

No.

1

Seal#

167358563

C06

Truss Name Date

8/7/24

MiTek, Inc. RE: P240299-02 - Roof - Repair C06 16023 Swingley Ridge Rd. Site Information: Project Name: Wildflower - Farmhouse 3 Care. 434.1200 Project Customer: Clayton Properties Lot/Block: 167 Subdivision: Hawthorne Ridge Model: Address: 1704 SW Buckthorn Street City: Lee's Summit State: MO General Truss Engineering Criteria & Design Loads (Individual Truss Design Drawings Show Special Loading Conditions): Design Code: IRC2018/TPI2014 Design Program: MiTek 20/20 8.6 Wind Code: ASCE 7-16 Wind Speed: 115 mph Design Method: MWFRS (Envelope)/C-C hybrid Wind ASCE 7-16 Floor Load: N/A psf Roof Load: 45.0 psf Mean Roof Height (feet): 35 Exposure Category: C

The truss drawing(s) referenced above have been prepared by MiTek USA, Inc. under my direct supervision based on the parameters provided by Premier Building Supply (Springhill, KS)20300 W 207th Street.

Truss Design Engineer's Name: Sevier, Scott

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

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.



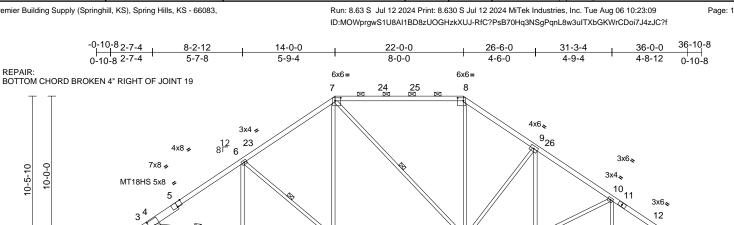
Sevier, Scott

Job	Truss	Truss Type	Qty Ply		Roof - Repair C06	
P240299-02	C06	Piggyback Base	6	1	Job Reference (optional)	167358563

Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083,

REPAIR:

10-0-0 10-5-10







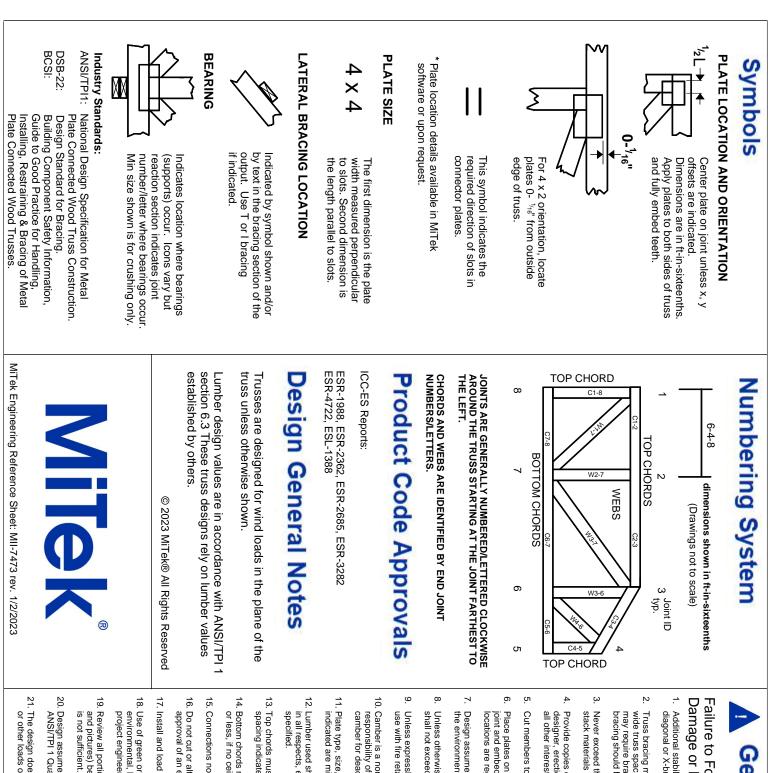
APPLY 2 X 4 X 5' SPF/DF/SP NO.2 SCAB(S) TO EACH FACE OF TRUSS CENTERED ON DAMAGE. ATTACH WITH (0.131" X 3") NAILS PER THE FOLLOWING NAIL SCHEDULE: 2 x 3'S - 1 ROW, 2 x 4'S - 2 ROWS, 2 x 6'S AND LARGER - 3 ROWS: SPACED @ 4" O.C. STAGGER NAIL SPACING FROM FRONT FACE AND BACK FACE FOR A NET 2" O.C SPACING IN THE TRUSS. USE 2" MEMBER END DISTANCE.

	2-5 0 <u>-</u> 5-8	-8 8-2-12		13-10-12		22-1-4		26-4-	10	24	-3-4	36-0-0	
	0-5-8	5-9-4		5-8-0		8-2-8		4-3-			<u>-3-4</u> 10-8	4-8-12	
Scale = 1:71.9	2-0			000		020			•	-		10.12	
Plate Offsets (X, Y): [2:0-4-4,0-3-7]	[2:1-8-15,0-2-8], [4:0	-4-0,0-4-1	2], [5:0-4-0,Eo	dge], [7:0-4-4,	0-2-4], [8:0-4	-4,0-2-4], [13	3:Edge,0	-2-1], [2 ⁻	1:0-2-8,0)-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	0.85	Vert(LL)	-0.30	18-20	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15		BC	0.93	Vert(CT)	-0.51	18-20	>839	180	MT18HS	197/144
BCLL	0.0*	Rep Stress Incr	YES		WB	0.94	Horz(CT)	0.29	13	n/a	n/a		
BCDL	10.0	Code	IRC2018	3/TPI2014	Matrix-S							Weight: 189 lb	FT = 20%
LUMBER			2)	Wind: ASCE	7-16; Vult=1	15mph (3-sec	ond gust)						
TOP CHORD	2x4 SP No.2 *Excer	ot* 7-8:2x4 SP 2400F	,	Vasd=91mp	h; TCDL=6.0p	sf; BCDL=6.	0psf; h=35ft;						
	2.0E, 1-5:2x6 SPF No.2				t. II; Exp C; É								
BOT CHORD	2x4 SP 1650F 1.5E	*Except* 9-16:2x3 SF	۴F	exterior zone	e and C-C Ext	erior(2E) -0-1	0-8 to 4-1-8	,					
	No.2, 16-13,19-17:2	x4 SP No.2			-1-8 to 14-0-0								
WEBS		ept* 22-4:2x4 SP No.2			ior (1) 19-0-0								
SLIDER		2-9-0, Right 2x4 SP N	0.2	to 27-0-0, Interior (1) 27-0-0 to 36-10-8 zone; cantilever left and right exposed ; end vertical left and right									
	2-9-8							-					
BRACING					C for members own; Lumber			or					
TOP CHORD		athing directly applied	lor	DOL=1.60	own; Lumber	DOL=1.60 pi	ate grip						
	2-2-0 oc purlins, exc		3)		quate drainag	o to provent	votor pondin	a					
	2-0-0 oc purlins (4-7		3) 4)		MT20 plates			0					
BOT CHORD	Rigid ceiling directly	applied or 2-2-0 oc	5)		s been desig			.					
WEBS	bracing.	4 04 0 00 7 40	5)		ad nonconcur			ads					
	1 Row at midpt	4-21, 6-20, 7-18	6)	* This truss I									
REACTIONS	(size) 2=0-5-8,		0)		n chord in all			opo.					
	Max Horiz 2=-279 (L	,	-		oy 2-00-00 wie			tom					
	Max Uplift 2=-225 (L			chord and a	y other mem	bers, with BC	DL = 10.0ps	f.					
	Max Grav 2=1755 (I	,, () 7)	Bearings are	assumed to	be: Joint 2 SI	P 1650F 1.5E	Ξ					Th
FORCES	(lb) - Maximum Com	pression/Maximum		crushing cap	acity of 565 p	osi, Joint 13 S	P No.2 crusl	hing				A	all
	Tension			capacity of 5								BR OF I	AISSO
TOP CHORD	,	3/877, 4-6=-2793/411,	8)	Bearing at jo				Э			6	THIE OF I	N'S
	6-7=-2177/403, 7-8=	,			TPI 1 angle to						B	SCOT	M XPN
	8-9=-2142/413, 9-10 10-13=-2557/349, 1	,			ould verify cap						B	SEVI	
BOT CHORD	2-22=-896/4754, 21		9)	Provide med							2		
DOT ONORD	,	-296/2398, 18-20=-125/1730,			e capable of w 225 lb uplift a		23 ID UPIIIT a	t			10.	b	0
		6-17=0/91, 9-17=-57/	515 10) This truss is			ith the 2019			. L.	-18	1 th	the deal
	15-16=-2/114, 13-15		10		Residential C			and				COUNT	
WEBS	4-22=-332/2205, 4-2				nd referenced						N	PE-2001	018807
	6-21=-18/473, 6-20=		11) Graphical pu				size			N	The second	124
	7-20=-105/869, 7-18	3=-179/200,			ation of the pu						Y	NºSo.	G H
	8-18=-62/813, 9-18=	-752/258,		bottom chore								SIONA	LETA
	10-17=-90/208, 10-1	15=-322/110,	LC	AD CASE(S)								Car	- CO
	15-17=-204/1927			(-)									st 7,2024
NOTES												Augu	517,2024

this dwarming - 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.