

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

Re: 240224 Lot 10 CB

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: I70373778 thru I70373778

My license renewal date for the state of Missouri is December 31, 2025.

Missouri COA: Engineering 001193



December 26,2024

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.

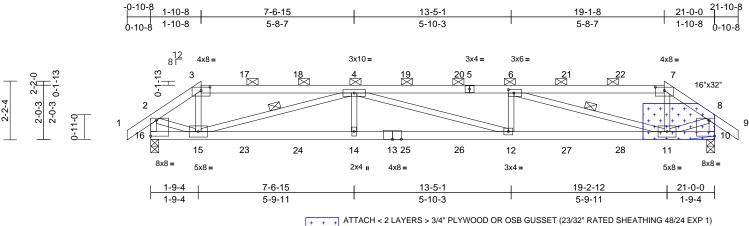
Job	Truss	Truss Type	Qty	Ply	Lot 10 CB			
240224	B10	Hip Girder	1	1	Job Reference (optional)	170373778		

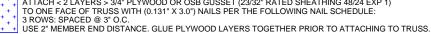
Wheeler Lumber, Waverly, KS - 66871,

Run: 8.73 S Dec 5 2024 Print: 8.730 S Dec 5 2024 MiTek Industries, Inc. Mon Dec 23 08:38:49 ID:b4Dc_gRoQCrCA5UkqxTyFBzvy1I-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

REPAIR: 12" BREAK IN BOTTOM CHORD AT RIGHT END

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Scale = 1:42.9

Plate Offsets (X, Y): [3:0-4-0,0-1-9], [6:0-2-8,0-1-8], [7:0-4-0,0-1-9], [10:Edge,0-7-0], [16:Edge,0-7-0]													
oading	(psf)	Spacing	2-0-0		CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
CLL (roof)	25.0		1.15		TC	0.53	Vert(LL)	-0.20		>999	360	MT20	197/144
CDL	10.0		1.15		BC	0.83	Vert(CT)		12-14	>649	240		
CLL	0.0*		NO		WB	0.69	Horz(CT)	0.08	10	n/a	n/a		
DL	10.0	Code	IRC202	1/TPI2014	Matrix-S		Wind(LL)	0.22	12-14	>999	240	Weight: 74 lb	FT = 10%
JMBER DP CHORD DT CHORD EBS RACING DP CHORD				on the bottor 3-06-00 tall b chord and ar All bearings Provide mec bearing plate 16 and 261 l Graphical pu	has been designed in chord in all area by 2-00-00 wide w by other members are assumed to be hanical connection e capable of withst b uplift at joint 10. rlin representation	is where ill fit betw e SPF Ne n (by oth anding 2	a rectangle ween the bott o.2. ers) of truss 163 lb uplift a ot depict the	om to t joint					
ONORD	bracing.				ation of the purlin a	along the	e top and/or						
BS		4-15, 6-11	9)	bottom chore	t. other connection	,							
	Max Grav 10=993 (L	C 7) LC 4), 16=-263 (LC 5) .C 1), 16=994 (LC 1)		down and 87 3-6-0, 65 lb (41 lb up at 7	ficient to support c ' lb up at 1-10-8, (down and 41 lb up '-6-0, 65 lb down a	65 lb dov at 5-6-(and 41 lb	vn and 41 ĺb), 65 lb dowr) up at 9-6-0	up at and , 65					
RCES	(lb) - Maximum Com Tension	pression/Maximum			41 lb up at 11-6-0								
OP CHORD	1-2=0/38, 2-3=-1067 4-6=-2659/834, 6-7= 7-8=-1068/320, 8-9= 8-10=-1012/265	877/284, 0/38, 2-16=-1013/268,		down and 41 up at 19-1-8 at 1-10-8, 1 and 13 lb up	5 lb down and 41 l lb up at 17-6-0, a on top chord, and 1 lb down and 13 l at 5-6-0, 11 lb do	and 57 lb d 18 lb d lb up at own and	o down and 4 own and 13 I 3-6-0, 11 Ib o 13 Ib up at 7	3 lb b up lown '-6-0,					
T CHORD	15-16=-58/63, 14-15 12-14=-838/2658, 11 10-11=-7/10	,		up at 11-6-0	nd 13 lb up at 9-6 , 11 lb down and ⁻ lb up at 15-6-0, a	13 lb up	at 13-6-0, 1 ⁴	l lb				COL	an
BS	4-12=-22/15, 6-12=0	1868/583, 4-14=0/230 //230, 6-11=-1869/590 302/966, 8-11=-285/9	62	up at 17-6-0 on bottom ch connection c	, and 18 lb down a hord. The design/s levice(s) is the res	and 13 lb selection ponsibili	o up at 19-0- of such ty of others.	12			B	STATE OF AD	MISSOLAN
TES			10		CASE(S) section,			face			U	PA	
 Unbalanced roof live loads have been considered for this design. 			of the truss are noted as front (F) or back (B).									γ \downarrow	
Wind: ASC Vasd=91m II; Exp C; I	1. CE 7-16; Vult=115mph nph; TCDL=6.0psf; BC Enclosed; MWFRS (en left and right exposed	DL=6.0psf; h=25ft; Cat velope) exterior zone;	1) t.	Dead + Roo Plate Increa Uniform Lo	of Live (balanced): ase=1.15							PE-2023	

- 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.

10-16 = -20Concentrated Loads (lb)

Vert: 15=4 (B), 14=2 (B), 12=2 (B), 11=4 (B), 23=2 (B), 24=2 (B), 25=2 (B), 26=2 (B), 27=2 (B), 28=2 (B)

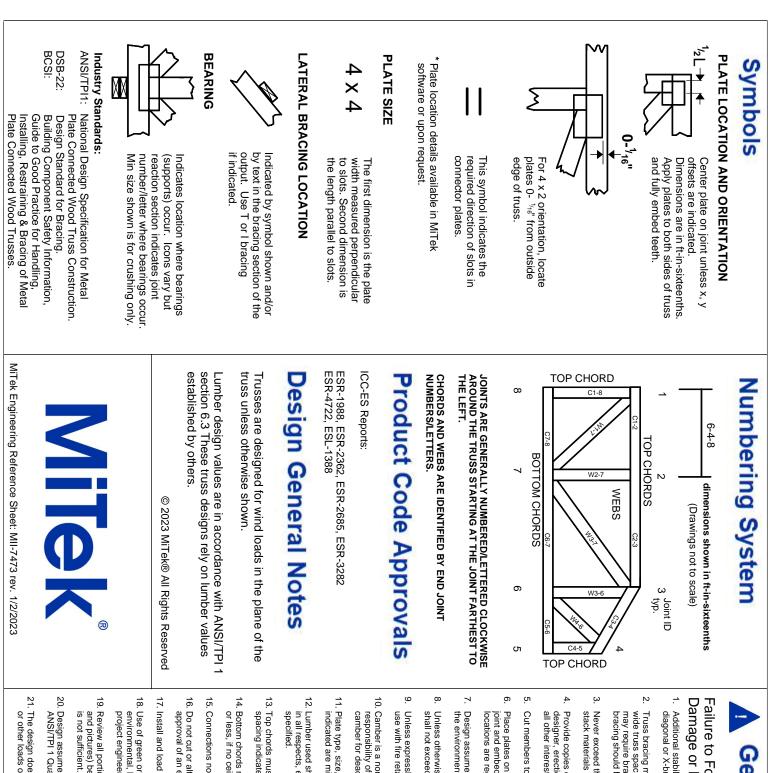
December 26,2024

SSIONAL

 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 besign value to dury with with where outputs into design is based only door parameters shown, and is for an individual building design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members and property 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 **ANS/TPH1 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)



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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.