

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

Re: 230089 Lot 141 HM

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: I61753292 thru I61753293

My license renewal date for the state of Missouri is December 31, 2023.

Missouri COA: Engineering 001193



Sevier, Scott

November 1,2023

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 designs. MiTek or TRENCO has not independently verified the applicability of the design parameters or the designs for any particular building. Before use, the building designer should verify applicability of design parameters and properly incorporate these designs into the overall building design per ANSI/TPI 1, Chapter 2.

,Engineer

Job	Truss		Truss Type		Qty	Ply	Lot 141 HM	Л			
230089	C8		Piggyback Base		1	1	Job Refere	once (ontic	(lear		161753292
Wheeler Lumber,	Waverly, KS - 66871,			Run: 8.72 S Oct ID:L9EJUu1Kou0			2023 MiTek In	dustries, Inc	c. Tue	Oct 31 14:50:34 WrCDoi7J4zJC?f	Page: 1
			<u>−−−−7-9-4</u> 7-9-4	<u> </u>	17-7-4 2-3-4	<u>24-1-0</u> 6-5-12					
	REPAIR: BREAK	11-5-0 2-0-0 1-5-0 8-5-0 1-1-5-0 1-1 1-5-0	5x7 =	6 ¹² 3x4 = 2 2 17 19 3x6=	5x7= 3x 3 4 9 9 16 15 4 3x4= 9 16 15 4 14 3x4 6x12=		2x4 II 5 6 12 19 3x10= 6x1	2 0 - 0	-0-0-1	2 2 4	
APPLY 2 X 4 X 4' SPF/DF/SP NO.2 SCAB TO ONE FACE OF TRUSS CENTERED ON DAMAGE/SPLICE OR AS SHOWN. ATTACH WITH (0.131" X 3") NAILS PER THE FOLLOWING NAIL SCHEDULE: 2 x 3'S - 1 ROW, 2 x 4'S - 2 ROWS, 2 x 6'S AND LARGER - 3 ROWS: SPACED @ 2" O.C. USE 2" MEMBER END DISTANCE. $\frac{7-9-4}{7-9-4} + \frac{15-2-12}{7-5-8} + \frac{17-5-8}{2-2-12} + \frac{24-2-12}{1-5-4} + \frac{25-8-0}{1-5-4}$ Scale = 1:95.4											
Plate Offsets (X	(, Y): [1:Edge,0-1-12	2], [3:0-5-0,0-2-8], [6:0	-3-8,0-1-12], [17:0-2-8,0	0-1-8]			0	-3-8			
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 IRC2018/TPI2014	CSI TC BC WB Matrix-S	0.78 Vert 0.63 Vert 0.65 Horz Wind	(LL) -0. (CT) -0. (CT) 0.	in (loc) 11 16-17 20 16-17 01 9 03 16-17	>999 3 >999 2 n/a	L/d 360 240 n/a 240	PLATES MT20 Weight: 176 lb	GRIP 197/144 FT = 10%
BCDL 10.0 Code IRC2018/TPI2014 Matrix-S Wind(LL) LUMBER TOP CHORD 2x4 SPF No.2 Wind: ASCE 7-16; Vulte115mph (3-second gust) Vasd=91mph; TGDL=6.0psf; BCDL=6.0psf; b=25f; CL BOT CHORD 2x4 SPF No.2 "Except* 15-3,18-1,8-7:2x4 SPF No.2 Wind: ASCE 7-16; Vulte115mph (3-second gust) BRACING TOP CHORD Structural wood sheathing directly applied or 3-7-13 oc purlins; except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 3-6. 20 BOT CHORD Rigid ceiling directly applied or 10-0-0 cc bracing: Except: 5-4-2 oc bracing: 8-9. This truss has been designed for a 10.0 psf bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fib between the bottor chord and any other members, with BCDL = 10.0psf. 1 Row at midpt 2-16, 3-15, 6-10, 7-8, 4-12 4-12 REACTIONS (size) 9=0-3-8, 18=0-5-8 Max Horiz 18-180 (LC 3) Max Grav 9=1206 (LC 2), 18=1216 (LC 2) MEBS 1 Row at midpt 2-16, 3-15, 6-10, 7-8, 4-12 4-12 REACTIONS (size) 9=0-3-8, 18=0-5-8 Max Horiz 18-180 (LC 5) Max Grav 9=1206 (LC 2), 18=1216 (LC 2) Max Koriz 18-180 (LC 5) Max Grav 9=1206 (LC 2), 18=1216 (LC 2) FORCES (b) - Maximum Compression/Maximum Tension 9=1360 (LC 2), 18=1216 (LC 2) TOP CHORD 17-18=-230/101, 6-17=-714/1129, 15-16=-46/764, 14-15=-01/31, 4-15=-34/316, 13-14=0/100, 12-13=-03/33, 3-4=-681/44, 4-5=-245/21, 5-6=-232/17, 6-7=-12/41, 1-14==-61/76, 14-15=-01/31,						i=25ft; Cat. rior zone; sed; bonding. bottom live loads. of 20.0psf angle he bottom 10.0psf. f truss to plift at joint 2018 11.1 and 1. ct the size				THE OF M SCOTT SEVI NUME PE-20010	ER #
 Unbalanced this design. 		e been considéréd for								Novembe	555

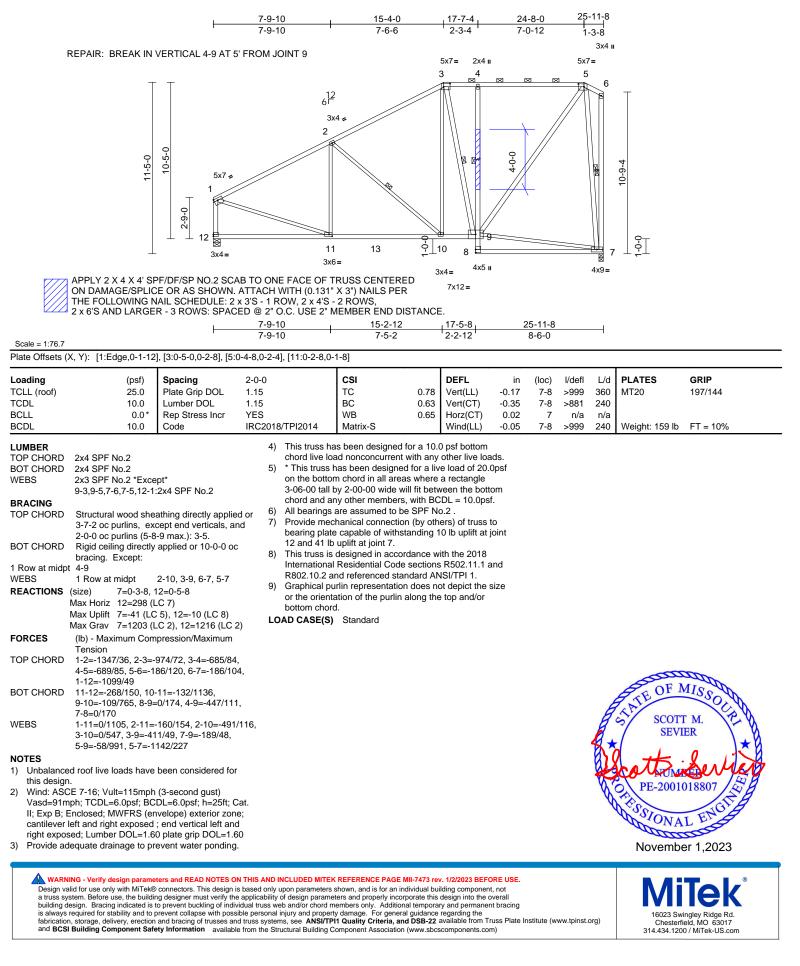


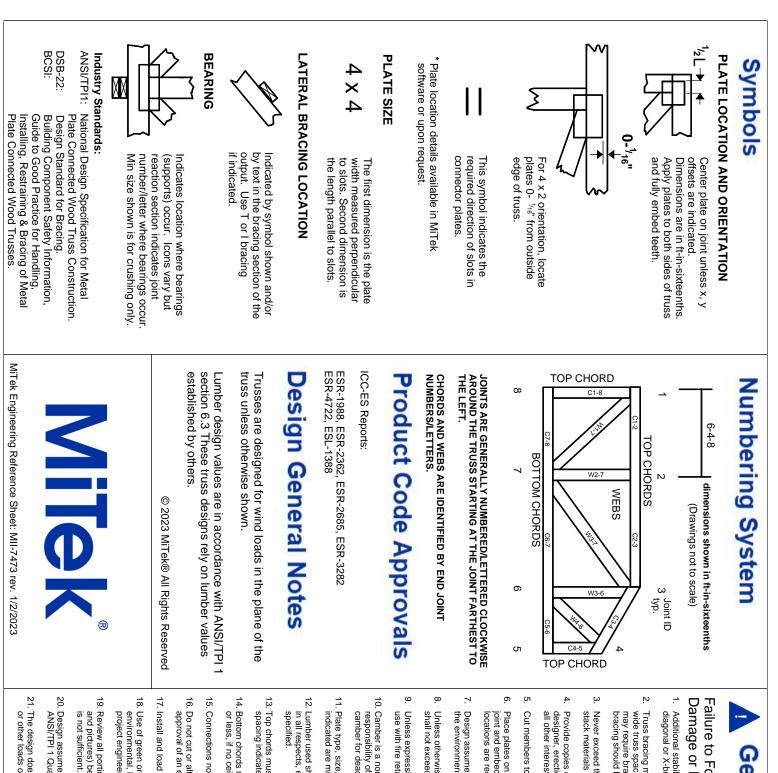
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE. Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, 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, and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcscomponents.com)

Job	Truss	Truss Type	Qty	Ply	Lot 141 HM			
230089	C9	Piggyback Base	1	1	Job Reference (optional)	161753293		

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.72 S Oct 5 2023 Print: 8.720 S Oct 5 2023 MiTek Industries, Inc. Tue Oct 31 14:50:36 ID:mtCfQbESpZdJ5e7vOYdPLjynciZ-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1





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.