

MiTek, Inc. 16023 Swingley Ridge Rd. Chesterfield, MO 63017 314.434.1200

Re: 240113 Lot 179 HT

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: I67268418 thru I67268419

My license renewal date for the state of Kansas is April 30, 2026.

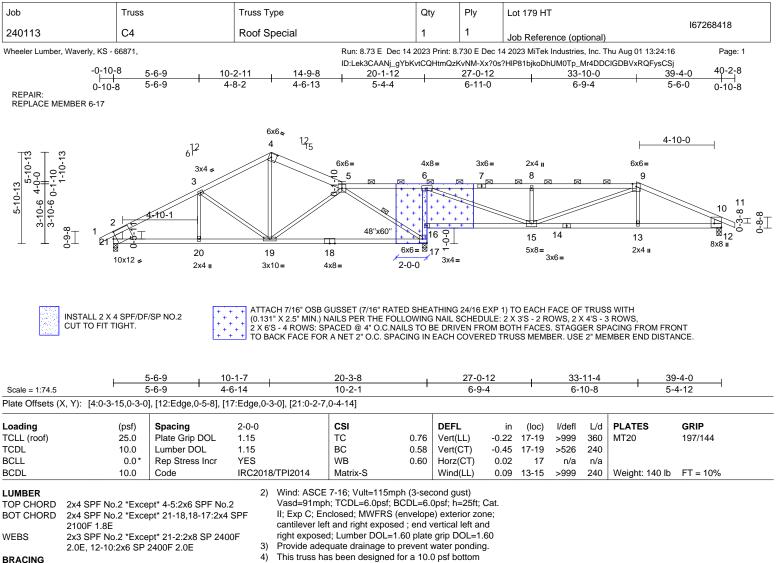
Kansas COA: E-943



August 1,2024

Garcia, Juan

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



DRACING										
TOP CHORD	Structural wood sheathing directly applied or 3-8-11 oc purlins, except end verticals, and 2-0-0 oc purlins (3-11-13 max.): 5-9.									
BOT CHORD										
WEBS	1 Row at	midpt 5-17								
REACTIONS	(lb/size)	12=864/0-3-8, 17=1876/0-3-8, 21=912/0-3-8	_							
	Max Horiz	21=101 (LC 8)	7							
	Max Uplift	12=-174 (LC 9), 17=-291 (LC 9), 21=-136 (LC 8)	8							
	Max Grav	12=872 (LC 22), 17=1876 (LC 1), 21=912 (LC 1)	ð							
FORCES	(lb) - Max	. Comp./Max. Ten All forces 250	L							
TOP CHORD	2-3=-1154	s except when shown. 4/164, 3-4=-882/127, 4-5=-848/141, 0, 6-7=-1309/293, 7-8=-1309/293,	L							
BOT CHORD	2-21=-79 20-21=-1	1/295, 9-10=-1310/247, 9/169, 10-12=-786/198 70/932, 19-20=-170/932, 8/680, 17-18=-68/680,								

16-17=-1153/260, 6-16=-1079/295, 15-16=-359/88. 14-15=-165/1124. 13-14=-165/1124, 12-13=-162/1127

3-19=-287/168, 4-19=-15/382 5-17=-1144/158, 6-15=-307/1739,

Unbalanced roof live loads have been considered for

8-15=-528/215

WEBS

NOTES

this design.

1)

- 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. Provide mechanical connection (by others) of truss to 6)
- bearing plate capable of withstanding 136 lb uplift at joint 21, 174 lb uplift at joint 12 and 291 lb uplift at joint 17.
- 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



August 1,2024

🙏 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 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 and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcscomponent.com)

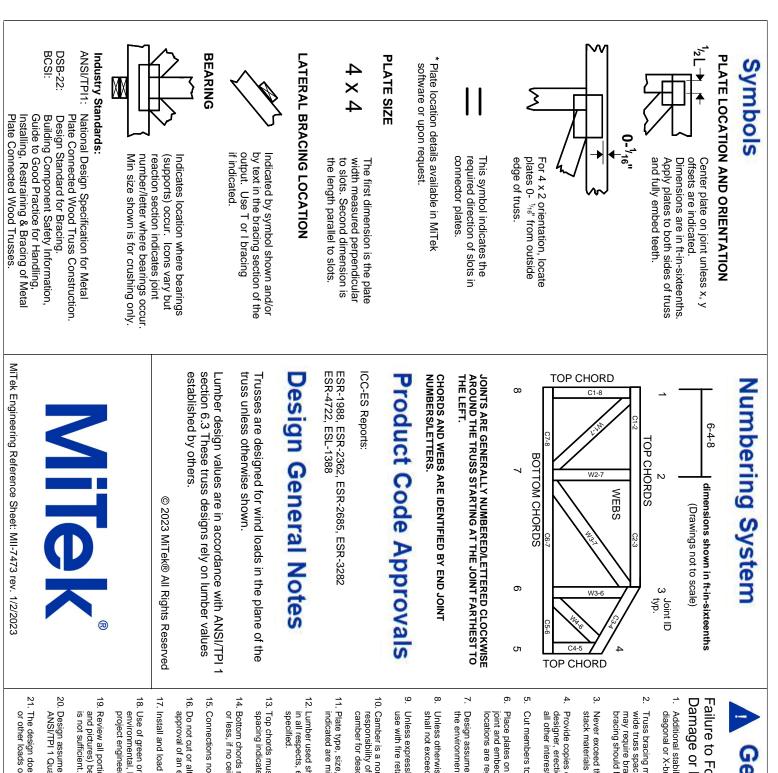


Job		Truss			Truss	Туре				Qty	Р	ly	Lot 179 H	IT				
240113		C6				Special				1	1						16726	8419
Wheeler Lumber	, Waverly, KS - 6							Run: 8.7	3 S Jul 24 2) 24 Print: 8	3.730	S Jul 24	Job Refe 2024 MiTek			Aug 01 11:29:4	1	Page: 1
	-0-10-	0		10.4	o 44 1	10-9-8	15 6 9	ID:Lek30						• •		KWrCDoi7J4zJC		40-2-8
	0-10-8		-6-9 -6-9		<u>' 2-11</u> 8-2 ()-6-13	<u>15-6-8</u> 4-9-0		<u>20-2-4</u> 4-7-12		<u>25-0-1</u> 4-10-		<u>29-10</u> 4-9-			<u>35-8-3</u> 5-10-3	<u>39-4-0</u> 3-7-13	0-10-8
REPAIR:			l-10-1	+		0 10												0 10 0
REPLACE ME	EMBER 14-16					12 15												
						¹⁵ ^{6x6} ≈ 6x	6 =	3x4=	3x6=	2x4 II		2	×4	Gyl	-			
9 <u>-</u> 9-7	 		1: 6F	2		⁴ 5€		6	7	2x4 II 8_	_		x4= 9	6x0 1	5= 10			
0- 2- 2- 2- 2- 2- 2- 2- 2- 2- 2- 2- 2- 2-				2x4 u 🖉	\square	柳吉								<u>_</u>		_		
<u>e</u>			3								~/.					2	×4 = 11	
5-10-13 5-6-6 5-6-6									\		1				16"x32			10
	- 2														+	2	4"x24" + (+	
	Ţų́I 1	<u>B</u>		¥					۷ ٦				16 / 3x6= 1-4	1-0	15	<u> - 19.00, 2.00, 2.00, 2.01, 1</u>		1× d [⊥]
	±0 22 🕅	10x1 23	2 = 2	21		20	194	4 2	25 1180	HS 5x14	5x8:	-	3x6= 1-4	-0 3	8x10=		7:	x12 👟
			:	3x4=	_	3x10=	3x1(
				+ + +	(0.131	" X 2.5" M	IN.) NAILS	PER TH	' RATED SH E FOLLOWII	NG NAIL S	SCHEI	DULE: 2	X 3'S - 2 RC	WS, 2 X 4	4'S - 3 R	OWS,		
				+ + +												ING FROM FRO BER END DISTA		
<u></u>						APPLY 2	X 4 X 4' S	PF/DF/SF	P NO.2 SCAE	B(S) TO E	ACH F	ACE OF	TRUSS AS	SHOWN				
	INSTALL 2 X 4 CUT TO FIT TI		SP NO.2			ATTACH	WITH (0.1	31" X 3")	NAILS PER	THE FOLI	_OWI	NG NAIL	SCHEDUL	: 2 x 4'S ·	- 2 ROW	S:		
A Contract									G IN THE TR						-			
	F	5	-6-9	10-	10-12			20-3-8				29-	11-4			39-4-0		
Scale = 1:74.5	ا ۲ ۲۰۰۰ ۲۸۰۰ ۲۸	-	-6-9	-	-4-3	0 4 4 4 1		9-4-12				9-7	-12	I		9-4-12		1
Plate Offsets (2	X, Y): [4:0-3-3	s,0-2-2],	[14:0-3-15,0	J-4-14], [Z	2:0-2-7,	,0-4-14]												
Loading TCLL (roof)		(psf)	Spacing Plate Grip		2-0-0			CSI TC	0		FL rt(LL)	0	in (loc)	l/defl	L/d 360	PLATES MT20	GRIP 197/14	4
TCDL		25.0 10.0	Lumber D		1.15 1.15			BC			rt(CT)		.25 18-20 .44 18-20		240	M120 M18AHS	142/13	
BCLL		0.0*	Rep Stres	s Incr	YES			NB	0		rz(CT	<i>,</i>	.03 14	n/a	n/a			201
BCDL		10.0	Code		IRC20	18/TPI20	1	Matrix-S			nd(LL	,	.06 15-17	>999	240	Weight: 147	lb FT = 10	J%
LUMBER TOP CHORD	2x4 SPF No.	2 *Exce	nt* 4-5·2v6	SPE No 2	2				=115mph (3 .0psf; BCDI									
BOT CHORD	2x4 SPF 210	0F 1.8E	*Except* 1	8-8:2x3 S		II; Exp	C; Enclo	osed; MV	VFRS (enve	elope) ex	terior	zone;						
WEBS	No.2, 16-14, 2x3 SPF No.				F				exposed ; e DOL=1.60 j									
	2.0E, 14-12:				3 4	,			age to prev tes unless o			•						
BRACING TOP CHORD	Structural w	ood shea	athing direct	lv applied	-	j) Thist	russ has l	been des	signed for a	10.0 psf	botto	m						
	except end v	erticals,							current with esigned for									
BOT CHORD	(5-11-2 max Rigid ceiling	,	applied or 1	0-0-0 oc	0	on the	e bottom o	chord in a	all areas wh	nere a rec	ctang	le						
WEBS	bracing.	dint	0 17 6 19						wide will fit mbers, with									
	1 Row at mid (size) 14	•	9-17, 6-18 18=0-3-8, 2	2=0-3-8	7	') Beariı	ngs are a	ssumed	to be: Joint	22 SPF 2	2100F	•						
	Max Horiz 22		,		. 8				BE , Joint 14 nnection (by			ss to						
	Max Uplift 14 22	l=-186 (I 2=-143 (I		268 (LC 9)),				f withstand 14 and 268				t					
	Max Grav 14			934 (LC 2	2),	22, 10		t at joint	14 anu 200		at join	IL 10.						
FORCES	22 (lb) - Maximi	2=937 (L um Com	,	aximum	9				n accordan Il Code sec									
	Tension					R802	10.2 and	referenc	ed standar	d ANSI/T	ΡI 1.							
TOP CHORD	1-2=0/37, 2- 4-5=-884/17				1				entation doe purlin alon									
	8-9=0/219, 9 11-12=-1309			1=-1061/2		bottor	n chord.			, юр							um.	
	2-22=-809/1	75, 12-1	4=-782/228		L	OAD CA	SE(S)	Standard	l							11 AN	GARC	111
BOT CHORD	21-22=-178/ 18-20=-53/4															1 30	ENSA	9 11
	8-17=-346/1	38, 15-1		ς,												· · · 10	0.	1 3
WEBS	14-15=-263/ 3-21=-282/2		=-194/391												E	1		A E
	4-20=-93/45	9, 6-20=	-15/570, 9-1	7=-976/2	05,										Ξ	16	5952	
	10-15=-29/1 6-18=-950/1			. 9-15=0/5	523										-	PRO 16	14.	: <u>E</u> E
NOTES	0.0-000/1	,	00/100	, - 10-0/0												On	ANSAS	143
1) Unbalance		ds have	been consid	dered for												1,55	EN	Gin
this design																1111	NAL	1.
																	A	ulet 1 2024

August 1,2024

BEFORE USE. opent, not the overall anent bracing 16 m Truss Plate Institute (www.tpinst.org) s.com) MITEK US.com 16023 Swingley Ridge Rd. Chesterfield, MO 63017 314.434.1200 / MITEK-US.com

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General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

- 1. Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI.
- Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves may require bracing, or alternative Tor1 bracing should be considered.
- Never exceed the design loading shown and never stack materials on inadequately braced trusses.
- Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
- 5. Cut members to bear tightly against each other
- Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TPI 1.
- Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI 1.
- Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
- Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
- Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
- 11. Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
- 12. Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
- Top chords must be sheathed or purlins provided at spacing indicated on design.
- 14. Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
- 15. Connections not shown are the responsibility of others.
- Do not cut or alter truss member or plate without prior approval of an engineer.
- 17. Install and load vertically unless indicated otherwise.
- Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use.
- Review all portions of this design (front, back, words and pictures) before use. Reviewing pictures alone is not sufficient.
- 20. Design assumes manufacture in accordance with ANSI/TPI 1 Quality Criteria.
- 21. The design does not take into account any dynamic or other loads other than those expressly stated.