t					
BOT CHORD	2x4 SPF 2100F 1.8E	E		,	51 lb uplift at joint 2								
WEBS	2x3 SPF No.2		7)		designed in accord								
BRACING					Residential Code ad referenced stan			and					
TOP CHORD					rlin representation								
	3-5-15 oc purlins, e 2-0-0 oc purlins (3-1		and 0)		ation of the purlin a			5120					
BOT CHORD		,	•	bottom chord		liong in							
BOTCHORD	bracing.	applied of 10-0-0 of	9)	Hanger(s) or	other connection	device(s	s) shall be						
REACTIONS	(size) 2=0-3-8, 6	5=0-3-8			icient to support c		· · ·						
	Max Horiz 2=79 (LC				78 lb up at 5-0-0,								
	Max Uplift 2=-251 (L	/		,	d 113 lb down and and 77 lb up at 11		,						
	Max Grav 2=991 (LC	C 1), 6=957 (LC 1)			and 59 lb up at 5-								
FORCES	(lb) - Maximum Com	pression/Maximum			wn at 9-0-0, and 5								
	Tension			bottom chord	I. The design/sele	ction of	such connec	tion					
TOP CHORD			,	device(s) is t	he responsibility o	f others.							
	4-5=-91/9, 5-6=-165		10		CASE(S) section,			face					
BOT CHORD					re noted as front (F) or ba	ck (B).						
WEBS	3-7=0/424, 4-6=-167	4/535, 4-7=0/498		OAD CASE(S)									
NOTES			1)		of Live (balanced):	Lumber	Increase=1.	15,					
,	ed roof live loads have	been considered to	r	Plate Increa									111.
this desig				Uniform Loa	· · ·							UNIT I	Sector.

this design. 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

Provide adequate drainage to prevent water ponding. 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.

Vert: 1-3=-70, 3-5=-70, 2-6=-20 Concentrated Loads (lb)

Vert: 3=-90 (F), 7=-288 (F), 4=-90 (F), 8=-90 (F), 9=-90 (F), 10=-28 (F), 11=-28 (F), 12=-28 (F)





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

RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI Wheeler Lumber, Waverly, KS - 66871 01/26/2023 3:17:48

2-10-0

2-8-7 2-8-7

0-1-9

Truss Type Half Hip	Qty 2	Ply 1	Lot 50 OS Job Reference (optional)	156071038
			2022 MiTek Industries, Inc. Tue Jan 10 13:25:25 /0Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f	Page: 1



Scale = 1:31.2

2-11-3

Plate Offsets	(X, Y):	[2:Edge,0-0-10], [4:Edge,0-2-8]	

	3 (X, 1): [2:Euge,0 0 10	, [4.Luge,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	0.74	Vert(LL)	-0.06	2-6	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15		BC	0.49	Vert(CT)	-0.14	2-6	>999	240		
BCLL	0.0*	Rep Stress Incr	YES		WB	0.88	Horz(CT)	0.02	5	n/a	n/a		
BCDL	10.0	Code	IRC2018/T	PI2014	Matrix-S		Wind(LL)	0.05	2-6	>999	240	Weight: 40 lb	FT = 10%
LUMBER TOP CHOR BOT CHOR WEBS BRACING TOP CHOR BOT CHOR	 D 2x4 SPF No.2 2x3 SPF No.2 D Structural wood shea 3-4-13 oc purlins, ea 2-0-0 oc purlins (6-0 	xcept end verticals, a -0 max.): 3-4.	b ja 7) T In ed or F and 8) C	bearing plate oint 5 and 14 This truss is o nternational R802.10.2 an Graphical pui	nanical connection capable of withst 17 lb uplift at joint designed in accor Residential Code nd referenced star rlin representatior tion of the purlin a	anding 1 2. dance w sections ndard AN n does no	09 lb uplift at ith the 2018 s R502.11.1 a ISI/TPI 1. ot depict the s	and					
	bracing.	.,,		D CASE(S)	Standard								
FORCES	S (size) 2=0-3-8, 5 Max Horiz 2=108 (LC Max Uplift 2=-147 (L Max Grav 2=646 (LC (Ib) - Maximum Com Tension	C 5) C 4), 5=-109 (LC 4) C 1), 5=569 (LC 1)											
TOP CHOR		54, 3-4=-52/35,											
BOT CHOR WEBS	D 2-6=-127/838, 5-6=- 3-6=0/304, 3-5=-862												
 this desi Wind: A Vasd=9 II; Exp C cantilevi right exg Provide This trus chord liv * This tri on the b 	need roof live loads have ign. SCE 7-16; Vult=115mph 1mph; TCDL=6.0psf; BC C; Enclosed; MWFRS (er er left and right exposed oosed; Lumber DOL=1.6 adequate drainage to pross has been designed for ve load nonconcurrent wi uss has been designed for isottom chord in all areas i tall by 2-00-00 wite will	(3-second gust) DL=6.0psf; h=25ft; C welope) exterior zon ; end vertical left and 0 plate grip DOL=1.6 event water ponding a 10.0 psf bottom th any other live load or a live load of 20.0 where a rectangle	Cat. e; d 50 ds. psf								·····* Pho	XUEG LII E-29	ANG BER 713

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.

January 10,2023





ASE FOR CONSTRUCTION RF **NOTED ON PLA** Δ EXELOPMENT S S SUMMIT

0-9-8

3-4-7 3-4-7

3-7-3

Scale = 1:31.6

	REVIEW	Truss Type		Qty	Ply	Lot 50 OS		15607103	20
	VIÇES	Half Hip		2	1	Job Reference (opti	onal)	15607103	9
3:1	7:48						nc. Tue Jan 10 13:25:26 IXbGKWrCDoi7J4zJC?f	P	age: 1
		-0-10-8 0-10-8	5-1-4 5-1-4		<u>9-0-0</u> 3-10-12		12-11-8 3-11-8	—	
			12			6x6 =		2x4 II	
			12 4 ┌ 2x4 3	*	0-1-9	4		5 ×	
		2	P						3-4-7
		1			/			6	
				7				\mathbb{R}	
		3x4 =		3x4	-			3x4 =	
			6-2-15 6-2-15			<u>12-11-8</u> 6-8-9			
-									

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	0.27	Vert(LL)	-0.05	6-7	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.43	Vert(CT)	-0.11	6-7	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.37	Horz(CT)	0.01	6	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.02	2-7	>999	240	Weight: 42 lb	FT = 10%
			7) This trues is	designed in ac	cordance w	ith the 2018						

LUWBER	
TOP CHORD	2x4 SPF No.2
BOT CHORD	2x4 SPF No.2
WEBS	2x3 SPF No.2
BRACING	
TOP CHORD	Structural wood sheathing directly applied or
	5-2-4 oc purlins, except end verticals, and
	2-0-0 oc purlins (6-0-0 max.): 4-5.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc
	bracing.
REACTIONS	(size) 2=0-3-8, 6=0-3-8
	Max Horiz 2=138 (LC 5)
	Max Uplift 2=-145 (LC 4), 6=-112 (LC 4)
	Max Grav 2=646 (LC 1), 6=569 (LC 1)
FORCES	(lb) - Maximum Compression/Maximum
	Tension
TOP CHORD	1-2=0/6, 2-3=-1102/195, 3-4=-914/174,
	4-5=-50/35, 5-6=-132/54
BOT CHORD	2-7=-194/977, 6-7=-104/487

- WEBS 3-7=-277/155, 4-7=-59/512, 4-6=-608/146
- NOTES
- Unbalanced roof live loads have been considered for 1) this design.
- 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
- Provide adequate drainage to prevent water ponding. 3)
- This truss has been designed for a 10.0 psf bottom 4) chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf 5) 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.
- Provide mechanical connection (by others) of truss to 6) bearing plate capable of withstanding 112 lb uplift at joint 6 and 145 lb uplift at joint 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.

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

LOAD CASE(S) Standard





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RELEASE FOR CONSTRUCTION AS WOTED ON PLANS REVIEW DEXELOPMENT SERVICES LEE'S SUMMIT, MISSOURI Wheeler Lumber Wavery, KS - F6871 01/26/2023 3:17:48

0-1-9

4-0-7 4-0-7



Scale = 1:33.2

4-2-0

Loading (psf) Spacing 2-0-0 CSI DEFL in (loc) I/deft L/d TCLL 10:0 Plate Grip DOL 1.15 TC 0.42 Vert(LL) -0.09 1-6 >999 360 BCL 0:0* BC 0.49 Vert(CT) -0.19 1-6 >822 240 MBER 0:0* BC 0.49 Vert(CT) 0.01 5 vind(LL) 0.02 1-6 >999 240 Weight: 43 lb FT = 10% LUMBER TOP CHORD 2x4 SPF No.2 BC 0.49 Vert(ST) 0.1 5 vind(LL) 0.02 1-6 >999 240 Weight: 43 lb FT = 10% UMBER ToP CHORD 2x4 SPF No.2 B This truss is designed in accordance with the 2018 Nint Kitz B 1 finate cancer with the 2018 Nint Kitz B Cappical purlin representation des not depic the size or the orientation of the purlin along the top and/or bottom chord. DAD CASE(S) Standard DAD CASE(S) Standard DAD CASE(S)													
Loading	(psf)	Spacing	2-0-0	csi		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
()		1 '				. ,					MT20	197/144	
						. ,							
					0.26								
BCDL	10.0	Code	IRC2018/TPI201	4 Matrix-S		Wind(LL)	0.02	1-6	>999	240	Weight: 43 lb	FT = 10%	
LUMBER			8) This tru	uss is designed in acc	ordance w	ith the 2018							
	2x4 SPF No.2						and						
BOT CHORD	2x4 SPF No.2		R802.1	0.2 and referenced s	tandard AN	NSI/TPI 1.							
WEBS	2x3 SPF No.2		9) Graphi	cal purlin representati	ion does no	ot depict the s	size						
BRACING					n along the	e top and/or							
TOP CHORD	Structural wood she	athing directly applie	d or bottom	chord.									
			nd LOAD CAS	SE(S) Standard									
BOT CHORD	0 0 ,	applied or 10-0-0 oc											
	0												
	()	,											
	(,											
		,, , , ,											
	(,, (,											
FORCES	()	npression/iviaximum											
		755/128 3-456/4	2										
	,	-100/120, 0-400/4	ζ,										
BOT CHORD		=-72/257											
	,		5										
NOTES	,												
	ed roof live loads have	been considered for											
•		(3-second gust)										<u>н</u> .	
Vasd=91m	nph; TCDL=6.0psf; BC	DL=6.0psf; h=25ft; C	Cat.								IN OF	MICH	
II; Exp C; I	Enclosed; MWFRS (er	nvelope) exterior zon	e;								NE		

- cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 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.

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

 Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 97 lb uplift at joint 1 and 118 lb uplift at joint 5.

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RF CONSI NOTED ON PLANS REVIEW EXELOPMENT SERVICES ; SUMMIT, MISSÖURI Lumber Waverly, ks. 56871 6/2023 3:17:48

Truss Type Monopitch	Qty 2	Ply 1	Lot 50 OS Job Reference (optional)	156071041
			2022 MiTek Industries, Inc. Tue Jan 10 13:25:26 70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f	Page: 1







6-2-6	12-11-8
6-2-6	6-9-2

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	0.57	Vert(LL)	-0.06	4-5	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.44	Vert(CT)	-0.13	4-5	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.49	Horz(CT)	0.02	4	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.04	1-5	>999	240	Weight: 41 lb	FT = 10%

LUMBE	R
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Scale = 1:40.4

TOP CHORD	2x4 SPF I	No.2									
BOT CHORD	2x4 SPF I	No.2									
WEBS	2x3 SPF I	No.2									
BRACING											
TOP CHORD	Structura	wood sheathing directly applied or									
	4-11-7 oc	4-11-7 oc purlins, except end verticals.									
BOT CHORD	Rigid ceil	ing directly applied or 10-0-0 oc									
	bracing.										
WEBS	1 Row at	midpt 2-4									
REACTIONS	(size)	1= Mechanical, 4=0-3-8									
	Max Horiz	1=200 (LC 7)									
	Max Uplift	1=-92 (LC 4), 4=-124 (LC 8)									
	Max Grav	1=576 (LC 1), 4=576 (LC 1)									

FORCES	(lb) - Maximum Compression/Maximum
	Tension
TOP CHORD	1-2=-1096/170, 2-3=-145/28, 3-4=-188/78
BOT CHORD	1-5=-198/987 4-5=-198/987

WEBS 2-5=0/305, 2-4=-1024/252

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
- This truss has been designed for a 10.0 psf bottom 2) chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 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.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 92 lb uplift at joint 1 and 124 lb uplift at joint 4.
- This truss is designed in accordance with the 2018 6) International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

111 MI \cap XUEGANG LIU JUMBE E-29713 S/ONAL E min January 10,2023



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RE CONST ICTIO NOTED ON PLANS REVIEW Α EXELOPMENT SERVICES Summit, missouri Lumber Waverly, KS - 66871, 6/2023 3:17:48

Truss Type		Qty	Ply			
Roof Special Girder		2	1	Job Reference (optional)	156071042	
	Run: 8.43 S Jan 6 20	022 Print: 8.4	30 S Jan 6 2	2022 MiTek Industries, Inc. Tue Jan 10 13:25:27	Page: 1	

ID:GMPpSQDtQp5qWBU2A2hFfeymeyG-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Scale = 1:51.7

Plate Offsets (X, Y): [2:0-1-5,0-0-1], [6:0-7-0,0-2-4], [12:0-2-8,0-3-0]

	, Y): [2:0-1-5,0-0-1],	[6:0-7-0,0-2-4], [12:	0-2-8,0-3-	UJ									
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 NO IRC201	8/TPI2014	CSI TC BC WB Matrix-S	0.98 0.88 0.90	DEFL Vert(LL) Vert(CT) Horz(CT) Wind(LL)	in -0.53 -0.93 0.13 0.45	(loc) 9-11 9-11 8 9-11	l/defl >584 >330 n/a >693	L/d 360 240 n/a 240	PLATES MT20 M18AHS Weight: 118 lb	GRIP 197/144 142/136 FT = 10%
LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD BOT CHORD WEBS REACTIONS (NOTES TOP CHORD BOT CHORD BOT CHORD WEBS NOTES 1) Wind: ASCI Vasd=91mp II; Exp C; E cantilever la right expose 2) Provide add	2x4 SPF 2100F 1.8E 2400F 2.0E 2x6 SP DSS 2x3 SPF No.2 *Exce 1.8E Structural wood she: 3-0-1 oc purlins, exi 2-0-0 oc purlins (2-0 Rigid ceiling directly bracing.	*Except* 3-6:2x4 S pt* 8-6:2x4 SPF 210 athing directly applie cept end verticals, a applied or 6-6-3 oc 4-12, 5-9 6-8 3=0-3-8 C 4), 8=-352 (LC 8) C 4), 8=-352 (LC 8) C 1), 8=1664 (LC 1) pression/Maximum i/1145, 3-4=-4910/10 i=-5970/1209, 55/109 1-12=-1751/7571, 9=-1233/6023 i=-100/918, 1=0/721, 1=-152/578, (3-second gust) DL=6.0psf; h=25ft; C ivelope) exterior zon ; end vertical left and 0 plate grip DOL=-1. event water ponding	4) PF 5) 00F 6) old or 7) nd 7) 8) 9) 0) 92, 10 L(1) Sat. e; 50	 This truss ha chord live loa * This truss ha on the bottor 3-06-00 tall b chord and ar Provide mec bearing plate joint 8 and 44 This truss is International R802.10.2 ar Graphical pu or the orienta bottom chorc Hanger(s) or provided suff lb down and at 7-0-0, and 113 lb down 288 lb down ad design/selec responsibility In the LOAD of the truss a DAD CASE(S) Dead + Roo Plate Increa: Uniform Loo Vert: 1-3 Concentratu 	s been designed ad nonconcurrent nas been designe n chord in all are y 2-00-00 wide v y other members hanical connectio capable of withs 33 lb uplift at join designed in acco Residential Code and referenced sta- rin representatio ation of the purlin d. other connection ficient to support 78 lb up at 5-0-0 d 113 lb down an and 77 lb up at 5 d 113 lb down an and 77 lb up at 5 d 113 lb down an and 77 lb up at 5 d 113 lb down an and 77 lb up at 5 d 114 lb up at 12- tion of such conne of others. CASE(S) section re noted as front Standard of Live (balanced ase=1.15 ads (lb/ft) =-70, 3-6=-70, 6- ed Loads (lb) 90 (F), 12=-288 (F), 16	with any with any d for a liv as where will fit betv 5. In (by oth standing 3 t 2. rdance w a sections andard AN n does no along the a device(s concentra), 113 lb c d 77 lb up 11-0-0 on 5-0-0, 56 b down at 11-4 on b ection de h, loads at (F) or ba): Lumber 7=-70, 2-i F), 4=-90	D psf bottom other live load e load of 20.0 a rectangle veen the botto fs2 lb uplift at th the 2018 R502.11.1 a SI/TPI 1. th depict the se top and/or) shall be tied load(s) 1 own and 77 at 9-0-0, ard b down at 77 11-0-0, and b down at 77 11-0-0, and b down at 77 at 9-0-0, ard b down at 9-0-0, ard b	ads. Opsf om to t size 13 lb up ad -o-0, 1635 The face 15,	3-11	2033	* 87	2 XUEG LIL NUME E-29	ANG BER 13 LENG

- right exposed; Lumber DOL=1.60 plate grip DOL=1.60 Provide adequate drainage to prevent water ponding. 2)
- All plates are MT20 plates unless otherwise indicated. 3)

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



RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI Wheeler Lumber Wavery, KS - 6687 01/26/2023 3:17:48

	Truss Type	Qty	Ply		
	Roof Special	2	Job Reference (optional)	156071043	
	Page: 1				

ID:wCBC69mjbxuJ1F?usiW1WKymexY-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Scale = 1:51.3

Plate Offsets (X, Y): [2:0-0-4,0-1-2], [5:0-6-0,0-2-1]

	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,												
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		тс	0.65	Vert(LL)	-0.22	8-10	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15		BC	0.82	Vert(CT)	-0.40	8-10	>776	240		
BCLL	0.0*	Rep Stress Incr	YES		WB	0.93	Horz(CT)	0.10	7	n/a	n/a		
BCDL	10.0	Code	IRC201	8/TPI2014	Matrix-S		Wind(LL)	0.18	8-10	>999	240	Weight: 86 lb	FT = 10%
LUMBER TOP CHORD		E *Except* 5-6:2x4 \$	5) SPF	bearing plate	hanical connections capable of withs	standing 2							
	No.2		0	,	53 lb uplift at join		ub ub a 0040						
BOT CHORD WEBS	2x4 SPF No.2 2x3 SPF No.2	2x3 SPF No.2 International Residential Code sections R502.11.1 and											
BRACING	R802.10.2 and referenced standard ANSI/TPI 1.												
TOP CHORD	3-6-3 oc purlins, except end verticals, and 2-0-0 oc purlins (3-11-0 max.): 3-5.or the orientation of the purlin along the top and/or bottom chord.												
BOT CHORD	Rigid ceiling directly applied or 8-6-10 oc LOAD CASE(S) Standard bracing.												
WEBS	1 Row at midpt	5-7											
REACTIONS	(size) 2=0-3-8, 7	7=0-3-8											
	Max Horiz 2=202 (LC												
	Max Uplift 2=-253 (L	.C 4), 7=-224 (LC 8))										
	Max Grav 2=1230 (L	LC 1), 7=1155 (LC 1)										
FORCES	(lb) - Maximum Com Tension	pression/Maximum											
TOP CHORD	1-2=0/6, 2-3=-2680/- 4-5=-3196/605, 5-6=												
BOT CHORD	2-11=-467/2447, 10- 8-10=-380/2185, 7-8												
WEBS	3-11=0/295, 3-10=-1 5-10=-232/1078, 5-8												
NOTES	,											NEOF	SS
	CE 7-16; Vult=115mph	(3-second aust)									1	A	
	nph; TCDL=6.0psf; BC		Cat.								2	A.	
II; Exp C;					24	> XUEG							
	left and right exposed											: LI	U
right expos	tt exposed; Lumber DOL=1.60 plate grip DOL=1.60											M	1 1375

- Provide adequate drainage to prevent water ponding.
 This truss has been designed for a 10.0 psf bottom
- chord live load nonconcurrent with any other live loads.
 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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29713

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January 10,2023

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

	Truss Type Roof Special	Qty 2	Ply 1	Lot 50 OS Job Reference (optional)	156071044	
	Page: 1					



Scale = 1:51.3

Plate Offsets (X, Y): [6:0-4-12,Edge]

	, , ,), [ete t 1_,_ege	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	0.74	Vert(LL)	-0.18	2-12	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.84	Vert(CT)	-0.41	2-12	>759	240	101120	157/144
BCLL	0.0*	Rep Stress Incr	YES	WB	0.97	Horz(CT)	0.08	8	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S	0.01	Wind(LL)	0.14		>999	240	Weight: 91 lb	FT = 10%
						()						
LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD	2x4 SPF No.2 2x3 SPF No.2 Structural wood she 3-3-5 oc purlins, ex		bearing plate joint 8 and 2 6) This truss is International d or R802.10.2 a nd 7) Graphical pu	chanical connections capable of withs 53 lb uplift at join designed in acco Residential Code nd referenced statur urlin representation at the purlin	standing 2 t 2. ordance w e sections andard AN on does no	224 lb uplift a ith the 2018 R502.11.1 a ISI/TPI 1. ot depict the	t and					
BOT CHORD	2-0-0 oc purlins (2-10-11 max.): 4-6. BOT CHORD Rigid ceiling directly applied or 7-8-2 oc bracing. LOAD CASE(S) Standard											
REACTIONS	0	C 7) C 4), 8=-224 (LC 8)	.,									
FORCES	(lb) - Maximum Com Tension	,. , ,										
TOP CHORD	1-2=0/6, 2-3=-2657/ 4-5=-2431/484, 5-6= 7-8=-111/44		/33,									
BOT CHORD	2-12=-567/2440, 10- 9-10=-202/1255, 8-9											
WEBS	3-12=-242/180, 4-12	2=0/344, 4-10=-61/25)=-274/1303, 6-9=0/2	,									
NOTES											NEOF	VIISS I
 Wind: ASC Vasd=91n II; Exp C; I cantilever right expo: Provide ac This truss chord live * This truss on the bot 3-06-00 ta 	CE 7-16; Vult=115mph nph; TCDL=6.0psf; BC Enclosed; MWFRS (er left and right exposed sed; Lumber DOL=1.6 dequate drainage to pr has been designed fo load nonconcurrent wi s has been designed f tom chord in all areas II by 2-00-00 wide will any other members.	DL=6.0psf; h=25ft; C ivelope) exterior zon ; end vertical left and 0 plate grip DOL=1.6 event water ponding r a 10.0 psf bottom th any other live load or a live load of 20.0 where a rectangle	e; i 0 s. ssf							COLUMN PROVIN	XUEG LIU E-29 SS/ON January	BER MA

3 rev. 5/19/2020 BEFORE USE. Ival building component, not te this design into the overall mporary and permanent bracing idance regarding the a, DSB-89 and BCSI Building Component 16023 Swingley Ridge Rd Chesterfield, MO 63017

A 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
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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

RE FOR CONST NOTED ON PLANS REVIEW Α DEXELOPMENT SERVICES S SUMMIT, MISSOURI er Lumber, Waverly, KS - 66871, 26/2023 3:17:48

	Truss Type		Qty Ply Lot 50 OS				
	Roof Special	2	1	156071045			
	Page: 1						

ID:tgPfp5dd5SiNR0LLzPmSM5ymewS-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Scale = 1:51.3

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	0.69	Vert(LL)	-0.16	8-9	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15		BC	0.78	Vert(CT)	-0.35	8-9	>891	240		
BCLL	0.0*	Rep Stress Incr	YES		WB	0.55	Horz(CT)	0.07	8	n/a	n/a		
BCDL	10.0	Code	IRC2018	B/TPI2014	Matrix-S		Wind(LL)	0.11	11-12	>999	240	Weight: 91 lb	FT = 10%
LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD	2x4 SPF No.2 2x4 SPF No.2 2x3 SPF No.2 Structural wood she 2-6-0 oc purlins, exi 2-0-0 oc purlins (3-6	cept end verticals, a		bearing plate joint 8 and 29 This truss is International R802.10.2 an Graphical put	hanical connectic capable of withs 53 lb uplift at joint designed in acco Residential Code nd referenced sta rlin representatio ation of the purlin	standing 2 t 2. rdance w e sections indard AN n does no	24 Ib uplift a ith the 2018 R502.11.1 a ISI/TPI 1. ot depict the s	t and					
BOT CHORD	Rigid ceiling directly bracing.			bottom chore	i	<u>j</u>							
REACTIONS (size) 2=0-3-8, 8=0-3-8 Max Horiz 2=202 (LC 7) Max Uplift 2=-253 (LC 4), 8=-224 (LC 8) Max Grav 2=1230 (LC 1), 8=-1155 (LC 1)													
FORCES	(lb) - Maximum Com Tension	,, ()											
TOP CHORD	1-2=0/6, 2-3=-2683/4 4-5=-1853/381, 5-6= 7-8=-13/13	, ,	42,										
BOT CHORD	2-12=-490/2448, 11- 9-11=-352/1934, 8-9	,											
WEBS	3-12=0/232, 3-11=-5 4-9=-96/62, 5-9=-55 6-8=-1189/293	,	,										
Vasd=91m II; Exp C; E cantilever I	CE 7-16; Vult=115mph nph; TCDL=6.0psf; BC Enclosed; MWFRS (er left and right exposed	e; J								in in	XATE OF	MISSOURANG	

right exposed; Lumber DOL=1.60 plate grip DOL=1.60 Provide adequate drainage to prevent water ponding. 2)

- 3) This truss has been designed for a 10.0 psf bottom
- chord live load nonconcurrent with any other live loads. * This truss has been designed for a live load of 20.0psf 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.

NUMBEF E-29713 0 8 0 S S/ONALE Minin January 10,2023



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RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI Wheeler Lumber Wavery, KS - 6687 01/26/2023 3:17:49

Truss Type Half Hip	Qty 2	Ply 1	Lot 50 OS Job Reference (optional)	156071046	
			2022 MiTek Industries, Inc. Tue Jan 10 13:25:28 370Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f	Page: 1	



Scale = 1:51.3

00010 = 1.01.0													
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	0.69	Vert(LL)	-0.17	7-8	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15		BC	0.88	Vert(CT)	-0.38	2-10	>815	240		
BCLL	0.0*	Rep Stress Incr	YES		WB	0.78	Horz(CT)	0.07	7	n/a	n/a		
BCDL	10.0	Code	IRC20	18/TPI2014	Matrix-S		Wind(LL)	0.11	2-10	>999	240	Weight: 86 lb	FT = 10%
LUMBER			F	 Provide med 	hanical connect	ion (by oth	ers) of truss	to					
TOP CHORD	2x4 SPF No.2				e capable of with								
BOT CHORD	2x4 SPF No.2			joint 7 and 2	53 lb uplift at joi	nt 2.							
WEBS	2x3 SPF No.2		7) This truss is	designed in acc	ordance wi	ith the 2018						
BRACING					Residential Co			and					
TOP CHORD	Structural wood she	athing directly applie	ed or		nd referenced st								
	2-6-11 oc purlins, e	xcept end verticals,	and ⁸		Irlin representati			size					
	2-0-0 oc purlins (3-8	8-8 max.): 4-6.			ation of the purli	n along the	e top and/or						
BOT CHORD													
	bracing.		L	OAD CASE(S)	Standard								
WEBS		5-7											
	(size) 2=0-3-8, 7												
	Max Horiz 2=197 (LC	,											
	Max Uplift 2=-253 (L												
	Max Grav 2=1230 (L)										
FORCES	(lb) - Maximum Com	pression/Maximum											
	Tension												
TOP CHORD	1-2=0/6, 2-3=-2627/	, ,											
	4-5=-1483/305, 5-6=	,)										
BOT CHORD	2-10=-503/2415, 8-1 7-8=-263/1228	10=-301/1678,											
WEBS	3-10=-406/235, 4-10		/1/2										
VVLDO	5-8=0/503, 5-7=-152	,	· +∠,										
NOTES	0 0-0/000, 0 7-102											_	
	ed roof live loads have	been considered for	r										1111.
this design		Deen considered for										NE OF	MISS

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

Provide adequate drainage to prevent water ponding.
 This truss has been designed for a 10.0 psf bottom

chord live load nonconcurrent with any other live loads. 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. XUEGANG LIU NUMBER E-29713 SONALENG January 10,2023

EFORE USE. onent, not the overall nanent bracing he SI Building Component Chesterfield, MO 63017

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

RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI Wheeler Lumber Wavery, KS - 6687 01/26/2023 3:17:49

Truss Type Half Hip	Qty 2	Ply 1	Lot 50 OS	156071047	
наш пір	2	1	Job Reference (optional)		
			2022 MiTek Industries, Inc. Tue Jan 10 13:25:29)Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f	Page: 1	



Scale = 1:51.3

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

	7, 1). [2.0-0-4,0-1-2]	_				-							
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	8/TPI2014	CSI TC BC WB Matrix-S	0.67 0.65 0.69	DEFL Vert(LL) Vert(CT) Horz(CT) Wind(LL)	in -0.25 -0.51 0.06 0.09	(loc) 2-10 2-10 7 2-10	l/defl >999 >603 n/a >999	L/d 360 240 n/a 240	MT20	GRIP 197/144 FT = 10%
LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD	2x4 SPF 2100F 1.8F No.2 2x4 SPF 2100F 1.8F 2x3 SPF No.2 Structural wood she 3-8-13 oc purlins, e 2-0-0 oc purlins (4-8 Bioid ceiling directly	E eathing directly appli except end verticals, 3-15 max.): 4-6.	6) ed or and 7)	on the botto 3-06-00 tall chord and a Provide med bearing plate joint 7 and 2 This truss is International	has been designe m chord in all are by 2-00-00 wide v ny other members chanical connection e capable of withs 50 lb uplift at join designed in accco I Residential Cod und referenced sta	as where will fit betw s, with BC on (by oth standing 2 t 2. ordance w e sections	a rectangle veen the bott DL = 10.0ps ers) of truss 25 lb uplift a ith the 2018 5 R502.11.1 a	tom if. to t					
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. WEBS 1 Row at midpt 5-7 REACTIONS (size) 2=0-3-8, 7=0-3-8 Max Horiz 2=227 (LC 5) Max Uplift 2=-250 (LC 4), 7=-225 (LC 4) Max Grav 2=1255 (LC 2), 7=1213 (LC 2)								size					
FORCES	(lb) - Maximum Com Tension												
TOP CHORD BOT CHORD	1-2=0/6, 2-3=-2664/ 4-5=-1402/297, 5-6= 2-10=-556/2470, 8-1 7-8=-216/984	=-78/54, 6-7=-150/6											
WEBS	3-10=-601/316, 4-10 4-8=-353/149, 5-8=-		298									NY OF	MISSIL
this design 2) Wind: ASC Vasd=91m II; Exp C; I	ed roof live loads have CE 7-16; Vult=115mph nph; TCDL=6.0psf; BC Enclosed; MWFRS (er left and right exposed	n (3-second gust) DL=6.0psf; h=25ft; nvelope) exterior zo	Cat. ne;								*****	S XUEG	ANG

 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
 Provide adequate drainage to prevent water ponding.

 This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads. XUEGANG LIU NUMBER E-29713 SONALENG

16023 Swingley Ridge Rd Chesterfield, MO 63017

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RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI 01/26/2023 3:17:49

FRUCTION				-			
REVIEW	٦	Truss Type	Qty	Ply	Lot 50 OS		
RVICES	ŀ	Half Hip	2	1	Job Reference (optic	onal)	156071048
17:49					2022 MiTek Industries, Ind 370Hq3NSgPqnL8w3uITX		Page: 1
-0-10-8 0-10-8	<u>5-11-2</u> 5-11-2	12-4-0		<u>17-0-0</u> 4-8-0	21-4-8	<u>25-1</u> 4-7-	-
				_	4x5=	3x6 =	2x4 II
			3x4 ≠	0-1-9 H	5		





4x8=

Scale = 1:51.4

GRIP
197/144
FT = 10%
111.
15011
0/1
NG
1 . 1.1
F

- cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.603) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom
- chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.

16023 Swingley Ridge Rd Chesterfield, MO 63017

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January 10,2023

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Truss Type Half Hip	Qty 2	Ply 1	Lot 50 OS Job Reference (optional)	156071049
			2022 MiTek Industries, Inc. Tue Jan 10 13:25:30 B70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f	Page: 1



Scale = 1:51.4

Plate Offsets (X, Y): [2:0-0-4,0-1-2], [7:Edge,0-2-8]

-													
Loading TCLL (roof)	(psf) 25.0	Spacing Plate Grip DOL	2-0-0 1.15		CSI TC	0.77	DEFL Vert(LL)	in -0.18	(loc) 9-11	l/defl >999	L/d 360	PLATES MT20	GRIP 197/144
TCDL	10.0	Lumber DOL	1.15		BC	0.84	Vert(CT)	-0.37	9-11	>844	240		
BCLL	0.0*	Rep Stress Incr	YES		WB	0.57	Horz(CT)	0.06	8	n/a	n/a		
BCDL	10.0	Code	IRC20	18/TPI2014	Matrix-S		Wind(LL)	0.10	11	>999	240	Weight: 96 lb	FT = 10%
	2x4 SPF No.2 2x4 SPF 2100F 1.8E No.2 2x3 SPF No.2 *Exce Structural wood shee 2-2-0 oc purlins, exc 2-0-0 oc purlins (6-0 Rigid ceiling directly bracing. 1 Row at midpt (size) 2=0-3-8, 8 Max Horiz 2=286 (LC Max Uplift 2=-245 (L Max Grav 2=1258 (L	2 6 ed or 7 nd 7 8 8	 on the botton 3-06-00 tall I chord and an Provide mec bearing plate joint 8 and 2 This truss is International R802.10.2 a Graphical pu 		eas where will fit betw rs, with BC ion (by oth standing 2 nt 2. ordance w de sections andard AN on does no	a rectangle veen the bott DL = 10.0ps ers) of truss 31 lb uplift a ith the 2018 R502.11.1 a ISI/TPI 1. ot depict the	om f. to t						
FORCES	(lb) - Maximum Com Tension)										
TOP CHORD	1-2=0/6, 2-3=-2737/5 5-6=-1125/243, 6-7=												
BOT CHORD	2-11=-568/2535, 9-1 8-9=-161/1002	,	-										
WEBS	6-9=-80/912, 6-8=-13 5-11=-13/740, 3-11=		84,									will	MICH
NOTES												NE	
1) Unbalance	 Unbalanced roof live loads have been considered for 										1	1	
0	this design.										-	XUEG	ANG : 2-
	,										-		A MARKET AND A MARKET
	Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat.										=*	.″V. ⊔	· · · · *=

 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
 Provide adequate drainage to prevent water ponding.

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



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RE	EASE FOR CONSTI	RUCTION
	NOTED ON PLANS	
1	EXELOPMENT SER	
C	LEE'S SUMMIT, MIS Wheeler Lumber, Waverly, KS - 6)1/26/2023 3:1	7:49

E FOR CONSTRUCT									
ED ON PLANS REV	IEW	Truss Type		Qty	Ply	Lot 50 OS			150074050
OPMENT SERVICE		Half Hip		2	1	Job Reference	e (optional)		156071050
6/2023 3:17:4	9		Run: 8.43 S Jan 6 20 ID:d8pWtQxtRDHYPV						Page: 1
	10-8 10-8	8-8-11 8-8-11		<u>17-5-10</u> 8-8-15		21-0		<u>25-11-8</u> 4-11-8	
							6x6=		3х4 н
7.7.3 1 7.4.7 7.4.7 7.4.7 7.4.7 0.1.9 1 1	2 2 4x5=		41^{2} $3x4 =$ 3 11 $2x4 =$	3x1 4 	10 = 10 10 4x8=	5 9 1	25-11-8	13	7 1-4- 8 3x6=
	I	8-8-11	I	8-8-15		I	8-5-14		I

Scale = 1:55 Plate Offsets (X, Y): [7:Edge,0-2-8]

	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	-											
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 IRC20	18/TPI2014	CSI TC BC WB Matrix-S	0.64 0.60 0.79	DEFL Vert(LL) Vert(CT) Horz(CT) Wind(LL)	in -0.22 -0.39 0.06 0.12	(loc) 8-9 2-11 8 2-11	l/defl >999 >793 n/a >999	L/d 360 240 n/a 240	PLATES MT20 Weight: 97 lb	GRIP 197/144 FT = 10%
		- - 	00F .2 (ed or and c	 on the bottor 3-06-00 tall II chord and ai Provide mec bearing plate joint 8 and 2 This truss is International R802.10.2 a Graphical pu 		eas where will fit betw rs, with BC ion (by oth standing 2 nt 2. ordance w de sections candard AN on does no	a rectangle veen the botto DL = 10.0pst ers) of truss to 34 lb uplift at ith the 2018 R502.11.1 at ISI/TPI 1. of depict the s	om f. to t					
FORCES	(lb) - Maximum Com Tension	<i>.</i>	,										
TOP CHORD	1-2=0/6, 2-3=-2630/4 5-6=-1334/335, 6-7=												
BOT CHORD	2-11=-469/2423, 9-1 8-9=-146/659	,											
WEBS	6-9=-254/1282, 6-8= 5-9=-446/228, 3-11=		20										MICH
this design	ed roof live loads have n. CE 7-16; Vult=115mph		r								1111	XPE XUEG	ANG

Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. 2) 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 Provide adequate drainage to prevent water ponding. 3)

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



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V MiTek 16023 Swingley Ridge Rd Chesterfield, MO 63017

RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI Wheeler Lumber, Wayariy, KS - 66871 01/26/2023 3:17:49

Truss Type	Qty	Ply	Lot 50 OS		
Half Hip	2	1	Job Reference (optional)	156071051	
			2022 MiTek Industries, Inc. Tue Jan 10 13:25:30 C?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?	Page: 1 'f	



Scale = 1:58.2			<u>8-8-10</u> 8-8-10		<u>17-5</u> 8-9	-				<u>25-11</u> 8-5-1		—
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	0.64	DEFL Vert(LL) Vert(CT)	in -0.23 -0.39	(loc) 8-9 2-11	l/defl >999 >787		PLATES MT20	GRIP 197/144

0.69

Horz(CT)

Wind(LL)

0.06

0.12

8

2-11

n/a n/a

240

Weight: 99 lb

FT = 10%

>999

BCDL	1	0.0	Code	IR
LUMBER				
TOP CHORD	2x4 SPF No.2	*Exce	pt* 1-4:2x4 SPF 210	0F
	1.8E			
BOT CHORD	2x4 SPF 2100	F 1.8E		
WEBS	2x3 SPF No.2	*Exce	pt* 9-3:2x4 SPF No.2	2
BRACING				
TOP CHORD			athing directly applied	
			cept end verticals, an	d
BOT CHORD	2-0-0 oc purlir Bigid coiling c	,	applied or 10-0-0 oc	
BOTCHORD	bracing.	mecny	applied of 10-0-0 oc	
WEBS	1 Row at mid	ot	7-8, 3-9, 6-8	
REACTIONS	(size) 2=0)-3-8, 8	=0-3-8	
	Max Horiz 2=3	321 (LC	24)	
			C 4), 8=-263 (LC 4)	
	Max Grav 2=1	258 (L	.C 2), 8=1241 (LC 2)	
FORCES		n Com	pression/Maximum	
TODOLODD	Tension			
TOP CHORD	,		349, 3-5=-1381/166, -9/0, 7-8=-94/35	
BOT CHORD	2-11=-569/24			
BOT OTOTOL	8-9=-98/379	17,51	1= 303/2417,	
WEBS		-9=-12	62/322, 5-9=-512/24	9,
	6-9=-297/147	0, 6-8=	-1082/288	

0.0*

Rep Stress Incr

YES

IRC2018/TPI2014

NOTES

BCLL

- 1) Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a 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 bearing plate capable of withstanding 263 lb uplift at joint 8 and 213 lb uplift at joint 2.

WB

Matrix-S

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.

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

LOAD CASE(S) Standard





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RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEXELOPMENT SERVICES LEE'S SUMMIT, MISSOURI Wheeler Lumber Wayery, KS - 66871 01/26/2023 3:17:49

ONSTRI	ICTION				-			
	EVIEW		Truss Type		Qty	Ply	Lot 50 OS	
			Half Hip		2	1	Job Reference (optional)	156071052
F, MISSC							2022 MiTek Industries, Inc. Tue Jan 10 13:25:3	-
55.17	' :49			ID:YeFIJPWU_GX8tX	(qw9hibuaym	neRb-RfC?P	PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC	?f
		-0-10-8	8-8-11		7-5-10		25-0-0 25-11-8	
		0-10-8	8-8-11	1 8	3-8-15		7-6-6 0-11-8	
							3x4=	1
-							6x6=	
$\top \cong \mp$	-1-9							—
8-11-3 8-8-7 8-8-7 -	0-9-0 □-9-0			3x4 = 3	12 3x10 4	= 5		2- 80 - 80 - 80 - 80 - 80 - 10 - 10 - 10 - 10 - 10 - 10 - 10 - 1
		4x5=		11				
				2x4 II		4x8=	3x10=	
			0.0.11		7 5 40	:	5x8=	
			<u>8-8-11</u> 8-8-11		<u>7-5-10</u> 3-8-15		25-11-8	

Scale = 1:64.9 Plate Offsets (X, Y): [7:Edge,0-1-8]

	(, .). [==9=,=]												
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	0.75	Vert(LL)	-0.21	2-11	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15		BC	0.60	Vert(CT)	-0.40	2-11	>769	240		
BCLL	0.0*	Rep Stress Incr	YES		WB	1.00	Horz(CT)	0.05	8	n/a	n/a		
BCDL	10.0	Code	IRC201	8/TPI2014	Matrix-S		Wind(LL)	0.13	2-11	>999	240	Weight: 105 lb	FT = 10%
LUMBER TOP CHORD BOT CHORD WEBS	1.8E			on the bottor 3-06-00 tall I chord and an Provide med bearing plate	has been designe m chord in all are by 2-00-00 wide v ny other members chanical connections e capable of withs	as where will fit betw s, with BC on (by oth standing 2	a rectangle veen the bott DL = 10.0ps ers) of truss	tom sf. to					
BRACING joint 8 and 233 lb uplift at joint 2. TOP CHORD Structural wood sheathing directly applied or 3-6-5 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 6-7. 7) TOP CHORD Structural wood sheathing directly applied or 3-6-5 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 6-7. 7)													
BOT CHORD	 Rigid ceiling directly bracing. 	applied or 10-0-0 or	8)	or the orient	ation of the purlin			size					
WEBS	1 Row at midpt	7-8, 6-8, 3-9	<u> </u>	bottom chore DAD CASE(S)									
FORCES	Max Horiz 2=376 (LC Max Uplift 2=-233 (L Max Grav 2=1254 (I (Ib) - Maximum Com	C 4), 8=-241 (LC 4) _C 2), 8=1245 (LC 2))										
TOP CHORD	Tension 1-2=0/6, 2-3=-2607/ 5-6=-1363/349, 6-7=												
BOT CHORD	2-11=-477/2401, 9-1 8-9=-106/123	1=-477/2401,											111.
WEBS	5-9=-578/278, 6-9=- 6-8=-1182/268, 3-11		305									NE OF /	MISS
NOTES											- 5	1	
,	ed roof live loads have	been considered for	r								20	S: XUEG	ANG
this desig		(2 accord suct)									Ξ.	X LI	
Vasd=91r II; Exp C; cantilever right expo 3) Provide a 4) This truss	CE 7-16; Vult=115mph mph; TCDL=6.0psf; BC Enclosed; MWFRS (er r left and right exposed osed; Lumber DOL=1.6 adequate drainage to pr s has been designed fo a load nonconcurrent wi	DL=6.0psf; h=25ft; (nvelope) exterior zor ; end vertical left and 0 plate grip DOL=1.6 event water ponding r a 10.0 psf bottom	ne; d 60 I.								* Philip	SS/ON/	713
													10 2022

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January 10,2023

RELEASE FOR CONSTRUCTION AS NOTED ON DEXEL OPM United and the second s

N PLANS	REVIEW		Truss Type		Qty	Ply	Lot 50 OS	
NENT SER	VICES		Monopitch		4	1	Job Reference (optional)	156071053
Waverly, KS - 6 023 3:1	7:49						2022 MiTek Industries, Inc. Tue Jan 10 13:25:31 B70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f	Page: 1
	-0-10 0-10		8-8-11 8-8-11	<u>17-5-</u> 8-9-			25-11-8 8-5-14	
6-3-0		2 4x5=		4 ¹² 3x4 = 3 10 2x4 II	3x6 = 4	3x6 5 9 8 4x8=	3x4 u 6 5 11 3x6 =	-
			0.0.44	47 5	40	3x6=		
			8-8-11 8-8-11	<u>17-5</u> - 8-9-			<u>25-11-8</u> 8-5-14	

Scale = 1:63.1 Plate Offsets (X, Y): [8:0-2-8,0-1-8]

	(7, 1). [0.0 2 0,0 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	тс	0.94	Vert(LL)	-0.21	2-10	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.60	Vert(CT)	-0.40	2-10	>774	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.98	Horz(CT)	0.07	7	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.13	2-10	>999	240	Weight: 95 lb	FT = 10%
LUMBER				designed in accor								
TOP CHORD	2x4 SPF No.2 *Exce 1.8E	ept* 1-4:2x4 SPF 21	001	I Residential Code and referenced star			and					
BOT CHORD			LOAD CASE(S)	Standard								
WEBS	2x3 SPF No.2 *Exce	ept* 5-7:2x4 SPF No	.2									
BRACING TOP CHORD		othing disectly appli										
TOP CHORD	Structural wood she 2-2-0 oc purlins, ex											
BOT CHORD			с									
	bracing.											
WEBS		6-7, 3-8, 5-7										
REACTIONS	(size) 2=0-3-8, 7											
	Max Horiz 2=365 (LC	,										
	Max Uplift 2=-198 (L Max Grav 2=1261 (L											
FORCES	(lb) - Maximum Com)									
TOROLO	Tension	pression/maximum										
TOP CHORD	1-2=0/6, 2-3=-2623/	303, 3-5=-1408/134	,									
	5-6=-124/47, 6-7=-2											
BOT CHORD		10=-569/2414,										
WEDO	7-8=-286/1261	004/004 5 0 0/770										
WEBS	3-10=0/371, 3-8=-12 5-7=-1540/348	224/301, 5-8=0/779,										115
NOTES	0 1 = 10 + 0/0 + 0										1110	
	CE 7-16; Vult=115mph	(3-second quist)									NE OF	VISS
	nph; TCDL=6.0psf; BC		Cat.							1		
	Enclosed; MWFRS (er									20	A VILLEO	· D-
	left and right exposed									21	S XUEG	ANG
	Lumber DOL=1.60 plat	01								= *		· · · * =
	This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.											
	load nonconcurrent wi ss has been designed f									= 0	K~VVV L	
	ttom chord in all areas		hei							-3		
	libri 2 00 00 wide will									- (O∴ E-29	110 .4.

3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf. 4) Provide mechanical connection (by others) of truss to

bearing plate capable of withstanding 277 lb uplift at joint 7 and 198 lb uplift at joint 2.





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RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI Wheeler Lumber Wayerly, KS - 66871 01/26/2023 3:17:49

Truss Type	Qty	Ply	Lot 50 OS	
Common Supported Gable	2	1	Job Reference (optional)	156071054

Run: 8.43 S Jan 6 2022 Print: 8.430 S Jan 6 2022 MiTek Industries, Inc. Tue Jan 10 13:25:32 ID:tYBfsHapYQMCd0h8_W7bzZymeq2-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1



Scale = 1:30.3

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

Plate Offsets ([∧, 1). [0.⊏uge,0-2-o]											-		
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/T	PI2014	CSI TC BC WB Matrix-R	0.07 0.02 0.02	DEFL Vert(LL) Vert(CT) Horz(CT)	in n/a n/a 0.00	(loc) - - 7	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20 Weight: 25 lb	GRIP 197/144 FT = 10%	_
LUMBER TOP CHORD BOT CHORD WEBS OTHERS BRACING TOP CHORD BOT CHORD REACTIONS	2x4 SPF No.2 2x4 SPF No.2 *Exce 2x4 SPF No.2 *Exce 5-11-4 oc purlins, e Rigid ceiling directly bracing. (size) 7=5-11-4, 10=5-11-4 Max Horiz 11=100 (L Max Uplift 7=-31 (LC (LC 8), 11 Max Grav 7=77 (LC	xcept end verticals. applied or 6-0-0 oc .8=5-11-4, 9=5-11-4 4, 11=5-11-4 _C 5) 2, 8, 8=-89 (LC 9), 10 =-45 (LC 9) 15), 8=188 (LC 16), C 18), 10=141 (LC 15)	5) T b 2 6) C 7) T d or 8) * 3 3 3 9) F 5 9) F 1 1 1 1 1 1 1 5	Tuss to be fu praced again Sable studs s This truss ha thord live loa This truss h This truss h on the bottom 8-06-00 tall b hord and an Provide mech bearing plate 1, 31 lb uplif uplift at joint 8 This truss is on thernational	designed in accord Residential Code nd referenced stan	one fac nt (i.e. d c or a 10.0 vith any for a liv s where I fit betv (by oth anding 4 plift at jo dance w sections	e or securely iagonal web). 0 psf bottom other live load e load of 20.0 a rectangle veen the botto ers) of truss tr 5 lb uplift at jo pint 10 and 85 ith the 2018 : R502.11.1 a	ds. Ipsf om Dint Ib						
FORCES TOP CHORD	(lb) - Maximum Com Tension 2-11=-136/50, 1-2=0 3-4=-34/85, 4-5=-43)/46, 2-3=-62/58,												
 this design Wind: ASC Vasd=91n II; Exp C; cantilever right expo Truss dest only. For see Stand 	6-7=-58/38 10-11=-46/46, 9-10= 7-8=-46/46 4-9=-93/0, 3-10=-10 ed roof live loads have	=-46/46, 8-9=-46/46, 3/81, 5-8=-142/101 been considered for (3-second gust) DL=6.0psf; h=25ft; C twelope) exterior zon ; end vertical left and 0 plate grip DOL=1.6 n the plane of the true (normal to the face) d Details as applicab	Cat. e; d 50 ss , le,								The A BRIT	S VUEG	BER 713	



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

RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEXEMOPMENT SERVICES LEE'S SUMMIT, MISSOURI Wheeler Lumber Vaverity, KS - 66871 01/26/2023 3:17:50

	Truss Type	Qty	Ply	Lot 50 OS	
	Common	8	1	Job Reference (optional)	156071055
	Page: 1				

ID:WsvBNOjLj6tV3scSh1LPS5ymeps-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f





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	0.09	Vert(LL)	-0.01	5	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.12	Vert(CT)	-0.01	5-6	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.02	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R		Wind(LL)	0.00	5-6	>999	240	Weight: 18 lb	FT = 10%
LUMBER			LOAD CASE(S) Standard				-				
	x4 SPF No.2		(-									
BOT CHORD 2	x4 SPF No.2											

WEBS	2x4 SPF I	No.2 *Except* 5-2:2x3 SPF No.2
BRACING		
TOP CHORD	Structural	wood sheathing directly applied
		ourlins, except end verticals.
BOT CHORD	0	ng directly applied or 10-0-0 oc
	bracing.	
REACTIONS	(size)	4=0-3-8, 6=0-3-8
	Max Horiz	6=93 (LC 7)
	Max Uplift	4=-24 (LC 8), 6=-19 (LC 8)
	Max Grav	4=225 (LC 1), 6=225 (LC 1)
FORCES	(lb) - Max	imum Compression/Maximum
	Tension	
TOP CHORD	1 2_ 101/	48. 2-3=-177/55. 3-4=-170/41.
	1-2=-101/	+0, 2 0 = 111,00, 0 = 110, 11,
	1-6=-178/	-, , - , - ,

3-4-5

or

1-6=-178/44 BOT CHORD 5-6=-25/104, 4-5=-25/104

WEBS

NOTES

 Unbalanced roof live loads have been considered for this design.

2-5=-2/73

- 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
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 19 lb uplift at joint 6 and 24 lb uplift at joint 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.

AUEGANG LIU NUIBER E-29713 January 10,2023



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

RE EASE FOR CONST NOTED ON PLANS REVIEW A DEXELOPMENT SERVICES 26/2023 3:17:50 01/

Truss Type	Qty	Ply	Lot 50 OS	
Monopitch	10	1	Job Reference (optional)	156071056
Run: 8.43 S Jan 6 20) 22 Print: 8.4	30 S Jan 62	2022 MiTek Industries, Inc. Tue Jan 10 13:25:32	Page: 1

ID:mD69gL3zaDsltwbnhrqRSVymeo7-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1





Scale = 1:33.5

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	0.44	Vert(LL)	-0.04	2-6	>999	360	МТ20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.24	Vert(CT)	-0.08	2-6	>902	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.09	Horz(CT)	0.00	6	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P		Wind(LL)	0.00	2-6	>999	240	Weight: 29 lb	FT = 10%
LUMBER												
TOP CHORD	2x4 SPF No.2											
BOT CHORD												
WEBS	2x3 SPF No.2											
BRACING												
TOP CHORD	Structural wood she	athing directly appli	ed or									
	6-0-0 oc purlins, ex											
BOT CHORD	0 0 ,	applied or 6-0-0 oc	:									
	bracing.											
REACTIONS												
	Max Horiz 2=143 (LC	,										
	Max Uplift 2=-68 (LC Max Grav 2=277 (LC											
FORCES	(lb) - Maximum Corr											
IONOLO	Tension	ipression/maximum										
TOP CHORD		29, 3-4=-83/31,										
	4-5=-27/14	, ,										
BOT CHORD	,											
WEBS	3-6=-460/197, 3-5=-	-58/55										
NOTES												
	CE 7-16; Vult=115mph		a .									
	mph; TCDL=6.0psf; BC											
	Enclosed; MWFRS (er r left and right exposed											
	osed; Lumber DOL=1.6											
	s has been designed fo										NE OF	MISS
chord live	e load nonconcurrent w	ith any other live loa	ads.							1	1.	0/1
	ss has been designed f		0psf							2	A	
	ttom chord in all areas									2	× XUEC	ANG
	all by 2-00-00 wide will d any other members.	fit between the bott	om							= *	.:\/ LI	
	nechanical connection	(by others) of truss	to								MAAA	
	late capable of withsta									-0		
	3 lb uplift at joint 6.	5 1								= 5		BER
	s is designed in accorda									-1	E-29	
	nal Residential Code s		and							1	· • • • •	
	2 and referenced stand	iard ANSI/TPI 1.									1,S/ON	AL ENIN
LOAD CASE((S) Standard										1111	
												10 2022



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January 10,2023

RE	LEASE FOR CONST	RUCTION
AS	NOTED ON PLANS	REVIEW
1	EXELOPMENT SER	
	LEE'S SUMMIT, MIS Wheeler Lumber_Waverly, KS - 6	SOURI
(Wheeler Lumber Waverly, KS - 0 01/26/2023 3:1	7:50

	Truss Type	Qty	Ply	Lot 50 OS		
	Monopitch	10	1	Job Reference (optional)	156071057	
	Page: 1					

ID:X17cwuNehu0CNm?bfbnlzmymenk-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

4-0-0

4-0-0





-0-10-8

2x4 II

1-11-3

Scale = 1:23.2												
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	0.22	Vert(LL)	-0.01	2-4	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.14	Vert(CT)	-0.02	2-4	>999	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: 12 lb	FT = 10%

2x4 =

LUMBER

TOP CHORD	2x4 SPF No.2
BOT CHORD	2x4 SPF No.2
WEBS	2x3 SPF No.2
BRACING	
TOP CHORD	Structural wood sheat

TOP CHORD BOT CHORD	4-0-0 oc purlins, except end vertical							
REACTIONS	(size) Max Horiz	2=0-3-8, 4= Mechanical 2=69 (LC 7)						

	Max Uplift 2=-75 (LC 4), 4=-35 (LC 8)
	Max Grav 2=250 (LC 1), 4=159 (LC 1)
FORCES	(lb) - Maximum Compression/Maximum
	Tension
TOP CHORD	1-2=0/6, 2-3=-69/35, 3-4=-122/57

BOT CHORD 2-4=-21/16

NOTES

- 1) 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
- This truss has been designed for a 10.0 psf bottom 2) chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf 3) 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.
- Refer to girder(s) for truss to truss connections. 4)
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 35 lb uplift at joint 4 and 75 lb uplift at joint 2.
- This truss is designed in accordance with the 2018 6) International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard





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3-7-3

Truss Type	Qty	Ply	Lot 50 OS				
Monopitch Supported Gable	2	1	Job Reference (optional)	156071058			
Run: 8.43 S Jan 6 2022 Print: 8.430 S Jan 6 2022 MiTek Industries, Inc. Tue Jan 10 13:25:33							

ID:uoWng22mV53F5NHMxMnREaymems-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f





1 0-9-0



9-0-0

Scale = 1:25.8

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	0.09	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15		BC	0.05	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES		WB	0.03	Horz(CT)	0.00	7	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI	2014	Matrix-P							Weight: 31 lb	FT = 10%
LUMBER					as been designed								
TOP CHORD	2x4 SPF No.2				ad nonconcurrent								
BOT CHORD	2x4 SPF No.2				nas been designe m chord in all area			pst					
WEBS OTHERS	2x4 SPF No.2 2x4 SPF No.2				by 2-00-00 wide w			m					
BRACING	244 011 10.2				y other members								
TOP CHORD	P CHORD Structural wood sheathing directly applied or 8) Provide mechanical connection (by others) of truss to												
	6.0-0 oc purplice except end verticals bearing plate capable of withstanding 14 lb uplift at joint												
BOT CHORD	BOT CHORD Binid ceiling directly applied or 10-0-0 oc 7, 35 lb uplift at joint 2, 67 lb uplift at joint 10, 38 lb uplift												
	bracing. at joint 9 and 48 lb uplift at joint 8.												
REACTIONS		7=9-0-0, 8=9-0-0,	Inte	ernational	Residential Code	sections	s R502.11.1 a	nd					
	9=9-0-0, Max Horiz 2=142 (I	10=9-0-0	R8	02.10.2 a	nd referenced sta	ndard AN	ISI/TPI 1.						
		C 4), 7=-14 (LC 5), 8	=-48 LOAD	CASE(S)	Standard								
		=-38 (LC 4), 10=-67											
		_C 1), 7=67 (LC 1), 8											
		=150 (LC 1), 10=256	6 (LC										
	1)												
FORCES	(lb) - Maximum Co Tension	mpression/Maximum											
TOP CHORD	1-2=0/6, 2-3=-113/	41, 3-4=-81/17,											
	4-5=-70/24, 5-6=-6	,											
BOT CHORD	2-10=-45/34, 9-10= 7-8=-45/34	-45/34, 8-9=-45/34,											
WEBS	3-10=-195/103, 4-9	=-119/56, 5-8=-158/7	75										
NOTES												NE OF	VISS
	CE 7-16; Vult=115mp										1	A	0/1
		CDL=6.0psf; h=25ft; (2	A	
		envelope) exterior zor									2	2 XUEG	ANG
		d ; end vertical left an 60 plate grip DOL=1.									= +		
		in the plane of the tru									200	Xhara	/ 18 2
		d (normal to the face									= 0		
see Stand	ard Industry Gable E	nd Details as applical	ble,								= 5		710
or consult qualified building designer as per ANSI/TPI 1.									113				
	3) All plates are 2x4 MT20 unless otherwise indicated.												
 4) Gable requires continuous bottom chord bearing. 5) Gable studs spaced at 2-0-0 oc. 										ENI			
5) Gable stud	us spaced at 2-0-0 od											- INF	Think.
													10.0000

January 10,2023

MiTek 16023 Swingley Ridge Rd Chesterfield, MO 63017

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EASE FOR CONSTRUCTION NOTED ON PLANS REL A DEXELOPMENT SERVICES LEE'S SUMMIT, MISSOURI O1/26/2023 3:17:50

ON				-						
EW		Truss Type	Qty	Ply	Lot 50 OS					
5		Common Supported Gable	4	1	Job Reference (optional)	156071059				
)					2022 MiTek Industries, Inc. Tue Jan 10 13:25:33 0Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f	Page: 1				
	-0-10-8 0-10-8	7-4-0			-0-0 16-10-8 -8-0 0-10-8					
	3x4 = 6 5 7 5									
		9 ¹² 4		8						



Scale = 1:46.3

Plate Offsets (X, Y): [6:0-2-0,Edge]

F

Loading (CLL) (roo) (ps) (250) Specing (Pale Gr) (200) 2-9-0 (Pale Gr) (200) CSI (Pale Gr) (200) CSI (Pale Gr) (200) DEATES (Pale Gr) (200) PLATES (Pale Gr) (200) PLATES (Pale Gr) (200) PLATES (Pale Gr) (200) PLATES (201) GRP (Pale Gr) (200) Ummber COD 100 Pale Gr) (200) 115 TC 121 Vert(L) (201) n/d (200) 13 13 1														
TCDL 10.0 Lumber bOL 1.15 BC 0.16 Horr(CT) n/a - n/a 999 BCLL 10.0 Rep Stress in r YES BC 0.16 Horz(CT) 0.00 13 n/a n/a n/a BCDL 10.0 Rep Stress in r YES BC 0.16 Horz(CT) 0.00 13 n/a n/a n/a LUMBER TOP CHORD 2x4 SPF No.2 Structural wood sheathing directly applied or 10-0-0 content and right exposed : end vertical left and right exposed : end verti	Loading	(psf)	Spacing	2-0-0		CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
BCLL 0.0° Reg Stress Incr YES WB 0.16 Horz(CT) 0.00 13 n/a n/a BCDL 10.0 Cdor R2018712014 Matrix-R Matrix-R Matrix-R Weight: 80 lb FT = 10% LUMMER TOP CHORD 2x4 SPF No.2 Stress PN No.2 Wind ASC F 716; Vull=115mph (3-second gust) Wind ASC F 716; Vull=115mph (3-second gust) Waight: 80 lb FT = 10% BTACING TOP CHORD Structural wood sheathing directly applied or 6-0-0 co-purins, except end verticals. 10 Undata design. 10 Wind ASC F 716; Vull=115mph (3-second gust) Vasid=91mph; TCDL=6.0psf; B-23ft; Cat. Vasid=91mph; TCDL=6.0psf; B-23ft; Cat. 10 10 Vind: ASC F 716; Vull=115mph (3-second gust) Vasid=91mph; TCDL=6.0psf; B-23ft; Cat. 13 n/a N/a N/a Vind: ASC F 716; Vull=115mph (3-second gust) Vasid=91mph; TCDL=6.0psf; B-23ft; Cat. 10 10 10 10 10 Vind: ASC F 716; Vull=115mph (3-second gust) 10 10 10 10 10 10 10 10 10 10 10 10 10 10	TCLL (roof)	25.0	Plate Grip DOL	1.15		тс	0.12	Vert(LL)	n/a	-	n/a	999	MT20	197/144
BCDL 10.0 Code IRC2018/TPI2014 Matrix-R Weight: 80 lb FT = 10% LUMBER TOP CHORD 2X4 SPF No.2 JUhalanced roof live loads have been considered for this design. IUhalanced roof live loads have been considered for this design. Vincit ASCE 7-16; Vul=115mph (3-second gust) WEBS 2X4 SPF No.2 Structural wood sheathing directly applied or 6+00 cc purifies, except end verticals. 1) Uhalanced roof live loads have been considered for this design. BOT CHORD REACTION Max Idpit Structural wood sheathing directly applied or 16=16-00, 17=16-00, 18=16-00, 17=16-00, 28=16-00, 14=16-00, 15=16-00, 18=16-00, 27=16-00, 28=16-00, 18=16-00, 28=16-00, 21=16-00, 18=16-00, 28=16-00, 21=16-00, 19=16-00, 28=16-00, 21=16-00, 19=16-00, 28=16-00, 21=16-00, 19=16-00, 28=16-00, 21=16-00, 19=170, 12 LC 66, 19==72 LC 80, 19=722 LC 126, 19==71 LC 126, 19==224 LT 20 unless otherwise indicated. 3 cable requires continuous botom chord to lat applicable, or consult qualified building designer as privals exposed to wind (norma the face), see Standard Industry Gables to bearing. 9 This truss has been designed for at 100 op 5 botom chord and on chord in all areas where a reatcargle 3-06-00 all by 2-00-00. Max Ker (B) - Maximum Compression/Maximum 11-13=198114 10.118-128 LC 151, 12=27 LC 150, 12=2712 LC 163, 12=28 LT 120, 11 BOT CHORD 2-21=145/45, 12=0/43, 2-3=57/59, 3-16=153/173, 10=1=-20018, 11-12=0/18, 11-13=198114 11.11 BOT CHORD 2-21=145/171, 151, 2-16=2/171, 11-15=198/1271, 11-15=198/1271, 11-15=198/1271, 11-15=198/1271, 11-15=198/1271, 11-15=198/1271, 11-15=198/1271, 11-15=198/1271, 11-15=198/1271, 11-15=198/1271	TCDL	10.0	Lumber DOL	1.15		BC	0.10	Vert(CT)	n/a	-	n/a	999		
 LUMBER TOP CHORD 2x4 SPF No.2 DT CHORD 2x4 SPF No.2 Unbalanced roof live loads have been considered for this design. Unbalanced roof live loads have been considered for this design. Unbalanced roof live loads have been considered for this design. Unbalanced roof live loads have been considered for this design. Unbalanced roof live loads have been considered for this design. Unbalanced roof live loads have been considered for this design. Unbalanced roof live loads have been considered for this design. Unbalanced roof live loads have been considered for this design. Unbalanced roof live loads have been considered for this design. Unbalanced roof live loads have been considered for this design. Unbalanced roof live loads have been considered for this design. Unbalanced roof live loads have been considered for this design. Unbalanced roof live loads have been considered for this design. Unbalanced roof live loads have been considered for this design. Unbalanced roof live loads have been considered for this design. Unbalanced roof live loads have been considered for this design. Unbalanced roof live loads have been considered for this design. Unbalanced roof live loads have been considered for this design. Unbalanced roof live loads have been considered for this design. Unbalanced roof live loads have been considered for this design. Unbalanced roof live loads have been considered for this design. Unbalanced roof live loads have been considered for this design. Unbalanced roof live loads have been considered for this design. Unbalanced roof live loads have been considered for this design. Unbalanced roof live loads have been considered for this design. Unbalanced roof live loads. This truss has been designed for hive loads. Unbalanced roof live loads	BCLL	0.0*	Rep Stress Incr	YES		WB	0.15	Horz(CT)	0.00	13	n/a	n/a		
TOP CHORD BOT CHORD VEBS2x4 SPF No.2this design.WEBS BOT CHORD VERS2x4 SPF No.2Wind: SSCE 7-16; Vull=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BSCL-6.0psf; h=25L; Cat. I.Exp. Cat. I.Exp. Cat. I.Exp. Cat. I.Exp. Cat. Structural wood sheathing directly applied or toracing.Wind: SSCE 7-16; Vull=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BSCL-6.0psf; h=25L; Cat. I.Exp.	BCDL	10.0	Code	IRC201	8/TPI2014	Matrix-R							Weight: 80 lb	FT = 10%
Top CHORD 2-21=-145/45, 1-2=0/43, 2-3=-57/59, 3-4=-53/97, 4-5=-78/169, 5-6=-81/176, 6-7=-70/129, 7-8=-120/229, 8-9=-136/163, 9-10=-153/153, 10-11=-200/189, 11-12=0/43, 11-13=-198/114 uplift at joint 19, 21 lb uplift at joint 17, 117 lb uplift at joint 12, 117 lb uplift at joint 14, 100 lb and 146 lb uplift at joint 14, 100 lb and 146 lb uplift at joint 14, 11 BOT CHORD 20-21=-162/171, 19-20=-162/171, 18-19=-162/171, 15-16=-162/171, 14-15=-162/171, 15-16=-162/171, 14-15=-162/171, 15-16=-162/171, 14-15=-162/171, 15-16=-162/171, 14-15=-162/171, 15-16=-162/171 XUEGANG R802.10.2 and referenced standard ANSI/TPI 1. WEBS 3-20=-155/121, 4-19=-156/127, 5-18=-139/0, 7-17=-195/61, 8-16=-146/139, 9-15=-145/90, 10-14=-172/138 Standard	TOP CHORD BOT CHORD WEBS OTHERS BRACING TOP CHORD BOT CHORD REACTIONS	2x4 SPF No.2 2x4 SPF No.2 2x4 SPF No.2 2x4 SPF No.2 Structural wood she 6-0-0 oc purlins, ex Rigid ceiling directly bracing. (size) 13=16-0- 19=16-0- 19=16-0- 19=16-0- Max Horiz 21=-227 Max Uplift 13=-133 15=-58 (L 20=-123 Max Grav 13=240 (I 15=184 (I 19=190 (I 21=163 (I	ccept end verticals. / applied or 10-0-0 oc 0, 14=16-0-0, 15=16-0 0, 17=16-0-0, 18=16-0 0, 20=16-0-0, 21=16-0 (LC 6) (LC 5), 14=-146 (LC 9) C 9), 16=-117 (LC 9), C 6), 19=-97 (LC 8), (LC 8), 21=-32 (LC 9) LC 15), 14=241 (LC 11) LC 15), 14=179 (LC 12) LC 15), 20=218 (LC 11) LC 21)	2) 1 or 3))-0, 4))-0, 5))-0 6)), 7) 8) (), (), (), (), (), (), (), ()	this design. Wind: ASCE Vasd=91mph II; Exp C; En cantilever lef right exposed Truss design only. For stu see Standard or consult qu All plates are Gable requirt Truss to be fi braced again Gable studs This truss ha chord live loa * This truss h on the botton 3-06-00 tall b chord and a chord again gable studs of the botton and the bott	7-16; Vult=115m n; TCDL=6.0psf; E closed; MWFRS t and right expose t; Lumber DOL=1 hed for wind loads ds exposed to wi d industry Gable I alified building de 2x4 MT20 unles es continuous bot ully sheathed fror st lateral movern spaced at 2-0-0 c s been designed dn onocnocurrent nas been designe n chord in all area y 2-00-00 wide w y other membes hanical connectio c apable of withs	ph (3-see BCDL=6. (envelope (ed; end \ 1.60 plate s in the p ind (norm End Deta esigner as s otherwittom chor m one fac ent (i.e. c for a 10.0 with any d for a liv as where vill fit betw s. n (by oth tanding 3	cond gust) Opsf; h=25ft; (i a) exterior zor vertical left an grip DOL=1. lane of the trr, al to the face ils as applical s per ANSI/TF se indicated. d bearing. e or securely liagonal web) O psf bottom other live loa e load of 20.0 a rectangle veen the botto ers) of truss t to public tat ji	Cat. ne; d 60 Iss Jole, PI 1.					117.
9-10=-153/153, 10-11=-200/189, 11-12=0/43, 11-13=-198/114 BOT CHORD 20-21=-162/171, 19-20=-162/171, 18-19=-162/171, 15-16=-162/171, 14-15=-162/171, 15-16=-162/171, 14-15=-162/171, 13-14=-162/171, 14-15=-155/121, 4-19=-156/127, 5-18=-139/0, 7-17=-195/61, 8-16=-146/139, 9-15=-145/90, 10-14=-172/138		Tension 2-21=-145/45, 1-2=0 3-4=-53/97, 4-5=-78	0/43, 2-3=-57/59, 8/169, 5-6=-81/176,		uplift at joint joint 16, 58 lk 14.	19, 21 lb uplift at ouplift at joint 15	joint 17, and 146	117 lb uplift a lb uplift at joir	t			111	XA.E. OF I	MISSOL
NOTES		9-10=-153/153, 10- 11-13=-198/114 20-21=-162/171, 19 18-19=-162/171, 17 16-17=-162/171, 15 14-15=-162/171, 13 3-20=-155/121, 4-19 7-17=-195/61, 8-16	11=-200/189, 11-12=0 -20=-162/171, -18=-162/171, -16=-162/171, -14=-162/171 9=-156/127, 5-18=-139	/43, LC 2/0,	International R802.10.2 ar	Residential Code nd referenced sta	e sections	s R502.11.1 a	nd				LIU NUM E-29	SER 713



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

RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEXELOPMENT SERVICES LEE'S SUMMIT, MISSOURI O1/26/2023 3:17:50

Truss Type	Qty	Ply	Lot 50 OS	
Common	10	1	Job Reference (optional)	156071060
Run: 8.43 S Jan 6 2	022 Print: 8.4	30 S Jan 62	2022 MiTek Industries, Inc. Tue Jan 10 13:25:34	Page: 1
ID:pM8GSn_aWSZw7	sB70Ha3NSaPanL8w3uITXbGKWrCDoi7J4zJC?f			



Scale = 1:50.5	
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Plate Offsets (X, Y): [2:0-1-7,0-1-12], [6:0-1-2,0-1-8]

											-	
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	0.96	Vert(LL)	-0.12	8-9	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.49	Vert(CT)	-0.24	8-9	>788	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.21	Horz(CT)	0.01	8	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.04	8-9	>999	240	Weight: 64 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 8-6:2x6 SP DSS Structural wood she except end verticals Rigid ceiling directly bracing.	athing directly applie	bearing 10 and 5.2, 6) This trus Internati R802.10 d, LOAD CAS	mechanical connec plate capable of wi 101 lb uplift at joint ss is designed in ac onal Residential Co 0.2 and referenced E(S) Standard	thstanding 9 8. cordance woode sections	91 lb uplift at ith the 2018 \$ R502.11.1 a	joint					
	(size) 8=0-3-8, 1 Max Horiz 10=-230 (Max Uplift 8=-101 (L Max Grav 8=777 (LC	LC 6) C 9), 10=-91 (LC 8) C 1), 10=777 (LC 1)										
FORCES	(lb) - Maximum Com Tension	pression/Maximum										

- TOP CHORD 1-2=0/46, 2-3=-637/119, 3-4=-584/135, 4-5=-614/129, 5-6=-808/147, 6-7=0/46, 2-10=-700/121, 6-8=-684/143 BOT CHORD 9-10=-133/435, 8-9=-51/554
- WEBS 4-9=-6/306, 5-9=-222/207, 3-9=-50/161 NOTES
- 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
- 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.



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



RE ASE FOR CONST NOTED ON PLANS REVIEW A EXELOPMENT SERVECES 2200 SUMMIT, MISSOURI 1991 Lumber Waverly, KS - 66871, /26/2023 3:17:50

	Truss Type	Qty	Ply	Lot 50 OS			
	Common	8	1	Job Reference (optional)	156071061		
Run: 8.43 S Jan 6 2022 Print: 8.430 S Jan 6 2022 MiTek Industries, Inc. Tue Jan 10 13:25:34							

ID:nXe?qst6_BoswR8_AbRTmDymefK-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f





Scale	= 1:50.5

Plate Offsets (X, Y): [2:0-1-7,0-1-12], [6:0-5-9,0-2-0]

		j, [0.0-3-3,0-2-0]										
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	0.95 0.48 0.21	DEFL Vert(LL) Vert(CT) Horz(CT)	in -0.11 -0.23 0.01	(loc) 7-8 7-8 7	l/defl >999 >801 n/a	L/d 360 240 n/a	PLATES MT20	GRIP 197/144
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.03	8	>999	240	Weight: 62 lb	FT = 10%
LUMBER TOP CHORD BOT CHORD WEBS BRACING	2x4 SPF No.2 2x4 SPF No.2 2x3 SPF No.2 *Exce No.2	pt* 9-2,7-6:2x6 SPF	bearing plat and 2 lb upl 7) This truss is Internationa	chanical connection e capable of withs ift at joint 7. designed in acco I Residential Code and referenced sta	standing 7 rdance w e sections	ers) of truss Ib uplift at jo ith the 2018 R502.11.1 a	oint 9			-		
TOP CHORD	Structural wood she except end verticals		ed, LOAD CASE(S)	Standard								
BOT CHORD	Rigid ceiling directly bracing.	applied or 10-0-0 or	c									
	(size) 7= Mecha Max Horiz 9=-172 (L Max Uplift 7=-2 (LC Max Grav 7=697 (LC	9), 9=-7 (LC 8)										
FORCES	(lb) - Maximum Com Tension	pression/Maximum										
TOP CHORD	1-2=0/46, 2-3=-638/- 4-5=-615/58, 5-6=-8 6-7=-599/45											
BOT CHORD WEBS	8-9=-101/399, 7-8=- 4-8=0/306, 5-8=-224											
this design 2) Wind: ASC Vasd=91m	ed roof live loads have	been considered for (3-second gust) DL=6.0psf; h=25ft; (Cat.								ALE OF	MISSOU

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



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January 10,2023

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RE EASE FOR CONST NOTED ON PLANS REVIEW A EXELOPMENT SERVICES

Truss Type	Qty	Ply	Lot 50 OS	
Roof Special	4	1	Job Reference (optional)	156071062

Run: 8,43 S Jan 6 2022 Print: 8,430 S Jan 6 2022 MiTek Industries, Inc. Tue Jan 10 13:25:34 ID:t7Jxf679Q15cctnYVxFrmEymecR-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:50.3

Plate Offsets (X, Y): [6:0-5-9,0-2-0]

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 4 Matrix-S	0.47 0.60 0.21	DEFL Vert(LL) Vert(CT) Horz(CT) Wind(LL)	in -0.12 -0.24 0.03 0.03	(loc) 7-8 7-8 7 8-9	l/defl >999 >784 n/a >999	L/d 360 240 n/a 240	PLATES MT20 Weight: 63 lb	GRIP 197/144 FT = 10%
LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD	2x4 SPF No.2 2x3 SPF No.2 *Exce 7-6:2x6 SPF No.2	athing directly appli	bearing 11 and lo.2, 7) This tru Internat R802.1 ied or LOAD CAS	mechanical connecti plate capable of with 5 lb uplift at joint 7. ss is designed in acci ional Residential Coc 0.2 and referenced st E(S) Standard	standing 9 ordance w le sections) Ib uplift at jo ith the 2018 8 R502.11.1 a	pint					
BOT CHORD	Rigid ceiling directly bracing.	applied or 10-0-0 o)C									
REACTIONS FORCES	(size) 7= Mecha Max Horiz 11=158 (L Max Uplift 7=-5 (LC Max Grav 7=701 (LC (lb) - Maximum Com Tension	9), 11=-9 (LC 8) C 1), 11=777 (LC 1) pression/Maximum										
	4-5=-621/56, 5-6=-8 6-7=-603/49	23/63, 2-11=-487/2	,									
BOT CHORD			57,									
WEBS	3-8=-52/112, 4-8=0/3	316, 5-8=-224/134										
NOTES												1111
this desig 2) Wind: AS Vasd=91r II; Exp C; and right Lumber D	CE 7-16; Vult=115mph mph; TCDL=6.0psf; BC Enclosed; MWFRS (er exposed ; end vertical I 00L=1.60 plate grip DO	(3-second gust) DL=6.0psf; h=25ft; nvelope); cantilever left and right expose JL=1.60	Cat. left							*****	S XUEG	ANG
This truss	has been designed for	r a 10.0 psf bottom								-		N. U. C

- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 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



MiTek 16023 Swingley Ridge Rd Chesterfield, MO 63017

RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI Wheeler Limber Wavely, KS - 6687, 01/26/2023 3:17:50

	Truss Type	Qty	Ply	Lot 50 OS			
	Roof Special	2	1	Job Reference (optional)	156071063		
Run: 8.43 S Jan 6 2022 Print: 8.430 S Jan 6 2022 MiTek Industries, Inc. Tue Jan 10 13:25:35							

Run: 8.43 S Jan 6 2022 Print: 8.430 S Jan 6 2022 MiTek Industries, Inc. Tue Jan 10 13:25:35 ID:PTpPaOWsfAGx4youxNLacBymebw-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Scale = 1:50.3

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

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	0.58		-0.12	8-9	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15		BC	0.60	Vert(CT)	-0.24	8-9	>773	240		
BCLL	0.0*	Rep Stress Incr	YES		WB	0.21	Horz(CT)	0.03	8	n/a	n/a		
BCDL	10.0	Code	IRC2018	/TPI2014	Matrix-S		Wind(LL)	0.03	9	>999	240	Weight: 64 lb	FT = 10%
LUMBER			5)	Provide mer	hanical connection	hy oth	ers) of truss t	to					
TOP CHORD	2x4 SPF No.2		0)		e capable of withsta								
BOT CHORD				01	b uplift at joint 8.		· · · · · · · · · · · · · · · · · · ·						
WEBS	2x3 SPF No.2 *Exce	ot* 12-2:2x4 SPF N	0.2. 6)		designed in accord	dance w	ith the 2018						
	8-6:2x6 SP DSS		, ,	International	Residential Code	sections	s R502.11.1 a	and					
BRACING				R802.10.2 a	nd referenced stan	ndard AN	ISI/TPI 1.						
TOP CHORD	Structural wood she	athing directly applie	ed or LO	AD CASE(S)	Standard								
	5-2-11 oc purlins, e			()									
BOT CHORD			С										
	bracing.												
REACTIONS	(size) 8=0-3-8, 2	12=0-3-8											
	Max Horiz 12=204 (L	_C 7)											
	Max Uplift 8=-108 (L	.C 9), 12=-93 (LC 8)											
	Max Grav 8=781 (L0	C 1), 12=774 (LC 1)											
FORCES	(lb) - Maximum Com	pression/Maximum											
	Tension												
TOP CHORD	1-2=0/43, 2-3=-563/	85, 3-4=-634/150,											
	4-5=-620/127, 5-6=-	815/159, 6-7=0/46,											
	2-12=-484/57, 6-8=-	689/152											
BOT CHORD	11-12=-94/476, 10-1	1=0/88, 3-11=-206/	95,										
	9-10=-104/443, 8-9=	-59/560											
WEBS	4-9=-25/316, 3-9=-5	1/158, 5-9=-221/205	5										
NOTES													1117.
1) Unbalance	ed roof live loads have	been considered fo	r									OF	MISSIN
this desigr	n.											NE	SOL
2) Wind: AS	CE 7-16; Vult=115mph	(3-second gust)									- 5	17	
Vasd=91n	nph; TCDL=6.0psf; BC	DL=6.0psf; h=25ft; (Cat.								-	VUEC	ANIC : D-
II: Exp C:	Enclosed: MWERS (er	velone) exterior zor	ıe [.]								-	XUEG	ANG

- 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
- 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.
- 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.

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



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January 10,2023

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RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI Wheeler Lumber Wayariy, KS - 66871 01/26/2023 3:17:51

	Truss Type	Qty	Ply	Lot 50 OS					
	Common Supported Gable	2	1	Job Reference (optional)	156071064				
Run: 8.43 S Jan 6 2022 Print: 8.430 S Jan 6 2022 MiTek Industries. Inc. Tue Jan 10 13:25:35									

ID:ka1cLzMW3Hgx2zY6G2jmcMymeIA-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Scale = 1:40.6

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 0.05 0.08	DEFL Vert(LL) Vert(CT) Horz(CT)	in n/a n/a 0.00	(loc) - - 14	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20 Weight: 64 lb	GRIP 197/144 FT = 10%
	10-0-0 oc purlins, e Rigid ceiling directly bracing. (size) 14=11-8-(20=11-8-(20=11-8-(Max Horiz 22=-176 (Max Uplift 14=-66 (L 16=-52 (L 19=-51 (L 21=-121 (L 14=171 (L 16=123 (L 18=180 (L	applied or 6-0-0 oc 0, 15=11-8-0, 16=11-8 0, 18=11-8-0, 19=11-8 0, 21=11-8-0, 22=11-8 (LC 6) C 5), 15=-116 (LC 9) C 6), 17=-50 (LC 9), C 8), 20=-50 (LC 8), (LC 8), 22=-84 (LC 4) LC 15), 15=171 (LC 1) LC 22), 17=138 (LC 1) LC 21), 21=181 (LC 1)	2; d or 3; 8-0, 4; 8-0, 5; 8-0 6; , 7; 6), 9; 6), 5;	 this design. Wind: ASCE Vasd=91mph II; Exp C; Enc cantilever left right exposed Truss design only. For stu see Standard or consult qu All plates are Gable require Truss to be fi braced again Gable studs si chord live loa This truss ha chord live loa * This truss h on the bottom 3-06-00 tall b chord and an Provide meck 	roof live loads hav 7-16; Vult=115m x; TCDL=6.0psf; E closed; MWFRS (t and right expose t; Lumber DOL=1 ed for wind loads ds exposed to win i Industry Gable E alified building de 2x4 MT20 unless as continuous bot ully sheathed from st lateral moveme spaced at 1-4-0 o s been designed n chord in all area y 2-00-00 wide w y other members nanical connection capable of withst	oh (3-sec CDL=6.0 cDL=6.0 enveloped d ; end v. 60 plate in the pl d (norm ind Deta signer as signer as so therwit com chor n one fac ent (i.e. d c. or a 10.0 with any f for a liv s where ill fit betw n (by oth	cond gust) Dpsf; h=25ft; (e) exterior zoi ertical left an grip DOL=1. lane of the tru al to the face ills as applical is as applical is per ANSI/TT se indicated. d bearing. e or securely iagonal web) D psf bottom other live loa e load of 20.0 a rectangle ween the bottot	Cat. ne; dd fo0 uss uss), ble, PI 1. ds. Dpsf om					
FORCES TOP CHORD	(lb) - Maximum Com Tension 2-22=-140/111, 1-2=	- =0/46, 2-3=-10/34,		22, 66 lb upli uplift at joint 2	ft at joint 14, 51 lb 20, 121 lb uplift at 9 uplift at joint 16 a	uplift at joint 21,	joint 19, 50 lk 50 lb uplift a	o t				NE OF I	MISS
BOT CHORD	12-13=0/46, 12-14= 21-22=-87/92, 20-21 18-19=-87/92, 17-18 15-16=-87/92, 14-15 7-18=-156/0, 6-19=-	9/155, 8-9=-33/130, 86/96, 11-12=-11/33 -133/107 I=-87/92, 19-20=-87/9 3=-87/92, 16-17=-87/9 5=-87/92 110/65, 5-20=-96/73,	3, 92, L 92, L	International	designed in accor Residential Code nd referenced star Standard	sections	R502.11.1 a	Ind			Will the Pr		
NOTES	4-21=-132/117, 3-22 8-17=-109/65, 9-16= 11-14=-134/101	2=-159/127, =-96/74, 10-15=-126/1	113,								111	E-29	GINI

January 10,2023



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RE FOR CONST NOTED ON PLANS REVIEW Α EXELOPMENT SERVICES SUMMIT, MISSOURI Lumber Waverly, KS - 66871, 6/2023 3:17:51

	Truss Type Common	Qty 4	Ply 1	Lot 50 OS Job Reference (optional)	156071065
	Page: 1				



Scale -	1:42.6

3cale = 1.42.0													
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	0.38	Vert(LL)	-0.02	7-8	>999	360	MT20	197/144	
TCDL	10.0	Lumber DOL	1.15	BC	0.23	Vert(CT)	-0.05	7-8	>999	240			
BCLL	0.0*	Rep Stress Incr	YES	WB	0.08	Horz(CT)	0.01	6	n/a	n/a			
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R		Wind(LL)	-0.03	7-8	>999	240	Weight: 39 lb	FT = 10%	
LUMBER			LOAD CASE(S) Standard									

LOWIDEN		
TOP CHORD	2x4 SPF I	No.2
BOT CHORD	2x4 SPF I	No.2
WEBS	2x4 SPF I	No.2 *Except* 7-3:2x3 SPF No.2
BRACING		
TOP CHORD	Structural	wood sheathing directly applied or
	6-0-0 oc p	ourlins, except end verticals.
BOT CHORD	Rigid ceili	ing directly applied or 10-0-0 oc
	bracing.	
REACTIONS	(size)	6=0-3-8, 8=0-3-8
	Max Horiz	8=-176 (LC 6)
	Max Uplift	6=-72 (LC 9), 8=-72 (LC 8)
	Max Grav	6=583 (LC 1), 8=583 (LC 1)
FORCES	(lb) - Max	imum Compression/Maximum
	Tension	
TOP CHORD	1-2=0/46,	2-3=-510/109, 3-4=-510/109,
	4-5=0/46,	2-8=-528/124, 4-6=-528/124
BOT CHORD	7-8=-4/31	1, 6-7=-4/311
WEBS	3-7=0/241	1

WEBS

NOTES

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

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. 2) 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.
- * 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.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 72 lb uplift at joint 8 and 72 lb uplift at joint 6.
- This truss is designed in accordance with the 2018 6) International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



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RE FOR CONST NOTED ON PLANS REVIEW Δ DEXELOPMENT SERVICES S SUMMIT, MISSOURI er Lumber, Waverly, KS - 66871, 26/2023 3:17:51

Truss Type	Qty	Ply	Lot 50 OS	
Common Girder	2	2	Job Reference (optional)	156071066
Run: 8.43 S Jan 6 20) 22 Print: 8.4	30 S Jan 6 2	2022 MiTek Industries, Inc. Tue Jan 10 13:25:36	Page: 1

ID:i4GUdbpv?YHXyeeVLPnDaFymebY-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Scale = 1:41.6

Plate Offsets (X, Y): [1:0-3-12,0-2-4], [3:0-3-12,0-1-12]

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	0.43	· · ·	-0.03	5-6	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15		BC	0.24	Vert(CT)	-0.06	5-6	>999	240		
BCLL	0.0*	Rep Stress Incr	NO		WB	0.24	Horz(CT)	0.01	4	n/a	n/a		
BCDL	10.0	Code	IRC201	3/TPI2014	Matrix-R		Wind(LL)	0.02	5-6	>999	240	Weight: 106 lb	FT = 10%
LUMBER FOP CHORD 30T CHORD WEBS BRACING FOP CHORD 30T CHORD REACTIONS	2x6 SP 2400F 2.0E 2x6 SPF No.2 *Exce Structural wood she 6-0-0 oc purlins, exc Rigid ceiling directly bracing.	athing directly applie cept end verticals. applied or 10-0-0 oc S=0-3-8	d or 5)	Vasd=91mp II; Exp C; Er cantilever le right expose This truss ha chord live lo * This truss on the botto 3-06-00 tall chord and a	7-16; Vult=115r h; TCDL=6.0psf; cclosed; MWFRS ft and right expo d; Lumber DOL= as been designe ad nonconcurrer has been design m chord in all arr by 2-00-00 wide ny other membe	BCDL=6. (envelope sed ; end v =1.60 plate d for a 10. nt with any ed for a liv eas where will fit betw rs.	Dpsf; h=25ft; e) exterior zo vertical left ar grip DOL=1 D psf bottom other live loa e load of 20. a rectangle veen the bott	one; nd .60 ads. .0psf tom					
FORCES	Max Uplift 4=-87 (LC Max Grav 4=2243 (L (lb) - Maximum Com	9), 6=-82 (LC 8) .C 1), 6=2158 (LC 1)	7) 8)	bearing plat 6 and 87 lb This truss is	chanical connect e capable of with uplift at joint 4. designed in acc	istanding 8 ordance w	2 lb uplift at ith the 2018	joint					
TOP CHORD	1-6=-1371/126, 3-4=	-1371/126	9)	R802.10.2 a Hanger(s) o	Residential Coo nd referenced st r other connectio	andard AN on device(s	ISI/TPI 1.) shall be						
BOT CHORD WEBS	5-6=-38/1388, 4-5=- 2-5=-5/1968	38/1388			ficient to suppor 14 lb up at 2-0-								
NOTES				at 4-0-0, 67	7 lb down and 1	4 lb up at	6-0-0, and 68	81 lb					
(0.131"x3	s to be connected toget ") nails as follows: ds connected as follows		0	up at 10-0-0	7 lb up at 8-0-0,) on bottom chor ction device(s) is	d. The de	sign/selectio	n of					<u>н</u> и.
oc, 2x6 - 2 Bottom ch staggered Web conn 2) All loads a except if r	2 rows staggered at 0-5 hords connected as follo d at 0-9-0 oc. nected as follows: 2x4 - are considered equally noted as front (F) or bac section. Ply to ply conn	0-0 oc. ows: 2x6 - 2 rows 1 row at 0-9-0 oc. applied to all plies, ck (B) face in the LO	LC 1)	Plate Incre Uniform Lo Vert: 1-2 Concentrat	of Live (balance) ase=1.15	-6=-20						XALE OF I	

- 2 provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- 3) Unbalanced roof live loads have been considered for this design.
- 7 (B), 7=-677 (B), 8=-677 (B), 9=-681 (B), 10=-681 (B)



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RF CONS NOTED ON PLANS REVIEW Δ DEXELOPMENT SERVICES EE'S SUMMIT, MISSOURI Wheeler Lumber Wavery, KS-66871 11/26/2023 3:17:51

2-2-12

Truss Type	Qty	Ply	Lot 50 OS	
Diagonal Hip Girder	4	1	Job Reference (optional)	156071067

Run: 8,43 S Jan 6 2022 Print: 8,430 S Jan 6 2022 MiTek Industries, Inc. Tue Jan 10 13:25:36 ID:f9iz84NTmcUAq40uvBz8d4ymf?x-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1

2-1-10



6-11-6





3x4 =



4

Scale = 1:24.3

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 NO IRC201	8/TPI2014	CSI TC BC WB Matrix-P	0.93 0.53 0.00	DEFL Vert(LL) Vert(CT) Horz(CT)	in -0.12 -0.23 0.00	(loc) 2-4 2-4 4	l/defl >680 >340 n/a	L/d 360 240 n/a	PLATES MT20 Weight: 19 lb	GRIP 197/144 FT = 10%
	2x4 SPF No.2 2x4 SPF No.2 2x3 SPF No.2 Structural wood she 6-0-0 oc purlins, ex Rigid ceiling directly bracing. (size) 2=0-4-9, 4 Max Horiz 2=79 (LC Max Uplift 2=-119 (L Max Grav 2=410 (LC (lb) - Maximum Corr	cept end verticals. applied or 10-0-0 oc 4= Mechanical 5) C 4), 4=-59 (LC 8) C 1), 4=289 (LC 1)	8)	provided suff down and 52 up at 4-2-8 of 10 lb down a selection of s responsibility In the LOAD of the truss a DAD CASE(S) Dead + Roo Plate Increa Uniform Loa	CASE(S) section are noted as front Standard of Live (balanced ase=1.15	concentra and 77 lb d 10 lb do' m chord. device(s) n, loads a t (F) or ba	ated load(s) 7 down and 52 wn at 4-2-8, The design/ is the pplied to the ck (B).	lb and face					
TOP CHORD BOT CHORD NOTES 1) Wind: ASC Vasd=91m II; Exp C; I cantilever	Tension 1-2=0/6, 2-3=-77/46 2-4=-26/20 2E 7-16; Vult=115mph ph; TCDL=6.0psf; BC Enclosed; MWFRS (er left and right exposed sed; Lumber DOL=1.6	, 3-4=-222/99 (3-second gust) DL=6.0psf; h=25ft; C ivelope) exterior zon ; end vertical left and	e; I										

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

- * This truss has been designed for a live load of 20.0psf 3) 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.
- Refer to girder(s) for truss to truss connections. 4)
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 59 lb uplift at joint 4 and 119 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.





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RE	LEASE FOR CONST	RUCTION
	NOTED ON PLANS	
	EXELOPMENT SER	
	LEE'S SUMMIT, MIS	SOURI
0	Wheeler Lumber, Waverly, KS - 01/26/2023 3:1	7:51

	Truss Type	Qty	Ply	Lot 50 OS	
	Jack-Open	8	1	Job Reference (optional)	156071068
	Page: 1				

Run: 8,43 S Jan 6 2022 Print: 8,430 S Jan 6 2022 MiTek Industries, Inc. Tue Jan 10 13:25:36 ID:XrqmiBbJqxQF8E7b9lq71aymf0x-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f





2-10-15

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	0.09	Vert(LL)	0.00	2-4	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.07	Vert(CT)	-0.01	2-4	>999	240		
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: 8 lb	FT = 10%

LOWIDER								
TOP CHORD	2x4 SPF I	No.2						
BOT CHORD	2x4 SPF I	No.2						
BRACING								
TOP CHORD	Structura	wood sheathing directly applied or						
	2-10-15 c	c purlins.						
BOT CHORD	Rigid ceil	Rigid ceiling directly applied or 10-0-0 oc						
	bracing.							
REACTIONS	(size)	2=0-3-8, 3= Mechanical, 4=						
		Mechanical						
	Max Horiz	2=52 (LC 4)						
	Max Uplift	2=-64 (LC 4), 3=-44 (LC 8)						
	Max Grav	2=207 (LC 1), 3=81 (LC 1), 4=54						
		(LC 3)						
FORCES	(lb) - Max	imum Compression/Maximum						
	Tension							
TOP CHORD	1-2=0/6, 2	2-3=-46/24						
BOT CHORD	2-4=0/0							
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
- This truss has been designed for a 10.0 psf bottom 2) chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf 3) 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.
- Refer to girder(s) for truss to truss connections. 4)
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 44 lb uplift at joint 3 and 64 lb uplift at joint 2.
- This truss is designed in accordance with the 2018 6) International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard





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RE	LEASE FOR CONSTI	RUCTION
AS	NOTED ON PLANS	REVIEW
1	EXELOPMENT SER	
	LEE'S SUMMIT, MIS Wheeler Lumber, Waverly, KS - 6 1/26/2023 3:1	SOURI
)1/26/2023 3:1	7:51

Truss Type	Qty	Ply	Lot 50 OS	
Jack-Open	16	1	Job Reference (optional)	156071069
Run: 8.43 S Jan 6 20) 22 Print: 8.4	30 S Jan 62	2022 MiTek Industries, Inc. Tue Jan 10 13:25:37	Page: 1

ID:xQWvKDdC7soq?irAqtNqfDymf0u-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f





Scale =	

Scale = 1:23.6				1		· · ·					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	0.40	Vert(LL)	-0.03	2-4	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.24	Vert(CT)	-0.06	2-4	>909	240		
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: 13 lb	FT = 10%

5-0-0

L	U	Μ	в	Е	R

TOP CHORD	2x4 SPF No.2
BOT CHORD	2x4 SPF No.2
BRACING	
TOP CHORD	Structural wood sheathing directly applied or
	5-0-0 oc purlins.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc
	bracing.
REACTIONS	(size) 2=0-3-8, 3= Mechanical, 4=
	Mechanical
	Max Horiz 2=80 (LC 4)
	Max Horiz 2=80 (LC 4) Max Uplift 2=-74 (LC 4), 3=-81 (LC 8)
	,
	Max Uplift 2=-74 (LC 4), 3=-81 (LC 8)
FORCES	Max Uplift 2=-74 (LC 4), 3=-81 (LC 8) Max Grav 2=295 (LC 1), 3=160 (LC 1), 4=96
FORCES	Max Uplift 2=-74 (LC 4), 3=-81 (LC 8) Max Grav 2=295 (LC 1), 3=160 (LC 1), 4=96 (LC 3)
FORCES	Max Uplift 2=-74 (LC 4), 3=-81 (LC 8) Max Grav 2=295 (LC 1), 3=-60 (LC 1), 4=96 (LC 3) (Ib) - Maximum Compression/Maximum
	Max Uplift 2=-74 (LC 4), 3=-81 (LC 8) Max Grav 2=295 (LC 1), 3=160 (LC 1), 4=96 (LC 3) (lb) - Maximum Compression/Maximum Tension 1-2=0/6, 2-3=-62/46
TOP CHORD	Max Uplift 2=-74 (LC 4), 3=-81 (LC 8) Max Grav 2=295 (LC 1), 3=160 (LC 1), 4=96 (LC 3) (lb) - Maximum Compression/Maximum Tension 1-2=0/6, 2-3=-62/46

- 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
- 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 81 lb uplift at joint 3 and 74 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





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

RE	EASE FOR CONST	RUCTION
AS	NOTED ON PLANS	REVIEW
9	EXELOPMENT SER	VICES
C	LEE'S SUMMIT, MIS Wheeler Lumber, Waverly, KS - ()1/26/2023 3:1	7:51

Truss Type	Qty	Ply	Lot 50 OS	
Jack-Closed Supported Gable	2	1	Job Reference (optional)	156071070
Run: 8.43 S Jan 6 20	022 Print: 8.4	30 S Jan 6 2	2022 MiTek Industries, Inc. Tue Jan 10 13:25:37	Page: 1

ID:m6x1ku6Hi9r9orvsAH5DHfymf0G-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

5-0-0

5-0-0





-0-10-8

Scale = 1:26

Scale = 1.20												
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	0.10	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*	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	5	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI201	4 Matrix-P							Weight: 16 lb	FT = 10%
LUMBER TOP CHORD BOT CHORD WEBS OTHERS BRACING TOP CHORD BOT CHORD REACTIONS	2x4 SPF No.2 2x4 SPF No.2 2x4 SPF No.2 Structural wood she 5-0-0 oc purlins, ex Rigid ceiling directly bracing. (size) 2=5-0-0, 1 Max Horiz 2=83 (LC Max Uplift 2=-50 (LC (LC 8)	cept end verticals. y applied or 10-0-0 o 5=5-0-0, 6=5-0-0 5) C 4), 5=-9 (LC 5), 6=	bearing 5, 50 lb 8) This tru Interna R802.1 ed or LOAD CAS c	mechanical connec plate capable of wit uplift at joint 2 and 6 ss is designed in actional Residential Co 0.2 and referenced s E(S) Standard	hstanding 9 66 lb uplift a cordance w ode sections) Ib uplift at jo it joint 6. ith the 2018 ; R502.11.1 a	int					
	Max Grav 2=180 (LC (LC 1)	C 1), 5=52 (LC 1), 6	=267									
FORCES	(lb) - Maximum Com Tension	npression/Maximum										
TOP CHORD BOT CHORD WEBS	1-2=0/6, 2-3=-66/41 2-6=-26/20, 5-6=-26 3-6=-204/104		1/15									
NOTES												
 Vasd=91rr II; Exp C; I cantilever right expos 2) Truss des only. For see Stand or consult 3) Gable required 4) Gable studies 5) This truss chord live 6) * This truss on the bott 3-06-00 ta 	CE 7-16; Vult=115mph nph; TCDL=6.0psf; BC Enclosed; MWFRS (er left and right exposed sed; Lumber DOL=1.6 signed for wind loads in studs exposed to winc lard Industry Gable En qualified building desi uires continuous botto ds spaced at 2-0-0 oc. has been designed fo load nonconcurrent w is has been designed f tom chord in all areas all by 2-00-00 wide will any other members.	EDL=6.0psf; h=25ft; nvelope) exterior zor ; end vertical left an i0 plate grip DOL=1. n the plane of the tru ((normal to the face d Details as applica gner as per ANSI/TI m chord bearing. r a 10.0 psf bottom ith any other live loa for a live load of 20.0 where a rectangle	ne; id 60 Jss ble, PI 1. ds. Opsf							The Annual States	XUEG XUEG LI NUM E-29	BER 713

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

January 10,2023



	EASE FOR CONST	
AS	NOTED ON PLANS	REVIEW
9	EXELOPMENT SER	VICES
C	LEE'S SUMMIT, MIS Wheeler Lumber, Waverly, KS - ()1/26/2023 3:1	7:51

Truss Type	Qty	Ply	Lot 50 OS	
Jack-Closed Girder	2	1	Job Reference (optional)	156071071

Run: 8.43 S Jan 6 2022 Print: 8.430 S Jan 6 2022 MiTek Industries, Inc. Tue Jan 10 13:25:37 ID:FTjpUknDRF5jkvtBiY3LKYymf_7-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f





HUS26

HUS26

5-0-0

5-0-0

Scale = 1:27.8

		· · · · · · · · · · · · · · · · · · ·					·						
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	0.45	Vert(LL)	-0.06	2-4	>910	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15		BC	0.94	Vert(CT)	-0.12	2-4	>488	240		
BCLL	0.0*	Rep Stress Incr	NO		WB	0.00	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code	IRC2018/T	PI2014	Matrix-P		Wind(LL)	0.05	2-4	>999	240	Weight: 17 lb	FT = 10%
LUMBER TOP CHORD			́т	russ, Single	n Strong-Tie HUS Ply Girder) or ed	quivalent	spaced at 2-	0-0					
BOT CHORD WEBS	2x6 SPF No.2 2x3 SPF No.2				ting at 1-0-12 fror s(es) to back face			2 to					
BRACING	2.00 011 110.2				oles where hange			nber.					
TOP CHORD	Structural wood she 5-0-0 oc purlins, ex				other connection			556					
BOT CHORD			1	04 lb up at	108 lb up at 1-0- 3-0-12 on bottom	n chord.	The design/	and					
REACTIONS	•	4= Mechanical		election of s	such connection of others	device(s)	is the						
	Max Horiz 2=82 (LC	5)		, ,	CASE(S) section	loads a	nnlied to the	face					
	Max Uplift 2=-210 (L				are noted as front			1000					
	Max Grav 2=956 (L0			D CASE(S)		()	()						
FORCES	(lb) - Maximum Com	npression/Maximum			of Live (balanced)): Lumber	Increase=1.	15,					
TODOLODD	Tension	0 0 4 450/70		Plate Increa									
TOP CHORD	,	3, 3-4=-159/73		Uniform Loa	ads (lb/ft)								
BOT CHORD	2-4=-25/19			Vert: 1-3	=-70, 2-4=-20								
NOTES					ed Loads (lb)								
Vasd=91r II; Exp C; cantilever right expo	CE 7-16; Vult=115mph nph; TCDL=6.0psf; BC Enclosed; MWFRS (er left and right exposed psed; Lumber DOL=1.6	DL=6.0psf; h=25ft; nvelope) exterior zou ; end vertical left an 0 plate grip DOL=1.	ne; id	Vert: 5=-	556 (B), 6=-556 (В)							
	has been designed fo load nonconcurrent w		ds.									UNIT D	1111
on the bot 3-06-00 ta	ss has been designed f ttom chord in all areas all by 2-00-00 wide will any other members.	where a rectangle	-								111	XPE OF	ANG
	irder(s) for truss to trus	ss connections.									-	:/	
5) Provide m bearing pl	nechanical connection late capable of withsta	(by others) of truss t nding 129 lb uplift at									E*		
	d 210 lb uplift at joint 2.										=7		BER :
	is designed in accorda nal Residential Code s		Ind									E-29	713

6 al Re ential Code sections R5 2.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

MiTek 16023 Swingley Ridge Rd Chesterfield, MO 63017

10.20

January 10,2023

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RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEXEMOPMENT SERVICES LEE'S SUMMIT, MISSOURI O1/26/2023 3:17:51

	Truss Type	Qty	Ply	Lot 50 OS	
	Lay-In Gable	2	1	Job Reference (optional)	156071072
	Page: 1				

ID:D4C98rl5ClbYhZs6FTsElXymfO_-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f



Scale = 1:42.5

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 IRC201	8/TPI2014	CSI TC BC WB Matrix-P	0.44 0.02 0.10	DEFL Vert(LL) Vert(TL) Horiz(TL)	in n/a n/a 0.00	(loc) - - 6	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20 Weight: 42 lb	GRIP 197/144 FT = 10%
LUMBER TOP CHORD BOT CHORD WEBS OTHERS BRACING TOP CHORD BOT CHORD REACTIONS	2x4 SPF No.2 2x4 SPF No.2 2x4 SPF No.2 2x4 SPF No.2 Structural wood she 6-0-0 oc purlins, ex Rigid ceiling directly bracing. (size) 1=7-10-3, 8=7-10-3, Max Horiz 1=310 (L0 Max Uplift 1=-122 (L1 9=-123 (L1 Max Grav 1=243 (L1)	applied or 10-0-0 oc 6=7-10-3, 7=7-10-3, 9=7-10-3 C 5), C 6), 6=-104 (LC 7), C 8), 8=-126 (LC 8), C 8)	7) d or 8) 9) LC	chord live loa * This truss h on the bottom 3-06-00 tall b chord and an Provide meci bearing plate joint 1, 104 lk Ib uplift at join This truss is International	s been designed for d nonconcurrent w as been designed in chord in all areas y 2-00-00 wide wil y other members. nanical connection capable of withsta puplift at joint 6, 12 ht 8 and 127 lb upl designed in accord Residential Code and referenced stan Standard	with any for a liv s where Il fit betw a (by oth anding 1 23 lb upl lift at joir dance w sections	other live loa e load of 20.0 a rectangle veen the botti 22 lb uplift at ift at joint 9, - it 7. ith the 2018 R502.11.1 a	0psf om to t 126					
FORCES	(lb) - Maximum Com Tension	npression/Maximum											
TOP CHORD	1-2=-338/227, 2-3=- 4-5=-188/129, 5-6=-	272/181, 3-4=-225/14 101/118	46,										
BOT CHORD	1-9=-111/84, 8-9=-1 6-7=-111/84	11/84, 7-8=-111/84,											1100
WEBS NOTES	2-9=-163/147, 3-8=-	163/150, 4-7=-171/1	53									NYE OF	VISSO
 Wind: ASI Vasd=91r II; Exp C; cantilever right expo Truss det only. For see Stanc or consult All plates Gable req 	CE 7-16; Vult=115mph mph; TCDL=6.0psf; BC Enclosed; MWFRS (er left and right exposed used; Lumber DOL=1.6 signed for wind loads in studs exposed to wind lard Industry Gable En qualified building desi are 2x4 MT20 unless of uires continuous botto ds spaced at 2-0-0 oc.	DL=6.0psf; h=25ft; C hvelope) exterior zone ; end vertical left and 0 plate grip DOL=1.6 n the plane of the trus I (normal to the face), d Details as applicab gner as per ANSI/TP otherwise indicated.	e; 1 60 55 , le,								A PHILIP	2 XUEG LIU NUM E-29 SS/ON/ January	ER 713



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

RE EASE FOR CONSTI RICTIO NOTED ON PLANS REVIEW A EXELOPMENT SERVICES LEE'S SUMMIT, MISSOURI Wheeler Lumber Waverly, KS - 66871 01/26/2023 3:17:52

	Truss Type	Qty	Ply	Lot 50 OS	
	Lay-In Gable	2	1	Job Reference (optional)	156071073
	Bago: 1				

ID:NgOuzAbhVr82Lf5YxQT7IBymfBG-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page:



Scale = 1:104.4

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 IRC20	018/TPI2014	CSI TC BC WB Matrix-S	0.10 0.03 0.18	DEFL Vert(LL) Vert(TL) Horiz(TL)	in n/a n/a 0.00	(loc) - - 16	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20 Weight: 183 lb	GRIP 197/144 FT = 10%	
LUMBER TOP CHORD BOT CHORD WEBS OTHERS BRACING TOP CHORD BOT CHORD WEBS	2x4 SPF No.2 2x4 SPF No.2 2x4 SPF No.2 Structural wo 5-4-5 oc purli Rigid ceiling of bracing, Exc 6-0-0 oc brac 1 Row at mid	2 2 2 ins, exc directly cept: cing: 15- lpt	13-14, 6-21, 8-20, 9- 10-17, 11-16, 12-15	l or	TOP CHORD BOT CHORD WEBS		870/33 495/19 1-12=-1 4=-18/' (0, 23-2 0/0, 19- 3=-28/30 5=-21/3 24=-164 22=-163 20=-163 -17=-16	34, 5-6=-745/2 35, 9-10=-370, 15/67, 19 4=0/0, 22-23= 20=0/0, 0, 16-17=-29/2 3 /150, /148, 2/147,	(149, 0/0,	sui 10) Th Inte R8	face with s truss is ernationa	n truss s desig Il Resi and re	chord at joint(s) gned in accordance dential Code sect ferenced standard	tions R502.11.1 and	
REACTIONS	15: 17: 19: 21: 23: 25: Max Horiz 1=: Max Uplift 1=: 15: 24: 24: 25: Max Grav 1=: 15: 17: 20: 24: 24: 24: 24: 25: 15: 17: 19: 24: 24: 24: 24: 24: 24: 24: 24	=20-10- =20-10- =20-10- =20-10- =20-10- 877 (LC =-123 (I =-123 (I =-123 (I =-125 (I 887 (LC =151 (L =151 (L =203 (L =19 (LC =204 (L	8) C 6), 14=-22 (LC 8), C 8), 16=-132 (LC 8), C 8), 18=-128 (LC 8 C 8), 21=-124 (LC 8 C 8), 23=-124 (LC 8 C 8), 25=-124 (LC 8 C 8), 25=-124 (LC 8 C 8), 16=213 (LC 15), C 15), 18=198 (LC 15), C 15), 20=196 (LC 15), C 15), 22=203 (LC 11), C 15), 24=203 (LC 11)),),), 5), 5), 5),	 Vasd=91mp II; Exp C; E cantilever le plate grip D Truss desig only. For si see Standa or consult q All plates ai (4) Gable requi Gable studs This truss h chord live le * This truss on the botto 3-06-00 tall chord and a Provide me 	9-18=-163/148, 10-17=-162/147, 11-16=-172/156, 12-15=-119/107 CE 7-16; Vult=115mph (3-second gust) mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. Enclosed; MWFRS (envelope) exterior zone; left and right exposed ; Lumber DOL=1.60 DOL=1.60 Signed for wind loads in the plane of the truss studs exposed to wind (normal to the face), dard Industry Gable End Details as applicable, qualified building designer as per ANSI/TPI 1. are 2x4 MT20 unless otherwise indicated. uirres continuous bottom chord bearing. ds spaced at 2-0-0 oc. has been designed for a 10.0 psf bottom load nonconcurrent with any other live loads. ss has been designed for a live load of 20.0psf ttom chord in all areas where a rectangle all by 2-00-00 wide will fit between the bottom any other members. techanical connection (by others) of truss to late capable of withstanding 22 lb uplift at joint					25ft; Cat. or zone; =1.60 he truss face), oplicable, ISI/TPI 1. ated. Ig. ttom re loads. of 20.0psf igle e bottom russ to				
FORCES			pression/Maximum		14, 300 lb u uplift at join joint 22, 124 128 lb uplift	e capable of withst plift at joint 1, 124 II t 24, 124 Ib uplift at I b uplift at joint 21, at joint 18, 123 Ib u t 16 and 82 Ib uplift	at joint 25, 125 , 124 lb uplift a uplift at joint 2 oint 17, 132 lb	5 lb at 0,			1111	E-29	AL ENGINIT		

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January 10,2023

RELEASE FOR CONSTRUCTION					
AS NOTED ON PLANS REVIEW	Truss Type	Qty	Ply	Lot 50 OS	
DEVELOPMENT SERVICES	Valley	2	1	Job Reference (optional)	156071074
L EE'S SUMMIT, MISSOURI Wheeler Lumber Wavery, KS-66871 01/26/2023 3:17:52				2022 MiTek Industries, Inc. Tue Jan 10 13:25:38 370Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f	Page: 1
		7-1-8			
				2x4 II	
				2x4 u 4	
		2x4 II		3	\square
2.4.12	4 ¹²	2			<u>a</u> r a
	1				

2x4 =

7 6 2x4 II 2x4 II 2x4 II

7-1-8

5

Scale	_	1:23.5
Scale	-	1.20.0

00010 = 1.20.0													
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/TF	912014	CSI TC BC WB Matrix-P	0.12 0.06 0.03	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: 20 lb	GRIP 197/144 FT = 10%
	6-0-0 oc purlins, ex Rigid ceiling directly bracing. (size) 1=7-1-8, 9 Max Horiz 1=91 (LC 8), 7=-69 Max Grav 1=112 (LC	x applied or 10-0-0 oc 5=7-1-8, 6=7-1-8, 7= 5) 4), 5=-9 (LC 5), 6=-2 (LC 8)	or 3- cr be d or 1, s 8) T1 In 7-1-8 LOAD 5 (LC	n the bottom 06-00 tall b nord and an rovide mech earing plate 9 lb uplift a plift at joint (his truss is o ternational	designed in accord Residential Code nd referenced star	s where II fit betw n (by oth anding 6 ift at join dance w sections	a rectangle veen the botto ers) of truss to b uplift at joi t 7 and 25 lb ith the 2018 5 R502.11.1 a	om o int					
FORCES TOP CHORD	(lb) - Maximum Com Tension 1-2=-69/41, 2-3=-55												
	4-5=-31/14 1-7=-29/22, 6-7=-29 2-7=-225/108, 3-6=- CE 7-16; Vult=115mph nph: TCDL=6.0psf: BC	84/40 n (3-second gust)	Cat.										110 <i>0</i> .

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 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 2-0-0 oc.

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

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



RE	LEASE FOR CONST	RUCTION
AS	NOTED ON PLANS	REVIEW
1	EXELOPMENT SER	
C	LEE'S SUMMIT, MIS Wheeler Lumber, Waverly, KS - ()1/26/2023 3:1	7:52

	Truss Type	Qty	Ply	Lot 50 OS	150074075				
	Valley	2	1	Job Reference (optional)	156071075				
Run: 8.43 S. Jan. 6.2022 Print: 8.430 S. Jan. 6.2022 MiTek Industries. Inc. Tue. Jan 10.13:25:30									

ID:Lv5Kh_rQRuc3iiNgWkjbWVymf1v-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

2x4 II





2x4 II



3-1-6

2x4 🚽

3-1-6

Scale = 1:17.4		-										
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	тс	0.08	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	0.00	Horiz(TL)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 7 lb	FT = 10%

TOP CHORD 2x4 SPF No.2 BOT CHORD 2x4 SPF No.2 2x3 SPF No.2 WEBS BRACING TOP CHORD Structural wood sheathing directly applied or 3-2-2 oc purlins, except end verticals. BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. REACTIONS (size) 1=3-1-6, 3=3-1-6 Max Horiz 1=32 (LC 7) Max Uplift 1=-16 (LC 4), 3=-20 (LC 8) Max Grav 1=96 (LC 1), 3=96 (LC 1) (lb) - Maximum Compression/Maximum

FORCES

Tension TOP CHORD 1-2=-29/19, 2-3=-75/33 BOT CHORD 1-3=-10/8

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 requires continuous bottom chord bearing. 3)
- 4) Gable studs spaced at 4-0-0 oc.
- 5) This truss has been designed for a 10.0 psf bottom
- chord live load nonconcurrent with any other live loads. 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom
- chord and any other members. Provide mechanical connection (by others) of truss to 7) bearing plate capable of withstanding 16 lb uplift at joint 1 and 20 lb uplift at joint 3.

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. LOAD CASE(S) Standard





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RF ΕΩΡ CONST NOTED ON PLANS REVIEW Δ EXELOPMENT SERVICES SUMMIT, MISSOURI Lumber Waverly, KS - 66871 6/2023 3:17:52

3-5-5

	Truss Type	Qty	Ply	Lot 50 OS					
	Valley	2	1	Job Reference (optional)	156071076				
Run: 8.43 S Jan 6 2022 Print: 8.430 S Jan 6 2022 MiTek Industries. Inc. Tue Jan 10 13:25:39									

ID:Lv5Kh_rQRuc3iiNgWkjbWVymf1v-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



8-2-10

Scale = 1:30.6

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	0.26	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15		BC	0.12	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES		WB	0.05	Horiz(TL)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC201	8/TPI2014	Matrix-P							Weight: 23 lb	FT = 10%
LUMBER			8)	Provide med	hanical conne	ction (by oth	ers) of truss t	0					
TOP CHORD	2x4 SPF No.2		- /		e capable of w								
BOT CHORD	2x4 SPF No.2				uplift at joint 3.								
OTHERS	2x3 SPF No.2		9)	This truss is	designed in a	ccordance wi	th the 2018						
BRACING				International	Residential C	ode sections	R502.11.1 a	nd					
TOP CHORD	Structural wood she	athing directly appli	ed or	R802.10.2 a	nd referenced	standard AN	ISI/TPI 1.						
	6-0-0 oc purlins.	0 9 11		DAD CASE(S)	Standard								
BOT CHORD	Rigid ceiling directly bracing.	/ applied or 10-0-0 o	с										
REACTIONS	· · ·	, 3=8-2-10, 4=8-2-10)										
	Max Horiz 1=-81 (LC	,											
	Max Uplift 1=-42 (LO	,, , ,	4 007										
	Max Grav 1=202 (L (LC 1)	C 1), 3=202 (LC 1),	4=267										
FORCES	(lb) - Maximum Cor Tension	npression/Maximum											
TOP CHORD	1-2=-141/70, 2-3=-2	35/55											
BOT CHORD	1-4=-18/67, 3-4=-18	3/67											
WEBS	2-4=-173/42												
NOTES													
1) Unbalance this design	ed roof live loads have h.	e been considered fo	r										
0		(2 accord such)											

- 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
- 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.
- 5) Gable studs spaced at 4-0-0 oc.
- 6)
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) * 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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RFI	EASE FOR CONST	RUCTION
	NOTED ON PLANS	
	EXELOPMENT SER	
	EE'S SUMMIT, MIS	SOURI
C	Wheeler Lumber, Waverly, KS - 0 1/26/2023 3:1	7:52

Truss Type	Qty		Lot 50 OS			
Valley	2	1	Job Reference (optional)	156071077		
Run: 8.43 S Jan 6 2022 Print: 8.430 S Jan 6 2022 MiTek Industries, Inc. Tue Jan 10 13:25:39						

ID:Lv5Kh_rQRuc3iiNgWkjbWVymf1v-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

4x5 = 2

4-3-4

1-11-9

3

2x4 💊

2-3-11

2-3-11







4-7-6

Scale = 1:25.5

3cale = 1.23.3													
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	0.06	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15		BC	0.03	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES		WB	0.02	Horiz(TL)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC201	8/TPI2014	Matrix-P							Weight: 12 lb	FT = 10%
LUMBER TOP CHORD BOT CHORD OTHERS BRACING TOP CHORD BOT CHORD	4-8-0 oc purlins. Rigid ceiling directly bracing.	athing directly applie applied or 10-0-0 oc	L	bearing plate 1 and 27 lb u This truss is International	hanical connec e capable of witi uplift at joint 3. designed in acc Residential Co nd referenced s Standard	hstanding 2 cordance w de sections	2 lb uplift at j ith the 2018 s R502.11.1 a	joint					
REACTIONS	(size) 1=4-7-6, 3 Max Horiz 1=-42 (LC	3=4-7-6, 4=4-7-6											
	Max Uplift 1=-42 (LC	,											
	Max Grav 1=105 (LC	,, , ,	=138										

2x4 🧳

(LC 1) FORCES (lb) - Maximum Compression/Maximum Tension TOP CHORD 1-2=-73/36, 2-3=-70/28

BOT CHORD 1-4=-9/35, 3-4=-9/35 WEBS 2-4=-90/22

NOTES

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

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. 2) 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.
- 5) Gable studs spaced at 4-0-0 oc.

chord and any other members.

- This truss has been designed for a 10.0 psf bottom 6) chord live load nonconcurrent with any other live loads.
- 7) * 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





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