

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

Re: 220004 Lot 2 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: I55084424 thru I55084424

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

Missouri COA: Engineering 001193



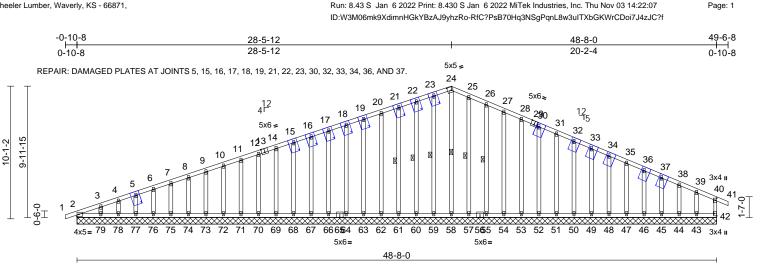
November 4,2022

**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 design barameters 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 2 OS		Lot 2 OS		
220004	A17	Roof Special Supported Gable	2	1	Job Reference (optional)	155084424

Run: 8,43 S Jan 6 2022 Print: 8,430 S Jan 6 2022 MiTek Industries, Inc. Thu Nov 03 14:22:07

Wheeler Lumber, Waverly, KS - 66871,



ATTACH 8" X 12" X 1/2" PLYWOOD OR OSB GUSSET (15/32" RATED SHEATHING 32/16 EXP 1) TO THE INSIDE FACE OF TRUSS WITH FIVE 6d (0.113" X 2") NAILS INTO EACH MEMBER (TOTAL 10 NAILS PER GUSSET)

Scale = 1:87.6

Plate Offsets ()	X, Y): [13:0-3-	-0,Edge],	, [24:0-3-7,0-3-0], [2	29:0-3-0,Edge], [40:0	-2-0,0-1-4], [4	2:Edge,0-2-8]						-	
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	0.08	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL			Lumber DOL	1.15	BC	0.04	Vert(CT)	n/a	-	n/a	999		
BCLL		0.0*	Rep Stress Incr	YES	WB	0.11	Horz(CT)	0.00	42	n/a	n/a		
BCDL		10.0	Code	IRC2018/TPI2014	Matrix-	6						Weight: 322 lb	FT = 10%
LUMBER TOP CHORD BOT CHORD WEBS OTHERS BRACING TOP CHORD BOT CHORD WEBS REACTIONS	6-0-0 oc purl Rigid ceiling bracing. 1 Row at mid (size) 2= 44 47 50 53 57 60 63 67 700 73 76	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		9. 8-0, 8-0, 8-0, 8-0, 8-0, 8-0, 8-0, 8-0, 8-0, 8-0, 8-0, 8-0, 8-0, 8-0,	Max Grav	$\begin{array}{l} 2=-46 \ ({\rm LC} 9), 42 \\ 43=-80 \ ({\rm LC} 9), 44 \\ 45=-35 \ ({\rm LC} 9), 4 \\ 47=-32 \ ({\rm LC} 9), 5 \\ 51=-32 \ ({\rm LC} 9), 5 \\ 51=-32 \ ({\rm LC} 9), 5 \\ 51=-32 \ ({\rm LC} 9), 5 \\ 53=-32 \ ({\rm LC} 9), 5 \\ 59=-11 \ ({\rm LC} 8), 5 \\ 66=-28 \ ({\rm LC} 4), 6 \\ 66=-28 \ ({\rm LC} 4), 7 \\ 72=-28 \ ({\rm LC} 4), 7 \\ 72=-28 \ ({\rm LC} 4), 7 \\ 74=-28 \ ({\rm LC} 4), 7 \\ 74=-20 \ ({\rm LC} 22), \\ 45=120 \ ({\rm LC} 22), \\ 55=121 \ ({\rm LC} 22), \\ 55=121 \ ({\rm LC} 22), \\ 55=121 \ ({\rm LC} 21), \\ 62=120 \ ({\rm LC} 1), \\ 64=120 \ ({\rm LC} 21), \\ 64=120 \ ({\rm LC} 21), \\ 71=-120 \ ({\rm LC} 21), \\ 73=120 \ ({\rm LC} 21), \\ 75=120 \ ({\rm LC} 21), \\ 75=120 \ ({\rm LC} 21), \\ 77=122 \ ({\rm LC} 21), \\ 79=143 \ ({\rm LC} 1), \\ 70=143 \ ({\rm LC} 21), \\ 70=143 $	$\begin{array}{l} 4=-20\ (LC\ 9)\\ 6=-31\ (LC\ 9)\\ 8=-32\ (LC\ 9)\\ 9=-32\ (LC\ 9)\\ 2=-32\ (LC\ 9)\\ 2=-32\ (LC\ 9)\\ 4=-32\ (LC\ 9)\\ 4=-32\ (LC\ 9)\\ 4=-32\ (LC\ 9)\\ 4=-32\ (LC\ 9)\\ 4=-28\ (LC\ 8)\\ 4=-28\ (LC\ 8)\\ 4=-28\ (LC\ 8)\\ 9=-28\ (LC\ 8)\\ 9=-28\ (LC\ 8)\\ 3=-28\ (LC\ 8)\\ 5=-28\ (LC\ 8)\ (LC\ 8)\\ 5=-28\ (LC\ 8)\ (LC\ $	, $,$ $,$ $,$ $,$ $,$ $,$ $,$ $,$ $,$	TOP CH	łORD	4-5= 7-8=- 10-111 12-14 15-16 17-18 19-20 21-22 23-24 25-26 27-28 30-31 32-33 37-38 40-41	104/158, 8-9=-90 =-63/191, 11-12: =-38/213, 14-15: =-38/256, 18-19: =-38/256, 18-19: =-38/256, 18-19: =-38/278, 20-21: =-37/315, 24-25: =-37/302, 26-27: =-32/250, 28-30: =-29/201, 31-32: =-25/152, 33-34: =-21/103, 35-36: =-21/103, 35-36: =-17/53, 38-39= =0/26, 40-42=-1:	11/137, 6-7=-117/14 1/169, 9-10=-76/180 49/202, 38/223, 38/245, 38/267, 38/267, 38/312, 38/312, 38/317, 34/274, 31/225, 27/176, 23/127, 19/86, 36-37=-17/ -20/37, 39-40=-44/2 35/34 MISSOL T.M. IER 018807
				FORCES	(lb) - Max Tension	imum Compressio	on/Maximum					<b>UNA</b>	
					ronoion								er 4,2022



Continued on page 2 Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2/2/2/ BE-VRE 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, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job	Truss	Truss Type	Qty	Ply	Lot 2 OS		
220004	A17	Roof Special Supported Gable	2	1	Job Reference (optional)	155084424	

Run: 8 43 S. Jan 6 2022 Print: 8 430 S. Jan 6 2022 MiTek Industries. Inc. Thu Nov 03 14:22:07

ID:W3M06mk9XdimnHGkYBzAJ9yhzRo-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 2

Wheeler Lumber, Waverly, KS - 66871,

BOT CHORD	2-79=-15/30, 78-79=-15/30, 77-78=-15/30,
	76-77=-15/30, 75-76=-15/30, 74-75=-15/30,
	73-74=-15/30, 72-73=-15/30, 71-72=-15/30,
	70-71=-15/30, 69-70=-15/30, 68-69=-15/30,
	67-68=-15/30, 66-67=-15/30, 64-66=-15/30,
	63-64=-15/30, 62-63=-15/30, 61-62=-15/30,
	60-61=-15/30, 59-60=-15/30, 58-59=-15/30,
	57-58=-15/30, 55-57=-15/30, 54-55=-15/30,
	53-54=-15/30, 52-53=-15/30, 51-52=-15/30,
	50-51=-15/30, 49-50=-15/30, 48-49=-15/30,
	47-48=-15/30, 46-47=-15/30, 45-46=-15/30,
	44-45=-15/30, 43-44=-15/30, 42-43=-15/30
WEBS	24-58=-162/4, 23-59=-97/27, 22-60=-94/51,
	21-61=-93/45, 20-62=-93/44, 19-63=-93/44,
	18-64=-93/44, 17-66=-93/44, 16-67=-93/44,
	15-68=-93/44, 14-69=-93/44, 12-70=-93/44,
	11-71=-93/44, 10-72=-93/44, 9-73=-93/44,
	8-74=-93/44, 7-75=-93/44, 6-76=-93/44,
	5-77=-94/45, 4-78=-89/44, 3-79=-109/73,
	25-57=-97/23, 26-55=-94/57, 27-54=-93/48,
	28-53=-93/48, 30-52=-93/48, 31-51=-93/48,
	32-50=-93/48, 33-49=-93/48, 34-48=-93/48,
	35-47=-93/48, 36-46=-93/48, 37-45=-93/49,
	38-44=-97/43, 39-43=-77/71
NOTEO	

## NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- 2) 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
- Truss designed for wind loads in the plane of the truss 3) only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- All plates are 2x4 MT20 unless otherwise indicated. 4) Gable requires continuous bottom chord bearing. 5)
- 6)
- Gable studs spaced at 1-4-0 oc.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf 8) 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 9) bearing plate capable of withstanding 14 lb uplift at joint 42, 46 lb uplift at joint 2, 11 lb uplift at joint 59, 35 lb uplift at joint 60, 29 lb uplift at joint 61, 28 lb uplift at joint 62, 28 lb uplift at joint 63, 28 lb uplift at joint 64, 28 lb uplift at joint 66, 28 lb uplift at joint 67, 28 lb uplift at joint 68, 28 lb uplift at joint 69, 28 lb uplift at joint 70, 28 lb uplift at joint 71, 28 lb uplift at joint 72, 28 lb uplift at joint 73, 28 lb uplift at joint 74, 28 lb uplift at joint 75, 29 lb uplift at joint 76, 29 lb uplift at joint 77, 30 lb uplift at joint 78, 53 lb uplift at joint 79, 7 lb uplift at joint 57, 41 lb uplift at joint 55, 32 lb uplift at joint 54, 32 lb uplift at joint 53, 32 Ib uplift at joint 52, 32 lb uplift at joint 51, 32 lb uplift at joint 50, 32 lb uplift at joint 49, 32 lb uplift at joint 48, 32 Ib uplift at joint 47, 31 lb uplift at joint 46, 35 lb uplift at joint 45, 20 lb uplift at joint 44 and 80 lb uplift at joint 43.
- 10) 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.

LOAD CASE(S) Standard

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 preven tbuckling 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 sand truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



