

RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI 09/01/2022 3:49:47

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

Re: 220003 Lot 1 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: I53931830 thru I53931830

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

Missouri COA: Engineering 001193

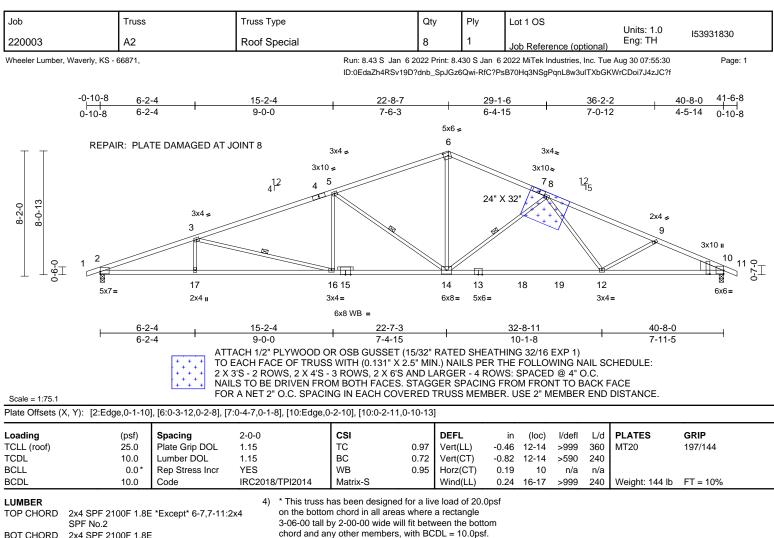


Sevier, Scott

August 30,2022

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



Provide mechanical connection (by others) of truss to

bearing plate capable of withstanding 318 lb uplift at

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.

joint 2 and 239 lb uplift at joint 10.

LOAD CASE(S) Standard

	011 110.2
BOT CHORD	2x4 SPF 2100F 1.8E
WEBS	2x3 SPF No.2
OTHERS	2x3 SPF No.2
WEDGE	Right: 2x8 SP DSS
BRACING	
TOP CHORD	Structural wood sheathing directly applied.
BOT CHORD	Rigid ceiling directly applied or 9-4-14 oc
	bracing.
WEBS	1 Row at midpt 3-16, 5-14, 8-14
REACTIONS	(size) 2=0-3-8, 10=0-3-8

	4. e. e
WEBS	1 Row at midpt 3-16, 5-14, 8-14
REACTIONS	(size) 2=0-3-8, 10=0-3-8
	Max Horiz 2=139 (LC 8)
	Max Uplift 2=-318 (LC 4), 10=-239 (LC 9)
	Max Grav 2=1937 (LC 2), 10=1951 (LC 2)
FORCES	(lb) - Maximum Compression/Maximum Tension
TOP CHORD	1-2=0/6, 2-3=-4773/679, 3-5=-3747/541, 5-6=-2694/392, 6-8=-2745/412, 8-9=-3708/382, 9-10=-3857/475, 10-11=0/6
BOT CHORD	2-17=-690/4436, 16-17=-690/4436, 14-16=-450/3481, 12-14=-269/3059, 10-12=-377/3430
WEBS	3-17=0/331, 3-16=-1014/255, 5-16=0/527, 5-14=-1243/320, 6-14=-142/1510, 8-14=-798/278, 8-12=0/536, 9-12=-244/215

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. 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.



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

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