

# Submittal #34.0 061753 - Shop-Fabricated Wood Trusses

A.L. Huber 10770 El Monte Overland Park, Kansas 66211 Phone: (913) 341-4880 **Project:** 1205-20 - Streets of West Pryor - Lot 3 2050 NW Lowenstein Drive Lee's Summit, Missouri 64081

REVISION:	0	SUBMITTAL MANAGER:	Carson Pickard (A.L. Huber, Inc.)
STATUS:	Open	DATE CREATED:	07/22/2020
ISSUE DATE:	07/22/2020	SPEC SECTION:	061753 - Shop-Fabricated Wood Trusses
RESPONSIBLE CONTRACTOR:	Wheeler Lumber, LLC	RECEIVED FROM:	Taylor Everhart
RECEIVED DATE:	07/21/2020	SUBMIT BY:	
FINAL DUE DATE:	07/29/2020	LOCATION:	
		COST CODE:	
		TYPE:	
APPROVERS:	Aaron Scott (Certus Structural Engineers), Beth Valo	divia <b>(Schwerdt Design Gr</b> o	oup, Inc.)
BALL IN COURT: Aaron Scott (Certus	Structural Engineers), Beth Valdivia (Schwerdt Desig	gn Group, Inc.)	
<b>DISTRIBUTION:</b> Tyler Ramaekers (A	<b>a.L. Huber, Inc.)</b> , Jaime Pallas <b>(A.L. Huber, Inc.)</b> , Dav	rid Olson <b>(Monarch Acquis</b>	itions, LLC)
DESCRIPTION: The attached file is I	peing submitted for information only. Please make any n	otes necessary.	

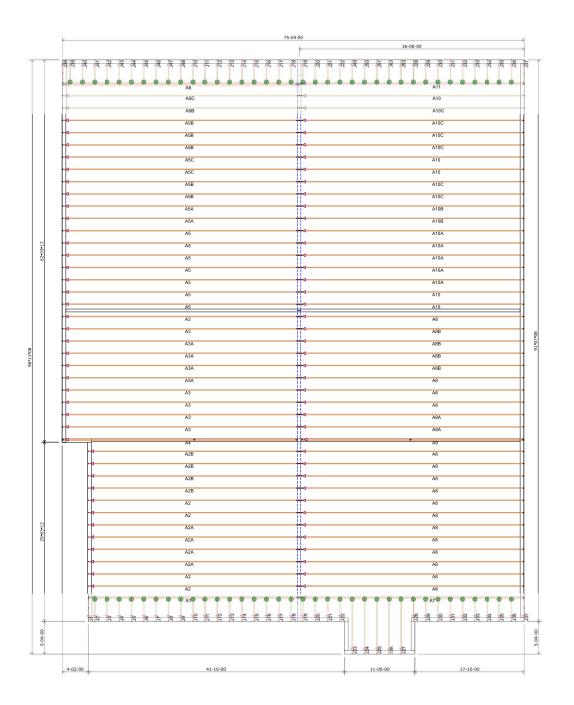
## SUBMITTAL WORKFLOW

NAME	SENT DATE	DUE DATE	RETURNED DATE	RESPONSE	ATTACHMENTS	COMMENTS
Aaron Scott		07/29/2020		Pending		
Beth Valdivia		07/29/2020		Pending		_

# For Review

07/22/2020 9:03:28 AM

Carson Pickard		
BY	DATE	COPIES TO



	HANGER SCHEDULE	Quantity	
•	LUS24	0	
•	LUS26	0	
•	HUS26	72	
_	HHUS26-2	0	
_	HGUS26-2	0	
▲	HGUS28-3	0	
•	LTHJA26	0	HIBER
•	TJC37	0	
	TJC57	0	AI
_	HTS20	0	٧

Triangle denotes the left end of the Truss as it appears on the Engineered Drawings provided.



Unless otherwise specified by Engineer Of Record, Wheeler Lumber, LLC recommends an uplift connection at each bearing point per the following:

# of Uplift Connector 0 - 495: (1) H2.5A 495 - 990: (2) H2.5A 990 - 1245: (1) HTS20

Installation per Simpson Strong-Tie guidelines.

For Reactions greater than 1245#, refer to EOR.

BER	Streets of West Pryor	2050 NW Lowenstein Dr.	nmit MO
A.L. HUBER	Streets of	2050 NW	Lee's Summit
		Address	State
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_		_
Customer	Job Name	Job Site Address

Customer	Job Name	Job Site Addres

THE SOLE SOURCE FOR PARRICATION OF TRUSSES AND VOIDS ALL MEIVEUS ARCHITECTURAL OR OTHER TRUSS, AND VOIDS ALL MEIVEUS RANDERS WILL BE BILLT. VERY ALVOUS REVEINE AND APPROVALL OF THIS LAYOUT REVEINE SHEEKE AVEN SESS WILL BE BILLT. VERY ALL CHARGES TO VOIL. SEE AGAINST CHART WILL RESELT IN EXTR. CHARGES TO VOIL.

Wheeler Lumber 1959 Old Hwy 50 NE Waverly, KS 66871





## MiTek USA, Inc.

16023 Swingley Ridge Rd Chesterfield, MO 63017 314-434-1200

Re: B400088

Streets of West Pryor

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: I42113100 thru I42113174

My license renewal date for the state of Missouri is December 31, 2021.

Missouri COA: Engineering 001193



July 21,2020

Johnson, Andrew

,Engineer

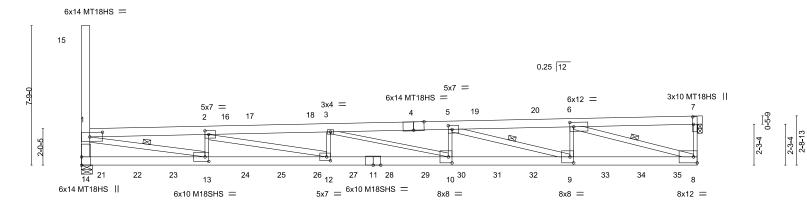
**IMPORTANT NOTE:** The seal on these truss component designs is a certification that the engineer named is licensed in the jurisdiction(s) identified and that the designs comply with ANSI/TPI 1. These designs are based upon parameters shown (e.g., loads, supports, dimensions, shapes and design codes), 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.

Job Truss Truss Type Qty Ply Streets of West Pryor 142113100 B400088 A1 Monopitch Girder Job Reference (optional) 8.410 s May 22 2020 MiTek Industries, Inc. Tue Jul 21 13:43:48 2020 Page 1 Wheeler Lumber. Waverly, KS - 66871,

ID:yyQ78agb1ZluwnWc1etTPnz53bT-cqN02J\_y\_y3yUUaTJNtglJq?xV1MUZ6AXSP?8yyvqCP

34-5-14 0-3-6 27-2-14 34-2-8 6-9-2 6-9-2 6-9-2 6-11-10

Scale: 3/16"=1"



20-5-13 27-2-14 6-11-10 6-11-10 Plate Offsets (X,Y)--[1:0-8-9,0-3-0], [2:0-2-8,0-2-8], [4:0-7-0,Edge], [5:0-2-8,0-2-8], [6:0-2-8,0-3-0], [7:0-5-0,0-0-8], [9:0-2-8,0-4-0], [10:0-2-8,0-4-0], [12:0-2-8,0-2-8], [13:0-2-8,0-3-0], [10:0-2-8,0-3-0], [1

LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof) 20.0				( )				
Snow (Pf/Pg) 15.4/20.0	Plate Grip DOL 1.15	10 0.93	Vert(LL)	1.59 10-12	>256	240	MT20	197/144
` ",	Lumber DOL 1.15	BC 0.75	Vert(CT)	-1.74 10-12	>233	180	M18SHS	197/144
	Rep Stress Incr NO	WB 0.91	Horz(CT)	-0.05 7	n/a	n/a	MT18HS	197/144
BCLL 0.0 *	Code IBC2018/TPI2014	Matrix-S	(**)				Weight: 410 lb	FT = 10%
BCDI 10.0	Code IBC2010/1F12014	Iviatilix-3					Weight. 4 10 lb	11 - 10/6

**BOT CHORD** 

**WEBS** 

LUMBER-BRACING-TOP CHORD TOP CHORD

2x6 SP DSS \*Except\* 1-4: 2x6 SPF 1650F 1.4E

6-11-10

2x6 SP DSS

**BOT CHORD** WEBS

2x3 SPF No.2 \*Except\*

14-15: 2x6 SPF No.2, 1-13,6-8: 2x4 SPF 2100F 1.8E

2-12,5-9: 2x4 SPF No.2

REACTIONS. 14=0-7-4, 7=0-3-0 (size)

Max Horz 14=388(LC 7)

Max Uplift 14=-3986(LC 6), 7=-3943(LC 7) Max Grav 14=5194(LC 36), 7=5005(LC 29)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 1-14=-4266/3190, 1-2=-16456/12815, 2-3=-22273/17433, 3-5=-20657/16188,

5-6=-13277/10426, 7-8=-3833/4857 **BOT CHORD** 13-14=-1657/1864, 12-13=-12865/16458, 10-12=-17450/22283, 9-10=-16216/20667,

8-9=-10468/13291 **WEBS** 1-13=-12090/15456, 2-13=-1948/1334, 2-12=-5034/6465, 3-12=-543/496,

3-10=-1675/1296, 5-10=-1713/2147, 5-9=-7693/6009, 6-9=-3289/4146, 6-8=-13749/10816

# NOTES-

1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:

Top chords connected as follows: 2x6 - 2 rows staggered at 0-7-0 oc, 2x3 - 1 row at 0-9-0 oc.

Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.

Webs connected as follows: 2x4 - 1 row at 0-9-0 oc, 2x3 - 1 row at 0-9-0 oc

- 2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- 3) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=80ft; L=40ft; eave=5ft; Cat. II; Exp C; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 4) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10; Min. flat roof snow load governs.
- 5) Provide adequate drainage to prevent water ponding.
- 6) All plates are MT20 plates unless otherwise indicated.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 14=3986, 7=3943.

On the work plate or shim required to provide full bearing surface with truss chord at joint(s) 7.



OF MISSO

ANDREW

**THOMAS** 

OHNSO

NUMBER

PE-2017018993

Structural wood sheathing directly applied or 3-6-2 oc purlins,

1-13, 5-9, 6-8

Rigid ceiling directly applied or 4-1-3 oc bracing.

except end verticals.

1 Row at midpt

🗥 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

Job	Truss	Truss Type	Qty	Ply	Streets of West Pryor	
D400000	**	Marca National Control	_			I42113100
B400088	A1	Monopitch Girder	1	2	Job Reference (optional)	

Wheeler Lumber.

Waverly, KS - 66871,

8.410 s May 22 2020 MiTek Industries, Inc. Tue Jul 21 13:43:48 2020 Page 2 ID:yyQ78agb1ZluwnWc1etTPnz53bT-cqN02J y y3yUUaTJNtglJq?xV1MUZ6AXSP?8yyvqCP

#### NOTES-

- 11) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- 12) Load case(s) 1, 4, 14, 16, 17, 18, 19, 24, 35, 36, 37, 38 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- 13) Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.
- 14) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 497 lb down and 456 lb up at 1-1-4, 496 lb down and 457 lb up at 3-1-4, 495 lb down and 457 lb up at 5-1-4, 495 lb down and 457 lb up at 7-1-4, 495 lb down and 456 lb up at 9-1-4, 494 lb down and 456 lb up at 11-1-4, 494 lb down and 456 lb up at 13-1-4, 494 lb down and 455 lb up at 15-1-4, 493 lb down and 455 lb up at 17-1-4, 493 lb down and 455 lb up at 19-1-4, 493 lb down and 454 lb up at 21-1-4, 492 lb down and 454 lb up at 23-1-4, 492 lb down and 453 lb up at 25-1-4, 492 lb down and 453 lb up at 27-1-4, 491 lb down and 453 lb up at 29-1-4, and 491 Ib down and 452 lb up at 31-1-4, and 490 lb down and 452 lb up at 33-1-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of

#### LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15. Plate Increase=1.15

Uniform Loads (plf)

Vert: 7-16=-61, 8-14=-20

Concentrated Loads (lb)

Vert: 13=-169(F) 9=-169(F) 21=-171(F) 22=-169(F) 23=-169(F) 24=-169(F) 25=-169(F) 26=-169(F) 27=-169(F) 28=-169(F) 29=-169(F) 30=-169(F) 31=-169(F)

32=-169(F) 33=-169(F) 34=-169(F) 35=-169(F)

Trapezoidal Loads (plf)

Vert: 1=-121-to-16=-61

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 7-16=-53, 8-14=-20

Concentrated Loads (lb)

Vert: 13=-143(F) 9=-143(F) 21=-145(F) 22=-143(F) 23=-143(F) 24=-143(F) 25=-143(F) 26=-143(F) 27=-143(F) 28=-143(F) 29=-143(F) 30=-143(F) 31=-143(F)

32=-143(F) 33=-143(F) 34=-143(F) 35=-143(F)

Trapezoidal Loads (plf)

Vert: 1=-98-to-16=-53

14) Dead + Snow on Overhangs: Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90

Uniform Loads (plf)

Vert: 7-16=-30, 8-14=-20

Concentrated Loads (lb)

Vert: 13=-169(F) 9=-169(F) 21=-171(F) 22=-169(F) 23=-169(F) 24=-169(F) 25=-169(F) 26=-169(F) 27=-169(F) 28=-169(F) 29=-169(F) 30=-169(F) 31=-169(F)

32=-169(F) 33=-169(F) 34=-169(F) 35=-169(F)

Trapezoidal Loads (plf)

Vert: 1=-90-to-16=-30

16) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 7-16=-54, 8-14=-20

Horz: 1-14=21, 1-15=38, 1-7=1, 7-8=6

Concentrated Loads (lb)

Vert: 13=279(F) 9=276(F) 21=278(F) 22=279(F) 23=279(F) 24=279(F) 25=278(F) 26=278(F) 27=278(F) 28=278(F) 29=277(F) 30=277(F) 31=277(F) 32=276(F)

33=276(F) 34=276(F) 35=275(F)

Trapezoidal Loads (plf)

Vert: 1=-99-to-16=-54

17) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 7-16=-54, 8-14=-20

Horz: 1-14=-6, 1-15=-38, 1-7=1, 7-8=-21

Concentrated Loads (lb)

Vert: 13=279(F) 9=276(F) 21=278(F) 22=279(F) 23=279(F) 24=279(F) 25=278(F) 26=278(F) 27=278(F) 28=278(F)

29=277(F) 30=277(F) 31=277(F) 32=276(F) 33=276(F) 34=276(F) 35=275(F)

Vert: 1=-99-to-16=-54

18) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 7-16=-54, 8-14=-20

Horz: 1-14=-10, 1-15=-25, 1-7=1, 7-8=10

Concentrated Loads (lb)

Vert: 13=279(F) 9=276(F) 21=278(F) 22=279(F) 23=279(F) 24=279(F) 25=278(F) 26=278(F) 27=278(F) 28=278(F)

29=277(F) 30=277(F) 31=277(F) 32=276(F) 33=276(F) 34=276(F) 35=275(F)

Trapezoidal Loads (plf)

Vert: 1=-99-to-16=-54

19) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 7-16=-54, 8-14=-20

Horz: 1-14=-10, 1-15=-25, 1-7=1, 7-8=10

Concentrated Loads (lb)

Vert: 13=279(F) 9=276(F) 21=278(F) 22=279(F) 23=279(F) 24=279(F) 25=278(F) 26=278(F) 27=278(F) 28=278(F)

29=277(F) 30=277(F) 31=277(F) 32=276(F) 33=276(F) 34=276(F) 35=275(F)

Trapezoidal Loads (plf)

Vert: 1=-99-to-16=-54

24) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 7-16=-70, 8-14=-20

Continued on page 3







Job	Truss	Truss Type	Qty	Ply	Streets of West Pryor	
B400088	A1	Monopitch Girder	1	_		I42113100
				Z	Job Reference (optional)	

Wheeler Lumber.

Waverly, KS - 66871,

8.410 s May 22 2020 MiTek Industries, Inc. Tue Jul 21 13:43:48 2020 Page 3 ID:yyQ78agb1ZluwnWc1etTPnz53bT-cqN02J\_y\_y3yUUaTJNtglJq?xV1MUZ6AXSP?8yyvqCP

# LOAD CASE(S) Standard

Concentrated Loads (lb)

Vert: 13=-169(F) 2=-169(F) 21=-171(F) 22=-169(F) 23=-169(F) 24=-169(F) 25=-169(F) 26=-169(F) 27=-169(F) 28=-169(F) 29=-169(F) 30=-169(F) 31=-169(F) 32=-169(F) 33=-169(F) 34=-169(F) 35=-169(F)

Trapezoidal Loads (plf)

Vert: 1=-130-to-16=-70

35) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 7-16=-54, 8-14=-20

Horz: 1-14=21, 1-15=38, 1-7=1, 7-8=6

Concentrated Loads (lb)

Vert: 13=-440(F) 9=-437(F) 21=-442(F) 22=-441(F) 23=-440(F) 24=-440(F) 25=-440(F) 26=-439(F) 27=-439(F) 28=-439(F) 29=-439(F) 30=-438(F) 31=-438(F) 32=-438(F) 33=-437(F) 34=-437(F) 35=-437(F)

Trapezoidal Loads (plf)

Vert: 1=-99-to-16=-54

36) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 7-16=-54, 8-14=-20

Horz: 1-14=-6, 1-15=-38, 1-7=1, 7-8=-21

Concentrated Loads (lb)

Vert: 13=-440(F) 9=-437(F) 21=-442(F) 22=-441(F) 23=-440(F) 24=-440(F) 25=-440(F) 26=-439(F) 27=-439(F) 28=-439(F) 29=-439(F) 30=-438(F) 31=-438(F) 32=-438(F) 33=-437(F) 34=-437(F) 35=-437(F)

Trapezoidal Loads (plf)

Vert: 1=-99-to-16=-54

37) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 7-16=-54, 8-14=-20

Horz: 1-14=-10, 1-15=-25, 1-7=1, 7-8=10

Concentrated Loads (lb)

Vert: 13=-440(F) 9=-437(F) 21=-442(F) 22=-441(F) 23=-440(F) 24=-440(F) 25=-440(F) 26=-439(F) 27=-439(F) 28=-439(F) 29=-439(F) 30=-438(F) 31=-438(F)

32=-438(F) 33=-437(F) 34=-437(F) 35=-437(F)

Trapezoidal Loads (plf)

Vert: 1=-99-to-16=-54

38) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 7-16=-54, 8-14=-20

Horz: 1-14=-10, 1-15=-25, 1-7=1, 7-8=10

Concentrated Loads (lb)

Vert: 13=-440(F) 9=-437(F) 21=-442(F) 22=-441(F) 23=-440(F) 24=-440(F) 25=-440(F) 26=-439(F) 27=-439(F) 28=-439(F) 29=-439(F) 30=-438(F) 31=-438(F)

32=-438(F) 33=-437(F) 34=-437(F) 35=-437(F)

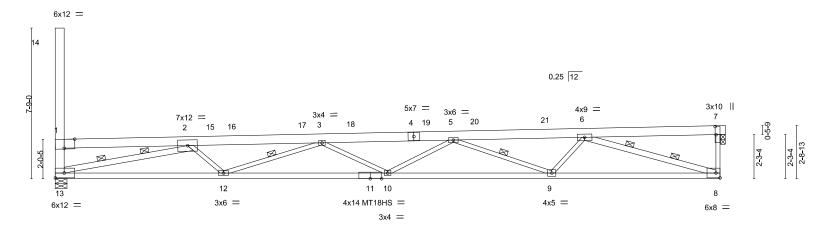
Trapezoidal Loads (plf)

Vert: 1=-99-to-16=-54

Job Truss Truss Type Qty Streets of West Pryor 142113101 B400088 A2 Monopitch Job Reference (optional) Waverly, KS - 66871, 8.410 s May 22 2020 MiTek Industries, Inc. Tue Jul 21 13:44:17 2020 Page 1 Wheeler Lumber.

ID:yyQ78agb1ZluwnWc1etTPnz53bT-GQd 8DL89sirSxl2WzvUQQXzNCvwngwRCTw1fmyvqBy 34-5-14 0-3-6 27-2-14 34-2-8 6-11-10 6-9-2 6-9-2 6-11-10

Scale = 1:59.3



<del></del>	8-7-14 8-7-14		8-5-6		25-6-10 8-5-6		+			-4-14 1-0-6
Plate Offsets (2		,Edge], [7:0-5-0,0-0-8]								
LOADING (ps TCLL (roof) Snow (Pf/Pg) TCDL BCLL BCDL	5) 20.0 15.4/20.0 15.0 0.0 * 10.0	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr Code IBC2018/	2-0-0 1.15 1.15 NO FPI2014	CSI. TC 0.88 BC 0.90 WB 0.93 Matrix-S	DEFL. Vert(LL) Vert(CT) Horz(CT) Wind(LL)	in (loc) -0.56 10-12 -1.24 10-12 0.03 7 0.56 10-12	I/defI >721 >327 n/a >728	L/d 360 240 n/a 240	PLATES MT20 MT18HS Weight: 149 II	<b>GRIP</b> 197/144 197/144  o FT = 10%

**BRACING-**

TOP CHORD

**BOT CHORD** 

**WEBS** 

LUMBER-

2x6 SPF No.2 TOP CHORD **BOT CHORD** 2x4 SPF 2100F 1.8E WEBS 2x3 SPF No.2 \*Except\*

13-14: 2x6 SPF No.2, 2-13,6-8: 2x4 SPF No.2

REACTIONS. (size) 13=0-7-4, 7=0-2-14 Max Horz 13=392(LC 11)

Max Uplift 13=-167(LC 10), 7=-170(LC 11) Max Grav 13=1740(LC 28), 7=1542(LC 28)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

1-13=-420/150, 1-2=-940/890, 2-3=-5462/2313, 3-5=-6508/2464, 5-6=-4544/1628, TOP CHORD 7-8=-445/1321

BOT CHORD 12-13=-2346/4830, 10-12=-2775/6614, 9-10=-2442/6127, 8-9=-1532/3906 2-13=-4693/1673, 2-12=-184/936, 3-12=-1330/678, 3-10=-146/290, 5-10=-95/504, **WEBS** 

5-9=-1716/823, 6-9=-245/1041, 6-8=-4046/1580

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=80ft; L=40ft; eave=5ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Corner(3) 0-2-12 to 15-2-12, Exterior(2) 15-2-12 to 19-1-4, Corner(3) 19-1-4 to 34-1-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10; Min. flat roof snow load governs.
- 3) Provide adequate drainage to prevent water ponding.
- 4) All plates are MT20 plates unless otherwise indicated.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 7.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 13=167 7=170 9) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 7.
- 10) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 11) Load case(s) 1, 4, 20, 21, 22, 23, 28 has/have been modified. Building designer must review loads to verify that they are correct for
- 12) Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.

LOAD CASE(S) Standard

Continued on page 2

Structural wood sheathing directly applied or 2-3-1 oc purlins,

3-12, 5-9

2-13, 6-8

Rigid ceiling directly applied or 4-7-13 oc bracing.

except end verticals.

1 Row at midpt

2 Rows at 1/3 pts

16023 Swingley Ridge Rd Chesterfield, MO 63017

PE-- PE--

OF MISSO

ANDREW

**THOMAS** 

JOHNSON

NUMBER

PE-2017018993

July 21,2020

Job	Truss	Truss Type	Qty	Ply	Streets of West Pryor	
						I42113101
B400088	A2	Monopitch	4	1		
					Job Reference (optional)	

Wheeler Lumber.

Waverly, KS - 66871,

8.410 s May 22 2020 MiTek Industries, Inc. Tue Jul 21 13:44:17 2020 Page 2 ID:yyQ78agb1ZluwnWc1etTPnz53bT-GQd 8DL89sirSxl2WzvUQQXzNCvwngwRCTw1fmyyqBy

#### LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 7-15=-61, 8-13=-20

Trapezoidal Loads (plf)

Vert: 1=-121-to-15=-61

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 7-15=-53, 8-13=-20

Trapezoidal Loads (plf)

Vert: 1=-98-to-15=-53

20) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 7-15=-54, 8-13=-20

Horz: 1-13=21, 1-14=38, 1-7=1, 7-8=6

Trapezoidal Loads (plf)

Vert: 1=-99-to-15=-54

21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 7-15=-54, 8-13=-20

Horz: 1-13=-6, 1-14=-38, 1-7=1, 7-8=-21

Trapezoidal Loads (plf)

Vert: 1=-99-to-15=-54

 $22) \ \ Dead + 0.75 \ Snow (bal.) + 0.75 (0.6 \ MWFRS \ Wind (Neg. Int) \ 1st \ Parallel): Lumber \ Increase = 1.60, Plate \ Increase = 1.60, Pl$ 

Uniform Loads (plf)

Vert: 7-15=-54, 8-13=-20

Horz: 1-13=-10, 1-14=-25, 1-7=1, 7-8=10

Trapezoidal Loads (plf)

Vert: 1=-99-to-15=-54

23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 7-15=-54, 8-13=-20

Horz: 1-13=-10, 1-14=-25, 1-7=1, 7-8=10

Trapezoidal Loads (plf)

Vert: 1=-99-to-15=-54

28) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 7-15=-70, 8-13=-20

Trapezoidal Loads (plf)

Vert: 1=-130-to-15=-70

| Digitary | Digitary

6-9-2

27-2-14

6-9-2

Scale = 1:61.2

34-5-14 0-3-6

6-11-10

Structural wood sheathing directly applied or 2-0-5 oc purlins,

6-8

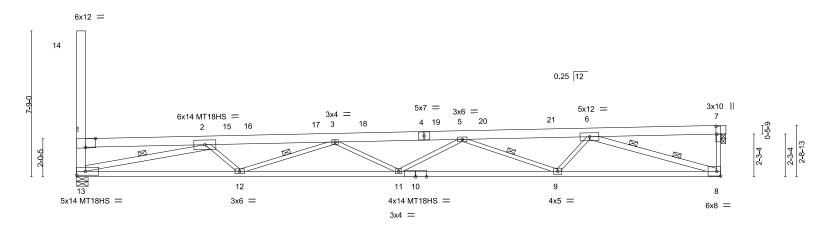
2-13, 3-12, 5-9

Rigid ceiling directly applied or 6-1-2 oc bracing.

except end verticals.

1 Row at midpt

2 Rows at 1/3 pts



8-7-14 8-7-14		7-1-4 -5-6	25-6-10 8-5-6	+		2-14 0-6
Plate Offsets (X,Y) [1:0-6-10,Edge],	[7:0-5-0,0-0-8]					
TCLL (roof) 20.0 P Snow (Pf/Pg) 15.4/20.0 L TCDL 15.0 R	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr NO Code IBC2018/TPI2014	CSI. TC 0.88 BC 0.91 WB 0.95 Matrix-S	DEFL.         in (loc           Vert(LL)         -0.53         11-12           Vert(CT)         -1.37         11-12           Horz(CT)         0.03         1           Wind(LL)         0.53         11-12	2 >760 360 2 >298 240 7 n/a n/a	PLATES MT20 MT18HS Weight: 149 lb	<b>GRIP</b> 197/144 197/144 FT = 10%

**BRACING-**

TOP CHORD

**BOT CHORD** 

**WEBS** 

LUMBER-

**BOT CHORD** 

TOP CHORD 2x6 SPF No.2 \*Except\*

1-4: 2x6 SPF 1650F 1.4E 2x4 SPF 2400F 2.0E \*Except\*

6-11-10

6-9-2

8-10: 2x4 SPF 2100F 1.8E

WEBS 2x3 SPF No.2 \*Except\*

13-14: 2x6 SPF No.2, 2-13: 2x4 SPF 2100F 1.8E, 6-8: 2x4 SPF No.2

**REACTIONS.** (size) 13=0-7-4, 7=0-2-14 Max Horz 13=392(LC 11)

Max Uplift 7=-46(LC 11)

Max Grav 13=1991(LC 28), 7=1666(LC 28)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 1-13=-398/156, 1-2=-935/875, 2-3=-6543/1261, 3-5=-7560/1411, 5-6=-5024/1148,

7-8=-322/1444

BOT CHORD 12-13=-1397/5812, 11-12=-1450/7940, 9-11=-1645/6923, 8-9=-1150/4287 WEBS 2-13=-5730/706, 2-12=-41/1071, 3-12=-1597/386, 3-11=-462/0, 5-11=0/803,

5-9=-2057/481, 6-9=-82/1204, 6-8=-4445/1182

#### NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=80ft; L=40ft; eave=5ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Corner(3) 0-2-12 to 15-2-12, Exterior(2) 15-2-12 to 19-1-4, Corner(3) 19-1-4 to 34-1-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10; Min. flat roof snow load governs.
- 3) 375.0lb AC unit load placed on the top chord, 11-4-0 from left end, supported at two points, 4-5-0 apart.
- 4) Provide adequate drainage to prevent water ponding.
- 5) All plates are MT20 plates unless otherwise indicated.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 8) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 7.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 7.
- 10) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 7.
- 11) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI
- 12) Load case(s) 1, 4, 20, 21, 22, 23, 28 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- 13) Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.

Continued on page 2

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 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

ANSITPIT Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601





B400088 A2A Monopitch 4 1	Job	Truss	Truss Type	Qty	Ply	Streets of West Pryor	
	R400088	Δ2Δ	Monopitch	4	1	I421131	)2
dob reletence (opational)	D400000	727	Monopiteri	7	'	Job Reference (optional)	

Wheeler Lumber.

Waverly, KS - 66871,

8.410 s May 22 2020 MiTek Industries, Inc. Tue Jul 21 13:44:19 2020 Page 2 ID:yyQ78agb1ZluwnWc1etTPnz53bT-CoklZvMPhTzZiESQdOxyWrdJt?ZCFa7kgnP8jfyvqBw

#### LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 7-15=-61, 8-13=-20

Concentrated Loads (lb)

Vert: 3=-188 16=-188

Trapezoidal Loads (plf)

Vert: 1=-121-to-15=-61

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 7-15=-53, 8-13=-20

Concentrated Loads (lb)

Vert: 3=-188 16=-188

Trapezoidal Loads (plf)

Vert: 1=-98-to-15=-53

20) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 7-15=-54, 8-13=-20

Horz: 1-13=21, 1-14=38, 1-7=1, 7-8=6

Concentrated Loads (lb)

Vert: 3=-188 16=-188 Trapezoidal Loads (plf)

Vert: 1=-99-to-15=-54

21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 7-15=-54, 8-13=-20

Horz: 1-13=-6, 1-14=-38, 1-7=1, 7-8=-21

Concentrated Loads (lb)

Vert: 3=-188 16=-188

Trapezoidal Loads (plf)

Vert: 1=-99-to-15=-54

22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 7-15=-54, 8-13=-20

Horz: 1-13=-10, 1-14=-25, 1-7=1, 7-8=10

Concentrated Loads (lb)

Vert: 3=-188 16=-188

Trapezoidal Loads (plf)

Vert: 1=-99-to-15=-54 23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 7-15=-54, 8-13=-20

Horz: 1-13=-10, 1-14=-25, 1-7=1, 7-8=10

Concentrated Loads (lb)

Vert: 3=-188 16=-188

Trapezoidal Loads (plf)

Vert: 1=-99-to-15=-54

28) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 7-15=-70, 8-13=-20

Concentrated Loads (lb)

Vert: 3=-188 16=-188

Trapezoidal Loads (plf) Vert: 1=-130-to-15=-70 Job Truss Truss Type Qty Streets of West Pryor 142113103 B400088 A2B Monopitch Job Reference (optional) Wheeler Lumber, Waverly, KS - 66871, 8.410 s May 22 2020 MiTek Industries, Inc. Tue Jul 21 13:44:20 2020 Page 1 ID:yyQ78agb1ZluwnWc1etTPnz53bT-g\_I7mFN1Sn5QJO1dB5SB239T3PuN\_0ctuR9hF5yvqBv

27-2-14

6-9-2

Scale = 1:61.2

6-11-10

Structural wood sheathing directly applied or 1-9-4 oc purlins,

3-12, 5-9

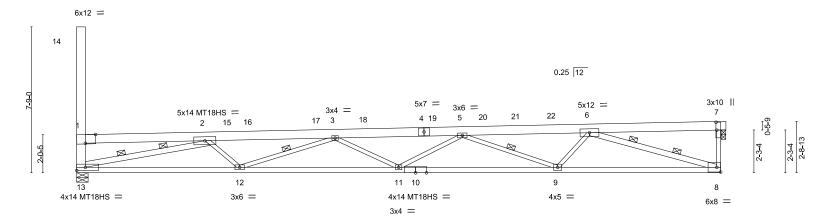
2-13, 6-8

Rigid ceiling directly applied or 5-4-5 oc bracing.

except end verticals.

1 Row at midpt

2 Rows at 1/3 pts



8-		8-5-6	25-6-10 8-5-6			-2-14 -0-6
LOADING (psf) TCLL (roof) 20.0 Snow (Pf/Pg) 15.4/20.0 TCDL 15.0 BCLL 0.0 * BCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr NO Code IBC2018/TPI2014	CSI. TC 0.92 BC 0.98 WB 1.00 Matrix-S	DEFL.         in (loc)           Vert(LL)         -0.56 11-12           Vert(CT)         -1.38 11-12           Horz(CT)         0.03 7           Wind(LL)         0.56 11-12	>721 360 >296 240 n/a n/a	PLATES MT20 MT18HS Weight: 149 lb	<b>GRIP</b> 197/144 197/144  D FT = 10%

**BRACING-**

TOP CHORD

**BOT CHORD** 

**WEBS** 

LUMBER-

**WEBS** 

2x6 SPF No.2 TOP CHORD **BOT CHORD** 2x4 SPF 2100F 1.8E

2x3 SPF No.2 \*Except\* 13-14: 2x6 SPF No.2, 2-13,6-8: 2x4 SPF No.2

REACTIONS. (size) 13=0-7-4, 7=0-2-14

Max Horz 13=392(LC 11)

6-11-10

6-9-2

Max Uplift 13=-72(LC 10), 7=-15(LC 11) Max Grav 13=1835(LC 28), 7=1696(LC 28)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

1-13=-426/145, 1-2=-951/879, 2-3=-5895/1880, 3-5=-7292/1684, 5-6=-5130/1045, TOP CHORD 7-8=-287/1479

BOT CHORD 12-13=-2006/5171, 11-12=-2109/7281, 9-11=-1552/7019, 8-9=-1043/4395 **WEBS** 2-13=-5036/1330, 2-12=-56/1064, 3-12=-1581/427, 3-11=-13/423, 5-11=-222/376,

5-9=-2048/492, 6-9=-88/1198, 6-8=-4558/1069

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=80ft; L=40ft; eave=5ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Corner(3) 0-2-12 to 15-2-12, Exterior(2) 15-2-12 to 19-1-4, Corner(3) 19-1-4 to 34-1-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10; Min. flat roof snow load governs.
- 3) 250.0lb AC unit load placed on the top chord, 21-1-8 from left end, supported at two points, 4-5-0 apart.
- 4) Provide adequate drainage to prevent water ponding.
- 5) All plates are MT20 plates unless otherwise indicated
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 8) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 7.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 13, 7.
- 10) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 7.
- 11) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI
- 12) Load case(s) 1, 4, 20, 21, 22, 23, 28 has/have been modified. Building designer must review loads to verify that they are correct for
- 13) Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.

LOAD CASE(S) Standard

PE-2 PE-2 VI Continued on page 2



OF MISSO

ANDREW

**THOMAS** 

**JOANSO** 

NUMBER

PE-2017018993

July 21,2020

\Lambda 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

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ANSITPH Quality Criteria, DSB-89 and BCSI Building Component fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

ANSI/TPI1 Qu
Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

Job	Truss	Truss Type	Qty	Ply	Streets of West Pryor	
B400088	A2B	Monopitch	4	1	I	142113103
D400000	A2D	Worldpiterr	7	· '	Job Reference (optional)	
Wheeler Lumber Wave	erly KS - 66871		8	410 s May	, 22 2020 MiTek Industries Inc. Tue Jul 21 13:44:20 2020 I	Page 2

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#### LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 7-15=-61, 8-13=-20

Concentrated Loads (lb)

Vert: 19=-125 21=-125

Trapezoidal Loads (plf)

Vert: 1=-121-to-15=-61

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 7-15=-53, 8-13=-20

Concentrated Loads (lb)

Vert: 19=-125 21=-125

Trapezoidal Loads (plf)

Vert: 1=-98-to-15=-53 20) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 7-15=-54, 8-13=-20

Horz: 1-13=21, 1-14=38, 1-7=1, 7-8=6

Concentrated Loads (lb)

Vert: 19=-125 21=-125

Trapezoidal Loads (plf)

Vert: 1=-99-to-15=-54

21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 7-15=-54, 8-13=-20

Horz: 1-13=-6, 1-14=-38, 1-7=1, 7-8=-21

Concentrated Loads (lb)

Vert: 19=-125 21=-125

Trapezoidal Loads (plf)

Vert: 1=-99-to-15=-54

22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 7-15=-54, 8-13=-20

Horz: 1-13=-10, 1-14=-25, 1-7=1, 7-8=10

Concentrated Loads (lb)

Vert: 19=-125 21=-125

Trapezoidal Loads (plf)

Vert: 1=-99-to-15=-54

23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 7-15=-54, 8-13=-20

Horz: 1-13=-10, 1-14=-25, 1-7=1, 7-8=10

Concentrated Loads (lb)

Vert: 19=-125 21=-125

Trapezoidal Loads (plf)

Vert: 1=-99-to-15=-54

28) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 7-15=-70, 8-13=-20

Concentrated Loads (lb)

Vert: 19=-125 21=-125

Trapezoidal Loads (plf)

Vert: 1=-130-to-15=-70



Job Truss Truss Type Qty Streets of West Pryor 142113104 B400088 АЗ Monopitch Job Reference (optional) Wheeler Lumber, Waverly, KS - 66871, 8.410 s May 22 2020 MiTek Industries, Inc. Tue Jul 21 13:44:21 2020 Page 1 ID:yyQ78agb1ZluwnWc1etTPnz53bT-8BsV\_bOfD5DHxYcplpzQbGie0pEmjUd175uEoXyvqBu

30-6-14

Scale = 1:68.8

38-7-14 0-3-6

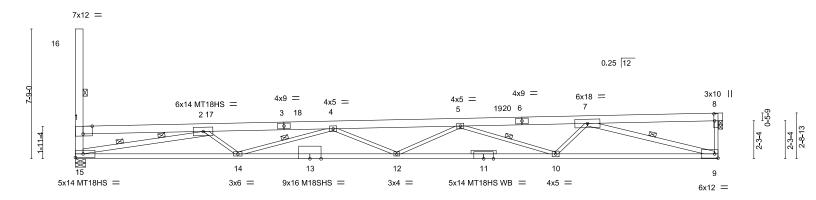
7-9-10

Structural wood sheathing directly applied or 2-5-6 oc purlins,

except end verticals. Except:

6-0-0 oc bracing: 1-15

7-5-0 oc bracing: 1-16



9-8 9-8		9-2-4 -5-14	28-8-2 9-5-14	-	38-4-8 38-4 9-8-6 0-0	
Plate Offsets (X,Y) [1:0-6-10	,Edge], [8:0-5-0,0-0-8]					
LOADING (psf)       TCLL (roof)     20.0       Snow (Pf/Pg)     15.4/20.0       TCDL     15.0       BCLL     0.0 *       BCDL     10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr NO Code IBC2018/TPI2014	CSI. TC 0.91 BC 0.97 WB 0.95 Matrix-S	DEFL.         in (loc)           Vert(LL)         -0.84 12-14           Vert(CT)         -1.87 12-14           Horz(CT)         0.03 8           Wind(LL)         0.79 12-14	I/defl L/d >541 360 >244 240 n/a n/a >580 240	PLATES MT20 M18SHS MT18HS Weight: 166 lb	<b>GRIP</b> 197/144 197/144 197/144 FT = 10%

TOP CHORD

LUMBER-**BRACING-**

7-7-2

2x6 SPF 1650F 1.4E TOP CHORD BOT CHORD 2x4 SPF 2400F 2.0E

**WEBS** 2x3 SPF No.2 \*Except\*

7-9-10

15-16: 2x6 SPF No.2, 2-15,7-9: 2x4 SPF 2100F 1.8E

**OTHERS** 2x3 SPF No.2

**BOT CHORD** Rigid ceiling directly applied or 4-6-15 oc bracing. **WEBS** 1 Row at midpt 1-16, 4-14, 5-10, 7-9 2 Rows at 1/3 pts 2-15

REACTIONS. (size) 15=0-7-4, 8=0-2-14

Max Horz 15=396(LC 11)

Max Uplift 15=-166(LC 10), 8=-168(LC 11) Max Grav 15=1929(LC 28), 8=1728(LC 28)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 1-15=-458/151, 1-2=-1031/931, 2-4=-7087/2614, 4-5=-8345/2792, 5-7=-5777/1835,

8-9=-439/1484

**BOT CHORD** 14-15=-2649/6283, 12-14=-3157/8520, 10-12=-2768/7826, 9-10=-1726/4960 **WEBS** 2-15=-6064/1962, 2-14=-174/1115, 4-14=-1617/758, 4-12=-204/342, 5-12=-94/661,

5-10=-2182/936, 7-10=-245/1239, 7-9=-5089/1767

# NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=80ft; L=40ft; eave=5ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Corner(3) 0-2-12 to 15-2-12, Exterior(2) 15-2-12 to 23-3-4, Corner(3) 23-3-4 to 38-3-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10; Min. flat roof snow load governs.
- 3) Provide adequate drainage to prevent water ponding.
- 4) All plates are MT20 plates unless otherwise indicated.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 8.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 15=166, 8=168
- 9) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 8.
- 10) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI
- 11) Load case(s) 1, 4, 20, 21, 22, 23, 28 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- 12) Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.

#### Continued on page 2 LOAD CASE(S) Star

# 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 besign value for use only with reactions. This cessign is based only upon parameters shown, and is for an intrividual outlaining Component, not a for 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







16023 Swingley Ridge Rd Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Streets of West Pryor	
					I421	113104
B400088	A3	Monopitch	6	1		
					Job Reference (optional)	
Wheeler Lumber, Wave	erly, KS - 66871,		8	.410 s May	22 2020 MiTek Industries, Inc. Tue Jul 21 13:44:21 2020 Page	e 2

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#### LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 8-17=-61, 9-15=-20

Trapezoidal Loads (plf)

Vert: 1=-121-to-17=-61

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 8-17=-53, 9-15=-20

Trapezoidal Loads (plf)

Vert: 1=-98-to-17=-53

20) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 8-17=-54, 9-15=-20

Horz: 1-15=21, 1-16=38, 1-8=1, 8-9=6

Trapezoidal Loads (plf)

Vert: 1=-99-to-17=-54

21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 8-17=-54, 9-15=-20

Horz: 1-15=-6, 1-16=-38, 1-8=1, 8-9=-21

Trapezoidal Loads (plf)

Vert: 1=-99-to-17=-54

22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 8-17=-54, 9-15=-20

Horz: 1-15=-10, 1-16=-25, 1-8=1, 8-9=10

Trapezoidal Loads (plf)

Vert: 1=-99-to-17=-54

23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 8-17=-54, 9-15=-20

Horz: 1-15=-10, 1-16=-25, 1-8=1, 8-9=10

Trapezoidal Loads (plf)

Vert: 1=-99-to-17=-54

28) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 8-17=-70, 9-15=-20

Trapezoidal Loads (plf)

Vert: 1=-130-to-17=-70



Job Truss Truss Type Qty Streets of West Prvor 142113105 B400088 A3A Monopitch Job Reference (optional) Wheeler Lumber, Waverly, KS - 66871, 8.410 s May 22 2020 MiTek Industries, Inc. Tue Jul 21 13:44:23 2020 Page 1 ID:yyQ78agb1ZluwnWc1etTPnz53bT-4Z FPGPvliT AslCsD0ughn AczPBOPKbPNLsQyvqBs 15-4-11 7-7-2 38-7-14 0-3-6 30-6-14 38-4-8

7-7-2

Scale = 1:70.6

7-9-10

Structural wood sheathing directly applied or 2-0-7 oc purlins,

1-16, 4-14, 5-10

2-15, 7-9

Rigid ceiling directly applied or 5-8-3 oc bracing.

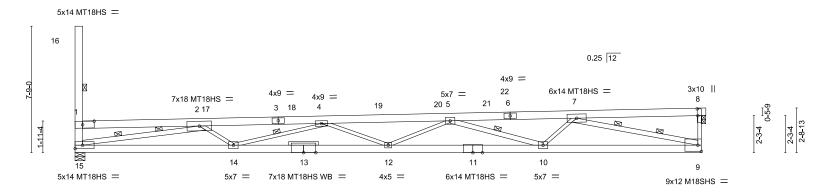
except end verticals. Except:

6-0-0 oc bracing: 1-15

7-5-0 oc bracing: 1-16

1 Row at midpt

2 Rows at 1/3 pts



9-8-6 9-8-6	19-2 9-5-		28-8-2 9-5-14	<del>38-4-8</del> 9-8-6	38-4-14 0-0-6
Plate Offsets (X,Y) [1:0-8-9,0-2-8], [8:0-5-0,0-0-	8]				
COADING (psf)	_ 1.15	CSI. TC 0.93 BC 0.83 WB 0.93 Matrix-S	DEFL. in (loc) Vert(LL) -0.69 12-14 Vert(CT) -1.67 12-14 Horz(CT) -0.01 8 Wind(LL) 0.63 12-14	I/defl L/d >666 360 >274 240 n/a n/a >719 240	PLATES GRIP MT20 197/144 M18SHS 197/144 MT18HS 197/144 Weight: 228 lb FT = 10%

**BOT CHORD** 

WEBS

LUMBER-**BRACING-**

2x6 SP DSS \*Except\* TOP CHORD TOP CHORD

1-3: 2x6 SPF 1650F 1.4E

**BOT CHORD** 2x6 SP DSS

2x3 SPF No.2 \*Except\* **WEBS** 

15-16: 2x6 SPF No.2, 2-15,7-9: 2x4 SPF 2100F 1.8E

5-10: 2x4 SPF No.2

7-9-10

**OTHERS** 2x3 SPF No 2

REACTIONS. 15=0-7-4, 8=0-2-14 (size)

Max Horz 15=393(LC 11)

Max Uplift 15=-47(LC 10), 8=-35(LC 11) Max Grav 15=2046(LC 28), 8=1860(LC 28)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 1-15=-470/145, 1-2=-1148/985, 2-4=-7960/2037, 4-5=-9683/1853, 5-7=-6543/1267,

8-9=-312/1614

**BOT CHORD** 14-15=-2230/7001, 12-14=-2258/9795, 10-12=-1800/9193, 9-10=-1290/5461 **WEBS** 

2-15=-6648/1506, 2-14=0/1302, 4-14=-2040/412, 4-12=-139/381, 5-12=-121/636,

5-10=-2810/511, 7-10=-39/1540, 7-9=-5605/1308

## NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=80ft; L=40ft; eave=5ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Corner(3) 0-2-12 to 15-2-12, Exterior(2) 15-2-12 to 23-3-4, Corner(3) 23-3-4 to 38-3-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10; Min. flat roof snow load governs.
- 3) 250.0lb AC unit load placed on the top chord, 20-5-0 from left end, supported at two points, 3-8-0 apart.
- 4) Provide adequate drainage to prevent water ponding.
- 5) All plates are MT20 plates unless otherwise indicated.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 8) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 8.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 15, 8.
- 10) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 8
- 11) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI
- 12) Load case(s) 1, 4, 20, 21, 22, 23, 28 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

Oantinae chetweagei@side of top chord bearing and first diagonal or vertical web shall not exceed 0.500in



OF MISSO

ANDREW

**THOMAS** 

**JOHNSON** 

NUMBER

PE-2017018993

🗥 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

Job	Truss	Truss Type	Otv	Plv	Streets of West Prvor	
000	11435	Trade Type	G.G	' ',	,	2113105
B400088	A3A	Monopitch	4	1	· · ·	2110100
D400000	AJA	IMOTOPILOT	-	'	lah Deference (entional)	
					Job Reference (optional)	
Wheeler Lumber. Wa	verly, KS - 66871.			.410 s May	v 22 2020 MiTek Industries, Inc. Tue Jul 21 13:44:23 2020 Pa	age 2

ID:yyQ78agb1ZluwnWc1etTPnz53bT-4Z FPGPvliT AslCsD0ughn AczPBOPKbPNLsQyvqBs

## LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 8-17=-61, 9-15=-20

Concentrated Loads (lb)

Vert: 19=-125 20=-125

Trapezoidal Loads (plf)

Vert: 1=-121-to-17=-61

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 8-17=-53, 9-15=-20

Concentrated Loads (lb)

Vert: 19=-125 20=-125 Vert: 1=-98-to-17=-53

Trapezoidal Loads (plf)

20) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 8-17=-54, 9-15=-20

Horz: 1-15=21, 1-16=38, 1-8=1, 8-9=6

Concentrated Loads (lb)

Vert: 19=-125 20=-125

Trapezoidal Loads (plf)

Vert: 1=-99-to-17=-54

21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 8-17=-54, 9-15=-20

Horz: 1-15=-6, 1-16=-38, 1-8=1, 8-9=-21

Concentrated Loads (lb)

Vert: 19=-125 20=-125

Trapezoidal Loads (plf)

Vert: 1=-99-to-17=-54 22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 8-17=-54, 9-15=-20

Horz: 1-15=-10, 1-16=-25, 1-8=1, 8-9=10

Concentrated Loads (lb)

Vert: 19=-125 20=-125

Trapezoidal Loads (plf)

Vert: 1=-99-to-17=-54

23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 8-17=-54, 9-15=-20

Horz: 1-15=-10, 1-16=-25, 1-8=1, 8-9=10

Concentrated Loads (lb)

Vert: 19=-125 20=-125

Trapezoidal Loads (plf)

Vert: 1=-99-to-17=-54

28) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 8-17=-70, 9-15=-20

Concentrated Loads (lb)

Vert: 19=-125 20=-125

Trapezoidal Loads (plf)

Vert: 1=-130-to-17=-70

Job Truss Truss Type Qty Ply Streets of West Pryor 142113106 B400088 A4 Monopitch Supported Gable Job Reference (optional)

Waverly, KS - 66871, Wheeler Lumber.

8.410 s May 22 2020 MiTek Industries, Inc. Tue Jul 21 13:44:29 2020 Page 1 ID:yyQ78agb1ZluwnWc1etTPnz53bT-vjLWfKUgKYD8vnDLDU6lwy14Z12sb6ZCzLqq43yvqBm

38-4-8

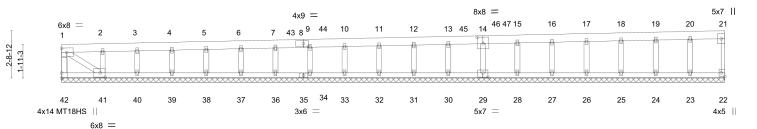
Scale = 1:66.7



Structural wood sheathing directly applied or 5-9-4 oc purlins,

Rigid ceiling directly applied or 4-8-9 oc bracing.

except end verticals.



38-4-8 [8:0-3-9,0-2-0], [14:0-4-0,0-4-8], [21:0-0-0,0-0-0], [22:Edge,0-2-8], [29:0-3-8,0-3-0], [41:0-3-8,0-3-0] Plate Offsets (X,Y)--LOADING (psf) SPACING-CSI. **PLATES** in (loc) I/defl L/d **GRIP** 20.0 TCLL (roof) Plate Grip DOL 1.15 TC 0.61 Vert(LL) 999 MT20 197/144 n/a n/a Snow (Pf/Pg) 15.4/20.0 Lumber DOL 1.15 ВС 0.69 Vert(CT) n/a n/a 999 MT18HS 197/144 **TCDL** 15.0 Rep Stress Incr YES WB 0.96 Horz(CT) -0.10 22 n/a n/a BCLL 0.0 Code IBC2018/TPI2014 FT = 10% Weight: 301 lb Matrix-S BCDL 10.0

TOP CHORD

**BOT CHORD** 

LUMBER-**BRACING-**

TOP CHORD 2x6 SPF No.2 **BOT CHORD** 2x4 SPF No.2 **WEBS** 

2x4 SPF No.2 \*Except\* 21-22: 2x3 SPF No 2

**OTHERS** 2x4 SPF No.2

REACTIONS. All bearings 38-4-8.

Max Horz 42=91(LC 38) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 36, 37, 38, 39, 40

except 42=-5365(LC 36), 22=-291(LC 39), 23=-367(LC 38), 41=-5215(LC 39)

All reactions 250 lb or less at joint(s) 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 36, 37, 38, 39, Max Grav

40 except 42=5422(LC 43), 22=323(LC 42), 23=457(LC 49), 41=5325(LC 40)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 1-42=-5348/5323, 1-2=-7490/7457, 2-3=-7032/7012, 3-4=-6647/6623, 4-5=-6245/6222,

5-6=-5842/5822, 6-7=-5440/5421, 7-9=-5038/5020, 9-10=-4636/4620, 10-11=-4233/4219,

11-12=-3831/3819, 12-13=-3429/3418, 13-14=-3027/3017, 14-15=-2624/2616, 15-16=-2225/2217, 16-17=-1825/1818, 17-18=-1425/1418, 18-19=-1025/1019,

19-20=-624/619

BOT CHORD 41-42=-413/391, 40-41=-7021/7019, 39-40=-6581/6619, 38-39=-6221/6219,

37-38=-5821/5819, 36-37=-5421/5419, 34-36=-5021/5019, 33-34=-4621/4619,

32-33=-4221/4219, 31-32=-3821/3819, 30-31=-3421/3419, 29-30=-3021/3019.

28-29=-2621/2619, 27-28=-2221/2219, 26-27=-1821/1819, 25-26=-1421/1419,

24-25=-1021/1019, 23-24=-621/619

**WEBS** 20-23=-269/263, 1-41=-8976/9008

## NOTES-

1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:

Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc, 2x6 - 2 rows staggered at 0-9-0 oc, 2x3 - 1 row at 0-9-0 oc. Bottom chords connected as follows: 2x4 - 1 row at 0-7-0 oc.

Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.

2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.

3) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=80ft; L=40ft; eave=2ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Corner(3) 0-1-12 to 15-1-12, Exterior(2) 15-1-12 to 23-3-4, Corner(3) 23-3-4 to 38-3-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

4) Truss designed for wind loads in the plane of the truss 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.

5) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate Cortinated of by age 120; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10; Min. flat roof snow load governs

PE-201.
PE-201.
21, July 21,2020

OF MISSON

ANDREW

**THOMAS** 

**JOHNSON** 

PE-2017018993

\Lambda 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 systems, see

ANSITPH Quality Criteria, DSB-89 and BCSI Building Component fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Qu Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job	Truss	Truss Type	Qty	Ply	Streets of West Pryor	
B400088	A 4	Managitah Companied Cable	_			I42113106
B400088	A4	Monopitch Supported Gable		2	Job Reference (optional)	

Wheeler Lumber,

Waverly, KS - 66871,

8.410 s May 22 2020 MiTek Industries, Inc. Tue Jul 21 13:44:30 2020 Page 2

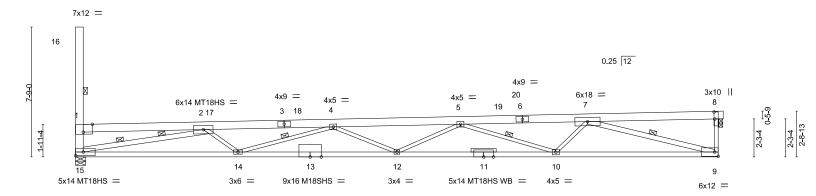
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- 6) Provide adequate drainage to prevent water ponding.
- 7) All plates are MT20 plates unless otherwise indicated.
- 8) All plates are 2x4 MT20 unless otherwise indicated.
- 9) Gable requires continuous bottom chord bearing.
- 10) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 11) Gable studs spaced at 2-0-0 oc.
- 12) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 13) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and
- 14) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 36, 37, 38, 39, 40 except (jt=lb) 42=5365, 22=291, 23=367, 41=5215.
- 15) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- 16) This truss has been designed for a total drag load of 200 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 38-4-8 for 200.0 plf.

Job Truss Truss Type Qty Streets of West Pryor 142113107 B400088 Α5 Monopitch Job Reference (optional) Waverly, KS - 66871, 8.410 s May 22 2020 MiTek Industries, Inc. Tue Jul 21 13:44:33 2020 Page 1 Wheeler Lumber.

ID:yyQ78agb1ZluwnWc1etTPnz53bT-oVb1VhXBOnjaNOW7SKBE4oCh?eKaXwcouzotDryvqBi

38-7-14 7-9-9 15-4-10 7-7-1 22-11-10 7-7-1 38<sub>1</sub>7<sub>1</sub>8 0-3-4 <sup>0-0-6</sup>Scale = 1:68.8



⊢ 9-8- 9-8-		9-2-2 -5-13	28-7-15 9-5-13	38-	
	Edge], [8:0-5-0,0-0-8]				
LOADING (psf) TCLL (roof) 20.0 Snow (Pf/Pg) 15.4/20.0 TCDL 15.0 BCLL 0.0 * BCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr NO Code IBC2018/TPI2014	CSI. TC 0.91 BC 0.96 WB 0.95 Matrix-S	DEFL.         in (loc           Vert(LL)         -0.84 12-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-	4 >541 360 4 >244 240 8 n/a n/a	PLATES         GRIP           MT20         197/144           M18SHS         197/144           MT18HS         197/144           Weight: 166 lb         FT = 10%

LUMBER-**BRACING-**

2x6 SPF 1650F 1.4E TOP CHORD **BOT CHORD** 2x4 SPF 2400F 2.0E

**WEBS** 2x3 SPF No.2 \*Except\*

15-16: 2x6 SPF No.2, 2-15,7-9: 2x4 SPF 2100F 1.8E

**OTHERS** 2x3 SPF No.2

**BOT CHORD WEBS** 

TOP CHORD

7-5-0 oc bracing: 1-16 Rigid ceiling directly applied or 4-7-0 oc bracing. 1 Row at midpt 1-16, 4-14, 5-10, 7-9 2 Rows at 1/3 pts 2-15

except end verticals. Except:

6-0-0 oc bracing: 1-15

Structural wood sheathing directly applied or 2-5-7 oc purlins,

REACTIONS. (size) 15=0-7-4, 8=0-2-14 Max Horz 15=396(LC 11)

Max Uplift 15=-166(LC 10), 8=-168(LC 11) Max Grav 15=1928(LC 28), 8=1727(LC 28)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 1-15=-458/151, 1-2=-1031/931, 2-4=-7080/2613, 4-5=-8337/2791, 5-7=-5772/1834,

8-9=-439/1484

**BOT CHORD** 14-15=-2649/6276, 12-14=-3156/8512, 10-12=-2767/7818, 9-10=-1725/4956 **WEBS** 2-15=-6059/1961, 2-14=-174/1115, 4-14=-1615/758, 4-12=-203/342, 5-12=-94/660,

5-10=-2180/936, 7-10=-245/1238, 7-9=-5084/1766

# NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=80ft; L=40ft; eave=5ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Corner(3) 0-2-12 to 15-2-12, Exterior(2) 15-2-12 to 23-3-0, Corner(3) 23-3-0 to 38-3-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10; Min. flat roof snow load governs.
- 3) Provide adequate drainage to prevent water ponding.
- 4) All plates are MT20 plates unless otherwise indicated.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 8.

9) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 8.

- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 15=166, 8=168
- 10) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI
- 11) Load case(s) 1, 4, 20, 21, 22, 23, 28 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- 12) Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.

#### Continued on page 2 LOAD CASE(S) Sta

# 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 besign value for use only with reactions. This cessign is based only upon parameters shown, and is for an intrividual outlaining Component, not a for 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	Qt	ty	Ply	Streets of West Pryor
						I42113107
B400088	A5	Monopitch	7		1	
						Job Reference (optional)
Wheeler Lumber,	Waverly, KS - 66871,			8.4	410 s May	y 22 2020 MiTek Industries, Inc. Tue Jul 21 13:44:33 2020 Page 2
			ID:yyQ78ag	gb1Zluw	nWc1etTF	Pnz53bT-oVb1VhXBOnjaNOW7SKBE4oCh?eKaXwcouzotDryvqBi

#### LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 8-17=-61, 9-15=-20

Trapezoidal Loads (plf)

Vert: 1=-121-to-17=-61

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 8-17=-53, 9-15=-20

Trapezoidal Loads (plf)

Vert: 1=-98-to-17=-53

20) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 8-17=-54, 9-15=-20

Horz: 1-15=21, 1-16=38, 1-8=1, 8-9=6

Trapezoidal Loads (plf)

Vert: 1=-99-to-17=-54

21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 8-17=-54, 9-15=-20

Horz: 1-15=-6, 1-16=-38, 1-8=1, 8-9=-21

Trapezoidal Loads (plf)

Vert: 1=-99-to-17=-54

22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 8-17=-54, 9-15=-20

Horz: 1-15=-10, 1-16=-25, 1-8=1, 8-9=10

Trapezoidal Loads (plf)

Vert: 1=-99-to-17=-54

23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 8-17=-54, 9-15=-20

Horz: 1-15=-10, 1-16=-25, 1-8=1, 8-9=10

Trapezoidal Loads (plf)

Vert: 1=-99-to-17=-54

28) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 8-17=-70, 9-15=-20

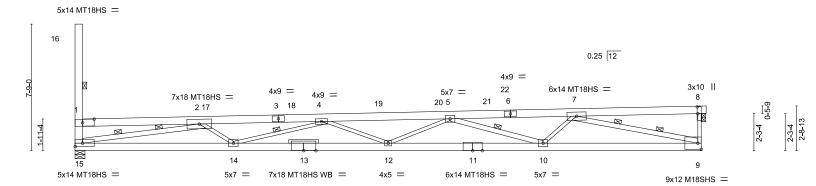
Trapezoidal Loads (plf)

Vert: 1=-130-to-17=-70

Job Truss Truss Type Qty Streets of West Pryor 142113108 B400088 A5A Monopitch Job Reference (optional) Waverly, KS - 66871, 8.410 s May 22 2020 MiTek Industries, Inc. Tue Jul 21 13:44:34 2020 Page 1 Wheeler Lumber.

ID:yyQ78agb1ZluwnWc1etTPnz53bT-Gh8Pi1Yp94rR?Y5J?1iTd0ksO2j GN9x6dYRlHyvqBh 38-7-14 22-11-10 7-7-1 7-9-9

15-4-10 7-7-1 38<sub>1</sub>7<sub>1</sub>8 0-3-4 0-0-6 Scale = 1:70.6



9-8		19-2-2	28-7-15		38-4-4	
	3-5	9-5-13	9-5-13	· · · · · · · · · · · · · · · · · · ·	9-8-5	
Plate Offsets (X,Y) [1:0-8-9,	0-2-8], [8:0-5-0,0-0-8]					
LOADING (psf) TCLL (roof) 20.0 Snow (Pf/Pg) 15.4/20.0 TCDL 15.0 BCLL 0.0 * BCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr NC Code IBC2018/TPI2014	TC 0.93 BC 0.83 WB 0.93	Vert(LL) -0.68 Vert(CT) -1.66 Horz(CT) -0.01	n (loc) l/defl L/d 8 12-14 >667 360 6 12-14 >275 240 1 8 n/a n/a 3 12-14 >720 240	MT20 M18SHS MT18HS	GRIP 197/144 197/144 197/144 Ib FT = 10%

LUMBER-**BRACING-**

TOP CHORD 2x6 SP DSS \*Except\* TOP CHORD Structural wood sheathing directly applied or 2-0-8 oc purlins,

1-3: 2x6 SPF 1650F 1.4E except end verticals. Except: 2x6 SP DSS 6-0-0 oc bracing: 1-15

2x3 SPF No.2 \*Except\* 7-5-0 oc bracing: 1-16

15-16: 2x6 SPF No.2, 2-15,7-9: 2x4 SPF 2100F 1.8E **BOT CHORD** Rigid ceiling directly applied or 5-8-3 oc bracing. **WEBS** 

5-10: 2x4 SPF No.2 1-16, 4-14, 5-10 1 Row at midpt **OTHERS** 2x3 SPF No 2 2 Rows at 1/3 pts 2-15, 7-9

Max Grav 15=2045(LC 28), 8=1860(LC 28)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 1-15=-469/144, 1-2=-1148/985, 2-4=-7951/2037, 4-5=-9673/1853, 5-7=-6537/1266,

8-9=-312/1613

15=0-7-4, 8=0-2-14

Max Uplift 15=-48(LC 10), 8=-35(LC 11)

Max Horz 15=393(LC 11)

(size)

**BOT CHORD** 14-15=-2230/6994, 12-14=-2258/9784, 10-12=-1799/9186, 9-10=-1289/5457

**WEBS** 2-15=-6641/1505, 2-14=0/1300, 4-14=-2037/413, 4-12=-137/382, 5-12=-122/635,

5-10=-2807/510, 7-10=-39/1539, 7-9=-5601/1307

## NOTES-

**BOT CHORD** 

REACTIONS.

**WEBS** 

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=80ft; L=40ft; eave=5ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Corner(3) 0-2-12 to 15-2-12, Exterior(2) 15-2-12 to 23-3-0, Corner(3) 23-3-0 to 38-3-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10; Min. flat roof snow load governs.
- 3) 250.0lb AC unit load placed on the top chord, 20-5-2 from left end, supported at two points, 3-8-4 apart.
- 4) Provide adequate drainage to prevent water ponding.
- 5) All plates are MT20 plates unless otherwise indicated.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 8) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 8.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 15, 8.
- 10) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 8
- 11) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI
- 12) Load case(s) 1, 4, 20, 21, 22, 23, 28 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

Oantinae chetweagei@side of top chord bearing and first diagonal or vertical web shall not exceed 0.500in



July 21,2020



Job	Truss	Truss Type	Qty	Ply	Streets of West Pryor	
	l	L			ļ.	42113108
B400088	A5A	Monopitch	2	1	Job Reference (optional)	
Wheeler Lumber Ways	erly KS - 66871		8	410 s May	, 22 2020 MiTek Industries Inc. Tue Jul 21 13:44:34 2020 F	Page 2

ID:yyQ78agb1ZluwnWc1etTPnz53bT-Gh8Pi1Yp94rR?Y5J?1iTd0ksO2j GN9x6dYRlHyvqBh

## LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 8-17=-61, 9-15=-20

Concentrated Loads (lb)

Vert: 19=-125 20=-125

Trapezoidal Loads (plf)

Vert: 1=-121-to-17=-61

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 8-17=-53, 9-15=-20

Concentrated Loads (lb)

Vert: 19=-125 20=-125

Trapezoidal Loads (plf)

Vert: 1=-98-to-17=-53

20) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 8-17=-54, 9-15=-20

Horz: 1-15=21, 1-16=38, 1-8=1, 8-9=6

Concentrated Loads (lb)

Vert: 19=-125 20=-125

Trapezoidal Loads (plf)

Vert: 1=-99-to-17=-54

21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 8-17=-54, 9-15=-20

Horz: 1-15=-6, 1-16=-38, 1-8=1, 8-9=-21

Concentrated Loads (lb)

Vert: 19=-125 20=-125

Trapezoidal Loads (plf)

Vert: 1=-99-to-17=-54

22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 8-17=-54, 9-15=-20

Horz: 1-15=-10, 1-16=-25, 1-8=1, 8-9=10

Concentrated Loads (lb)

Vert: 19=-125 20=-125

Trapezoidal Loads (plf)

Vert: 1=-99-to-17=-54

23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 8-17=-54, 9-15=-20

Horz: 1-15=-10, 1-16=-25, 1-8=1, 8-9=10

Concentrated Loads (lb)

Vert: 19=-125 20=-125

Trapezoidal Loads (plf)

Vert: 1=-99-to-17=-54

28) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 8-17=-70, 9-15=-20

Concentrated Loads (lb)

Vert: 19=-125 20=-125

Trapezoidal Loads (plf)

Vert: 1=-130-to-17=-70

Job Truss Truss Type Qty Streets of West Prvor 42113109 B400088 A5B Monopitch Job Reference (optional) 8.410 s May 22 2020 MTek Industries, Inc. Tue Jul 21 15:08:38 2020 Page 1 ID:yyQ78agb1ZluwnWc1etTPnz53bT-cfJZ1lW1EJz6UiKQyZbC2BequJDr4cuN\_MOLnwyvoyt Wheeler Lumber, Waverly, KS 66871, Mitek 22-11-10 15-4-10 1 7-9-9 7-7-1 7-7-1 7-7-1 -38-7-14 Scale = 1:78.0 6x14 MT18HS = 6x12 || 16

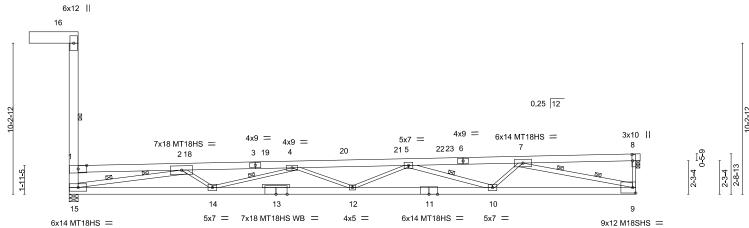


Plate Offsets (X,Y) [8:0-5-0,0	9-8-5 '	9-5-13	9-5-13		9-8-5	ı .	
	J-0-6j		I				
LOADING (psf) TCLL (roof) 20.0 Snow (Pf/Pg) 15.4/20.0 TCDL 15.0 BCLL 0.0 * BCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr NO Code IBC2018/TPI2014	CSI. TC 0.97 BC 0.84 WB 0.93 Matrix-S	Vert(LL) Vert(CT) Horz(CT) Wind(LL)	in (loc) -0.72 12-14 -1.69 12-14 -0.01 8 0.67 12-14	I/defl L/d >636 360 >269 240 n/a n/a >684 240	PLATES MT20 M18SHS MT18HS Weight: 251 lb	<b>GRIP</b> 197/144 197/144 197/144 FT = 10%

**BOT CHORD** 

WEBS

28-7-15

38-4-4

Structural wood sheathing directly applied or 1-11-10 oc purlins,

2-15, 7-9

1-16, 4-14, 5-10

Rigid ceiling directly applied or 5-1-14 oc bracing.

except end verticals. Except:

6-0-0 oc bracing: 1-15

10-0-0 oc bracing: 1-16

1 Row at midpt

2 Rows at 1/3 pts

19-2-2

LUMBER-**BRACING-**

TOP CHORD 2x6 SPF No.2 \*Except\* TOP CHORD

16-17: 2x10 SP DSS, 1-3: 2x6 SPF 1650F 1.4E, 3-6: 2x6 SP DSS

BOT CHORD 2x6 SP DSS

**WEBS** 2x3 SPF No.2 \*Except\*

15-16: 2x8 SP 2400F 2.0E, 2-15,7-9: 2x4 SPF 2100F 1.8E

5-10: 2x4 SPF No.2

**OTHERS** 2x3 SPF No.2

(lb/size) 15=2070/0-7-4, 8=1696/0-3-0 REACTIONS.

Max Horz 15=522(LC 11)

Max Uplift 15=-76(LC 10), 8=-65(LC 11) Max Grav 15=2245(LC 28), 8=1871(LC 28)

9-8-5

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

1-15=-620/163, 1-2=-1903/1730, 2-18=-8148/2516, 3-18=-8148/2517, 3-19=-8141/2517, TOP CHORD

4-19=-8140/2518, 4-20=-9786/2136, 20-21=-9778/2140, 5-21=-9769/2143,

5-22=-6594/1397, 22-23=-6590/1397, 6-23=-6589/1397, 6-7=-6588/1398, 8-9=-341/1629

BOT CHORD 14-15=-2753/7228, 13-14=-2626/9916, 12-13=-2626/9916, 11-12=-2022/9272,

10-11=-2022/9272. 9-10=-1391/5508

WFBS 2-15=-6783/1585, 2-14=-19/1299, 4-14=-2078/473, 4-12=-218/468, 5-12=-197/633,

5-10=-2838/607, 7-10=-82/1547, 7-9=-5649/1409

#### NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=80ft; L=40ft; eave=5ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Corner(3) 0-1-4 to 15-1-4, Exterior(2) 15-1-4 to 23-3-0, Corner(3) 23-3-0 to 38-3-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate
- DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10; Min. flat roof snow load governs.

  3) 250.0lb AC unit load placed on the top chord, 20-5-0 from left end, supported at two points, 3-8-0 apart.
- 4) Provide adequate drainage to prevent water ponding
- 5) All plates are MT20 plates unless otherwise indicated.
- 6) 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 on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 8) All bearings are assumed to be DF No.2 crushing capacity of 625 psi.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 76 lb uplift at joint 15 and 65 lb uplift at joint 8.
- 10) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 8.
- 11) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- 12) Load case(s) 1, 4, 20, 21, 22, 23, 28 has/have been modified. Building designer must review loads to verify that they are correct for



July 21,2020



\Lambda WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

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ANSITPH 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	Streets of West Pryor	
B400088	A5B	Monopitch	6	1		<b>I</b> 42113109
			[	1	Job Reference (optional)	

Wheeler Lumber, Waverly, KS 66871, Mitek

8.410 s May 22 2020 MTek Industries, Inc. Tue Jul 21 15:08:38 2020 Page 2 ID:yyQ78agb1ZluwnWc1etTPnz53bT-cfJZ1lW1EJz6UiKQyZbC2BequJDr4cuN\_MOLnwyvoyt

#### NOTES-

13) Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.

#### LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 8-18=-61, 9-15=-20

Concentrated Loads (lb)

Vert: 20=-125 21=-125

Trapezoidal Loads (plf)

Vert: 1=-178-to-18=-61

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 8-18=-53, 9-15=-20

Concentrated Loads (lb)

Vert: 20=-125 21=-125

Trapezoidal Loads (plf)

Vert: 1=-141-to-18=-53

20) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 8-18=-54, 9-15=-20

Horz: 1-15=21, 1-16=38, 1-8=1, 8-9=6

Concentrated Loads (lb)

Vert: 20=-125 21=-125

Trapezoidal Loads (plf)

Vert: 1=-142-to-18=-54
21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 8-18=-54, 9-15=-20

Horz: 1-15=-6, 1-16=-38, 1-8=1, 8-9=-21

Concentrated Loads (lb)

Vert: 20=-125 21=-125

Trapezoidal Loads (plf)

Vert: 1=-142-to-18=-54

22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 8-18=-54, 9-15=-20

Horz: 1-15=-10, 1-16=-25, 1-8=1, 8-9=10

Concentrated Loads (lb)

Vert: 20=-125 21=-125

Trapezoidal Loads (plf)

Vert: 1=-142-to-18=-54

23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 8-18=-54, 9-15=-20

Horz: 1-15=-10, 1-16=-25, 1-8=1, 8-9=10

Concentrated Loads (lb)

Vert: 20=-125 21=-125

Trapezoidal Loads (plf)

Vert: 1=-142-to-18=-54

28) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 8-18=-70, 9-15=-20 Concentrated Loads (lb)

Vert: 20=-125 21=-125

Trapezoidal Loads (plf)

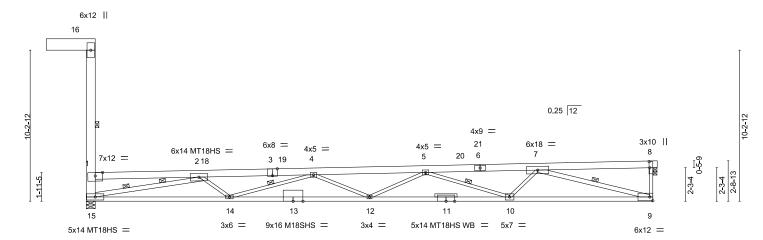
Vert: 1=-187-to-18=-70

Job Truss Truss Type Qty Streets of West Prvor 42113110 B400088 A5C Monopitch Job Reference (optional)

Wheeler Lumber, Waverly, KS 66871, Mitek

8.410 s May 22 2020 MiTek Industries, Inc. Tue Jul 21 15:08:53 2020 Page 1 ID:yyQ78agb1ZluwnWc1etTPnz53bT-gYjEBthRiwszo?zIKDMj9MmPyMl85O8aRCXepYyvoye

22-11-10 38-4-4 7-9-9 38-7-14 7-9-9 7-7-1 7-7-1 -38-7-14 Scale = 1:78.0



		9-8-5	1	19-2-2	28-7-15			38-4-4		
		9-8-5	1	9-5-13	9-5-13	1		9-8-5		
Plate Offsets (X,Y)	[3:0-4-0,E	Edge], [8:0-5-0,0-0-8]								
Snow (Pf/Pg) 15.4/20 TCDL 15 BCLL	0.0 0.0 5.0 0.0 *	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr Code IBC2018/TP	2-0-0 1.15 1.15 NO 12014	CSI. TC 0.91 BC 0.98 WB 0.96 Matrix-S	\ ,	in (loc) -0.88 12-14 -1.89 12-14 0.03 8 0.82 12-14	I/defl >520 >241 n/a >554	L/d 360 240 n/a 240	PLATES MT20 M18SHS MT18HS Weight: 196 lb	<b>GRIP</b> 197/144 197/144 197/144 FT = 10%

LUMBER-**BRACING-**

TOP CHORD 2x6 SPF 1650F 1.4E \*Except\* TOP CHORD Structural wood sheathing directly applied or 2-4-14 oc purlins, 6-8: 2x6 SPF No.2, 16-17: 2x10 SP DSS

except end verticals. Except: 2x4 SPF 2400F 2.0E 6-0-0 oc bracing: 1-15

**BOT CHORD WEBS** 2x3 SPF No.2 \*Except 10-0-0 oc bracing: 1-16

15-16: 2x8 SP 2400F 2.0E, 2-15,7-9: 2x4 SPF 2100F 1.8E Rigid ceiling directly applied or 4-3-15 oc bracing. **BOT CHORD** OTHERS 1 Row at midpt 1-16, 4-14, 5-10, 7-9 2x3 SPF No.2 WEBS

2 Rows at 1/3 pts 2-15 REACTIONS. (lb/size) 15=1964/0-7-4, 8=1564/0-3-0

Max Grav 15=2138(LC 28), 8=1739(LC 28)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 1-15=-618/171, 1-2=-1763/1663, 2-18=-7291/3070, 3-18=-7291/3071, 3-19=-7284/3071

4-19=-7283/3072, 4-5=-8451/3069, 5-20=-5825/1960, 20-21=-5821/1960, 6-21=-5820/1960,

6-7=-5820/1961, 8-9=-468/1495

Max Uplift 15=-195(LC 10), 8=-198(LC 11)

**BOT CHORD** 14-15=-3149/6519, 13-14=-3505/8649, 12-13=-3505/8649, 11-12=-2980/7910,

10-11=-2980/7910 9-10=-1825/4997

Max Horz 15=525(LC 11)

WFBS 2-15=-6222/2036, 2-14=-206/1117, 4-14=-1661/820, 4-12=-281/421, 5-12=-168/655,

5-10=-2221/1027, 7-10=-286/1255, 7-9=-5127/1870

#### NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=80ft; L=40ft; eave=5ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Corner(3) 0-3-10 to 15-3-10, Exterior(2) 15-3-10 to 23-3-0, Corner(3) 23-3-0 to 38-3-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10; Min. flat roof snow load governs.
- 3) Provide adequate drainage to prevent water ponding.
- 4) All plates are MT20 plates unless otherwise indicated.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) All bearings are assumed to be DF No.2 crushing capacity of 625 psi.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 195 lb uplift at joint 15 and 198 lb uplift at
- 9) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 8.
- 10) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- 11) Load case(s) 1, 4, 20, 21, 22, 23, 28 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- 12) Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.



July 21,2020

LOAD CASTIGE VSIGNED PARAMETERS and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

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ANSITPH 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	Streets of West Pryor	
B400088	A5C	Monopitch	3	1	Job Reference (optional)	I42113110
Wheeler Lumber, Wave	erly, KS 66871, Mitek		ID:yyQ78agb <sup>-</sup>	1ZluwnWc1	8.410 s May 22 2020 MiTek Industries, Inc. Tue Jul 21 15:08:53 202 1etTPnz53bT-gYjEBthRiwszo?zIKDMj9MmPyMI85O8aRCXep	
LOAD CASE(S)	Standard					
1) Dead + Snow (b	alanced): Lumber Increase	e=1.15, Plate Increase=1.15				
Uniform Loads (	' '					
	18=-61, 9-15=-20					
Trapezoidal Loa	VI /					
	181-to-18=-61					
4) Dead + 0.75 Sn Uniform Loads (		rease=1.15, Plate Increase=1.15				

Vert: 8-18=-53, 9-15=-20 Trapezoidal Loads (plf) Vert: 1=-143-to-18=-53 20) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert: 8-18=-54, 9-15=-20 Horz: 1-15=21, 1-16=38, 1-8=1, 8-9=6 Trapezoidal Loads (plf) Vert: 1=-144-to-18=-54 21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert: 8-18=-54, 9-15=-20 Horz: 1-15=-6, 1-16=-38, 1-8=1, 8-9=-21 Trapezoidal Loads (plf) Vert: 1=-144-to-18=-54 22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert: 8-18=-54, 9-15=-20 Horz: 1-15=-10, 1-16=-25, 1-8=1, 8-9=10 Trapezoidal Loads (plf) Vert: 1=-144-to-18=-54 23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert: 8-18=-54, 9-15=-20 Horz: 1-15=-10, 1-16=-25, 1-8=1, 8-9=10 Trapezoidal Loads (plf) Vert: 1=-144-to-18=-54 28) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf) Vert: 8-18=-70, 9-15=-20 Trapezoidal Loads (plf) Vert: 1=-190-to-18=-70



10-39=-14092/17119

WEBS 2-17=-24001/20468, 2-16=-6610/7679, 3-16=-7541/6167, 3-14=-3162/3800,

5-14=-3420/3514, 5-13=-3539/3162, 7-13=-5266/6158, 7-11=-10235/8632,

8-11=-5584/6743, 8-10=-17799/14642

#### NOTES-

1) 3-ply truss to be connected together with 10d (0.131"x3") nails as follows: Top chords connected as follows: 2x6 - 2 rows staggered at 0-7-0 oc, 2x3 - 1 row at 0-9-0 oc. Bottom chords connected as follows: 2x8 - 2 rows staggered at 0-9-0 oc.

Webs connected as follows: 2x4 - 1 row at 0-9-0 oc, 2x3 - 1 row at 0-9-0 oc.

- 2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- 3) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=80ft; L=40ft; eave=5ft; Cat. II; Exp C; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 4) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10; Min. flat roof snow load governs.

5) Provide adequate drainage to prevent water ponding.



PL SSIONAL

16023 Swingley Ridge Rd Chesterfield, MO 63017

OF MISSO

ANDREW

**THOMAS** 

OHNSON

NUMBER

PE-2017018993

July 21,2020

🛕 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 systems, see

ANSITPH Quality Criteria, DSB-89 and BCSI Building Component fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Qu Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

ob	Truss	Truss Type	Qty	Ply	Streets of West Pryor
400088	A6	MONOPITCH GIRDER	1		I421131 <sup>-</sup>
				3	
Wheeler Lumber, Waverly	y, KS 66871, Mitek		ID:vvQ78agb	1ZluwnWc1e	8.410 s May 22 2020 MiTek Industries, Inc. Tue Jul 21 15:09:07 2020 Page 2 etTPnz53bT-GEZX7gsDPEd T92 99c0jJLr0?AzNmlefNwNJkyvoyQ
IOTES-			ib.yy ar ougs	1214111111111	otti ilzoobi
) This truss has bee	en designed for a 10.0 psf	bottom chord live load nonconcurrent with an	y other live loads.		
) * This truss has be	een designed for a live loa	ad of 20.0psf on the bottom chord in all areas	where a rectangle 3	-6-0 tall by	2-0-0 wide will fit between the bottom chord and any
other members.					
		ushing capacity of 625 psi.			
		) of truss to bearing plate capable of withstand		joint 17 an	nd 5399 lb uplift at joint 9.
		full bearing surface with truss chord at joint(s)			
		the 2018 International Building Code section 2			
, , , ,	4, 14, 16, 17, 18, 19, 24, 3	35, 36, 37, 38 has/have been modified. Buildir	ig designer must rev	view loads t	to verify that they are correct for the intended use of
this truss.	dala afficial conditions	and for Adiana and an analysis along to also the second			
		and first diagonal or vertical web shall not exce		daa and 0	194 lb at 4 2 4 950 lb days and 999 lb at
					124 lb up at  1-3-4, 859 lb down and 823 lb up at 1357 lb down and 822 lb up at  11-3-4, 857 lb down and
					Ib up at 19-3-4, 493 lb down and 455 lb up at
					3-4, 492 lb down and 453 lb up at 29-3-4, 492 lb
,		•		•	90 lb down and 452 lb up at 37-3-4 on bottom chord.
		levice(s) is the responsibility of others.	1110 402 1b up at 00	0 +, and +c	oo ib down and 402 ib up at or o 4 on bottom onord.
		,			
DAD CASE(S) Sta	andard				
Dead + Snow (ba	lanced): Lumber Increase	=1.15, Plate Increase=1.15			
Uniform Loads (pl	f)				
	0=-61, 10-17=-20				
Concentrated Loa	\ <i>\</i>				
			=-190(B) 28=-190(B	i) 29=-190(I	B) 30=-197(B) 31=-169(B) 32=-169(B) 33=-169(B)
,	, , , ,	) 37=-169(B) 38=-169(B) 39=-169(B)			
Trapezoidal Load					
	181-to-20=-61				
Uniform Loads (pl	'	rease=1.15, Plate Increase=1.15			
	)=-53, 10-17=-20				
Concentrated Loa	· · · · · · · · · · · · · · · · · · ·				
		158(B) 24=-158(B) 25=-158(B) 26=-160(B) 27	=-158(B) 28=-158(B	) 29=-158(	B) 30=-164(B) 31=-143(B) 32=-143(B) 33=-143(B)
	· , · , · ,	) 37=-143(B) 38=-143(B) 39=-144(B)	100(2) 20 100(2	, 20 .00(.	2) 66 16 1(2) 61 116(2) 62 116(2) 66 116(2)
Trapezoidal Load		, (-, (-, (-,			
	143-to-20=-53				
) Dead + Snow or	Overhangs: Lumber Incr	ease=0.90, Plate Increase=0.90 Plt. metal=0.9	90		
Uniform Loads (	plf)				
	20=-30, 10-17=-20				
Concentrated Lo					
			7=-190(B) 28=-190(	B) 29=-190	0(B) 30=-197(B) 31=-169(B) 32=-169(B) 33=-169(B)
	` ' ' ' ' '	B) 37=-169(B) 38=-169(B) 39=-169(B)			
Trapezoidal Loa	\(\frac{1}{2}\)				
	-150-to-20=-30	DC Wind (Nog Int) Loft): Lumber In	O Dieto Ingress	1.60	
Uniform Loads (		RS Wind (Neg. Int) Left): Lumber Increase=1.6	ou, mate increase=	00.1	
V.	ріт) 20=-54. 10-17=-20				
	2054, 10-1720 .17=21 1_18=38 1_0=1 0	10-6			

Horz: 1-17=21, 1-18=38, 1-9=1, 9-10=6

Concentrated Loads (lb)

Vert: 14=539(B) 22=540(B) 23=540(B) 23=540(B) 25=540(B) 25=540(B) 26=538(B) 27=539(B) 28=539(B) 29=538(B) 30=521(B) 31=278(B) 32=277(B) 33=277(B) 34=277(B) 35=276(B) 36=276(B) 37=276(B) 38=276(B) 39=275(B)

Trapezoidal Loads (plf)

Vert: 1=-144-to-20=-54

 $17) \ \ Dead + 0.75 \ Snow (bal.) + 0.75(0.6 \ MWFRS \ Wind (Neg. Int) \ Right): Lumber \ Increase = 1.60, \ Plate \ Increase =$ 

Uniform Loads (plf)

Vert: 9-20=-54, 10-17=-20

Horz: 1-17=-6, 1-18=-38, 1-9=1, 9-10=-21

Concentrated Loads (lb)

Vert: 14=539(B) 22=540(B) 23=540(B) 24=540(B) 25=540(B) 26=538(B) 27=539(B) 28=539(B) 29=538(B) 30=521(B)

31=278(B) 32=277(B) 33=277(B) 34=277(B) 35=276(B) 36=276(B) 37=276(B) 38=276(B) 39=275(B)

Trapezoidal Loads (plf)

Vert: 1=-144-to-20=-54

18) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 9-20=-54, 10-17=-20

Horz: 1-17=-10, 1-18=-25, 1-9=1, 9-10=10

Concentrated Loads (lb)

Vert: 14=539(B) 22=540(B) 23=540(B) 24=540(B) 25=540(B) 26=538(B) 27=539(B) 28=539(B) 29=538(B) 30=521(B)

31=278(B) 32=277(B) 33=277(B) 34=277(B) 35=276(B) 36=276(B) 37=276(B) 38=276(B) 39=275(B)

Trapezoidal Loads (plf)

Vert: 1=-144-to-20=-54

19) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 9-20=-54, 10-17=-20

Horz: 1-17=-10, 1-18=-25, 1-9=1, 9-10=10

Concentrated Loads (lb)

Vert. 14=539(B) 22=540(B) 23=540(B) 24=540(B) 25=540(B) 26=538(B) 27=539(B) 28=539(B) 29=538(B) 30=521(B)

31=278(B) 32=277(B) 33=277(B) 34=277(B) 35=276(B) 36=276(B) 37=276(B) 38=276(B) 39=275(B)

Trapezoidal Loads (plf)

Vert: 1=-144-to-20=-54

#### Continued on page 3

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Job	Truss	Truss Type	Qty	Ply	Streets of West Pryor
D400000	46	MONORITON CIPPER			I4211311
B400088	A6	MONOPITCH GIRDER	1	3	Job Reference (optional)
Wheeler Lumber, W	averly, KS 66871, Mitek		ID::u/O79agb1	7	8.410 s May 22 2020 MiTek Industries, Inc. Tue Jul 21 15:09:07 2020 Page 3 etTPnz53bT-GEZX7gsDPEd T92 99c0jJLr0?AzNmlefNwNJkyvoyQ
			ID.yyQ70agb1	Ziuwiivvcie	ettr 1233b1-GLZX1gSDF Ed_192_99c0j3El0 :AzivillielivwivskyvoyQ
LOAD CASE(S)	Standard				
24) Dead + Mini	mum Snow: Lumber Increase	=1.15, Plate Increase=1.15			
Uniform Loa	ds (plf)				
Ver	t: 9-20=-70, 10-17=-20				
Concentrate	d Loads (lb)				
Ver	t: 14=-190(B) 22=-190(B) 23=	=-190(B) 24=-190(B) 25=-190(B) 26=-193(B) 2	27=-190(B) 28=-190(I	B) 29=-190	0(B) 30=-197(B) 31=-169(B) 32=-169(B) 33=-169(B)
34=	-169(B) 35=-169(B) 36=-169	(B) 37=-169(B) 38=-169(B) 39=-169(B)			
Trapezoidal	· · · · · · · · · · · · · · · · · · ·				
	t: 1=-190-to-20=-70				
		5(0.6 MWFRS Wind (Neg. Int) Left): Lumber Ir	ncrease=1.60, Plate I	ncrease=1.	.60
Uniform Loa	\(\frac{1}{2}\)				
	t: 9-20=-54, 10-17=-20				
	z: 1-17=21, 1-18=38, 1-9=1,	9-10=6			
Concentrate	` ,				
	` ,		27=-725(B) 28=-724(I	B) 29=-724	4(B) 30=-714(B) 31=-439(B) 32=-439(B) 33=-438(B)
	( )	(B) 37=-437(B) 38=-437(B) 39=-437(B)			
Trapezoidal	\(\frac{1}{2}\)				
	t: 1=-144-to-20=-54				
,	` ,	5(0.6 MWFRS Wind (Neg. Int) Right): Lumber	Increase=1.60, Plate	Increase=	1.60
Uniform Loa	. ,				
	t: 9-20=-54, 10-17=-20				
	z: 1-17=-6, 1-18=-38, 1-9=1,	9-10=-21			
Concentrate	d Loads (lb)				

Trapezoidal Loads (plf)
Vert: 1=-144-to-20=-54

37) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 9-20=-54, 10-17=-20

Horz: 1-17=-10, 1-18=-25, 1-9=1, 9-10=10

34=-438(B) 35=-438(B) 36=-437(B) 37=-437(B) 38=-437(B) 39=-437(B)

Concentrated Loads (lb)

Vert: 14=-724(B) 22=-726(B) 23=-726(B) 24=-725(B) 25=-725(B) 26=-727(B) 27=-725(B) 28=-724(B) 29=-724(B) 30=-714(B) 31=-439(B) 32=-439(B) 33=-438(B) 34=-438(B) 35=-438(B) 36=-437(B) 37=-437(B) 38=-437(B) 39=-437(B)

Vert: 14=-724(B) 22=-726(B) 23=-726(B) 24=-725(B) 25=-725(B) 26=-727(B) 27=-725(B) 28=-724(B) 30=-714(B) 31=-439(B) 32=-439(B) 33=-438(B)

Trapezoidal Loads (plf)

Vert: 1=-144-to-20=-54

38) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 9-20=-54, 10-17=-20

Horz: 1-17=-10, 1-18=-25, 1-9=1, 9-10=10

Concentrated Loads (lb)

Vert: 14=-724(B) 22=-726(B) 23=-726(B) 24=-725(B) 25=-725(B) 26=-727(B) 27=-725(B) 28=-724(B) 29=-724(B) 30=-714(B) 31=-439(B) 32=-439(B) 33=-438(B) 34=-438(B) 35=-438(B) 36=-437(B) 37=-437(B) 38=-437(B) 39=-437(B)

Trapezoidal Loads (plf)

Vert: 1=-144-to-20=-54

6-21=-15405/12435, 21-22=-15404/12436, 7-22=-15402/12436, 7-8=-1170/1078,

8-9=-557/186

BOT CHORD 15-26=-10329/15265, 26-27=-10329/15265, 14-27=-10329/15265, 14-28=-10329/15265,

13-28=-10329/15265, 13-29=-15648/22233, 29-30=-15648/22233, 30-31=-15648/22233, 12-31=-15648/22233, 12-32=-17518/22447, 11-32=-17518/22447, 11-33=-17518/22447, 33-34=-17518/22447, 10-34=-17518/22447, 10-35=-12454/15419, 35-36=-12454/15419,

36-37=-12454/15419, 9-37=-12454/15419

**WEBS** 1-15=-10674/15817, 2-15=-2880/2042, 2-13=-5625/7357, 4-13=-683/871, 4-12=-2242/1376,

5-12=-2014/2675, 5-10=-7924/5661, 7-10=-4870/5972, 7-9=-15504/12551

## NOTES-

1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:

Top chords connected as follows: 2x3 - 1 row at 0-9-0 oc, 2x6 - 2 rows staggered at 0-7-0 oc.

Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc. Webs connected as follows: 2x4 - 1 row at 0-9-0 oc, 2x3 - 1 row at 0-9-0 oc.

2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.

3) Unbalanced roof live loads have been considered for this design.

- 4) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=80ft; L=40ft; eave=5ft; Cat. II; Exp C; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 5) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10; Min. flat roof snow load governs.
- 6) Provide adequate drainage to prevent water ponding
- 7) All plates are MT20 plates unless otherwise indicated.

OF MISSO ANDREW **THOMAS** NUMBER PL PL PL PL PE-2017018993

July 21,2020

10.0 psf bo

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ANSITPH Quality Criteria, DSB-89 and BCSI Building Component fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

ANSI/TPI1 Qu
Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job	Truss	Truss Type	Qty	Ply	Streets of West Pryor	I42113112
B400088	A7	Monopitch Girder	1	2	Job Reference (optional)	H2113112
Wheeler Lumber, Waverly, KS 66	5871, Mitek		ID.:::(079ach17	'lunum\A/o1 otT	8.410 s May 22 2020 MiTek Industries, Inc	
NOTES- 9) * This truss has been do other members. 10) WARNING: Required I 11) All bearings are assum 12) Provide mechanical cc 13) Beveled plate or shim 14) This truss is designed 15) Load case(s) 1, 4, 16, truss. 16) Gap between inside of 17) Hanger(s) or other cor 2-3-12, 489 lb down ardown and 223 lb up at lb up at 20-3-12, 829 28-3-12, 813 lb down and 28-3-14 and 19-3-15	pesigned for a live load of pearing size at joint(s) 1 gred to be DF No.2 crushionnection (by others) of trequired to provide full bin accordance with the 2 17, 18, 19, 24, 39, 40, 4 top chord bearing and finection device(s) shall bin the distribution of the distribution device (s) shall bin the distribution distributio	20.0psf on the bottom chord in all area greater than input bearing size. In greater than input bearing size. In greater than input bearing size. In greater to feet the searing plate capable of withstate aring surface with truss chord at joint (018 International Building Code section 1, 42 has/have been modified. Building rst diagonal or vertical web shall not exe provided sufficient to support concern 89 lb down and 450 lb up at 6-3-12, 41 dt 223 lb up at 14-3-12, 461 lb down and 276 lb up at 32 s, and 812 lb down and 774 lb up at 32 s the responsibility of others.	s where a rectangle 3 anding 4420 lb uplift a s) 1. a 2306.1 and reference designer must review (ceed 0.500in. trated load(s) 495 lb 62 lb down and 223 ll and 223 lb up at 16.3 t 24-3-12, 814 lb dow	3-6-0 tall by t joint 1 and ced standar v loads to vo down and 4 c up at 8-3- -12, 830 lb vn and 775	Pnz53bT-GW5yhU3uPSma0mrFfEQ: 2-0-0 wide will fit between the botto 1 5764 lb uplift at joint 9. d ANSI/TPI 1. erify that they are correct for the inte 44 lb up at 0-1-4, 490 lb down and 12, 462 lb down and 223 lb up at 2 down and 793 lb up at 18-3-12, 83 lb up at 26-3-12, 813 lb down and	?vuYllswFsQz8ZWXnPFyvoy9 om chord and any ended use of this d 451 lb up at 10-3-12, 462 lb 30 lb down and 793 775 lb up at
33=-203(F) 3Å= Trapezoidal Loads (plf) Vert: 22=-61-to 4) Dead + 0.75 Snow (bala Uniform Loads (plf) Vert: 1-22=-53, Concentrated Loads (lb) Vert: 16=-151(F) 33=-169(F) 34=	4): Lumber Increase=1.15 9-16=-20 ) (7) 13=-446(F) 11=-203(F 203(F) 35=-203(F) 36=- -8=-181 anced): Lumber Increase 9-16=-20	) 23=-169(F) 24=-169(F) 25=-169(F) 26 -203(F) 37=-203(F) =1.15, Plate Increase=1.15 ) 23=-143(F) 24=-143(F) 25=-143(F) 26	,,,,,,,	, , ,	, , , , , , , , , , , , , , , , , , ,	, , , ,
Uniform Loads (plf) Vert: 1-22=-54 Horz: 1-16=2' Concentrated Loads (I Vert: 16=267( 34=498(F) 35	I.) + 0.75(0.6 MWFRS W 4, 9-16=-20 1, 1-8=1, 8-9=6, 8-17=38 b) F) 13=146(F) 11=499(F) =498(F) 36=497(F) 37=4	23=275(F) 24=274(F) 25=274(F) 26=1			146(F) 30=515(F) 31=514(F) 32=5	14(F) 33=499(F)
Uniform Loads (plf) Vert: 1-22=-54 Horz: 1-16=-6 Concentrated Loads (I Vert: 16=267(	o-8=-144 I.) + 0.75(0.6 MWFRS W 4, 9-16=-20 , 1-8=1, 8-9=-21, 8-17=-3 b) F) 13=146(F) 11=499(F)	7ind (Neg. Int) Right): Lumber Increase 38 23=275(F) 24=274(F) 25=274(F) 26=1 99(F) 34=498(F) 35=498(F) 36=497(F)	146(F) 27=146(F) 28=		146(F)	

Trapezoidal Loads (plf)

Vert: 22=-54-to-8=-144

18) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-22=-54, 9-16=-20

Horz: 1-16=-10, 1-8=1, 8-9=10, 8-17=25

Concentrated Loads (lb)

Vert: 16=267(F) 13=146(F) 11=499(F) 23=275(F) 24=274(F) 25=274(F) 26=146(F) 27=146(F) 28=146(F) 29=146(F)

30=515(F) 31=514(F) 32=514(F) 33=499(F) 34=498(F) 35=498(F) 36=497(F) 37=497(F)

Trapezoidal Loads (plf)

Vert: 22=-54-to-8=-144

19) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-22=-54, 9-16=-20

Horz: 1-16=-10, 1-8=1, 8-9=10, 8-17=25

Concentrated Loads (Ib)

Vert: 16=267(F) 13=146(F) 11=499(F) 23=275(F) 24=274(F) 25=274(F) 26=146(F) 27=146(F) 28=146(F) 29=146(F)

30=515(F) 31=514(F) 32=514(F) 33=499(F) 34=498(F) 35=498(F) 36=497(F) 37=497(F)

Trapezoidal Loads (plf)

Vert: 22=-54-to-8=-144

24) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 1-22=-70, 9-16=-20

Concentrated Loads (lb)

Vert: 16=-177(F) 13=-446(F) 11=-203(F) 23=-169(F) 24=-169(F) 25=-169(F) 26=-446(F) 27=-446(F) 28=-446(F) 29=-446(F) 29=-4

30=-197(F) 31=-197(F) 32=-197(F) 33=-203(F) 34=-203(F) 35=-203(F) 36=-203(F) 37=-203(F)

Trapezoidal Loads (plf)

Vert: 22=-70-to-8=-190

#### Continued on page 3

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Job	Truss	Truss Type	Qty	Ply		Streets of West Pryor	
B400088	A7	Manage Help Cinder					<b> </b> 4211;
B400088	A/	Monopitch Girder	1		2	Job Reference (optional)	
Wheeler Lumber, W	averly, KS 66871, Mitek		ID:yyQ78agb1ZI	uwnWc1	1etTI	8.410 s May 22 2020 MiTek Industries, Inc. Tue Jul 21 15:09:24 20 FPnz53bT-GW5yhU3uPSma0mrFfEQ?vuYllswFsQz8ZWXn	
	0, 1					•	
LOAD CASE(S)							
,	` ,	'5(0.6 MWFRS Wind (Neg. Int) Left): Lumber	Increase=1.60, Plate I	ncrease	=1.0	.60	
Uniform Loa	ds (plf)						
Ver	t: 1-22=-54, 9-16=-20						
Hor	z: 1-16=21, 1-8=1, 8-9=6, 8	-17=38					
Concentrate	d Loads (lb)						
Ver	t: 16=-444(É) 13=-462(F) 1	=-699(F) 23=-436(F) 24=-436(F) 25=-435(F) 3	26=-462(F) 27=-462(F	28=-46	62(F	(F) 29=-461(F) 30=-708(F) 31=-707(F) 32=-707(F)	
	. , . , ,	3(F) 36=-697(F) 37=-697(F)		,	(-	., (., (., (., (.,	
Trapezoidal	. , . , ,	5(. ) 55 55. (. ) 5. 55. (. )					
	t: 22=-54-to-8=-144						

40) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert: 1-22=-54, 9-16=-20 Horz: 1-16=-6, 1-8=1, 8-9=-21, 8-17=-38 Concentrated Loads (lb) Vert: 16=-444(F) 13=-462(F) 11=-699(F) 23=-436(F) 24=-436(F) 25=-435(F) 26=-462(F) 27=-462(F) 28=-462(F) 29=-461(F) 30=-708(F) 31=-707(F) 32=-707(F) 33=-698(F) 34=-698(F) 35=-698(F) 36=-697(F) 37=-697(F) Trapezoidal Loads (plf) Vert: 22=-54-to-8=-144 41) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert: 1-22=-54, 9-16=-20 Horz: 1-16=-10, 1-8=1, 8-9=10, 8-17=25 Concentrated Loads (lb) Vert: 16=-444(F) 13=-462(F) 11=-699(F) 23=-436(F) 24=-436(F) 25=-435(F) 26=-462(F) 27=-462(F) 28=-462(F) 29=-461(F) 30=-708(F) 31=-707(F) 32=-707(F) 33=-698(F) 34=-698(F) 35=-698(F) 36=-697(F) 37=-697(F) Trapezoidal Loads (plf) Vert: 22=-54-to-8=-144 42) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert: 1-22=-54, 9-16=-20 Horz: 1-16=-10, 1-8=1, 8-9=10, 8-17=25 Concentrated Loads (lb) Vert: 16=-444(F) 13=-462(F) 11=-699(F) 23=-436(F) 24=-436(F) 25=-435(F) 26=-462(F) 27=-462(F) 28=-462(F) 29=-461(F) 30=-708(F) 31=-707(F) 32=-707(F) 33=-698(F) 34=-698(F) 35=-698(F) 36=-697(F) 37=-697(F) Trapezoidal Loads (plf) Vert: 22=-54-to-8=-144

	7	'-4-13	7-2-5	7-2-5	1	7-2-5		7-4-	13	
Plate Offsets (X,Y)-	- [1:0-2-8,0	)-4-12], [2:0-2-8,0	-2-8], [7:0-2-8,0-2-8],	[8:0-5-7,Edge], [13:0-2-8,0	)-1-8], [15:0-2-8	0-2-0]				
LOADING (psf) TCLL (roof) Snow (Pf/Pg) 15.4/ TCDL BCLL BCDL	20.0 /20.0 15.0 0.0 *	SPACING- Plate Grip Lumber DC Rep Stress Code IBC2	DOL 1.15 DL 1.15	CSI. TC 0.74 BC 0.71 WB 0.96 Matrix-S	DEFL. Vert(LL) Vert(CT) Horz(CT Wind(LL		I/defl >999 >475 n/a >999	L/d 360 240 n/a 240	PLATES MT20 MT18HS Weight: 183 lb	<b>GRIP</b> 197/144 197/144 FT = 10%

21-9-6

28-11-11

7-9

LUMBER-**BRACING-**

TOP CHORD 2x6 SPF No.2 \*Except\* TOP CHORD Structural wood sheathing directly applied or 2-7-14 oc purlins,

17-18: 2x10 SP DSS except end verticals. Except: 2x4 SPF 2100F 1.8E 6-0-0 oc bracing: 8-9 2x3 SPF No.2 \*Except 7-7-0 oc bracing: 8-17

9-17: 2x6 SPF 1650F 1.4E, 1-15: 2x4 SPF 2100F 1.8E **BOT CHORD** Rigid ceiling directly applied or 5-3-11 oc bracing.

5-10.7-9: 2x4 SPF No.2 1 Row at midpt 8-17, 5-10 **WEBS** 2 Rows at 1/3 pts

REACTIONS. (lb/size) 1=1490/0-2-14, 9=1889/0-7-4

14-7-2

Max Grav 1=1655(LC 28), 9=2055(LC 28)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 1-2=-3989/1448, 2-19=-5528/2093, 3-19=-5522/2093, 3-20=-5522/2094, 4-20=-5520/2094,

4-21=-5312/2159, 21-22=-5311/2161, 5-22=-5302/2161, 5-6=-3625/1743, 6-23=-3621/1743,

23-24=-3616/1744, 7-24=-3615/1744, 7-8=-777/763, 8-9=-540/164

**BOT CHORD** 14-15=-1484/3984, 13-14=-1484/3984, 12-13=-2122/5521, 11-12=-2181/5306,

10-11=-2181/5306 9-10=-1756/3620

Max Horz 9=473(LC 11)

Max Uplift 1=-195(LC 10), 9=-197(LC 11)

1-15=-1529/4138, 2-15=-1125/571, 2-13=-675/1629, 4-13=-402/309, 4-12=-382/187. WFBS

5-12=0/366, 5-10=-1951/727, 7-10=-174/856, 7-9=-3760/1152

#### NOTES-

BOT CHORD

WEBS

1) Unbalanced roof live loads have been considered for this design.

7-4-13

- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=80ft; L=40ft; eave=5ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Corner(3) 0-1-4 to 15-1-4, Exterior(2) 15-1-4 to 21-1-12, Corner(3) 21-1-12 to 36-1-12 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10; Min. flat roof snow load governs.
- 4) Provide adequate drainage to prevent water ponding.
- 5) All plates are MT20 plates unless otherwise indicated.
- 6) 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 on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 8) All bearings are assumed to be DF No.2 crushing capacity of 625 psi.
- 9) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 1.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 195 lb uplift at joint 1 and 197 lb uplift at joint 9.
- 11) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 1.
- 12) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- 13) Load case(s) 1, 4, 20, 21, 22, 23, 28 has/have been modified. Building designer must review loads to verify that they are correct for



July 21,2020

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Job	Truss	Truss Type	Qty	Ply	Streets of West Pryor	
B400088	A8	Monopitch	16	1		<b>I</b> 42113113
D-100000	7.0	Monopilon	'	· '	Job Reference (optional)	

Wheeler Lumber, Waverly, KS 66871, Mitek

8.410 s May 22 2020 MiTek Industries, Inc. Tue Jul 21 15:09:38 2020 Page 2 ID:yyQ78agb1ZluwnWc1etTPnz53bT-rCxFdGEg6lXbhwvyTAgHUr78EVjs8IJCniwWuRyvoxx

#### NOTES-

14) Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.

#### LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 1-24=-61, 9-16=-20

Trapezoidal Loads (plf)

Vert: 24=-61-to-8=-181

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 1-24=-53, 9-16=-20

Trapezoidal Loads (plf)

Vert: 24=-53-to-8=-143

20) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-24=-54, 9-16=-20

Horz: 1-16=21, 1-8=1, 8-9=6, 8-17=38

Trapezoidal Loads (plf)

Vert: 24=-54-to-8=-144

21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-24=-54, 9-16=-20

Horz: 1-16=-6, 1-8=1, 8-9=-21, 8-17=-38

Trapezoidal Loads (plf)

Vert: 24=-54-to-8=-144

22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-24=-54, 9-16=-20

Horz: 1-16=-10, 1-8=1, 8-9=10, 8-17=25

Trapezoidal Loads (plf)

Vert: 24=-54-to-8=-144

23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-24=-54, 9-16=-20

Horz: 1-16=-10, 1-8=1, 8-9=10, 8-17=25

Trapezoidal Loads (plf)

Vert: 24=-54-to-8=-144

28) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 1-24=-70, 9-16=-20

Trapezoidal Loads (plf)

Vert: 24=-70-to-8=-190

Job Truss Truss Type Qty Streets of West Pryor 142113114 B400088 A8A Monopitch Job Reference (optional) Wheeler Lumber, Waverly, KS - 66871, 8.410 s May 22 2020 MiTek Industries, Inc. Tue Jul 21 13:44:49 2020 Page 1

ID:yyQ78agb1ZluwnWc1etTPnz53bT-KaY4s9jDdhkllrlBNhT jAsVV5tRH8q8ZSgjnvyyqBS

Structural wood sheathing directly applied or 2-8-11 oc purlins,

7-9

1-15, 5-10

Rigid ceiling directly applied or 5-7-11 oc bracing.

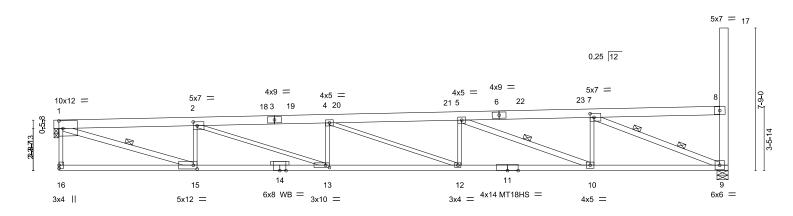
except end verticals.

1 Row at midpt

2 Rows at 1/3 pts

28-11-11 -0-3-6 0-3-6 7-4-13 7-2-5 7-2-5 7-4-13

Scale = 1:62.6



0-0-6	7-4-13 7-4-13	14-7-2 7-2-5		21-9-6 7-2-5	28-11 7-2		36-4-8 7-4-13	——
Plate Offsets (X,Y)	[1:0-2-8,0-5-0], [2:0-2-8,	0-2-8], [7:0-2-8,0-2-8], [1	3:0-2-8,0-1-8], [15:0-2	2-8,0-2-8]				
LOADING (psf) TCLL (roof) 20. Snow (Pf/Pg) 15.4/20.1 TCDL 15. BCLL 0.	0 Plate Gr	ip DOL 1.15 DOL 1.15	CSI. TC 0.62 BC 0.70 WB 1.00	DEFL. Vert(LL) Vert(CT) Horz(CT)	in (loc) -0.40 12-13 -0.91 12-13 -0.04 1	I/defl L/d >999 360 >475 240 n/a n/a	PLATES MT20 MT18HS	<b>GRIP</b> 197/144 197/144
BCDL 0.	Code IH	3C2018/TPI2014	Matrix-S	Wind(LL)	0.38 12-13	>999 240	Weight: 167 lb	FT = 10%

**BRACING-**

TOP CHORD

**BOT CHORD** 

**WEBS** 

LUMBER-

TOP CHORD 2x6 SPF No.2 **BOT CHORD** 2x4 SPF 2100F 1.8E

**WEBS** 2x3 SPF No.2 \*Except\*

9-17: 2x6 SPF No.2, 1-15,5-10,7-9: 2x4 SPF No.2 2x3 SPF No.2

**OTHERS** 

REACTIONS. (size) 1=0-2-14, 9=0-7-4

Max Horz 9=345(LC 11)

Max Uplift 1=-163(LC 10), 9=-166(LC 11)Max Grav 1=1639(LC 28), 9=1838(LC 28)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 1-2=-3932/1354, 2-4=-5438/1924, 4-5=-5190/1922, 5-7=-3439/1428, 7-8=-457/440,

8-9=-390/148

**BOT CHORD** 13-15=-1390/3926, 12-13=-1951/5432, 10-12=-1942/5184, 9-10=-1440/3433 **WEBS** 

1-15=-1428/4072, 2-15=-1107/541, 2-13=-595/1595, 4-13=-390/282, 4-12=-331/155,

5-12=0/367, 5-10=-1950/688, 7-10=-157/856, 7-9=-3590/1149

- 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; B=80ft; L=40ft; eave=5ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Corner(3) 0-1-4 to 15-1-4, Exterior(2) 15-1-4 to 21-1-12, Corner(3) 21-1-12 to 36-1-12 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10; Min. flat roof snow load governs.
- 4) Provide adequate drainage to prevent water ponding.
- 5) All plates are MT20 plates unless otherwise indicated.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 8) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 1.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=163, 9=166
- 10) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 1.
- 11) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI
- 12) Load case(s) 1, 4, 20, 21, 22, 23, 28 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- 13) Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.

#### Continued on page 2 LOAD CASE(S) Sta

# 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 systems, see

ANSITPH Quality Criteria, DSB-89 and BCSI Building Component Safrety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601





16023 Swingley Ridge Rd Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Streets of West Pryor	
B400088	A8A	Monopitch	2	1		I42113114
D400000	AOA	Monopiten	2	'	Job Reference (optional)	

Wheeler Lumber.

Waverly, KS - 66871,

8.410 s May 22 2020 MiTek Industries, Inc. Tue Jul 21 13:44:49 2020 Page 2 ID:yyQ78agb1ZluwnWc1etTPnz53bT-KaY4s9jDdhkllrlBNhT jAsVV5tRH8q8ZSgjnvyvqBS

#### LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 1-23=-61, 9-16=-20

Trapezoidal Loads (plf)

Vert: 23=-61-to-8=-121

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 1-23=-53, 9-16=-20

Trapezoidal Loads (plf)

Vert: 23=-53-to-8=-98

20) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-23=-54, 9-16=-20

Horz: 1-16=21, 1-8=1, 8-9=6, 8-17=38

Trapezoidal Loads (plf)

Vert: 23=-54-to-8=-99

21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-23=-54, 9-16=-20

Horz: 1-16=-6, 1-8=1, 8-9=-21, 8-17=-38

Trapezoidal Loads (plf)

Vert: 23=-54-to-8=-99

22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-23=-54, 9-16=-20

Horz: 1-16=-10, 1-8=1, 8-9=10, 8-17=25

Trapezoidal Loads (plf)

Vert: 23=-54-to-8=-99

23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-23=-54, 9-16=-20

Horz: 1-16=-10, 1-8=1, 8-9=10, 8-17=25

Trapezoidal Loads (plf)

Vert: 23=-54-to-8=-99

28) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 1-23=-70, 9-16=-20

Trapezoidal Loads (plf)

Vert: 23=-70-to-8=-130



Job Truss Truss Type Qty Streets of West Prvor 42113115 B400088 A8B Monopitch Job Reference (optional) 8.410 s May 22 2020 MiTek Industries, Inc. Tue Jul 21 15:09:51 2020 Page 1 ID:yyQ78agb1ZluwnWc1etTPnz53bT-ziD9MjOq2IAllwPSkPPKVbAMpl8UhdB7mDairByvoxk Wheeler Lumber, Waverly, KS 66871, Mitek 0-3-6 7-4-13 14-7-2 21-9-6 28-11-11 36-4-8 7-4-13 7-2-5 7-2-5 7-2-5 7-4-13 Scale = 1:71.6 5x12 || 17 0.25 12 10-2-12 4x9 =6x8 || 5x7 = 4x9 =4x5 = 4x5 = 5x7 = 8x8 = 267 6 25 245 23 193 2021 4 22 2 0.58 14 11 12 16 15 13 10  $_{3x4} = ^{4x14} MT18HS =$ 3x10 MT18HS = 6x8 = 6x8 = 4x5 = 3x4 || 3x10 =14-7-2 21-9-6 28-11-11 36-4-8 7-4-13 7-2-5 [1:0-2-8,0-4-12], [2:0-2-8,0-2-8], [7:0-2-8,0-2-8], [8:0-5-7,Edge], [13:0-2-8,0-1-8], [15:0-2-8,0-3-0] Plate Offsets (X,Y)--LOADING (psf) SPACING-2-0-0 CSI. DEFL. L/d **PLATES GRIP** in (loc) I/defl TCLL (roof) 20.0 360 197/144 Plate Grip DOI 1 15 TC 0.82 Vert(LL) -0 41 12-13 >999 MT20 Snow (Pf/Pg) 15.4/20.0 MT18HS Lumber DOL BC 0.80 Vert(CT) -1.02 12-13 >425 240 197/144 1 15 TCDL 15.0 Rep Stress Incr NO WB 0.92 Horz(CT) -0.04n/a n/a **BCLL** 0.0 Code IBC2018/TPI2014 Matrix-S Wind(LL) 0.39 12-13 >999 240 Weight: 183 lb FT = 10%BCDL 10.0 LUMBER-**BRACING-**TOP CHORD 2x6 SPF No.2 \*Except\* TOP CHORD Structural wood sheathing directly applied or 2-2-14 oc purlins, 17-18: 2x10 SP DSS except end verticals. Except: 2x4 SPF 2100F 1.8E BOT CHORD 6-0-0 oc bracing: 8-9 WEBS 2x3 SPF No.2 \*Except 7-7-0 oc bracing: 8-17 9-17: 2x6 SPF 1650F 1.4E, 1-15: 2x4 SPF 2100F 1.8E **BOT CHORD** Rigid ceiling directly applied or 6-1-7 oc bracing. 5-10.7-9: 2x4 SPF No.2 1 Row at midpt WEBS 8-17, 5-10 2 Rows at 1/3 pts 7-9 REACTIONS (lb/size) 1=1636/0-2-14, 9=1992/0-7-4

Max Horz 9=473(LC 11)

Max Uplift 1=-48(LC 10), 9=-93(LC 11) Max Grav 1=1802(LC 28), 9=2158(LC 28)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 1-2=-4416/1021, 2-19=-6292/1328, 3-19=-6287/1329, 3-20=-6286/1329, 20-21=-6285/1329,

4-21=-6281/1332, 4-22=-5852/1620, 22-23=-5851/1620, 23-24=-5844/1624,

5-24=-5838/1625, 5-6=-3870/1498, 6-25=-3866/1498, 25-26=-3861/1499, 7-26=-3860/1499, 7-8=-780/761, 8-9=-543/161

BOT CHORD 14-15=-1057/4412, 13-14=-1057/4412, 12-13=-1357/6285, 11-12=-1644/5843,

10-11=-1644/5843. 9-10=-1511/3865

1-15=-1081/4586, 2-15=-1262/434, 2-13=-318/1986, 4-13=-523/188, 4-12=-624/0,

5-12=0/452, 5-10=-2265/413, 7-10=-60/970, 7-9=-4022/890

## NOTES-

WFBS

- 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; B=80ft; L=40ft; eave=5ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Corner(3) 0-1-4 to 15-1-4, Exterior(2) 15-1-4 to 21-1-12, Corner(3) 21-1-12 to 36-1-12 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10; Min. flat roof snow load governs.
- 4) 250.0lb AC unit load placed on the top chord, 15-0-4 from left end, supported at two points, 3-8-0 apart.
- 5) Provide adequate drainage to prevent water ponding
- 6) All plates are MT20 plates unless otherwise indicated.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 9) All bearings are assumed to be DF No.2 crushing capacity of 625 psi.
- 10) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 1.
- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 48 lb uplift at joint 1 and 93 lb uplift at ioint 9.
- 12) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 1.



July 21,2020



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

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Job	Truss	Truss Type	Qty	Plv	Streets of West Prvor	
		, , , , , , , , , , , , , , , , ,		1 '		I42113115
						42113113
B400088	A8B	Monopitch	4	1 1		
					Job Reference (optional)	
Wheeler Lumber, Waverly, KS 66	871, Mitek		•		8.410 s May 22 2020 MiTek Industries, Inc. Tue Jul 21 15:09:51 2020	

ID:yyQ78agb1ZluwnWc1etTPnz53bT-ziD9MjOq2lAllwPSkPPKVbAMpl8UhdB7mDairByvoxk

# NOTES-

14) Load case(s) 1, 4, 20, 21, 22, 23, 28 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

15) Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.

#### LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 1-26=-61, 9-16=-20

Concentrated Loads (lb)

Vert: 21=-125 23=-125

Trapezoidal Loads (plf)

Vert: 26=-61-to-8=-181

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 1-26=-53, 9-16=-20

Concentrated Loads (lb)

Vert: 21=-125 23=-125

Trapezoidal Loads (plf)

Vert: 26=-53-to-8=-143

20) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-26=-54, 9-16=-20

Horz: 1-16=21, 1-8=1, 8-9=6, 8-17=38

Concentrated Loads (lb) Vert: 21=-125 23=-125

Trapezoidal Loads (plf)

Vert: 26=-54-to-8=-144

21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-26=-54, 9-16=-20

Horz: 1-16=-6, 1-8=1, 8-9=-21, 8-17=-38

Concentrated Loads (lb)

Vert: 21=-125 23=-125

Trapezoidal Loads (plf)

Vert: 26=-54-to-8=-144

22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-26=-54, 9-16=-20

Horz: 1-16=-10, 1-8=1, 8-9=10, 8-17=25

Concentrated Loads (lb)

Vert: 21=-125 23=-125

Trapezoidal Loads (plf)

Vert: 26=-54-to-8=-144

23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-26=-54, 9-16=-20

Horz: 1-16=-10, 1-8=1, 8-9=10, 8-17=25

Concentrated Loads (lb)

Vert: 21=-125 23=-125

Trapezoidal Loads (plf)

Vert: 26=-54-to-8=-144

28) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 1-26=-70, 9-16=-20

Concentrated Loads (lb)

Vert: 21=-125 23=-125

Trapezoidal Loads (plf)

Vert: 26=-70-to-8=-190

Job Truss Truss Type Qty Ply Streets of West Pryor 142113116 B400088 A9 Monopitch Supported Gable Job Reference (optional)

Wheeler Lumber, Waverly, KS - 66871,

8.410 s May 22 2020 MiTek Industries, Inc. Tue Jul 21 13:44:55 2020 Page 1 ID:yyQ78agb1ZluwnWc1etTPnz53bT-8jwM6Do CXVS0mCLkyaOzR6TeWwQhzU1xO72?ZyyqBM

36-4-8

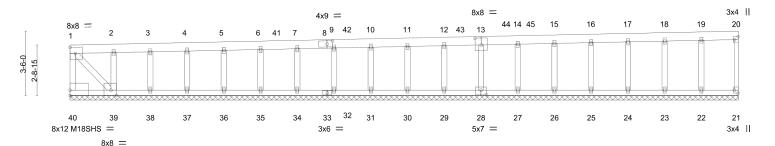
Scale = 1:62.7



Structural wood sheathing directly applied or 5-10-12 oc purlins,

Rigid ceiling directly applied or 4-9-15 oc bracing.

except end verticals.



36-4-8 [8:0-3-9 0-2-0], [13:0-4-0 0-4-8], [20:Edge 0-2-8], [21:Edge 0-2-8], [28:0-3-8 0-3-0], [39:0-3-8 Edge], [40:0-0-0 0-3-8]

LOADING (psf)         SPACING-         2-0-0         CSI.         DEFL.         in (loc)         l/defl         L/d         PLATES         GRIP           TCLL (roof)         20.0         Plate Grip DOL         1.15         TC         0.89         Vert(LL)         n/a         - n/a         999         MT20         197/144           Snow (Pf/Pg)         15.0         Lumber DOL         1.15         BC         0.66         Vert(CT)         n/a         - n/a         999         M18SHS         197/144           PRCL         0.0 *         Rep Stress Incr         YES         WB         0.48         Horz(CT)         -0.09         21         n/a         n/a	Flate Offsets (A, 1) [6.0-3-9,	0-2-0], [13.0-4-0,0-4-6], [20.Edge,0-2-6]	j, [≥1.⊑uge,0-2-6], [≥6.0-3	-6,0-3-0], [39.0-3-6,Euge], [40.0-0-0,0-3-6]	
BCDL 0.0 Code IBC2018/TPI2014 Matrix-S Weight: 321 lb FT = 109	TCLL (roof) 20.0 Snow (Pf/Pg) 15.4/20.0 TCDL 15.0 BCLL 0.0 *	Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES	TC 0.89 BC 0.66 WB 0.48	Vert(LL)         n/a         -         n/a         999         MT20         19           Vert(CT)         n/a         -         n/a         999         M18SHS         19           Horz(CT)         -0.09         21         n/a         n/a	97/144

**BRACING-**

TOP CHORD

**BOT CHORD** 

LUMBER-

TOP CHORD 2x6 SPF No.2 **BOT CHORD** 2x4 SPF No.2

2x4 SPF No.2 \*Except\*

20-21: 2x3 SPF No.2, 1-39: 2x4 SPF 2100F 1.8E

**OTHERS** 2x4 SPF No.2

**WEBS** 

REACTIONS. All bearings 36-4-8.

Max Horz 40=119(LC 39) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 34, 35, 36, 37, 38

except 40=-7727(LC 36), 21=-179(LC 39), 22=-227(LC 38), 39=-7537(LC 39)

All reactions 250 lb or less at joint(s) 21, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 34, 35, 36, 37, Max Grav

38 except 40=7791(LC 43), 22=316(LC 49), 39=7639(LC 40)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 1-40=-7725/7691, 1-2=-7161/7136, 2-3=-6760/6736, 3-4=-6355/6334, 4-5=-5953/5933,

5-6=-5551/5533, 6-7=-5149/5132, 7-9=-4746/4732, 9-10=-4344/4331, 10-11=-3942/3930,

11-12=-3540/3530, 12-13=-3138/3129, 13-14=-2737/2728, 14-15=-2332/2330,

15-16=-1938/1930, 16-17=-1538/1531, 17-18=-1138/1131, 18-19=-738/731,

19-20=-340/334

BOT CHORD 39-40=-513/491, 38-39=-6735/6731, 37-38=-6295/6331, 36-37=-5935/5931,

35-36=-5535/5531, 34-35=-5135/5131, 32-34=-4735/4731, 31-32=-4335/4331, 30-31=-3935/3931, 29-30=-3535/3531, 28-29=-3135/3131, 27-28=-2735/2731,

26-27=-2335/2331, 25-26=-1935/1931, 24-25=-1535/1531, 23-24=-1135/1131,

22-23=-735/731, 21-22=-335/331

**WEBS** 1-39=-10439/10479

# NOTES-

1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:

Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc, 2x6 - 2 rows staggered at 0-9-0 oc, 2x3 - 1 row at 0-9-0 oc. Bottom chords connected as follows: 2x4 - 1 row at 0-7-0 oc.

Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.

2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.

3) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=80ft; L=40ft; eave=2ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Corner(3) 0-1-12 to 15-1-12, Exterior(2) 15-1-12 to 21-3-4, Corner(3) 21-3-4 to 36-3-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

4) Truss designed for wind loads in the plane of the truss 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.

5) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate Cortinated of by age 120; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10; Min. flat roof snow load governs

OF MISSON ANDREW **THOMAS** OHNSON PE-20 PE-STONAL EN NUMBER PE-2017018993

July 21,2020

🗥 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 systems, see

ANSITPH 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	Streets of West Pryor	
						I42113116
B400088	A9	Monopitch Supported Gable	1	2	Joh Deference (entional)	
			1	_	Job Reference (optional)	

Waverly, KS - 66871,

8.410 s May 22 2020 MiTek Industries, Inc. Tue Jul 21 13:44:56 2020 Page 2 ID:yyQ78agb1ZluwnWc1etTPnz53bT-dwTkKZpczrdJewnYlf5dWffeOwGfQQkAA2tbX?yvqBL

- 6) Provide adequate drainage to prevent water ponding.
- 7) All plates are MT20 plates unless otherwise indicated.
- 8) All plates are 2x4 MT20 unless otherwise indicated.
- 9) Gable requires continuous bottom chord bearing.
- 10) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 11) Gable studs spaced at 2-0-0 oc.
- 12) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 13) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and
- 14) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 34, 35, 36, 37, 38 except (jt=lb) 40=7727, 21=179, 22=227, 39=7537.
- 15) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- 16) This truss has been designed for a total drag load of 200 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 36-4-8 for 200.0 plf.

4714 WITHING —	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	3-5-14 11-0-0
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7-2-4 7-2-4 [1:0-2-8,0-4-12], [2:0-2-8,0-2-8], [7:0-2-8,0-2-0], [13:0-2-8,0-1-8], [15:0-2-8,0-3-0] Plate Offsets (X,Y)--LOADING (psf) SPACING-2-0-0 CSI. DEFL. I/defl L/d **PLATES GRIP** in (loc) TCLL (roof) 20.0 360 197/144 Plate Grip DOI 1 15 TC 0.81 Vert(LL) -0.53 12-13 >814 MT20 Snow (Pf/Pg) 15.4/20.0 Lumber DOL -1.00 12-13 MT18HS BC 0.81 Vert(CT) >432 240 197/144 1 15 TCDL 15.0 Rep Stress Incr NO WB 0.96 Horz(CT) -0.06n/a n/a **BCLL** 0.0 Code IBC2018/TPI2014 Matrix-S Wind(LL) 0.37 12-13 >999 240 Weight: 196 lb FT = 10%BCDL 10.0

**BOT CHORD** 

WEBS

21-9-4

28-11-8

end verticals. Except:

6-0-0 oc bracing: 8-9

7-7-0 oc bracing: 8-17

1 Row at midpt

36-4-4

Structural wood sheathing directly applied or 2-2-1 oc purlins, except

8-17, 5-10, 7-9

Rigid ceiling directly applied or 5-3-13 oc bracing.

LUMBER-**BRACING-**

TOP CHORD 2x6 SP 2400F 2.0E \*Except\* TOP CHORD

3-6: 2x6 SPF No.2, 17-18: 2x10 SP DSS

7-4-12

BOT CHORD 2x4 SPF 2100F 1.8E

WEBS 2x3 SPF No.2 \*Except

9-17: 2x6 SPF 1650F 1.4E, 1-15,7-9: 2x4 SPF 2100F 1.8E

5-10: 2x4 SPF No.2

REACTIONS (lb/size) 1=1621/0-3-2, 9=1621/0-7-4

> Max Horz 9=473(LC 10) Max Uplift 1=-195(LC 9), 9=-197(LC 10)

Max Grav 1=1802(LC 27), 9=3233(LC 27)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 1-2=-4403/1445, 2-19=-6321/2093, 3-19=-6316/2093, 3-20=-6315/2093, 4-20=-6314/2094,

4-21=-6423/2155, 21-22=-6422/2156, 5-22=-6413/2156, 5-6=-5025/1748, 6-23=-5021/1748,

14-7-0

23-24=-5012/1749, 7-24=-5010/1749, 7-8=-750/736, 8-9=-1182/168

**BOT CHORD** 14-15=-1482/4398, 13-14=-1482/4398, 12-13=-2121/6314, 11-12=-2176/6416,

10-11=-2176/6416 9-10=-1761/5020

WFBS 1-15=-1529/4576, 2-15=-1260/571, 2-13=-678/2031, 4-13=-536/310, 4-12=-391/191,

5-12=0/367, 5-10=-1938/724, 7-10=-174/855, 7-9=-5151/1141

## 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; B=80ft; L=40ft; eave=5ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Corner(3) 0-1-4 to 15-1-4, Exterior(2) 15-1-4 to 21-1-8, Corner(3) 21-1-8 to 36-1-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) TCLL: ASCE 7-16: Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15): Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10; Min. flat roof snow load governs.
- 4) Provide adequate drainage to prevent water ponding.
- 5) All plates are MT20 plates unless otherwise indicated.
- 6) 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 on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 8) All bearings are assumed to be DF No.2 crushing capacity of 625 psi.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 195 lb uplift at joint 1 and 197 lb uplift at ioint 9.
- 10) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 1.
- 11) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- 12) Load case(s) 3, 19, 20, 21, 22, 27 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.



July 21,2020

## ed on page 2

🛕 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 systems, see

ANSITPH 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	Streets of West Pryor	
		• •		'	· ·	I42113117
B400088	A10	Monopitch	5	1		
			Ī		Job Reference (optional)	
Wheeler Lumber, Waverly, KS 66	871, Mitek	•	•	•	8.410 s May 22 2020 MiTek Industries, Inc. Tue Jul 21 15:10:11 2020	Page 2

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#### NOTES-

13) Standard loadcase(s) has been removed. Building designer must review loads shown to verify that they are correct for the intended use of the truss.

14) Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.

#### LOAD CASE(S)

1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 1-8=-70, 9-16=-20

2) Dead + 0.75 Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 1-8=-60, 9-16=-20

3) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 1-5=-53, 9-16=-20

Trapezoidal Loads (plf)

Vert: 5=-53-to-24=-94, 24=-94-to-8=-233

4) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25

Uniform Loads (plf)

Vert: 1-8=-30, 9-16=-40

5) Dead + 0.6 C-C Wind (Pos. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-21=41, 21-22=41, 8-22=41, 9-16=-12

Horz: 1-16=17, 1-21=-53, 21-22=-53, 8-22=-53, 8-9=32, 8-17=52

6) Dead + 0.6 C-C Wind (Pos. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf)

Vert: 1-21=41, 21-22=41, 8-22=41, 9-16=-12

Horz: 1-16=-32, 1-21=-53, 21-22=-53, 8-22=-53, 8-9=-17, 8-17=-24

7) Dead + 0.6 C-C Wind (Neg. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-8=-42, 9-16=-20

Horz: 1-16=-21, 1-8=12, 8-9=-29, 8-17=52

8) Dead + 0.6 C-C Wind (Neg. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-8=-42, 9-16=-20

Horz: 1-16=29, 1-8=12, 8-9=21, 8-17=-27

9) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-20=22, 20-23=17, 8-23=9, 9-16=-12

Horz: 1-16=16, 1-20=-34, 20-23=-29, 8-23=-21, 8-9=20, 8-17=51

10) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-19=9, 6-19=17, 6-8=22, 9-16=-12

Horz: 1-16=-20, 1-19=-21, 6-19=-29, 6-8=-34, 8-9=-16, 8-17=-51

11) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-8=-31, 9-16=-20

Horz: 1-16=28, 1-8=1, 8-9=8, 8-17=51

12) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-8=-31, 9-16=-20

Horz: 1-16=-8 1-8=1 8-9=-28 8-17=-51

13) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-8=19, 9-16=-12

Horz: 1-16=-25, 1-8=-31, 8-9=25, 8-17=34

14) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-8=2, 9-16=-12

Horz: 1-16=-25, 1-8=-14, 8-9=25, 8-17=34

15) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-8=-31 9-16=-20

Horz: 1-16=-14, 1-8=1, 8-9=14, 8-17=34

16) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-8=-31, 9-16=-20

Horz: 1-16=-14, 1-8=1, 8-9=14, 8-17=34

17) Dead + Snow on Overhangs: Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90

Uniform Loads (plf)

Vert: 1-8=-30, 9-16=-20

18) Dead: Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90

Uniform Loads (plf)

Vert: 1-8=-30, 9-16=-20

19) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-5=-54, 9-16=-20

Horz: 1-16=21, 1-8=1, 8-9=6, 8-17=38

Trapezoidal Loads (plf)

Vert: 5=-54-to-24=-95, 24=-95-to-8=-234

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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 for use only with reason of the session is based only upon parameters shown, and is for an individual rotating component, not a function of the state of the session in the coverall 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

ANSITPI1 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	Streets of West Pryor	
						42113117
B400088	A10	Monopitch	5	1		
					Job Reference (optional)	
Wheeler Lumber, Waverly, KS 668	371. Mitek				8.410 s May 22 2020 MiTek Industries, Inc., Tue Jul 21 15:10:12 2020	Page 3

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#### LOAD CASE(S)

20) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-5=-54, 9-16=-20

Horz: 1-16=-6, 1-8=1, 8-9=-21, 8-17=-38

Trapezoidal Loads (plf)

Vert: 5=-54-to-24=-95, 24=-95-to-8=-234

21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-5=-54, 9-16=-20

Horz: 1-16=-10, 1-8=1, 8-9=10, 8-17=25

Trapezoidal Loads (plf)

Vert: 5=-54-to-24=-95, 24=-95-to-8=-234

22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-5=-54, 9-16=-20

Horz: 1-16=-10, 1-8=1, 8-9=10, 8-17=25

Trapezoidal Loads (plf)

Vert: 5=-54-to-24=-95, 24=-95-to-8=-234

23) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-8=-61, 9-16=-20

Horz: 1-16=21, 1-8=1, 8-9=6, 8-17=38

24) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf)

Vert: 1-8=-61, 9-16=-20

Horz: 1-16=-6, 1-8=1, 8-9=-21, 8-17=-38

25) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-8=-61, 9-16=-20

Horz: 1-16=-10, 1-8=1, 8-9=10, 8-17=25

26) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-8=-61, 9-16=-20

Horz: 1-16=-10, 1-8=1, 8-9=10, 8-17=25

27) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 1-5=-70, 9-16=-20

Trapezoidal Loads (plf)

Vert: 5=-70-to-24=-125, 24=-125-to-8=-430

28) Dead + 0.6 C-C Wind Min. Down: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-8=-28, 9-16=-12

Horz: 1-16=-16, 1-8=16, 8-9=-16, 8-17=33

29) Dead + 0.6 C-C Wind Min. Upward: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-8=4, 9-16=-12

Horz: 1-16=16, 1-8=-16, 8-9=16, 8-17=33

30) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

Vert: 1-8=-70, 9-16=-20

31) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 1-8=-30, 9-16=-20

32) 3rd Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 1-8=-60, 9-16=-20

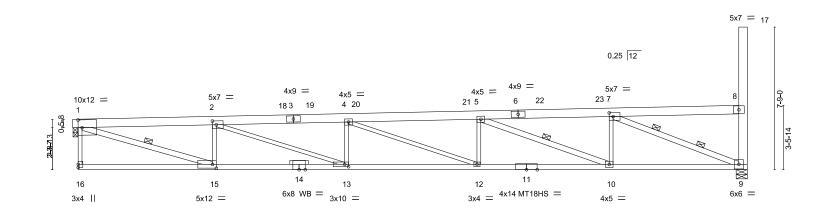
33) 4th Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 1-8=-30, 9-16=-20







7-4-	12	1	14-7-0	1	21	I <b>-</b> 9 <b>-</b> 4	28-	11-8		36-4-4	
7-4-	12		7-2-4	- 1	7	-2-4	7-	2-4		7-4-12	
Plate Offsets (X,Y) [1:0-2-8	0-5-0], [2:0-2-8,0	D-2-8], [7:C	)-2-8,0-2-8], [1	3:0-2-8,0-1	-8], [15:0-2-8	,0-2-8]					
LOADING (psf)   TCLL (roof)   20.0   Snow (Pf/Pg)   15.4/20.0   TCDL   15.0   BCLL   0.0 * BCDL   10.0	SPACIN Plate Gri Lumber I Rep Stre Code IB	p DOL DOL	2-0-0 1.15 1.15 NO I2014	CSI TC BC WB Mat	0.61 0.70 1.00 rix-S	DEFL. Vert(LL) Vert(CT) Horz(CT) Wind(LL)	in (loc) -0.40 12-13 -0.91 12-13 -0.04 1 0.38 12-13	I/defl >999 >476 n/a >999	L/d 360 240 n/a 240	PLATES MT20 MT18HS Weight: 167 lb	<b>GRIP</b> 197/144 197/144 FT = 10%

**BRACING-**

TOP CHORD

**BOT CHORD** 

**WEBS** 

LUMBER-

TOP CHORD 2x6 SPF No.2 2x4 SPF 2100F 1.8E

**BOT CHORD WEBS** 2x3 SPF No.2 \*Except\*

9-17: 2x6 SPF No.2, 1-15,5-10,7-9: 2x4 SPF No.2 2x3 SPF No.2

**OTHERS** 

0-3-6

REACTIONS. (size) 1=0-3-0, 9=0-7-4

Max Horz 9=345(LC 11)

Max Uplift 1=-163(LC 10), 9=-166(LC 11) Max Grav 1=1638(LC 28), 9=1837(LC 28)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 1-2=-3927/1353, 2-4=-5432/1923, 4-5=-5184/1921, 5-7=-3435/1427, 7-8=-457/440,

8-9=-390/148

**BOT CHORD** 13-15=-1389/3921, 12-13=-1950/5425, 10-12=-1941/5178, 9-10=-1439/3430 **WEBS** 1-15=-1427/4067, 2-15=-1107/541, 2-13=-595/1594, 4-13=-389/281, 4-12=-330/154,

5-12=0/366, 5-10=-1948/688, 7-10=-157/856, 7-9=-3586/1148

- 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; B=80ft; L=40ft; eave=5ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Corner(3) 0-1-4 to 15-1-4, Exterior(2) 15-1-4 to 21-1-8, Corner(3) 21-1-8 to 36-1-8 zone: cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10; Min. flat roof snow load governs.
- 4) Provide adequate drainage to prevent water ponding.
- 5) All plates are MT20 plates unless otherwise indicated.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=163, 9=166,
- 9) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 1.
- 10) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI
- 11) Load case(s) 1, 4, 20, 21, 22, 23, 28 has/have been modified. Building designer must review loads to verify that they are correct for
- 12) Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.



Structural wood sheathing directly applied or 2-8-12 oc purlins,

7-9

1-15, 5-10

Rigid ceiling directly applied or 5-7-11 oc bracing.

except end verticals.

1 Row at midpt

2 Rows at 1/3 pts

Scale = 1:62.6

July 21,2020

## CAAAQuGASAE(Sa)geStandard



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Job	Truss	Truss Type	Qty	Ply	Streets of West Pryor
B400088	A10A	Monopitch	5	1	I4211311 
D-100000	KIOK	World pitch			Job Reference (optional)

Waverly, KS - 66871,

8.410 s May 22 2020 MiTek Industries, Inc. Tue Jul 21 13:44:00 2020 Page 2 ID:yyQ78agb1ZluwnWc1etTPnz53bT-G85ZaP8U9eZFwKVn0u5UErK7uL8 IzjxIKJdZFyvqCD

#### LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 1-23=-61, 9-16=-20

Trapezoidal Loads (plf)

Vert: 23=-61-to-8=-121

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 1-23=-53, 9-16=-20

Trapezoidal Loads (plf)

Vert: 23=-53-to-8=-98

20) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-23=-54, 9-16=-20

Horz: 1-16=21, 1-8=1, 8-9=6, 8-17=38

Trapezoidal Loads (plf)

Vert: 23=-54-to-8=-99

21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-23=-54, 9-16=-20

Horz: 1-16=-6, 1-8=1, 8-9=-21, 8-17=-38

Trapezoidal Loads (plf)

Vert: 23=-54-to-8=-99

22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-23=-54, 9-16=-20

Horz: 1-16=-10, 1-8=1, 8-9=10, 8-17=25

Trapezoidal Loads (plf)

Vert: 23=-54-to-8=-99

23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-23=-54, 9-16=-20

Horz: 1-16=-10, 1-8=1, 8-9=10, 8-17=25

Trapezoidal Loads (plf)

Vert: 23=-54-to-8=-99

28) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15

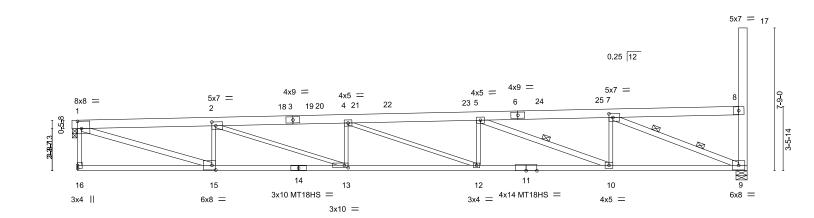
Uniform Loads (plf)

Vert: 1-23=-70, 9-16=-20

Trapezoidal Loads (plf)

Vert: 23=-70-to-8=-130





	1 -4-12	2	1 14	+-/-0	21	-9-4	I	20-1	1-0	1	30 <del>-4-4</del>	1
	7-4-12	2	7	-2-4	7.	-2-4	ı	7-2	:-4		7-4-12	
Plate Offsets	s (X,Y) [1:0-2-8,0	)-4-12], [2:0-2-8	3,0-2-8], [7:0-2-	8,0-2-8], [13:0-2-8	,0-1-8], [15:0-2-	8,0-3-0]						
LOADING ( TCLL (roof) Snow (Pf/Pg TCDL BCLL BCDI	20.0	SPACIN Plate Gri Lumber Rep Stre Code IB	ip DOL 1.	15 T0 15 B0	0.79	DEFL. Vert(LL) Vert(CT) Horz(CT) Wind(LL)	in ( -0.39 12 -1.00 12 -0.04 0.37 12	2-13 1	I/defI >999 >433 n/a >999	L/d 360 240 n/a 240	PLATES MT20 MT18HS Weight: 166 lb	<b>GRIP</b> 197/144 197/144 FT = 10%

**BRACING-**

TOP CHORD

**BOT CHORD** 

**WEBS** 

21 0 /

29 11 9

except end verticals.

1 Row at midpt

2 Rows at 1/3 pts

Structural wood sheathing directly applied or 2-3-12 oc purlins,

5-10

7-9

Rigid ceiling directly applied or 6-7-11 oc bracing.

LUMBER-

0-3-6

2x6 SPF No.2 TOP CHORD BOT CHORD 2x4 SPF 2100F 1.8E **WEBS** 

2x3 SPF No.2 \*Except\*

9-17: 2x6 SPF No.2, 1-15: 2x4 SPF 2100F 1.8E 5-10,7-9: 2x4 SPF No.2

REACTIONS. (size) 1=0-3-0, 9=0-7-4

Max Horz 9=345(LC 11)

7 / 12

Max Uplift 1=-17(LC 10), 9=-62(LC 11)

Max Grav 1=1784(LC 28), 9=1941(LC 28)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 1-2=-4363/929, 2-4=-6193/1161, 4-5=-5724/1385, 5-7=-3680/1182, 7-8=-460/437,

8-9=-393/146

**BOT CHORD** 13-15=-965/4359, 12-13=-1186/6186, 10-12=-1404/5715, 9-10=-1194/3674 **WEBS** 

1-15=-985/4531, 2-15=-1246/404, 2-13=-234/1937, 4-13=-507/160, 4-12=-569/0,

1470

5-12=0/451, 5-10=-2263/374, 7-10=-43/970, 7-9=-3848/886

- 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; B=80ft; L=40ft; eave=5ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Corner(3) 0-1-4 to 15-1-4, Exterior(2) 15-1-4 to 21-1-8, Corner(3) 21-1-8 to 36-1-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10; Min. flat roof snow load governs.
- 4) 250.0lb AC unit load placed on the top chord, 15-0-2 from left end, supported at two points, 3-8-4 apart.
- 5) Provide adequate drainage to prevent water ponding.
- 6) All plates are MT20 plates unless otherwise indicated.
- 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 on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 9.
- 10) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 1.
- 11) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI
- 12) Load case(s) 1, 4, 20, 21, 22, 23, 28 has/have been modified. Building designer must review loads to verify that they are correct for
- 13) Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.



Scale = 1:62.6

July 21,2020

## CAAR GASE (S) geStandard



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

ANSITPH Quality Criteria, DSB-89 and BCSI Building Component fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

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Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job	Truss	Truss Type	Qty	Ply	Streets of West Pryor	
B400088	A10B	MONOPITCH	2	1	I4211;	3119
D400000	A10B	MONOTHETT		'	Job Reference (optional)	

Waverly, KS - 66871,

8.410 s May 22 2020 MiTek Industries, Inc. Tue Jul 21 13:44:03 2020 Page 2 ID:yyQ78agb1ZluwnWc1etTPnz53bT-gjnhCRAMSZyqnnEMh1fBsUybPY8GVMNN IXIAayvqCA

#### LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 1-25=-61, 9-16=-20

Concentrated Loads (lb)

Vert: 20=-125 22=-125

Trapezoidal Loads (plf)

Vert: 25=-61-to-8=-121

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 1-25=-53, 9-16=-20

Concentrated Loads (lb)

Vert: 20=-125 22=-125

Trapezoidal Loads (plf)

Vert: 25=-53-to-8=-98

20) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-25=-54, 9-16=-20

Horz: 1-16=21, 1-8=1, 8-9=6, 8-17=38

Concentrated Loads (lb)

Vert: 20=-125 22=-125

Trapezoidal Loads (plf)

Vert: 25=-54-to-8=-99

21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-25=-54, 9-16=-20

Horz: 1-16=-6, 1-8=1, 8-9=-21, 8-17=-38

Concentrated Loads (lb)

Vert: 20=-125 22=-125

Trapezoidal Loads (plf)

Vert: 25=-54-to-8=-99

22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-25=-54, 9-16=-20

Horz: 1-16=-10, 1-8=1, 8-9=10, 8-17=25

Concentrated Loads (lb)

Vert: 20=-125 22=-125

Trapezoidal Loads (plf)

Vert: 25=-54-to-8=-99

23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-25=-54, 9-16=-20

Horz: 1-16=-10, 1-8=1, 8-9=10, 8-17=25

Concentrated Loads (lb)

Vert: 20=-125 22=-125

Trapezoidal Loads (plf)

Vert: 25=-54-to-8=-99

28) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 1-25=-70, 9-16=-20

Concentrated Loads (lb)

Vert: 20=-125 22=-125

Trapezoidal Loads (plf)

Vert: 25=-70-to-8=-130



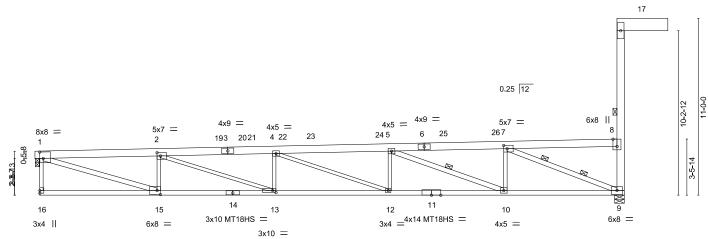


Plate Offsets (X,Y) [1:0-2-8,0	0-4-12], [2:0-2-8,0-2-8], [7:0-2-8,0-2-8], [	8:0-5-7,Edge], [13:0-2-8,0-1-	-8], [15:0-2-8,0-3-0]		
TCLL (roof) 20.0 Snow (Pf/Pg) 15.4/20.0 TCDL 15.0 BCLL 0.0 *	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr NO Code IBC2018/TPI2014	CSI. TC 0.81 BC 0.80 WB 0.91 Matrix-S	DEFL.         in (loc)           Vert(LL)         -0.41 12-13           Vert(CT)         -1.02 12-13           Horz(CT)         -0.04 1           Wind(LL)         0.39 12-13	I/defl L/d >999 360 >426 240 n/a n/a >999 240	PLATES GRIP MT20 197/144 MT18HS 197/144 Weight: 183 lb FT = 10%
BCDL 10.0	0000 1202010/11 12011	Matrix 6	**************************************	210	vvoigni. 100 ib 1 1 1070

21-9-4

28-11-8

LUMBER-**BRACING-**

TOP CHORD 2x6 SPF No.2 \*Except\* TOP CHORD Structural wood sheathing directly applied or 2-2-14 oc purlins,

17-18: 2x10 SP DSS except end verticals. Except: 2x4 SPF 2100F 1.8E 6-0-0 oc bracing: 8-9 2x3 SPF No.2 \*Except\* 7-7-0 oc bracing: 8-17

WEBS 9-17: 2x6 SPF 1650F 1.4E, 1-15: 2x4 SPF 2100F 1.8E **BOT CHORD** Rigid ceiling directly applied or 6-1-8 oc bracing.

5-10.7-9: 2x4 SPF No.2 1 Row at midpt 8-17, 5-10 WEBS

2 Rows at 1/3 pts 7-9

Max Grav 1=1801(LC 28), 9=2157(LC 28)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 1-2=-4411/1020, 2-19=-6285/1327, 3-19=-6279/1328, 3-20=-6279/1328, 20-21=-6278/1329,

4-21=-6274/1332, 4-22=-5845/1619, 22-23=-5845/1619, 23-24=-5838/1623

5-24=-5832/1623, 5-6=-3866/1497, 6-25=-3862/1497, 25-26=-3857/1498, 7-26=-3856/1498,

14-7-0

7-8=-780/761, 8-9=-543/161

Max Horz 9=473(LC 11)

BOT CHORD 14-15=-1057/4406, 13-14=-1057/4406, 12-13=-1357/6278, 11-12=-1642/5837,

10-11=-1642/5837, 9-10=-1511/3861

(lb/size) 1=1635/0-3-0, 9=1992/0-7-4

Max Uplift 1=-48(LC 10), 9=-93(LC 11)

WFBS 1-15=-1080/4581, 2-15=-1261/434, 2-13=-318/1984, 4-13=-523/188, 4-12=-623/0,

5-12=0/451, 5-10=-2263/413, 7-10=-60/970, 7-9=-4019/890

# NOTES-

BOT CHORD

REACTIONS

- 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; B=80ft; L=40ft; eave=5ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Corner(3) 0-1-4 to 15-1-4, Exterior(2) 15-1-4 to 21-1-8, Corner(3) 21-1-8 to 36-1-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10; Min. flat roof snow load governs.
- 4) 250.0lb AC unit load placed on the top chord, 15-0-4 from left end, supported at two points, 3-8-0 apart.
- 5) Provide adequate drainage to prevent water ponding
- 6) All plates are MT20 plates unless otherwise indicated.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 9) All bearings are assumed to be DF No.2 crushing capacity of 625 psi.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 48 lb uplift at joint 1 and 93 lb uplift at
- 11) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 1.
- 12) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

# 16023 Swingley Ridge Rd Chesterfield, MO 63017

ROLLESSIONAL .

OF MISSO

ANDREW

**THOMAS** 

**JOANSO** 

NUMBER

PE-2017018993

July 21,2020

\Lambda WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

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

ANSITPH Quality Criteria, DSB-89 and BCSI Building Component fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Qu Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not

Job	Truss	Truss Type	Qty	Ply	Streets of West Pryor	
						<b>I</b> 42113120
B400088	A10C	Monopitch	6	1		
					Job Reference (optional)	
Wheeler Lumber, Wave	erly, KS 66871, Mitek				8.410 s May 22 2020 MiTek Industries, Inc. Tue Jul 21 15:10:24 202	
			ID:yyQ78agb1Zluwn	Wc1etTPn:	rz53bT-V2jeH?oWGuK3C_QnAqU3LY1_V2PDwYOzMs3yWi	nyvoxD
NOTES-						
13) Load case(s) 1	4 20 21 22 23 28 ha	s/have been modified. Building designer mu	ust review loads to verify t	hat they ar	re correct for the intended use of this truss	
, , , , , , , , , , , , , , , , , , , ,		ng and first diagonal or vertical web shall not		iai aioj ai		
14) Gap between i	riside of top chord bearing	ig and first diagonal of vertical web shall not	i exceed 0.500in.			
LOAD CASE(S)	Standard					
1) Dead + Snow (b	alanced): Lumber Increa	se=1.15, Plate Increase=1.15				
Uniform Loads (	nlf)	,				

Vert: 1-26=-61, 9-16=-20

Concentrated Loads (lb)

Vert: 21=-125 23=-125

Trapezoidal Loads (plf)

Vert: 26=-61-to-8=-181

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 1-26=-53, 9-16=-20

Concentrated Loads (lb)

Vert: 21=-125 23=-125

Trapezoidal Loads (plf)

Vert: 26=-53-to-8=-143

20) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-26=-54, 9-16=-20

Horz: 1-16=21, 1-8=1, 8-9=6, 8-17=38

Concentrated Loads (lb)

Vert: 21=-125 23=-125

Trapezoidal Loads (plf)

Vert: 26=-54-to-8=-144

21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-26=-54, 9-16=-20

Horz: 1-16=-6, 1-8=1, 8-9=-21, 8-17=-38

Concentrated Loads (lb)

Vert: 21=-125 23=-125

Trapezoidal Loads (plf)

Vert: 26=-54-to-8=-144

22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-26=-54, 9-16=-20

Horz: 1-16=-10, 1-8=1, 8-9=10, 8-17=25

Concentrated Loads (lb)

Vert: 21=-125 23=-125

Trapezoidal Loads (plf)

Vert: 26=-54-to-8=-144

23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-26=-54, 9-16=-20

Horz: 1-16=-10, 1-8=1, 8-9=10, 8-17=25

Concentrated Loads (lb)

Vert: 21=-125 23=-125

Trapezoidal Loads (plf)

Vert: 26=-54-to-8=-144

28) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 1-26=-70, 9-16=-20

Concentrated Loads (Ib)

Vert: 21=-125 23=-125

Trapezoidal Loads (plf)

Vert: 26=-70-to-8=-190

28-29=-21912/25811, 29-30=-21912/25811, 12-30=-21912/25811, 12-31=-21613/25374, 11-31=-21613/25374, 11-32=-21613/25374, 32-33=-21613/25374, 10-33=-21613/25374, 10-34=-14383/16878, 34-35=-14383/16878, 35-36=-14383/16878, 9-36=-14383/16878 1-15=-14838/17686, 2-15=-3269/2804, 2-13=-7905/9093, 4-13=-466/344, 4-12=-827/503,

5-12=-2862/3316, 5-10=-9423/7980, 7-10=-5686/6590, 7-9=-17081/14624

## NOTES-

**WEBS** 

1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows: Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc, 2x6 - 2 rows staggered at 0-4-0 oc. Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc. Webs connected as follows: 2x4 - 1 row at 0-9-0 oc, 2x3 - 1 row at 0-9-0 oc.

2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.

3) Unbalanced roof live loads have been considered for this design.

- 4) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=80ft; L=40ft; eave=5ft; Cat. II; Exp C; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 5) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10; Min. flat roof snow load governs.
- 6) Provide adequate drainage to prevent water ponding
- 7) All plates are MT20 plates unless otherwise indicated.

OF MISSO ANDREW **THOMAS** JOHNSON PL PL STONAL NUMBER PE-2017018993

July 21,2020

10.0 psf bo

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ANSITPI1 Qu
Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job	Truss	Truss Type	Qty	Ply	Streets of West Pryor	I42113121
B400088	A11	Monopitch Girder	1	2	Job Reference (optional)	H2110121
Wheeler Lumber, Waverly, KS	66871, Mitek		ID:w/\078aah17lu		8.410 s May 22 2020 MiTek Industries, Inc. T	ue Jul 21 15:10:37 2020 Page 2
NOTES- 9) * This truss has been other members. 10) WARNING: Required the provide mechanical region of the provide region of the prov	designed for a live load d bearing size at joint(s) umed to be DF No.2 cru connection (by others) on required to provide full d in accordance with th4, 16, 17, 18, 19, 24, 39 of top chord bearing an onnection device(s) sha and 451 lb up at 4-3-8, 4 831 lb down and 794 lb and 792 lb up at 22-3-8	of 20.0psf on the bottom chord in all area of 20.0psf on the bottom chord in all area of 20.0psf on the bottom chord in all area of 20.0psf of 625 psi.  If truss to bearing plate capable of withst. It bearing surface with truss chord at joint e 2018 International Building Code sectic, 40, 41, 42 has/have been modified. Build difirst diagonal or vertical web shall not ell be provided sufficient to support concers 19 lb down and 450 lb up at 6-3-8, 488 up at 14-3-8, 831 lb down and 794 lb up 3, 814 lb down and 776 lb up at 24-3-8, 80 own and 774 lb up at 32-3-8, and 812 lb others.	as where a rectangle 3 tanding 5805 lb uplift at t(s) 1. on 2306.1 and reference lding designer must reexceed 0.500in. entrated load(s) 495 lb up at 16-3-8, 830 lb dos 814 lb down and 775 lb down and 775 lb	t-joint 1 and ed standar view loads down and 4 at 8-3-8, 4 wn and 793 o up at 26-3	d ANSI/TPI 1.  do verify that they are correct for the in  43 lb up at 0-1-12, 490 lb down and 4  88 lb down and 449 lb up at 10-3-8, 8  lb up at 18-3-8, 830 lb down and 793  3-8, 813 lb down and 775 lb up at 28-	ntended use of  451 lb up at 832 lb down and 3 lb up at -3-8, 813 lb
Uniform Loads (plf)	ed): Lumber Increase=1 1, 9-16=-20 lb) 3(B) 14=-197(B) 13=-19 3=-203(B) 34=-203(B) 3 f) to-8=-181 alanced): Lumber Increa 3, 9-16=-20 lb) 2(B) 14=-164(B) 13=-16 3=-169(B) 34=-169(B) 3	ase=1.15, Plate Increase=1.15 4(B) 11=-169(B) 23=-143(B) 24=-143(B)	,	, , ,		,
Uniform Loads (plf) Vert: 1-22=- Concentrated Loads Vert: 16=-17 32=-203(B)	to-8=-143 erhangs: Lumber Increa 30, 9-16=-20 (lb) 78(B) 14=-197(B) 13=-1 33=-203(B) 34=-203(B)	97(B) 11=-203(B) 23=-169(B) 24=-169(B) 35=-203(B) 36=-203(B)		B) 27=-169	9(B) 28=-197(B) 29=-197(B) 30=-197(E	B) 31=-197(B)
Uniform Loads (plf) Vert: 1-22=- Horz: 1-16= Concentrated Loads Vert: 16=26	0-(o-8=-150 bal.) + 0.75(0.6 MWFRS -54, 9-16=-20 21, 1-8=1, 8-9=6, 8-17= (lb) 6(B) 14=516(B) 13=515 34=498(B) 35=497(B) 36 bif)	(B) 11=499(B) 23=275(B) 24=274(B) 25=			=515(B) 29=515(B) 30=514(B) 31=514	4(B) 32=499(B)
Uniform Loads (plf) Vert: 1-22=-	bal.) + 0.75(0.6 MWFRS 54, 9-16=-20 -6, 1-8=1, 8-9=-21, 8-17	Wind (Neg. Int) Right): Lumber Increase	e=1.60, Plate Increase	=1.60		

Vert: 16=266(B) 14=516(B) 13=515(B) 11=499(B) 23=275(B) 24=274(B) 25=274(B) 26=274(B) 27=273(B) 28=515(B)

29=515(B) 30=514(B) 31=514(B) 32=499(B) 33=498(B) 34=498(B) 35=497(B) 36=497(B)

Trapezoidal Loads (plf)

Vert: 22=-54-to-8=-144

18) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-22=-54, 9-16=-20

Horz: 1-16=-10, 1-8=1, 8-9=10, 8-17=25

Concentrated Loads (lb)

Vert: 16=266(B) 14=516(B) 13=515(B) 11=499(B) 23=275(B) 24=274(B) 25=274(B) 26=274(B) 27=273(B) 28=515(B)

29=515(B) 30=514(B) 31=514(B) 32=499(B) 33=498(B) 34=498(B) 35=497(B) 36=497(B)

Trapezoidal Loads (plf)

Vert: 22=-54-to-8=-144

19) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf) Vert: 1-22=-54, 9-16=-20

Horz: 1-16=-10, 1-8=1, 8-9=10, 8-17=25

Concentrated Loads (lb)

Vert: 16=266(B) 14=516(B) 13=515(B) 11=499(B) 23=275(B) 24=274(B) 25=274(B) 26=274(B) 27=273(B) 28=515(B) 28=273(B) 28=273(B)

29=515(B) 30=514(B) 31=514(B) 32=499(B) 33=498(B) 34=498(B) 35=497(B) 36=497(B)

Trapezoidal Loads (plf)

Vert: 22=-54-to-8=-144



besign value for use only with rease connectors. This design is based only upon parameters shown, and is for an individual rotating 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

ANSITPIT 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	Streets of West Pryor	
						I42113121
B400088	A11	Monopitch Girder	1	2	2 Job Reference (optional)	
Wheeler Lumber, Waverl	y, KS 66871, Mitek		ID:yyQ78agb1Zlu	wnWc1etT	8.410 s May 22 2020 MiTek Industries, Inc Pnz53bT-dZ?Y0RygDuyDG_wHQ3D6N	
LOAD CASE(S) St	andard					
24) Dead + Minimur	n Snow: Lumber Increas	e=1.15, Plate Increase=1.15				
Uniform Loads (	plf)					
Vert: 1-	22=-70, 9-16=-20					
Concentrated Lo	oads (lb)					
Vert: 16	i=-178(B) 14=-197(B) 13	=-197(B) 11=-203(B) 23=-169(B) 24=-169(B	) 25=-169(B) 26=-169(	(B) 27=-16	69(B) 28=-197(B) 29=-197(B) 30=-19	7(B) 31=-197(B)
32=-203	3(B) 33=-203(B) 34=-203	(B) 35=-203(B) 36=-203(B)				
Trapezoidal Loa						
	!=-70-to-8=-190					
,	` '	5(0.6 MWFRS Wind (Neg. Int) Left): Lumber	Increase=1.60, Plate	Increase=	-1.60	
Uniform Loads (						
	22=-54, 9-16=-20					
	-16=21, 1-8=1, 8-9=6, 8-	17=38				
Concentrated Lo	` '	===(=)	\			7(5) 64 767(5)
	. , . , , , , , , , , , , , , , , , , ,	=-708(B) 11=-699(B) 23=-436(B) 24=-436(B	) 25=-435(B) 26=-435(	(B) 27=-43	35(B) 28=-708(B) 29=-708(B) 30=-70	7(B) 31=-707(B)
	( )	(B) 35=-697(B) 36=-697(B)				
Trapezoidal Loa	as (pir) !=-54-to-8=-144					
		5(0.6 MWFRS Wind (Neg. Int) Right): Lumbe	In		-1.60	
Uniform Loads (	` '	o(0.6 MWFR3 Wind (Neg. IIII) Right). Lumbi	ei iliciease– 1.60, Flate	Hicrease	= 1.00	
	22=-54, 9 <b>-</b> 16=-20					
	-16=-6, 1-8=1, 8-9=-21, 8	-1738				
Concentrated Lo		-1730				
		=-708(B) 11=-699(B) 23=-436(B) 24=-436(B	) 25=-435(B) 26=-435(	B) 27=-43	35(B) 28=-708(B) 29=-708(B) 30=-70	7(B) 31=-707(B)
		(B) 35=-697(B) 36=-697(B)	7 20- 400(B) 20-400(	(0) 21 40	33(B) 20= 133(B) 29=-100(B) 30=-10	(0)01-101(0)

Trapezoidal Loads (plf)

Vert: 22=-54-to-8=-144

41) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-22=-54, 9-16=-20

Horz: 1-16=-10, 1-8=1, 8-9=10, 8-17=25

Concentrated Loads (lb)

Vert: 16=-445(B) 14=-709(B) 13=-708(B) 11=-699(B) 23=-436(B) 24=-436(B) 25=-435(B) 26=-435(B) 27=-435(B) 28=-708(B) 29=-708(B) 30=-707(B) 31=-707(B) 32=-698(B) 33=-698(B) 34=-698(B) 35=-697(B) 36=-697(B)

Trapezoidal Loads (plf)

Vert: 22=-54-to-8=-144

42) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-22=-54, 9-16=-20

Horz: 1-16=-10, 1-8=1, 8-9=10, 8-17=25

Concentrated Loads (lb)

 $Vert: 16 = -44 \overset{\circ}{\mathsf{D}}(\overset{\circ}{\mathsf{B}}) \ 14 = -709(\texttt{B}) \ 13 = -708(\texttt{B}) \ 13 = -708(\texttt{B}) \ 13 = -707(\texttt{B}) \ 32 = -436(\texttt{B}) \ 25 = -435(\texttt{B}) \ 26 = -435(\texttt{B}) \ 27 = -435(\texttt{B}) \ 28 = -708(\texttt{B}) \ 29 = -708(\texttt{B}) \ 30 = -707(\texttt{B}) \ 31 = -707(\texttt{B}) \ 32 = -698(\texttt{B}) \ 33 = -698(\texttt{B}) \ 34 = -698(\texttt{B}) \ 35 = -697(\texttt{B}) \ 36 = -$ 

Trapezoidal Loads (plf)

Vert: 22=-54-to-8=-144

Job Truss Truss Type Qty Streets of West Pryor 142113122 B400088 J1 Flat Supported Gable Job Reference (optional)

Waverly, KS - 66871, Wheeler Lumber.

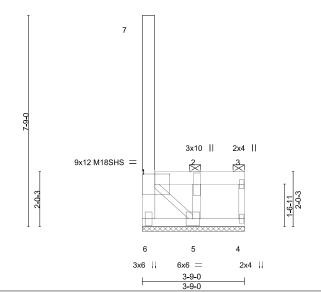
8.410 s May 22 2020 MiTek Industries, Inc. Tue Jul 21 13:44:59 2020 Page 1 ID:yyQ78agb1ZluwnWc1etTPnz53bT-1V9syarUGm?uVOW6znfK7HH7P7Q?dq0ds?5F8KyvqBI

2-0-0 oc purlins: 1-7, 1-3, except end verticals.

Rigid ceiling directly applied or 6-1-6 oc bracing.

3-9-0

Scale = 1:42.3



riale Offsels (A, I)	[1.0-0-0,0-4-0]
LOADING (not)	

LOADING (psf) TCLL (roof) 20.0 Snow (Pf/Pg) 20.4/20.0 TCDL 15.0	SPACING-         2-0-0           Plate Grip DOL         1.15           Lumber DOL         1.15           Rep Stress Incr         NO	CSI. TC 0.97 BC 0.11 WB 0.31	DEFL.         in (loc)         l/defl         L/d           Vert(LL)         n/a         -         n/a         999           Vert(CT)         n/a         -         n/a         999           Horz(CT)         -         0.00         4         n/a         n/a	PLATES         GRIP           MT20         197/144           M18SHS         197/144
BCLL 0.0 * BCDL 10.0	Code IBC2018/TPI2014	WB 0.31 Matrix-P	Horz(CT) -0.00 4 n/a n/a	Weight: 28 lb FT = 10%

**BRACING-**

TOP CHORD

**BOT CHORD** 

LUMBER-

**WEBS** 

TOP CHORD 2x6 SPF No.2 **BOT CHORD** 2x4 SPF No.2

2x3 SPF No.2 \*Except\* 6-7: 2x6 SPF 1650F 1.4E

**OTHERS** 2x4 SPF No.2

REACTIONS. (size) 6=3-9-0, 4=3-9-0, 5=3-9-0

Max Horz 6=-360(LC 10)

Max Uplift 6=-877(LC 10), 4=-68(LC 10), 5=-947(LC 11) Max Grav 6=905(LC 13), 4=101(LC 20), 5=1034(LC 12)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 1-6=-1333/885 BOT CHORD 5-6=-953/578

2-5=-466/838, 1-5=-775/1269 **WEBS** 

# 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; B=80ft; L=40ft; eave=2ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Corner(3) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss 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.
- 4) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- 5) Provide adequate drainage to prevent water ponding.
- 6) All plates are MT20 plates unless otherwise indicated.
- 7) Gable requires continuous bottom chord bearing.
- 8) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 9) Gable studs spaced at 2-0-0 oc
- 10) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 11) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4 except (jt=lb) 6=877, 5=947. 13) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI
- 14) Load case(s) 1, 4, 19, 20, 21, 22, 27 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

Oஞ்) பெற்ற முற்ற முற்ற பிற்ற முற்ற பிற்ற முற்ற பிற்ற பிற்ற



ROTES SIONAL

OF MISSO

ANDREW

**THOMAS** 

JOHNSON

NUMBER

PE-2017018993

July 21,2020

🗥 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

Job	Truss	Truss Type	Qty	Ply	Streets of West Pryor
					I42113122
B400088	J1	Flat Supported Gable	1	1	
					Job Reference (optional)

Waverly, KS - 66871,

8.410 s May 22 2020 MiTek Industries, Inc. Tue Jul 21 13:44:59 2020 Page 2 ID:yyQ78agb1ZluwnWc1etTPnz53bT-1V9syarUGm?uVOW6znfK7HH7P7Q?dq0ds?5F8KyvqBI

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 4-6=-20

Trapezoidal Loads (plf)

Vert: 1=-131-to-3=-71

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 4-6=-20

Trapezoidal Loads (plf)

Vert: 1=-106-to-3=-61

19) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 4-6=-20

Horz: 1-6=21, 1-7=38, 3-4=6

Trapezoidal Loads (plf)

Vert: 1=-106-to-3=-61

20) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 4-6=-20

Horz: 1-6=-6, 1-7=-38, 3-4=-21

Trapezoidal Loads (plf)

Vert: 1=-106-to-3=-61

21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 4-6=-20

Horz: 1-6=-10, 1-7=-25, 3-4=10

Trapezoidal Loads (plf) Vert: 1=-106-to-3=-61

22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 4-6=-20

Horz: 1-6=-10, 1-7=-25, 3-4=10

Trapezoidal Loads (plf)

Vert: 1=-106-to-3=-61

27) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 4-6=-20

Trapezoidal Loads (plf)

Vert: 1=-130-to-3=-70

Job Truss Truss Type Qty Streets of West Pryor 142113123 B400088 J2 Flat Job Reference (optional)

Wheeler Lumber.

Waverly, KS - 66871,

8.410 s May 22 2020 MiTek Industries, Inc. Tue Jul 21 13:45:31 2020 Page 1 ID:yyQ78agb1ZluwnWc1etTPnz53bT-5f5zgXEZkb1LLJyGrVEqQ1bdL1Kb7lcKD\_ryFTyvqAo

2-0-0 oc purlins: 1-5, 1-2, except end verticals.

Rigid ceiling directly applied or 5-10-15 oc bracing.

3-9-0

Scale = 1:42.3

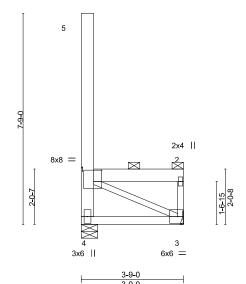


Plate Offsets (X,Y) [	1:0-3-8,0-5-0]
-----------------------	----------------

LOADING (psf) TCLL (roof) 20.0 Snow (Pf/Pg) 20.4/20.0 TCDL 15.0	SPACING-         2-0-0           Plate Grip DOL         1.15           Lumber DOL         1.15	CSI. TC 0.84 BC 0.17	<b>DEFL.</b> i Vert(LL) -0.0 Vert(CT) -0.0	2 3-4	I/defI >999 >999	L/d 360 240	PLATES MT20	<b>GRIP</b> 197/144
BCLL 0.0 * BCDL 10.0	Rep Stress Incr NO Code IBC2018/TPI2014	WB 0.27 Matrix-P	Horz(CT) -0.0 Wind(LL) 0.0	-	n/a ****	n/a 240	Weight: 27 lb	FT = 10%

**BRACING-**

TOP CHORD

**BOT CHORD** 

LUMBER-

TOP CHORD 2x6 SPF No.2 BOT CHORD 2x4 SPF No.2 WEBS 2x3 SPF No.2 \*Except\* 4-5: 2x6 SPF 1650F 1.4E

REACTIONS.

(size) 4=0-7-4, 3=Mechanical

Max Horz 4=360(LC 11)

Max Uplift 4=-437(LC 10), 3=-437(LC 11) Max Grav 4=508(LC 13), 3=508(LC 12)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

1-4=-619/467, 2-3=-184/285 TOP CHORD

**BOT CHORD** 3-4=-1007/678 **WEBS** 1-3=-746/1095

- 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; B=80ft; L=40ft; eave=5ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Corner(3) zone; cantilever left and right exposed; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- 4) Provide adequate drainage to prevent water ponding.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Refer to girder(s) for truss to truss connections.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=437, 3=437.
- 9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1. 10) Load case(s) 1, 4, 19, 20, 21, 22, 27 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

# LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf) Vert: 3-4=-20



OF MISSO

ANDREW

**THOMAS** 

NUMBER

PE-2017018993

JOHNSC







Job	Truss	Truss Type	Qty	Ply	Streets of West Pryor	
						I42113123
B400088	J2	Flat	1	1		
					Job Reference (optional)	

Waverly, KS - 66871,

8.410 s May 22 2020 MiTek Industries, Inc. Tue Jul 21 13:45:31 2020 Page 2 ID:yyQ78agb1ZluwnWc1etTPnz53bT-5f5zgXEZkb1LLJyGrVEqQ1bdL1Kb7lcKD\_ryFTyvqAo

## LOAD CASE(S) Standard

Trapezoidal Loads (plf)

Vert: 1=-131-to-2=-71

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 3-4=-20

Trapezoidal Loads (plf) Vert: 1=-106-to-2=-61

19) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 3-4=-20

Horz: 1-4=21, 1-5=38, 2-3=6

Trapezoidal Loads (plf)

Vert: 1=-106-to-2=-61

20) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 3-4=-20

Horz: 1-4=-6, 1-5=-38, 2-3=-21

Trapezoidal Loads (plf)

Vert: 1=-106-to-2=-61

21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 3-4=-20

Horz: 1-4=-10, 1-5=-25, 2-3=10

Trapezoidal Loads (plf)

Vert: 1=-106-to-2=-61

22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 3-4=-20

Horz: 1-4=-10, 1-5=-25, 2-3=10

Trapezoidal Loads (plf)

Vert: 1=-106-to-2=-61

27) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 3-4=-20

Trapezoidal Loads (plf)

Job Truss Truss Type Qty Streets of West Pryor 142113124 Flat B400088 J3 Job Reference (optional)

Wheeler Lumber.

Waverly, KS - 66871,

8.410 s May 22 2020 MiTek Industries, Inc. Tue Jul 21 13:45:55 2020 Page 1 ID:yyQ78agb1ZluwnWc1etTPnz53bT-OGY1ikXd4z3xD?otFYfSP5bkXiWFI9eskjfD54yvqAQ

2-0-0 oc purlins: 1-5, 1-2, except end verticals.

Rigid ceiling directly applied or 5-11-11 oc bracing.

3-9-0

Scale = 1:42.3

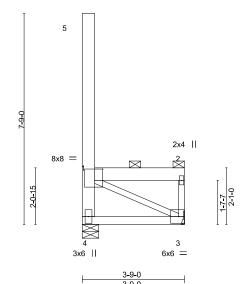


Plate Offsets	(X,Y)	[1:0-3-8,0-5-0]

11000000 (71,1) [1.000,0	3 0 0]			
LOADING (psf) TCLL (roof) 20.0 Snow (Pf/Pa) 20.4/20.0	SPACING- 2-0-0 Plate Grip DOL 1.15	<b>CSI.</b> TC 0.83	<b>DEFL.</b> in (loc) I/defl L/d Vert(LL) -0.01 3-4 >999 360	<b>PLATES GRIP</b> MT20 197/144
` 3,	Lumber DOL 1.15	BC 0.17	Vert(CT) -0.02 3-4 >999 240	
TCDL 15.0	Rep Stress Incr NO	WB 0.27	Horz(CT) -0.00 3 n/a n/a	
BCLL 0.0 *	Code IBC2018/TPI2014	Matrix-P	Wind(LL) 0.00 4 **** 240	Weight: 27 lb FT = 10%

**BRACING-**

TOP CHORD

**BOT CHORD** 

LUMBER-

TOP CHORD 2x6 SPF No.2 **BOT CHORD** 2x4 SPF No.2 WEBS 2x3 SPF No.2 \*Except\* 4-5: 2x6 SPF 1650F 1.4E

REACTIONS.

(size) 4=0-7-4, 3=Mechanical Max Horz 4=-359(LC 10)

Max Uplift 4=-437(LC 10), 3=-437(LC 11) Max Grav 4=508(LC 13), 3=508(LC 12)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

1-4=-616/467, 2-3=-183/284 TOP CHORD

**BOT CHORD** 3-4=-985/662 **WEBS** 1-3=-732/1075

- 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; b=25ft; B=80ft; L=40ft; eave=5ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Corner(3) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- 4) Provide adequate drainage to prevent water ponding.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Refer to girder(s) for truss to truss connections.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=437, 3=437.
- 9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1. 10) Load case(s) 1, 4, 19, 20, 21, 22, 27 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

# LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf) Vert: 3-4=-20

Continued on page 2



July 21,2020





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

ANSITPH 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	Streets of West Pryor	
						I42113124
B400088	J3	Flat	1	1		
					Job Reference (optional)	

Waverly, KS - 66871,

8.410 s May 22 2020 MiTek Industries, Inc. Tue Jul 21 13:45:55 2020 Page 2 ID:yyQ78agb1ZluwnWc1etTPnz53bT-OGY1ikXd4z3xD?otFYfSP5bkXiWFI9eskjfD54yvqAQ

#### LOAD CASE(S) Standard

Trapezoidal Loads (plf)

Vert: 1=-131-to-2=-71

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 3-4=-20

Trapezoidal Loads (plf)

Vert: 1=-106-to-2=-61

19) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 3-4=-20

Horz: 1-4=21, 1-5=38, 2-3=6

Trapezoidal Loads (plf)

Vert: 1=-106-to-2=-61

20) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 3-4=-20

Horz: 1-4=-6, 1-5=-38, 2-3=-21

Trapezoidal Loads (plf)

Vert: 1=-106-to-2=-61

21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf) Vert: 3-4=-20

Horz: 1-4=-10, 1-5=-25, 2-3=10

Trapezoidal Loads (plf) Vert: 1=-106-to-2=-61

22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 3-4=-20

Horz: 1-4=-10, 1-5=-25, 2-3=10

Trapezoidal Loads (plf)

Vert: 1=-106-to-2=-61

27) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 3-4=-20

Trapezoidal Loads (plf)

Vert: 1=-130-to-2=-70



Job Truss Truss Type Qty Streets of West Pryor 142113125 Flat B400088 J4 Job Reference (optional)

Wheeler Lumber.

Waverly, KS - 66871,

8.410 s May 22 2020 MiTek Industries, Inc. Tue Jul 21 13:46:05 2020 Page 1 ID:yyQ78agb1ZluwnWc1etTPnz53bT-5B8pp9euj2JWQXYoqeropC?RFkxd4hBK2H4lSVyvqAG

2-0-0 oc purlins: 1-5, 1-2, except end verticals.

Rigid ceiling directly applied or 6-0-7 oc bracing.

3-9-0

Scale = 1:42.3

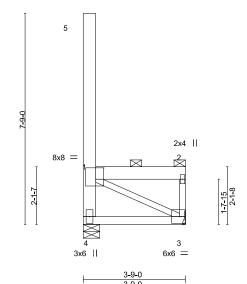


Plate Offset	s (X,Y)	[1:0-3-8,0-5-0]

That's shoots (right) [110 0 0]	<u> </u>			
LOADING (psf) TCLL (roof) 20.0	SPACING- 2-0-0 Plate Grip DOL 1.15	<b>CSI.</b> TC 0.81	DEFL.         in (loc)         l/defl         L/d         PLATES         GRI           Vert(LL)         -0.01         3-4         >999         360         MT20         197	I <b>P</b> /144
Snow (Pf/Pg) 20.4/20.0 TCDL 15.0	Lumber DOL 1.15	BC 0.16	Vert(CT) -0.02 3-4 >999 240	
BCLL 0.0 *	Rep Stress Incr NO Code IBC2018/TPI2014	WB 0.26 Matrix-P	Horz(CT) -0.00 3 n/a n/a Wind(LL) 0.00 4 **** 240 Weight: 27 lb	FT = 10%
BCDL 10.0	Code 1BC2010/11 12014	IVIALITA-I	Wind(LL) 0.00 4 240 Weight. 27 ib	1 - 1076

**BRACING-**

TOP CHORD

**BOT CHORD** 

LUMBER-

TOP CHORD 2x6 SPF No.2 **BOT CHORD** 2x4 SPF No.2 WEBS 2x3 SPF No.2 \*Except\*

4-5: 2x6 SPF 1650F 1.4E

REACTIONS. (size) 4=0-7-4, 3=Mechanical

Max Horz 4=-358(LC 10)

Max Uplift 4=-437(LC 10), 3=-437(LC 11) Max Grav 4=507(LC 13), 3=507(LC 12)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 1-4=-613/468, 2-3=-183/284

**BOT CHORD** 3-4=-964/647 **WEBS** 1-3=-719/1057

- 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; b=25ft; B=80ft; L=40ft; eave=5ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Corner(3) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- 4) Provide adequate drainage to prevent water ponding.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Refer to girder(s) for truss to truss connections.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=437, 3=437.
- 9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1. 10) Load case(s) 1, 4, 19, 20, 21, 22, 27 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

# LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf) Vert: 3-4=-20



OF MISSO

ANDREW

**THOMAS** 

JOHNSO!

NUMBER

PE-2017018993







Job	Truss	Truss Type	Qty	Ply	Streets of West Pryor	
						42113125
B400088	J4	Flat	1	1		
					Job Reference (optional)	

Waverly, KS - 66871,

8.410 s May 22 2020 MiTek Industries, Inc. Tue Jul 21 13:46:05 2020 Page 2 ID:yyQ78agb1ZluwnWc1etTPnz53bT-5B8pp9euj2JWQXYoqeropC?RFkxd4hBK2H4ISVyvqAG

## LOAD CASE(S) Standard

Trapezoidal Loads (plf)

Vert: 1=-131-to-2=-71

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 3-4=-20 Trapezoidal Loads (plf)

Vert: 1=-106-to-2=-61

19) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 3-4=-20

Horz: 1-4=21, 1-5=38, 2-3=6

Trapezoidal Loads (plf)

Vert: 1=-106-to-2=-61

20) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 3-4=-20

Horz: 1-4=-6, 1-5=-38, 2-3=-21

Trapezoidal Loads (plf)

Vert: 1=-106-to-2=-61

21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf) Vert: 3-4=-20

Horz: 1-4=-10, 1-5=-25, 2-3=10

Trapezoidal Loads (plf)

Vert: 1=-106-to-2=-61

22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 3-4=-20

Horz: 1-4=-10, 1-5=-25, 2-3=10

Trapezoidal Loads (plf)

Vert: 1=-106-to-2=-61

27) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 3-4=-20

Trapezoidal Loads (plf)

Vert: 1=-130-to-2=-70

Job Truss Truss Type Qty Streets of West Pryor 142113126 Flat B400088 J5 Job Reference (optional)

Wheeler Lumber.

Waverly, KS - 66871,

8.410 s May 22 2020 MiTek Industries, Inc. Tue Jul 21 13:46:16 2020 Page 1 ID:yyQ78agb1ZluwnWc1etTPnz53bT-HJJz6vno7QiyEDuw SXOIXzKiAhF9fzyaUFqLNyvqA5

2-0-0 oc purlins: 1-5, 1-2, except end verticals.

Rigid ceiling directly applied or 6-1-3 oc bracing.

3-9-0

Scale = 1:42.3

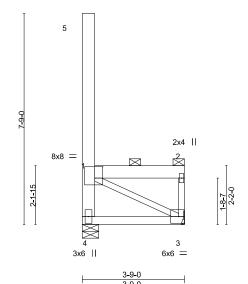


Plate Offsets	(X,Y)	[1:0-3-8,0-5-0]

LOADING (psf) TCLL (roof) 20.0 Snow (Pf/Pg) 20.4/20.0 TCDL 15.0	SPACING-         2-0-0           Plate Grip DOL         1.15           Lumber DOL         1.15	CSI. TC 0.80 BC 0.16	DEFL.         in (loc)         l/de           Vert(LL)         -0.01         3-4         >99           Vert(CT)         -0.02         3-4         >99	99 360 99 240	PLATES MT20	<b>GRIP</b> 197/144
BCLL 0.0 * BCDL 10.0	Rep Stress Incr NO Code IBC2018/TPI2014	WB 0.26 Matrix-P		n/a n/a *** 240	Weight: 27 lb	FT = 10%

**BRACING-**

TOP CHORD

**BOT CHORD** 

LUMBER-

TOP CHORD 2x6 SPF No.2 **BOT CHORD** 2x4 SPF No.2 WEBS 2x3 SPF No.2 \*Except\* 4-5: 2x6 SPF 1650F 1.4E

REACTIONS.

(size) 4=0-7-4, 3=Mechanical

Max Horz 4=-358(LC 10)

Max Uplift 4=-437(LC 10), 3=-437(LC 11) Max Grav 4=507(LC 13), 3=507(LC 12)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

1-4=-610/469, 2-3=-183/283 TOP CHORD

**BOT CHORD** 3-4=-944/633 **WEBS** 1-3=-707/1039

- 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; B=80ft; L=40ft; eave=5ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Corner(3) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- 4) Provide adequate drainage to prevent water ponding.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Refer to girder(s) for truss to truss connections.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=437, 3=437.
- 9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1. 10) Load case(s) 1, 4, 19, 20, 21, 22, 27 has/have been modified. Building designer must review loads to verify that they are correct for
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

# LOAD CASE(S) Standard

the intended use of this truss.

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf) Vert: 3-4=-20



OF MISSO

ANDREW

**THOMAS** 

OHNSON

NUMBER

PE-2017018993







Job	Truss	Truss Type	Qty	Ply	Streets of West Pryor
B400088	15	First	_		I42113126
B400088	Jo	Flat		'	Job Reference (optional)

Waverly, KS - 66871,

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## LOAD CASE(S) Standard

Trapezoidal Loads (plf)

Vert: 1=-131-to-2=-71

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 3-4=-20

Trapezoidal Loads (plf)

Vert: 1=-106-to-2=-61

19) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 3-4=-20

Horz: 1-4=21, 1-5=38, 2-3=6

Trapezoidal Loads (plf)

Vert: 1=-106-to-2=-61

20) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 3-4=-20

Horz: 1-4=-6, 1-5=-38, 2-3=-21

Trapezoidal Loads (plf)

Vert: 1=-106-to-2=-61

21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 3-4=-20

Horz: 1-4=-10, 1-5=-25, 2-3=10

Trapezoidal Loads (plf)

Vert: 1=-106-to-2=-61

22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 3-4=-20

Horz: 1-4=-10, 1-5=-25, 2-3=10

Trapezoidal Loads (plf)

Vert: 1=-106-to-2=-61

27) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 3-4=-20

Trapezoidal Loads (plf)

Vert: 1=-130-to-2=-70

Job Truss Truss Type Qty Streets of West Pryor 142113127 Flat B400088 J6

Wheeler Lumber. Waverly, KS - 66871, Job Reference (optional)

8.410 s May 22 2020 MiTek Industries, Inc. Tue Jul 21 13:46:21 2020 Page 1 ID:yyQ78agb1ZluwnWc1etTPnz53bT-dG6sAdrwyyKFK ntm07ZSagAfBORqxHhjmzb0ayvqA0

2-0-0 oc purlins: 1-5, 1-2, except end verticals.

Rigid ceiling directly applied or 6-1-15 oc bracing.

3-9-0

Scale = 1:42.3

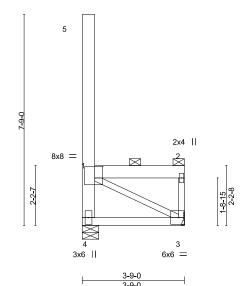


Plate Offsets	(X,Y)	[1:0-3-8,0-5-0]

LOADING (psf) TCLL (roof) 20.0 Snow (Pf/Pg) 20.4/20.0 TCDL 15.0 BCLL 0.0 *	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr NO Code IBC2018/TPI2014	CSI. TC 0.78 BC 0.16 WB 0.25 Matrix-P	DEFL.         in           Vert(LL)         -0.01           Vert(CT)         -0.02           Horz(CT)         -0.00           Wind(LL)         0.00	(loc) 3-4 3-4 3	I/defI >999 >999 n/a	L/d 360 240 n/a	PLATES MT20	<b>GRIP</b> 197/144
BCDL 10.0	Code IBC2018/1PI2014	Matrix-P	Wind(LL) 0.00	4		240	Weight: 28 lb	F1 = 10%

**BRACING-**

TOP CHORD

**BOT CHORD** 

LUMBER-

TOP CHORD 2x6 SPF No.2 **BOT CHORD** 2x4 SPF No.2 WEBS 2x3 SPF No.2 \*Except\*

4-5: 2x6 SPF 1650F 1.4E

REACTIONS. (size) 4=0-7-4, 3=Mechanical

Max Horz 4=-357(LC 10)

Max Uplift 4=-436(LC 10), 3=-436(LC 11) Max Grav 4=507(LC 13), 3=507(LC 12)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

1-4=-607/470, 2-3=-182/282 TOP CHORD

**BOT CHORD** 3-4=-925/620 **WEBS** 1-3=-695/1022

- 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; b=25ft; B=80ft; L=40ft; eave=5ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Corner(3) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- 4) Provide adequate drainage to prevent water ponding.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Refer to girder(s) for truss to truss connections.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=436, 3=436.
- 9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1. 10) Load case(s) 1, 4, 19, 20, 21, 22, 27 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

# LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf) Vert: 3-4=-20



OF MISSOC

ANDREW

THOMAS

NUMBER

PE-2017018993





Job	Truss	Truss Type	Qty	Ply	Streets of West Pryor
B400088	le .	Flot	,	1	I42113127
B400000	J6	Flat 		'	Job Reference (optional)

Waverly, KS - 66871,

8.410 s May 22 2020 MiTek Industries, Inc. Tue Jul 21 13:46:21 2020 Page 2 ID:yyQ78agb1ZIuwnWc1etTPnz53bT-dG6sAdrwyyKFK\_ntm07ZSagAfBORqxHhjmzb0ayvqA0

## LOAD CASE(S) Standard

Trapezoidal Loads (plf)

Vert: 1=-131-to-2=-71

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 3-4=-20 Trapezoidal Loads (plf)

Vert: 1=-106-to-2=-61

19) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 3-4=-20

Horz: 1-4=21, 1-5=38, 2-3=6

Trapezoidal Loads (plf)

Vert: 1=-106-to-2=-61

20) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 3-4=-20

Horz: 1-4=-6, 1-5=-38, 2-3=-21

Trapezoidal Loads (plf)

Vert: 1=-106-to-2=-61

21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf) Vert: 3-4=-20

Horz: 1-4=-10, 1-5=-25, 2-3=10

Trapezoidal Loads (plf)

Vert: 1=-106-to-2=-61

22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 3-4=-20

Horz: 1-4=-10, 1-5=-25, 2-3=10

Trapezoidal Loads (plf)

Vert: 1=-106-to-2=-61

27) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 3-4=-20

Trapezoidal Loads (plf)

Vert: 1=-130-to-2=-70

Job Truss Truss Type Qty Streets of West Pryor 142113128 J7 Flat B400088 Job Reference (optional)

Wheeler Lumber.

Waverly, KS - 66871,

8.410 s May 22 2020 MiTek Industries, Inc. Tue Jul 21 13:46:22 2020 Page 1 ID:yyQ78agb1ZluwnWc1etTPnz53bT-5TgENzsYjGS6y8M3Kjeo?oDLeakiZOaryQi8Y0yvqA?

2-0-0 oc purlins: 1-5, 1-2, except end verticals.

Rigid ceiling directly applied or 6-2-10 oc bracing.

3-9-0

Scale = 1:42.3

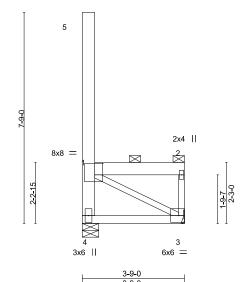


Plate Offsets (X,Y) [1:0-3-8,0	0-5-0]			
LOADING (psf) TCLL (roof) 20.0 Snow (Pf/Pg) 20.4/20.0 TCDL 15.0 BCLL 0.0 *	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr NO Code IBC2018/TPI2014	CSI. TC 0.77 BC 0.16 WB 0.25 Matrix-P	DEFL.         in (loc)         l/defl         L/d         PLATES         GRIP           Vert(LL)         -0.01         3-4         >999         360         MT20         197/1-           Vert(CT)         -0.02         3-4         >999         240           Horz(CT)         -0.00         3         n/a         n/a           Wind(LL)         0.00         4         ******         240         Weight: 28 lb         FT	44 - = 10%
BCDL 10.0				

**BRACING-**

TOP CHORD

**BOT CHORD** 

LUMBER-

TOP CHORD 2x6 SPF No.2 **BOT CHORD** 2x4 SPF No.2 WEBS 2x3 SPF No.2 \*Except\*

4-5: 2x6 SPF 1650F 1.4E

REACTIONS. (size) 4=0-7-4, 3=Mechanical

Max Horz 4=-357(LC 12)

Max Uplift 4=-436(LC 10), 3=-436(LC 11) Max Grav 4=506(LC 13), 3=506(LC 12)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

1-4=-604/470, 2-3=-182/281 TOP CHORD

**BOT CHORD** 3-4=-907/607 **WEBS** 1-3=-684/1006

- 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; b=25ft; B=80ft; L=40ft; eave=5ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Corner(3) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- 4) Provide adequate drainage to prevent water ponding.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Refer to girder(s) for truss to truss connections.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=436, 3=436.
- 9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1. 10) Load case(s) 1, 4, 19, 20, 21, 22, 27 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

# LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf) Vert: 3-4=-20



OF MISSO

ANDREW

**THOMAS** 

JOHNSON

NUMBER

PE-2017018993







Job	Truss	Truss Type	Qty	Ply	Streets of West Pryor
					I42113128
B400088	J7	Flat	1	1	
					Job Reference (optional)

Waverly, KS - 66871,

8.410 s May 22 2020 MiTek Industries, Inc. Tue Jul 21 13:46:22 2020 Page 2 ID:yyQ78agb1ZluwnWc1etTPnz53bT-5TgENzsYjGS6y8M3Kjeo?oDLeakiZOaryQi8Y0yvqA?

## LOAD CASE(S) Standard

Trapezoidal Loads (plf)

Vert: 1=-131-to-2=-71

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 3-4=-20

Trapezoidal Loads (plf)

Vert: 1=-106-to-2=-61

19) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 3-4=-20

Horz: 1-4=21, 1-5=38, 2-3=6

Trapezoidal Loads (plf)

Vert: 1=-106-to-2=-61

20) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 3-4=-20

Horz: 1-4=-6, 1-5=-38, 2-3=-21

Trapezoidal Loads (plf)

Vert: 1=-106-to-2=-61

21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 3-4=-20

Horz: 1-4=-10, 1-5=-25, 2-3=10

Trapezoidal Loads (plf)

Vert: 1=-106-to-2=-61

22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 3-4=-20

Horz: 1-4=-10, 1-5=-25, 2-3=10

Trapezoidal Loads (plf)

Vert: 1=-106-to-2=-61

27) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 3-4=-20

Trapezoidal Loads (plf)

Vert: 1=-130-to-2=-70

Job Truss Truss Type Qty Streets of West Pryor 142113129 B400088 J8 Flat Job Reference (optional)

Wheeler Lumber.

Waverly, KS - 66871,

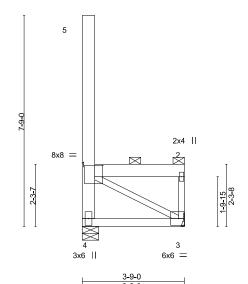
8.410 s May 22 2020 MiTek Industries, Inc. Tue Jul 21 13:46:22 2020 Page 1 ID:yyQ78agb1ZluwnWc1etTPnz53bT-5TgENzsYjGS6y8M3Kjeo?oDMsakkZOeryQi8Y0yvqA?

2-0-0 oc purlins: 1-5, 1-2, except end verticals.

Rigid ceiling directly applied or 6-3-6 oc bracing.

3-9-0

Scale = 1:42.3



LOADING (psf) TCLL (roof) 20.0 Snow (Pf/Pg) 20.4/20.0 TCDL 15.0	SPACING-         2-0-0           Plate Grip DOL         1.15           Lumber DOL         1.15	CSI. TC 0.75 BC 0.15	Vert(CT) -0	0.02	oc) I/def 3-4 >999 3-4 >999	360 240	PLATES MT20	<b>GRIP</b> 197/144
BCLL 0.0 * BCDL 10.0	Rep Stress Incr NO Code IBC2018/TPI2014	WB 0.24 Matrix-P	\ /	0.00 0.00	3 n/a 4 ****		Weight: 28 lb	FT = 10%

**BRACING-**

TOP CHORD

**BOT CHORD** 

LUMBER-

2x6 SPF No.2 TOP CHORD **BOT CHORD** 2x4 SPF No.2 WEBS 2x3 SPF No.2 \*Except\*

4-5: 2x6 SPF 1650F 1.4E

REACTIONS. (size) 4=0-7-4, 3=Mechanical

Max Horz 4=356(LC 11)

Max Uplift 4=-436(LC 10), 3=-436(LC 11) Max Grav 4=506(LC 13), 3=506(LC 12)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

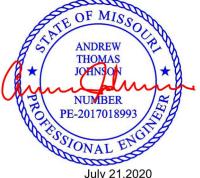
1-4=-601/471, 2-3=-182/280 TOP CHORD

**BOT CHORD** 3-4=-890/595 **WEBS** 1-3=-673/991

- 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; b=25ft; B=80ft; L=40ft; eave=5ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Corner(3) zone; cantilever left and right exposed; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- 4) Provide adequate drainage to prevent water ponding.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Refer to girder(s) for truss to truss connections.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=436, 3=436.
- 9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1. 10) Load case(s) 1, 4, 19, 20, 21, 22, 27 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

# LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf) Vert: 3-4=-20



July 21,2020





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

ANSITPH 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	Streets of West Pryor
B400088	10	Flot	1	1	I42113129
B400000	J0	Flat 		'	Job Reference (optional)

Waverly, KS - 66871,

8.410 s May 22 2020 MiTek Industries, Inc. Tue Jul 21 13:46:22 2020 Page 2 ID:yyQ78agb1ZluwnWc1etTPnz53bT-5TgENzsYjGS6y8M3Kjeo?oDMsakkZOeryQi8Y0yvqA?

## LOAD CASE(S) Standard

Trapezoidal Loads (plf)

Vert: 1=-131-to-2=-71

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 3-4=-20

Trapezoidal Loads (plf)

Vert: 1=-106-to-2=-61

19) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 3-4=-20

Horz: 1-4=21, 1-5=38, 2-3=6

Trapezoidal Loads (plf)

Vert: 1=-106-to-2=-61

20) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 3-4=-20

Horz: 1-4=-6, 1-5=-38, 2-3=-21

Trapezoidal Loads (plf)

Vert: 1=-106-to-2=-61

21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 3-4=-20

Horz: 1-4=-10, 1-5=-25, 2-3=10

Trapezoidal Loads (plf)

Vert: 1=-106-to-2=-61

22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 3-4=-20

Horz: 1-4=-10, 1-5=-25, 2-3=10

Trapezoidal Loads (plf)

Vert: 1=-106-to-2=-61

27) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 3-4=-20

Trapezoidal Loads (plf)

Job Truss Truss Type Qty Streets of West Pryor 142113130 Flat B400088 J9 Job Reference (optional)

Wheeler Lumber.

Waverly, KS - 66871,

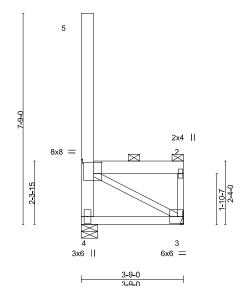
8.410 s May 22 2020 MiTek Industries, Inc. Tue Jul 21 13:46:23 2020 Page 1 ID:yyQ78agb1ZluwnWc1etTPnz53bT-afEdaJsBUaazalxGuQ91X?IXq 40lrx B4Si5TyvqA

2-0-0 oc purlins: 1-5, 1-2, except end verticals.

Rigid ceiling directly applied or 6-4-1 oc bracing.

3-9-0

Scale = 1:42.3



LOADING (psf) TCLL (roof) 20.0 Snow (Pf/Pg) 20.4/20.0 TCDL 15.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr NO	CSI. TC 0.74 BC 0.15 WB 0.24	<b>DEFL.</b> Vert(LL) -0.0 Vert(CT) -0.0 Horz(CT) -0.0	2 3-4	I/defI >999 >999 n/a	L/d 360 240 n/a	PLATES MT20	<b>GRIP</b> 197/144
BCLL 0.0 *	Code IBC2018/TPI2014	Matrix-P	Wind(LL) 0.0	0 4	****	240	Weight: 28 lb	FT = 10%

**BRACING-**

TOP CHORD

**BOT CHORD** 

LUMBER-

TOP CHORD 2x6 SPF No.2 **BOT CHORD** 2x4 SPF No.2 WEBS 2x3 SPF No.2 \*Except\*

4-5: 2x6 SPF 1650F 1.4E

REACTIONS. (size) 4=0-7-4, 3=Mechanical

Max Horz 4=355(LC 13)

Max Uplift 4=-435(LC 10), 3=-435(LC 11) Max Grav 4=506(LC 13), 3=506(LC 12)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

1-4=-598/472, 2-3=-181/279 TOP CHORD

**BOT CHORD** 3-4=-874/583 **WEBS** 1-3=-663/977

- 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; B=80ft; L=40ft; eave=5ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Corner(3) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- 4) Provide adequate drainage to prevent water ponding.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Refer to girder(s) for truss to truss connections.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=435, 3=435.
- 9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1. 10) Load case(s) 1, 4, 19, 20, 21, 22, 27 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

# LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf) Vert: 3-4=-20



OF MISSO

ANDREW

**THOMAS** 

JOHN SON

NUMBER

PE-2017018993







Job	Truss	Truss Type	Qty	Ply	Streets of West Pryor
B400088	10	Elet	,	1	I42113130
B400000	J9	Flat		'	Job Reference (optional)

Waverly, KS - 66871,

8.410 s May 22 2020 MiTek Industries, Inc. Tue Jul 21 13:46:23 2020 Page 2 ID:yyQ78agb1ZluwnWc1etTPnz53bT-afEdaJsBUaazalxGuQ91X?lXq 40lrx B4Si5TyvqA

## LOAD CASE(S) Standard

Trapezoidal Loads (plf)

Vert: 1=-131-to-2=-71

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 3-4=-20 Trapezoidal Loads (plf)

Vert: 1=-106-to-2=-61

19) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 3-4=-20

Horz: 1-4=21, 1-5=38, 2-3=6

Trapezoidal Loads (plf)

Vert: 1=-106-to-2=-61

20) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 3-4=-20

Horz: 1-4=-6, 1-5=-38, 2-3=-21

Trapezoidal Loads (plf)

Vert: 1=-106-to-2=-61

21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 3-4=-20

Horz: 1-4=-10, 1-5=-25, 2-3=10

Trapezoidal Loads (plf)

Vert: 1=-106-to-2=-61

22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 3-4=-20

Horz: 1-4=-10, 1-5=-25, 2-3=10

Trapezoidal Loads (plf)

Vert: 1=-106-to-2=-61

27) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 3-4=-20 Trapezoidal Loads (plf)

Vert: 1=-130-to-2=-70

Job Truss Truss Type Qty Streets of West Pryor 142113131 Flat B400088 J10 Job Reference (optional)

Wheeler Lumber.

Waverly, KS - 66871,

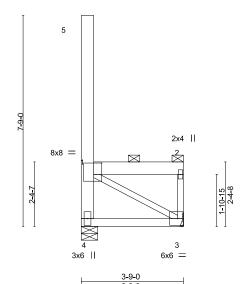
8.410 s May 22 2020 MiTek Industries, Inc. Tue Jul 21 13:45:00 2020 Page 1 ID:yyQ78agb1ZluwnWc1etTPnz53bT-VhjFAws7147k7Y4JXVAZgVpM?XleMlSm5frpgmyvqBH

2-0-0 oc purlins: 1-5, 1-2, except end verticals.

Rigid ceiling directly applied or 6-4-12 oc bracing.

3-9-0

Scale = 1:42.3



LOADING (psf) TCLL (roof) 20.0 Snow (Pf/Pg) 20.4/20.0 TCDL 15.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr NO	CSI. TC 0.73 BC 0.15 WB 0.24	DEFL.         in (loc)         l/defl         L/d           Vert(LL)         -0.01         3-4         >999         360           Vert(CT)         -0.02         3-4         >999         240           Horz(CT)         -0.00         3         n/a         n/a	PLATES GRIP MT20 197/144
BCLL 0.0 *	Code IBC2018/TPI2014	Matrix-P	Wind(LL) 0.00 4 **** 240	Weight: 28 lb FT = 10%

**BRACING-**

TOP CHORD

**BOT CHORD** 

LUMBER-

TOP CHORD 2x6 SPF No.2 **BOT CHORD** 2x4 SPF No.2 WEBS 2x3 SPF No.2 \*Except\*

4-5: 2x6 SPF 1650F 1.4E

REACTIONS. (size) 4=0-7-4, 3=Mechanical

Max Horz 4=355(LC 11)

Max Uplift 4=-435(LC 10), 3=-435(LC 11) Max Grav 4=505(LC 13), 3=505(LC 12)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

1-4=-594/473, 2-3=-181/278 TOP CHORD

**BOT CHORD** 3-4=-858/572 **WEBS** 1-3=-653/963

- 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; b=25ft; B=80ft; L=40ft; eave=5ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Corner(3) zone; cantilever left and right exposed; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- 4) Provide adequate drainage to prevent water ponding.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Refer to girder(s) for truss to truss connections.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=435, 3=435.
- 9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1. 10) Load case(s) 1, 4, 19, 20, 21, 22, 27 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

# LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf) Vert: 3-4=-20



OF MISSO

ANDREW

**THOMAS** 

**JOANSO** 

NUMBER

PE-2017018993







Job	Truss	Truss Type	Qty	Ply	Streets of West Pryor	
						I42113131
B400088	J10	Flat	2	1		
					Job Reference (optional)	

Waverly, KS - 66871,

8.410 s May 22 2020 MiTek Industries, Inc. Tue Jul 21 13:45:00 2020 Page 2 ID:yyQ78agb1ZluwnWc1etTPnz53bT-VhjFAws7147k7Y4JXVAZgVpM?XleMlSm5frpgmyvqBH

## LOAD CASE(S) Standard

Trapezoidal Loads (plf)

Vert: 1=-131-to-2=-71

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 3-4=-20

Trapezoidal Loads (plf)

Vert: 1=-106-to-2=-61

19) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 3-4=-20

Horz: 1-4=21, 1-5=38, 2-3=6

Trapezoidal Loads (plf)

Vert: 1=-106-to-2=-61

20) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 3-4=-20

Horz: 1-4=-6, 1-5=-38, 2-3=-21

Trapezoidal Loads (plf)

Vert: 1=-106-to-2=-61

21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 3-4=-20

Horz: 1-4=-10, 1-5=-25, 2-3=10

Trapezoidal Loads (plf)

Vert: 1=-106-to-2=-61

22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 3-4=-20

Horz: 1-4=-10, 1-5=-25, 2-3=10

Trapezoidal Loads (plf)

Vert: 1=-106-to-2=-61

27) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 3-4=-20

Trapezoidal Loads (plf)

Vert: 1=-130-to-2=-70

Job Truss Truss Type Qty Streets of West Pryor 142113132 Flat B400088 J11 Job Reference (optional)

Wheeler Lumber.

Waverly, KS - 66871,

8.410 s May 22 2020 MiTek Industries, Inc. Tue Jul 21 13:45:02 2020 Page 1 ID:yyQ78agb1ZluwnWc1etTPnz53bT-R4r?acuNZhNSMrEhewC1IwuhiKR7qC?3YzKvkfyvqBF

2-0-0 oc purlins: 1-5, 1-2, except end verticals.

Rigid ceiling directly applied or 6-5-7 oc bracing.

3-9-0

Scale = 1:42.3

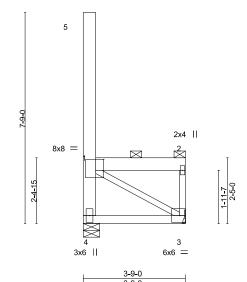


Plate Offsets (X.Y)-- [1:0-3-8.0-4-12]

Trate directe (Fig.)				
LOADING (psf) TCLL (roof) 20.0 Snow (Pf/Pg) 20.4/20.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15	CSI. TC 0.71 BC 0.15	DEFL.         in (loc)         l/defl         L/d         PLATES         GRIP           Vert(LL)         -0.01         3-4         >999         360         MT20         197/144           Vert(CT)         -0.02         3-4         >999         240	
TCDL 15.0 BCLL 0.0 * BCDL 10.0	Rep Stress Incr NO Code IBC2018/TPI2014	WB 0.23 Matrix-P	Horz(CT) -0.00 3 n/a n/a Wind(LL) 0.00 4 **** 240 Weight: 28 lb FT =	10%

**BRACING-**

TOP CHORD

**BOT CHORD** 

LUMBER-

TOP CHORD 2x6 SPF No.2 **BOT CHORD** 2x4 SPF No.2 WEBS 2x3 SPF No.2 \*Except\*

4-5: 2x6 SPF 1650F 1.4E

REACTIONS. (size) 4=0-7-4, 3=Mechanical

Max Horz 4=-354(LC 10)

Max Uplift 4=-435(LC 10), 3=-435(LC 11) Max Grav 4=505(LC 13), 3=505(LC 12)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

1-4=-591/474, 2-3=-180/278 TOP CHORD

BOT CHORD 3-4=-843/561 **WEBS** 1-3=-644/950

- 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; B=80ft; L=40ft; eave=5ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Corner(3) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- 4) Provide adequate drainage to prevent water ponding.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Refer to girder(s) for truss to truss connections.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=435, 3=435.
- 9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1. 10) Load case(s) 1, 4, 19, 20, 21, 22, 27 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

## LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf) Vert: 3-4=-20



July 21,2020





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

ANSITPH Quality Criteria, DSB-89 and BCSI Building Component fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Qu Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job	Truss	Truss Type	Qty	Ply	Streets of West Pryor
B400088		Flat	2	1	I42113132
D400000		l lat	_	'	Job Reference (optional)

Waverly, KS - 66871,

8.410 s May 22 2020 MiTek Industries, Inc. Tue Jul 21 13:45:02 2020 Page 2 ID:yyQ78agb1ZluwnWc1etTPnz53bT-R4r?acuNZhNSMrEhewC1lwuhiKR7qC?3YzKvkfyyqBF

# LOAD CASE(S) Standard

Trapezoidal Loads (plf)

Vert: 1=-131-to-2=-71

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 3-4=-20

Trapezoidal Loads (plf)

Vert: 1=-106-to-2=-61

19) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 3-4=-20

Horz: 1-4=21, 1-5=38, 2-3=6

Trapezoidal Loads (plf)

Vert: 1=-106-to-2=-61

20) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 3-4=-20

Horz: 1-4=-6, 1-5=-38, 2-3=-21

Trapezoidal Loads (plf)

Vert: 1=-106-to-2=-61

21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 3-4=-20

Horz: 1-4=-10, 1-5=-25, 2-3=10

Horz: 1-4=-10, Trapezoidal Loads (plf)

Vert: 1=-106-to-2=-61

22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 3-4=-20

Horz: 1-4=-10, 1-5=-25, 2-3=10

Trapezoidal Loads (plf)

Vert: 1=-106-to-2=-61

27) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 3-4=-20

Trapezoidal Loads (plf) Vert: 1=-130-to-2=-70



Job Truss Truss Type Qty Streets of West Pryor 142113133 Flat B400088 J12 Job Reference (optional)

Wheeler Lumber.

Waverly, KS - 66871,

8.410 s May 22 2020 MiTek Industries, Inc. Tue Jul 21 13:45:04 2020 Page 1 ID:yyQ78agb1ZluwnWc1etTPnz53bT-OSyl?lvd5ldAb9O4mLFVqL zl86dl6YM0Hp0pYyvqBD

2-0-0 oc purlins: 1-5, 1-2, except end verticals.

Rigid ceiling directly applied or 6-6-1 oc bracing.

3-9-0

Scale = 1:42.3

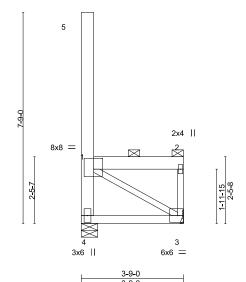


Plate Offsets (	(X,Y)	[1:0-3-12,0-4-12]
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Plate Offsets (A, Y) [1.0-3-12,	0-4-12]			
LOADING (psf) TCLL (roof) 20.0 Snow (Pf/Pg) 20.4/20.0	SPACING-         2-0-0           Plate Grip DOL         1.15           Lumber DOL         1.15	CSI. TC 1.00 BC 0.15	DEFL.         in (loc)         l/defl         L/d           Vert(LL)         -0.01         3-4         >999         360           Vert(CT)         -0.02         3-4         >999         240	PLATES GRIP MT20 197/144
TCDL 15.0 BCLL 0.0 * BCDL 10.0	Rep Stress Incr NO Code IBC2018/TPI2014	WB 0.23 Matrix-P	Horz(CT) -0.00 3 n/a n/a Wind(LL) 0.00 4 **** 240	Weight: 28 lb FT = 10%

**BRACING-**

TOP CHORD

**BOT CHORD** 

LUMBER-

TOP CHORD 2x6 SPF No.2 **BOT CHORD** 2x4 SPF No.2 WEBS 2x3 SPF No.2 \*Except\*

4-5: 2x6 SPF No.2

REACTIONS. (size) 4=0-7-4, 3=Mechanical

Max Horz 4=-354(LC 10)

Max Uplift 4=-434(LC 10), 3=-434(LC 11) Max Grav 4=505(LC 13), 3=505(LC 12)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

1-4=-587/475, 2-3=-180/277 TOP CHORD

BOT CHORD 3-4=-829/550 **WEBS** 1-3=-635/938

- 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; B=80ft; L=40ft; eave=5ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Corner(3) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- 4) Provide adequate drainage to prevent water ponding.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Refer to girder(s) for truss to truss connections.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=434, 3=434.
- 9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1. 10) Load case(s) 1, 4, 19, 20, 21, 22, 27 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

## LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf) Vert: 3-4=-20





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🗥 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 systems, see

ANSITPH Quality Criteria, DSB-89 and BCSI Building Component Safrety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job	Truss	Truss Type	Qty	Ply	Streets of West Pryor
B400088	112	  Flat	2	1	I42113133
B40008	312	riat	2	'	Job Reference (optional)

Waverly, KS - 66871,

8.410 s May 22 2020 MiTek Industries, Inc. Tue Jul 21 13:45:04 2020 Page 2 ID:yyQ78agb1ZluwnWc1etTPnz53bT-OSyl?lvd5ldAb9O4mLFVqL zl86dl6YM0Hp0pYyvqBD

### LOAD CASE(S) Standard

Trapezoidal Loads (plf)

Vert: 1=-131-to-2=-71

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 3-4=-20 Trapezoidal Loads (plf)

Vert: 1=-106-to-2=-61

19) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 3-4=-20

Horz: 1-4=21, 1-5=38, 2-3=6

Trapezoidal Loads (plf)

Vert: 1=-106-to-2=-61

20) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 3-4=-20

Horz: 1-4=-6, 1-5=-38, 2-3=-21

Trapezoidal Loads (plf)

Vert: 1=-106-to-2=-61

21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 3-4=-20

Horz: 1-4=-10, 1-5=-25, 2-3=10 Trapezoidal Loads (plf)

Vert: 1=-106-to-2=-61

22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 3-4=-20

Horz: 1-4=-10, 1-5=-25, 2-3=10

Trapezoidal Loads (plf)

Vert: 1=-106-to-2=-61

27) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 3-4=-20

Trapezoidal Loads (plf)

Job Truss Truss Type Qty Streets of West Pryor 142113134 Flat B400088 J13 Job Reference (optional)

Wheeler Lumber.

Waverly, KS - 66871,

8.410 s May 22 2020 MiTek Industries, Inc. Tue Jul 21 13:45:06 2020 Page 1 ID:yyQ78agb1ZluwnWc1etTPnz53bT-Kr4WQzxtcwturTYTtlHzwm3JYyo6m04fTbl7tQyvqBB

2-0-0 oc purlins: 1-5, 1-2, except end verticals.

Rigid ceiling directly applied or 6-6-12 oc bracing.

3-9-0

Scale = 1:42.3

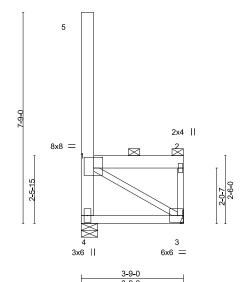


Plate Offsets (	(X,Y)	[1:0-3-12,0-4-12]
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Plate Offsets (A, Y) [1.0-3-12	.,0-4-12]			
LOADING (psf) TCLL (roof) 20.0 Snow (Pf/Pg) 20.4/20.0 TCDL 15.0	SPACING-         2-0-0           Plate Grip DOL         1.15           Lumber DOL         1.15	CSI. TC 0.98 BC 0.14	DEFL. in (loc) I/defl L/d Vert(LL) -0.01 3-4 >999 360 Vert(CT) -0.02 3-4 >999 240	PLATES         GRIP           MT20         197/144
TCDL 15.0 BCLL 0.0 * BCDL 10.0	Rep Stress Incr NO Code IBC2018/TPI2014	WB 0.23 Matrix-P	Horz(CT) -0.00 3 n/a n/a Wind(LL) 0.00 4 **** 240	Weight: 28 lb FT = 10%

**BRACING-**

TOP CHORD

**BOT CHORD** 

LUMBER-

TOP CHORD 2x6 SPF No.2 **BOT CHORD** 2x4 SPF No.2 WEBS 2x3 SPF No.2 \*Except\* 4-5: 2x6 SPF No.2

REACTIONS.

(size) 4=0-7-4, 3=Mechanical

Max Horz 4=-353(LC 10)

Max Uplift 4=-434(LC 10), 3=-434(LC 11) Max Grav 4=504(LC 13), 3=504(LC 12)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

1-4=-584/476, 2-3=-179/276 TOP CHORD

BOT CHORD 3-4=-815/541 **WEBS** 1-3=-626/926

- 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; B=80ft; L=40ft; eave=5ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Corner(3) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- 4) Provide adequate drainage to prevent water ponding.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Refer to girder(s) for truss to truss connections.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=434, 3=434.
- 9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1. 10) Load case(s) 1, 4, 19, 20, 21, 22, 27 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

## LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf) Vert: 3-4=-20



July 21,2020





besign value for use only with reactions. This cessign is based only upon parameters shown, and is for an intrividual outlaining Component, not a for 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	Streets of West Pryor	
						I42113134
B400088	J13	Flat	2	1		
					Job Reference (optional)	

Waverly, KS - 66871,

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### LOAD CASE(S) Standard

Trapezoidal Loads (plf)

Vert: 1=-131-to-2=-71

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 3-4=-20 Trapezoidal Loads (plf)

Vert: 1=-106-to-2=-61

19) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 3-4=-20

Horz: 1-4=21, 1-5=38, 2-3=6

Trapezoidal Loads (plf)

Vert: 1=-106-to-2=-61

20) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 3-4=-20

Horz: 1-4=-6, 1-5=-38, 2-3=-21

Trapezoidal Loads (plf)

Vert: 1=-106-to-2=-61

21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf) Vert: 3-4=-20

Horz: 1-4=-10, 1-5=-25, 2-3=10

Trapezoidal Loads (plf)

Vert: 1=-106-to-2=-61

22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 3-4=-20

Horz: 1-4=-10, 1-5=-25, 2-3=10

Trapezoidal Loads (plf)

Vert: 1=-106-to-2=-61

27) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 3-4=-20

Trapezoidal Loads (plf)

Job Truss Truss Type Qty Streets of West Pryor 142113135 Flat B400088 J14 Job Reference (optional)

Wheeler Lumber.

Waverly, KS - 66871,

8.410 s May 22 2020 MiTek Industries, Inc. Tue Jul 21 13:45:10 2020 Page 1 ID:yyQ78agb1ZluwnWc1etTPnz53bT-CcK0GL Og8OKJ4rE6bLv4cE?pZ94iq6EODGK0ByvqB7

2-0-0 oc purlins: 1-5, 1-2, except end verticals.

Rigid ceiling directly applied or 6-7-5 oc bracing.

3-9-0

Scale = 1:42.3

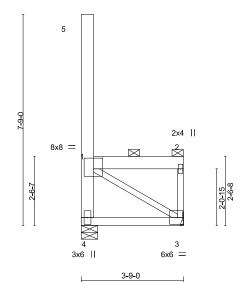


Plate Offsets (X V)... [1:0.3.12 0.4.12]

1100010000 (71,17) [1.0 0 12	.,0 1 12]			
LOADING (psf) TCLL (roof) 20.0 Snow (Pf/Pg) 20.4/20.0	SPACING- 2-0-0 Plate Grip DOL 1.15	<b>CSI.</b> TC 0.96	<b>DEFL.</b> in (loc) I/defl L/d Vert(LL) -0.01 3-4 >999 360	<b>PLATES GRIP</b> MT20 197/144
TCDL 15.0	Lumber DOL 1.15	BC 0.14	Vert(CT) -0.02 3-4 >999 240	
BCLL 0.0 *	Rep Stress Incr NO	WB 0.23	Horz(CT) -0.00 3 n/a n/a	
BCDL 10.0	Code IBC2018/TPI2014	Matrix-P	Wind(LL) 0.00 4 **** 240	Weight: 28 lb FT = 10%

**BRACING-**

TOP CHORD

**BOT CHORD** 

LUMBER-

2x6 SPF No.2 TOP CHORD **BOT CHORD** 2x4 SPF No.2 WEBS 2x3 SPF No.2 \*Except\*

4-5: 2x6 SPF No.2

REACTIONS. (size) 4=0-7-4, 3=Mechanical

Max Horz 4=-352(LC 10)

Max Uplift 4=-433(LC 10), 3=-433(LC 11) Max Grav 4=504(LC 13), 3=504(LC 12)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

1-4=-580/476, 2-3=-179/275 TOP CHORD

BOT CHORD 3-4=-802/531 **WEBS** 1-3=-618/915

- 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; B=80ft; L=40ft; eave=5ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Corner(3) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- 4) Provide adequate drainage to prevent water ponding.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Refer to girder(s) for truss to truss connections.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=433, 3=433.
- 9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1. 10) Load case(s) 1, 4, 19, 20, 21, 22, 27 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

## LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf) Vert: 3-4=-20



OF MISSO

ANDREW

THOMAS

NUMBER

PE-2017018993







Job	Truss	Truss Type	Qty	Ply	Streets of West Pryor	
					ļ	42113135
B400088	J14	Flat	2	1		
					Job Reference (optional)	
Whooler Lumber Way	NV KC 66971		Q	410 c Max	22 2020 MiTok Industries Inc. Tuo lul 21 13:45:10 2020 I	Daga 2

Waverly, KS - 66871,

ID:yyQ78agb1ZluwnWc1etTPnz53bT-CcK0GL Og8OKJ4rE6bLv4cE?pZ94iq6EODGK0ByvqB7

## LOAD CASE(S) Standard

Trapezoidal Loads (plf)

Vert: 1=-131-to-2=-71

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 3-4=-20

Trapezoidal Loads (plf)

Vert: 1=-106-to-2=-61

19) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 3-4=-20

Horz: 1-4=21, 1-5=38, 2-3=6

Trapezoidal Loads (plf)

Vert: 1=-106-to-2=-61

20) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 3-4=-20

Horz: 1-4=-6, 1-5=-38, 2-3=-21

Trapezoidal Loads (plf)

Vert: 1=-106-to-2=-61

21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 3-4=-20

Horz: 1-4=-10, 1-5=-25, 2-3=10

Trapezoidal Loads (plf)

Vert: 1=-106-to-2=-61

22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 3-4=-20

Horz: 1-4=-10, 1-5=-25, 2-3=10

Trapezoidal Loads (plf)

Vert: 1=-106-to-2=-61

27) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 3-4=-20

Trapezoidal Loads (plf)

 Job
 Truss
 Truss Type
 Qty
 Ply
 Streets of West Pryor
 I42113136

 B400088
 J15
 Flat
 2
 1
 Job Reference (optional)

Wheeler Lumber, V

Waverly, KS - 66871,

8.410 s May 22 2020 MiTek Industries, Inc. Tue Jul 21 13:45:12 2020 Page 1 ID:yyQ78agb1ZluwnWc1etTPnz53bT-9?Rnh1?eCle1ZO?cE0ON91JMcMrZAjcXsXIR54yvqB5

2-0-0 oc purlins: 1-5, 1-2, except end verticals.

Rigid ceiling directly applied or 6-8-0 oc bracing.

3-9-0 3-9-0

Scale = 1:42.3

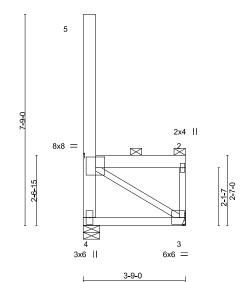


Plate Offsets (X,Y)-- [1:0-3-12,0-4-12]

Flate Offsets (X, 1) [1.0-3-12	2,0-4-12]			
LOADING (psf) TCLL (roof) 20.0 Snow (Pf/Pg) 20.4/20.0 TCDL 15.0	SPACING-         2-0-0           Plate Grip DOL         1.15           Lumber DOL         1.15	CSI. TC 0.94 BC 0.14	DEFL.         in (loc)         I/defl         L/d         PLATES         GRIP           Vert(LL)         -0.01         3-4         >999         360         MT20         197/144           Vert(CT)         -0.02         3-4         >999         240         197/144	
BCLL 0.0 * BCDL 10.0	Rep Stress Incr NO Code IBC2018/TPI2014	WB 0.23 Matrix-P	Horz(CT) -0.00 3 n/a n/a Wind(LL) 0.00 4 **** 240 Weight: 28 lb FT = 1	0%

**BRACING-**

TOP CHORD

**BOT CHORD** 

LUMBER-

TOP CHORD 2x6 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x3 SPF No.2 \*Except\*
4-5: 2x6 SPF No.2

REACTIONS.

(size) 4=0-7-4, 3=Mechanical

Max Horz 4=-352(LC 10)

Max Uplift 4=-433(LC 10), 3=-433(LC 11) Max Grav 4=504(LC 13), 3=504(LC 12)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 1-4=-577/477, 2-3=-178/274

BOT CHORD 3-4=-789/522 WEBS 1-3=-611/904

#### 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; B=80ft; L=40ft; eave=5ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Corner(3) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- 4) Provide adequate drainage to prevent water ponding.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Refer to girder(s) for truss to truss connections.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=433, 3=433.
- This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
   Load case(s) 1, 4, 19, 20, 21, 22, 27 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

## LOAD CASE(S) Standard

Uniform Loads (plf)
Vert: 3-4=-20



OF MISSO

ANDREW

**THOMAS** 

OHNSON





Job	Truss	Truss Type	Qty	Ply	Streets of West Pryor	
						I42113136
B400088	J15	Flat	2	1	<u></u>	
					Job Reference (optional)	

Waverly, KS - 66871,

8.410 s May 22 2020 MiTek Industries, Inc. Tue Jul 21 13:45:12 2020 Page 2 ID:yyQ78agb1ZluwnWc1etTPnz53bT-9?Rnh1?eCle1ZO?cE0ON91JMcMrZAjcXsXIR54yvgB5

### LOAD CASE(S) Standard

Trapezoidal Loads (plf)

Vert: 1=-131-to-2=-71

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 3-4=-20

Trapezoidal Loads (plf)

Vert: 1=-106-to-2=-61

19) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 3-4=-20

Horz: 1-4=21, 1-5=38, 2-3=6

Trapezoidal Loads (plf)

Vert: 1=-106-to-2=-61

20) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 3-4=-20

Horz: 1-4=-6, 1-5=-38, 2-3=-21

Trapezoidal Loads (plf)

Vert: 1=-106-to-2=-61

21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf) Vert: 3-4=-20

Horz: 1-4=-10, 1-5=-25, 2-3=10

Trapezoidal Loads (plf)

Vert: 1=-106-to-2=-61

22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 3-4=-20

Horz: 1-4=-10, 1-5=-25, 2-3=10

Trapezoidal Loads (plf)

Vert: 1=-106-to-2=-61

27) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 3-4=-20

Trapezoidal Loads (plf) Vert: 1=-130-to-2=-70 Job Truss Truss Type Qty Streets of West Pryor 142113137 Flat B400088 J16 Job Reference (optional)

Wheeler Lumber.

Waverly, KS - 66871,

8.410 s May 22 2020 MiTek Industries, Inc. Tue Jul 21 13:45:13 2020 Page 1 ID:yyQ78agb1ZluwnWc1etTPnz53bT-dB?9uN0Gz3muAYapnkvciEsXemBqvAsh4BU?dWyvqB4

2-0-0 oc purlins: 1-5, 1-2, except end verticals.

Rigid ceiling directly applied or 6-8-9 oc bracing.

3-9-0

Scale = 1:42.3

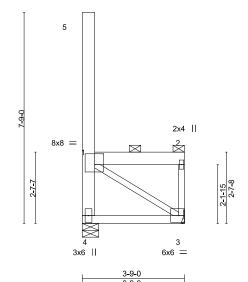


Plate Offsets (X,Y	)	[1:0-3-12,0-4-12]
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Flate Offsets (A, 1) [1.0-3-12	.,0-4-12]			
LOADING (psf) TCLL (roof) 20.0 Snow (Pf/Pg) 20.4/20.0 TCDL 15.0	SPACING-         2-0-0           Plate Grip DOL         1.15           Lumber DOL         1.15	CSI. TC 0.92 BC 0.14	DEFL.         in (loc)         l/defl         L/d         PLATES         GRIP           Vert(LL)         -0.01         3-4         >999         360         MT20         197/144           Vert(CT)         -0.02         3-4         >999         240	
BCLL 0.0 * BCDL 10.0	Rep Stress Incr NO Code IBC2018/TPI2014	WB 0.23 Matrix-P	Horz(CT) -0.00 3 n/a n/a Wind(LL) 0.00 4 **** 240 Weight: 28 lb FT =	10%

**BRACING-**

TOP CHORD

**BOT CHORD** 

LUMBER-

TOP CHORD 2x6 SPF No.2 **BOT CHORD** 2x4 SPF No.2 WEBS 2x3 SPF No.2 \*Except\* 4-5: 2x6 SPF No.2

REACTIONS.

(size) 4=0-7-4, 3=Mechanical

Max Horz 4=-351(LC 10)

Max Uplift 4=-433(LC 10), 3=-433(LC 11) Max Grav 4=503(LC 13), 3=503(LC 12)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 1-4=-573/478, 2-3=-178/273

BOT CHORD 3-4=-777/513 **WEBS** 1-3=-603/894

- 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; b=25ft; B=80ft; L=40ft; eave=5ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Corner(3) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- 4) Provide adequate drainage to prevent water ponding.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Refer to girder(s) for truss to truss connections.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=433, 3=433.
- 9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1. 10) Load case(s) 1, 4, 19, 20, 21, 22, 27 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

## LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf) Vert: 3-4=-20



July 21,2020





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

ANSITPH Quality Criteria, DSB-89 and BCSI Building Component Safrety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job	Truss	Truss Type	Qty	Ply	Streets of West Pryor
B400088	J16	Flat	2	1	I42113137
D400000	310	Tiat	_	'	Job Reference (optional)

Waverly, KS - 66871,

8.410 s May 22 2020 MiTek Industries, Inc. Tue Jul 21 13:45:13 2020 Page 2 ID:yyQ78agb1ZluwnWc1etTPnz53bT-dB?9uN0Gz3muAYapnkvciEsXemBqvAsh4BU?dWyvqB4

LOAD CASE(S) Standard

Trapezoidal Loads (plf)

Vert: 1=-131-to-2=-71

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf) Vert: 3-4=-20

Trapezoidal Loads (plf)

Vert: 1=-106-to-2=-61

19) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 3-4=-20

Horz: 1-4=21, 1-5=38, 2-3=6

Trapezoidal Loads (plf)

Vert: 1=-106-to-2=-61

20) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 3-4=-20

Horz: 1-4=-6, 1-5=-38, 2-3=-21

Trapezoidal Loads (plf)

Vert: 1=-106-to-2=-61 21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf) Vert: 3-4=-20

Horz: 1-4=-10, 1-5=-25, 2-3=10

Trapezoidal Loads (plf)

Vert: 1=-106-to-2=-61

22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf) Vert: 3-4=-20

Horz: 1-4=-10, 1-5=-25, 2-3=10

Trapezoidal Loads (plf)

Vert: 1=-106-to-2=-61

27) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 3-4=-20 Trapezoidal Loads (plf)

Job Truss Truss Type Qty Streets of West Pryor 142113138 J17 B400088 Flat Job Reference (optional)

Wheeler Lumber.

Waverly, KS - 66871,

8.410 s May 22 2020 MiTek Industries, Inc. Tue Jul 21 13:45:14 2020 Page 1 ID:yyQ78agb1ZluwnWc1etTPnz53bT-5NZX6j1vkNuloh9?LRQrESOieAX4ed6qJrEY9zyvqB3

2-0-0 oc purlins: 1-5, 1-2, except end verticals.

Rigid ceiling directly applied or 6-9-3 oc bracing.

3-9-0

Scale = 1:42.3

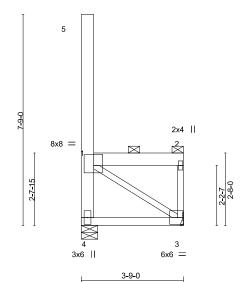


Plate Offsets (A, 1) [1.0-3-12	2,0-4-12]			
LOADING (psf) TCLL (roof) 20.0 Snow (Pf/Pg) 20.4/20.0 TCDL 15.0	SPACING-         2-0-0           Plate Grip DOL         1.15           Lumber DOL         1.15	CSI. TC 0.91 BC 0.14	DEFL.         in (loc)         l/defl         L/d         PLATES         GRIP           Vert(LL)         -0.01         3-4         >999         360         MT20         197/144           Vert(CT)         -0.02         3-4         >999         240	
BCLL 0.0 * BCDL 10.0	Rep Stress Incr NO Code IBC2018/TPI2014	WB 0.23 Matrix-P	Horz(CT) -0.00 3 n/a n/a Wind(LL) 0.00 4 **** 240 Weight: 28 lb FT = 1	0%

**BRACING-**

TOP CHORD

**BOT CHORD** 

LUMBER-

TOP CHORD 2x6 SPF No.2 BOT CHORD 2x4 SPF No.2 WEBS 2x3 SPF No.2 \*Except\* 4-5: 2x6 SPF No.2

REACTIONS.

(size) 4=0-7-4, 3=Mechanical

Max Horz 4=-351(LC 12)

Max Uplift 4=-432(LC 10), 3=-432(LC 11) Max Grav 4=503(LC 13), 3=503(LC 12)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

1-4=-569/479, 2-3=-178/272 TOP CHORD

BOT CHORD 3-4=-765/505 **WEBS** 1-3=-596/884

- 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; B=80ft; L=40ft; eave=5ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Corner(3) zone; cantilever left and right exposed; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- 4) Provide adequate drainage to prevent water ponding.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Refer to girder(s) for truss to truss connections.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=432, 3=432.
- 9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1. 10) Load case(s) 1, 4, 19, 20, 21, 22, 27 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

## LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf) Vert: 3-4=-20



OF MISSOL

ANDREW

**THOMAS** 

JOHNSON

NUMBER

PE-2017018993







Job	Truss	Truss Type	Qty	Ply	Streets of West Pryor
B400088	117	  Flat	2	1	I42113138
B40008	317	riat	2	'	Job Reference (optional)

Waverly, KS - 66871,

8.410 s May 22 2020 MiTek Industries, Inc. Tue Jul 21 13:45:14 2020 Page 2 ID:yyQ78agb1ZluwnWc1etTPnz53bT-5NZX6j1vkNuloh9?LRQrESOieAX4ed6qJrEY9zyvqB3

### LOAD CASE(S) Standard

Trapezoidal Loads (plf)

Vert: 1=-131-to-2=-71

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 3-4=-20

Trapezoidal Loads (plf) Vert: 1=-106-to-2=-61

19) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 3-4=-20

Horz: 1-4=21, 1-5=38, 2-3=6

Trapezoidal Loads (plf)

Vert: 1=-106-to-2=-61

20) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 3-4=-20

Horz: 1-4=-6, 1-5=-38, 2-3=-21

Trapezoidal Loads (plf)

Vert: 1=-106-to-2=-61

21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf) Vert: 3-4=-20

Horz: 1-4=-10, 1-5=-25, 2-3=10

Trapezoidal Loads (plf)

Vert: 1=-106-to-2=-61

22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 3-4=-20

Horz: 1-4=-10, 1-5=-25, 2-3=10

Trapezoidal Loads (plf)

Vert: 1=-106-to-2=-61

27) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 3-4=-20 Trapezoidal Loads (plf)



Job Truss Truss Type Qty Streets of West Pryor 142113139 Flat B400088 J18 Job Reference (optional)

Wheeler Lumber.

Waverly, KS - 66871,

8.410 s May 22 2020 MiTek Industries, Inc. Tue Jul 21 13:45:23 2020 Page 1 ID:yyQ78agb1ZluwnWc1etTPnz53bT-K6cx n8Yc81UN4LkNq4y6LGFfobDFiL9OkvWzxyvqAw

2-0-0 oc purlins: 1-5, 1-2, except end verticals.

Rigid ceiling directly applied or 6-9-13 oc bracing.

3-9-0

Scale = 1:42.3

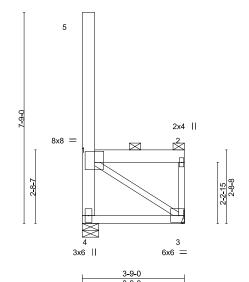


Plate Offsets (X,Y)	[1:0-3-12,0-4-12]
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Flate Officets (A, I) [1.0-3-12	.,0-4-12]			
LOADING (psf) TCLL (roof) 20.0 Snow (Pf/Pg) 20.4/20.0	SPACING- 2-0-0 Plate Grip DOL 1.15	<b>CSI.</b> TC 0.89	DEFL.         in (loc)         l/defl         L/d         PLATES         GRIP           Vert(LL)         -0.01         3-4         >999         360         MT20         197/144	
TCDL 15.0 BCLL 0.0 *	Lumber DOL 1.15 Rep Stress Incr NO	BC 0.14 WB 0.23	Vert(CT) -0.02 3-4 >999 240 Horz(CT) -0.00 3 n/a n/a n/a Weight 29 lb ET = 1	
BCDL 10.0	Code IBC2018/TPI2014	Matrix-P	Wind(LL) 0.00 4 **** 240 Weight: 28 lb FT = 1	0%

**BRACING-**

TOP CHORD

**BOT CHORD** 

LUMBER-

TOP CHORD 2x6 SPF No.2 **BOT CHORD** 2x4 SPF No.2 WEBS 2x3 SPF No.2 \*Except\*

4-5: 2x6 SPF No.2

REACTIONS. (size) 4=0-7-4, 3=Mechanical

Max Horz 4=-350(LC 10)

Max Uplift 4=-432(LC 10), 3=-432(LC 11) Max Grav 4=502(LC 13), 3=502(LC 12)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

1-4=-565/480, 2-3=-177/271 TOP CHORD

BOT CHORD 3-4=-754/496 **WEBS** 1-3=-590/875

- 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; b=25ft; B=80ft; L=40ft; eave=5ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Corner(3) zone; cantilever left and right exposed; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- 4) Provide adequate drainage to prevent water ponding.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Refer to girder(s) for truss to truss connections.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=432, 3=432.
- 9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1. 10) Load case(s) 1, 4, 19, 20, 21, 22, 27 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

## LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf) Vert: 3-4=-20





July 21,2020



Job	Truss	Truss Type	Qty	Ply	Streets of West Pryor
B400088	J18	  Flat	2	1	l42113139
B40008	310	riat	2	'	Job Reference (optional)

Waverly, KS - 66871,

8.410 s May 22 2020 MiTek Industries, Inc. Tue Jul 21 13:45:23 2020 Page 2 ID:yyQ78agb1ZluwnWc1etTPnz53bT-K6cx n8Yc81UN4LkNq4y6LGFfobDFiL9OkvWzxyyqAw

### LOAD CASE(S) Standard

Trapezoidal Loads (plf)

Vert: 1=-131-to-2=-71

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 3-4=-20 Trapezoidal Loads (plf)

Vert: 1=-106-to-2=-61

19) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 3-4=-20

Horz: 1-4=21, 1-5=38, 2-3=6

Trapezoidal Loads (plf)

Vert: 1=-106-to-2=-61

20) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 3-4=-20

Horz: 1-4=-6, 1-5=-38, 2-3=-21

Trapezoidal Loads (plf)

Vert: 1=-106-to-2=-61

21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 3-4=-20

Horz: 1-4=-10, 1-5=-25, 2-3=10

Trapezoidal Loads (plf)

Vert: 1=-106-to-2=-61

22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 3-4=-20

Horz: 1-4=-10, 1-5=-25, 2-3=10

Trapezoidal Loads (plf)

Vert: 1=-106-to-2=-61

27) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 3-4=-20

Trapezoidal Loads (plf)

Job Truss Truss Type Qty Streets of West Pryor 142113140 Flat B400088 J19 Job Reference (optional)

Wheeler Lumber.

Waverly, KS - 66871,

8.410 s May 22 2020 MiTek Industries, Inc. Tue Jul 21 13:45:24 2020 Page 1 ID:yyQ78agb1ZluwnWc1etTPnz53bT-oIAJC79ANR9K?EwwxXcBeZpQgCxT\_9blcOf4VNyvqAv

2-0-0 oc purlins: 1-5, 1-2, except end verticals.

Rigid ceiling directly applied or 6-10-6 oc bracing.

3-9-0

Scale = 1:42.3

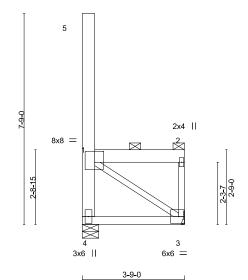


Plate Offsets (X,Y)	[1:0-3-12,0-4-12]
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Flate Officets (A, I) [1.0-3-12	.,0-4-12]			
LOADING (psf) TCLL (roof) 20.0 Snow (Pf/Pg) 20.4/20.0	SPACING- 2-0-0 Plate Grip DOL 1.15	<b>CSI.</b> TC 0.87	DEFL.         in (loc)         l/defl         L/d         PLATES         GRIP           Vert(LL)         -0.01         3-4         >999         360         MT20         197/144	
TCDL 15.0 BCLL 0.0 *	Lumber DOL 1.15 Rep Stress Incr NO	BC 0.14 WB 0.23	Vert(CT) -0.02 3-4 >999 240 Horz(CT) -0.00 3 n/a n/a Wiget(L) 0.00 4 **** 240 Weight 38 lb ET = 6	100/
BCDL 10.0	Code IBC2018/TPI2014	Matrix-P	Wind(LL) 0.00 4 **** 240 Weight: 28 lb FT = 1	10%

**BRACING-**

TOP CHORD

**BOT CHORD** 

LUMBER-

TOP CHORD 2x6 SPF No.2 **BOT CHORD** 2x4 SPF No.2 WEBS 2x3 SPF No.2 \*Except\*

4-5: 2x6 SPF No.2

REACTIONS. (size) 4=0-7-4, 3=Mechanical

Max Horz 4=-349(LC 12)

Max Uplift 4=-431(LC 10), 3=-431(LC 11) Max Grav 4=502(LC 13), 3=502(LC 12)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

1-4=-561/481, 2-3=-177/270 TOP CHORD

BOT CHORD 3-4=-743/489 **WEBS** 1-3=-583/866

- 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; b=25ft; B=80ft; L=40ft; eave=5ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Corner(3) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- 4) Provide adequate drainage to prevent water ponding.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Refer to girder(s) for truss to truss connections.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=431, 3=431.
- 9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1. 10) Load case(s) 1, 4, 19, 20, 21, 22, 27 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

## LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf) Vert: 3-4=-20



OF MISSO

ANDREW

**THOMAS** 

NUMBER

JOHNSO





Job	Truss	Truss Type	Qty	Ply	Streets of West Pryor	
					I4211	13140
B400088	J19	Flat	2	1		
					Job Reference (optional)	

Waverly, KS - 66871,

8.410 s May 22 2020 MiTek Industries, Inc. Tue Jul 21 13:45:25 2020 Page 2 ID:yyQ78agb1ZluwnWc1etTPnz53bT-GVkhPT9o8IHBcOV6UF7QBmLbQcHijcqSr2Od1qyvqAu

### LOAD CASE(S) Standard

Trapezoidal Loads (plf)

Vert: 1=-131-to-2=-71

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 3-4=-20 Trapezoidal Loads (plf)

Vert: 1=-106-to-2=-61

19) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 3-4=-20

Horz: 1-4=21, 1-5=38, 2-3=6

Trapezoidal Loads (plf)

Vert: 1=-106-to-2=-61

20) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 3-4=-20

Horz: 1-4=-6, 1-5=-38, 2-3=-21

Trapezoidal Loads (plf)

Vert: 1=-106-to-2=-61

21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 3-4=-20

Horz: 1-4=-10, 1-5=-25, 2-3=10

Trapezoidal Loads (plf)

Vert: 1=-106-to-2=-61

22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 3-4=-20

Horz: 1-4=-10, 1-5=-25, 2-3=10

Trapezoidal Loads (plf)

Vert: 1=-106-to-2=-61

27) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 3-4=-20

Trapezoidal Loads (plf)

Job Truss Truss Type Qty Streets of West Pryor 142113141 Flat B400088 J20 Job Reference (optional)

Wheeler Lumber.

Waverly, KS - 66871,

8.410 s May 22 2020 MiTek Industries, Inc. Tue Jul 21 13:45:39 2020 Page 1 ID:yyQ78agb1ZluwnWc1etTPnz53bT-sBa LGKar22CIXZoJBNiljx 9F3??xIV3EnNX0yvqAg

2-0-0 oc purlins: 1-5, 1-2, except end verticals.

Rigid ceiling directly applied or 6-10-15 oc bracing.

3-9-0

Scale = 1:42.3

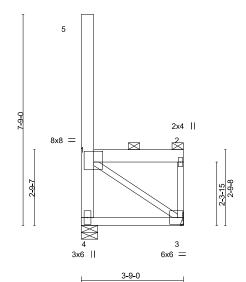


Plate Offsets	(X,Y)	[1:0-3-12,0-4-12]
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LOADING (psf) TCLL (roof) 20.0 Snow (Pf/Pg) 20.4/20.0 TCDL 15.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15	CSI. TC 0.85 BC 0.13	Vert(CT) -	-0.01 -0.02	(loc) 3-4 3-4	I/defI >999 >999	L/d 360 240	PLATES MT20	<b>GRIP</b> 197/144
BCLL 0.0 *	Rep Stress Incr NO Code IBC2018/TPI2014	WB 0.23 Matrix-P	· ,	-0.00 0.00	3 4	n/a ****	n/a 240	Weight: 28 lb	FT = 10%
BCDL 10.0	Code IBC2018/1PI2014	Matrix-P	vvina(LL)	0.00	4		240	weight: 28 ib	F1 = 10%

**BRACING-**

TOP CHORD

**BOT CHORD** 

LUMBER-

TOP CHORD 2x6 SPF No.2 **BOT CHORD** 2x4 SPF No.2 WEBS 2x3 SPF No.2 \*Except\* 4-5: 2x6 SPF No.2

REACTIONS.

(size) 4=0-7-4, 3=Mechanical

Max Horz 4=-349(LC 12)

Max Uplift 4=-431(LC 10), 3=-431(LC 11) Max Grav 4=502(LC 13), 3=502(LC 12)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

1-4=-557/482, 2-3=-176/269 TOP CHORD

BOT CHORD 3-4=-733/481 **WEBS** 1-3=-577/858

- 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; b=25ft; B=80ft; L=40ft; eave=5ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Corner(3) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- 4) Provide adequate drainage to prevent water ponding.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Refer to girder(s) for truss to truss connections.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=431, 3=431.
- 9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1. 10) Load case(s) 1, 4, 19, 20, 21, 22, 27 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

## LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf) Vert: 3-4=-20



OF MISSOL

ANDREW

**THOMAS** 

JOHNSON

NUMBER

PE-2017018993







Job	Truss	Truss Type	Qty	Ply	Streets of West Pryor	
						I42113141
B400088	J20	Flat	2	1		
					Job Reference (optional)	

Waverly, KS - 66871,

8.410 s May 22 2020 MiTek Industries, Inc. Tue Jul 21 13:45:40 2020 Page 2 ID:yyQ78agb1ZluwnWc1etTPnz53bT-KN8MZbLCcMA3wh8?tuuxlxT9ufPEkOYfluXw3SyvqAf

### LOAD CASE(S) Standard

Trapezoidal Loads (plf)

Vert: 1=-131-to-2=-71

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 3-4=-20

Trapezoidal Loads (plf)

Vert: 1=-106-to-2=-61

19) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 3-4=-20

Horz: 1-4=21, 1-5=38, 2-3=6

Trapezoidal Loads (plf)

Vert: 1=-106-to-2=-61

20) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 3-4=-20

Horz: 1-4=-6, 1-5=-38, 2-3=-21

Trapezoidal Loads (plf)

Vert: 1=-106-to-2=-61

21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 3-4=-20

Horz: 1-4=-10, 1-5=-25, 2-3=10

Trapezoidal Loads (plf)

Vert: 1=-106-to-2=-61

22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 3-4=-20

Horz: 1-4=-10, 1-5=-25, 2-3=10

Trapezoidal Loads (plf)

Vert: 1=-106-to-2=-61

27) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 3-4=-20

Trapezoidal Loads (plf)

 Job
 Truss
 Truss Type
 Qty
 Ply
 Streets of West Pryor
 I42113142

 B400088
 J21
 Flat
 2
 1
 Job Reference (optional)

Wheeler Lumber. Waver

Waverly, KS - 66871,

ID:yyQ78agb1ZluwnWc1etTPnz53bT-D9NtPzOjgbgVOISm6kztSner9GmBgCXFDWV8CDyvqAb

3-9-0

3-9-0

2-0-0 oc purlins: 1-5, 1-2, except end verticals.

Rigid ceiling directly applied or 6-11-8 oc bracing.

Scale = 1:42.3

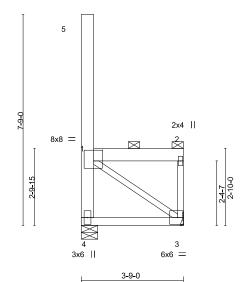


Plate Offsets (	(X,Y)	[1:0-3-12,0-4-12]
-----------------	-------	-------------------

Fide Offsets $(X, T)^{-1} = [1.0-5-12, 0-4-12]$									
LOADING (psf) TCLL (roof) 20.0 Snow (Pf/Pg) 20.4/20.0	SPACING- 2-0-0 Plate Grip DOL 1.15	CSI. TC 0.84	DEFL.         in (loc)         l/defl         L/d         PLATES         GRIP           Vert(LL)         -0.01         3-4         >999         360         MT20         197/144						
TCDL 15.0 BCLL 0.0 * BCDL 10.0	Lumber DOL 1.15 Rep Stress Incr NO Code IBC2018/TPI2014	BC 0.13 WB 0.23 Matrix-P	Vert(CT)       -0.02       3-4       >999       240         Horz(CT)       -0.00       3       n/a       n/a         Wind(LL)       0.00       4       *****       240       Weight: 28 lb       FT =	10%					

**BRACING-**

TOP CHORD

**BOT CHORD** 

**LUMBER-**

TOP CHORD 2x6 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x3 SPF No.2 \*Except\*
4-5: 2x6 SPF No.2

REACTIONS.

(size) 4=0-7-4, 3=Mechanical

Max Horz 4=-348(LC 10)

Max Uplift 4=-431(LC 10), 3=-431(LC 11) Max Grav 4=501(LC 13), 3=501(LC 12)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 1-4=-553/483, 2-3=-175/268

BOT CHORD 3-4=-723/474 WEBS 1-3=-571/850

#### 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; B=80ft; L=40ft; eave=5ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Corner(3) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- 4) Provide adequate drainage to prevent water ponding.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Refer to girder(s) for truss to truss connections.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=431, 3=431.
- This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
   Load case(s) 1, 4, 19, 20, 21, 22, 27 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

## LOAD CASE(S) Standard

Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (plf)
 Vert: 3-4=-20



Continued on page 2



🛕 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 systems, see ANSITP11 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	Streets of West Pryor
B400088	J21	  Flat	2	1	I42113142
D400000	32 I	l lat		'	Job Reference (optional)

Waverly, KS - 66871,

8.410 s May 22 2020 MiTek Industries, Inc. Tue Jul 21 13:45:44 2020 Page 2 ID:yyQ78agb1ZluwnWc1etTPnz53bT-D9NtPzOjgbgVOISm6kztSner9GmBgCXFDWV8CDyvqAb

### LOAD CASE(S) Standard

Trapezoidal Loads (plf)

Vert: 1=-131-to-2=-71

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 3-4=-20

Trapezoidal Loads (plf)

Vert: 1=-106-to-2=-61

19) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 3-4=-20

Horz: 1-4=21, 1-5=38, 2-3=6

Trapezoidal Loads (plf)

Vert: 1=-106-to-2=-61

20) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 3-4=-20

Horz: 1-4=-6, 1-5=-38, 2-3=-21

Trapezoidal Loads (plf)

Vert: 1=-106-to-2=-61

21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 3-4=-20

Horz: 1-4=-10, 1-5=-25, 2-3=10

Trapezoidal Loads (plf)

Vert: 1=-106-to-2=-61

22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 3-4=-20

Horz: 1-4=-10, 1-5=-25, 2-3=10

Trapezoidal Loads (plf)

Vert: 1=-106-to-2=-61

27) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 3-4=-20

Trapezoidal Loads (plf)

Job Truss Truss Type Qty Streets of West Pryor 142113143 B400088 J22 Flat Job Reference (optional)

Wheeler Lumber.

Waverly, KS - 66871,

8.410 s May 22 2020 MiTek Industries, Inc. Tue Jul 21 13:45:45 2020 Page 1 ID:yyQ78agb1ZluwnWc1etTPnz53bT-hLxFcJPLRuoM0S1yfSU6? A19g6RPfnOR9EhlgyvqAa

2-0-0 oc purlins: 1-5, 1-2, except end verticals.

Rigid ceiling directly applied or 7-0-1 oc bracing.

3-9-0

Scale = 1:42.3

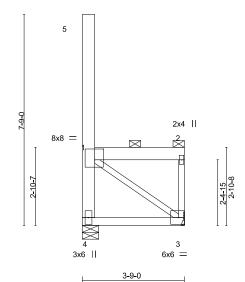


Plate Offsets (X.Y)-- [1:0-3-12.0-4-12]

That Should (X,1) [1.0 0 12,0 1 12]									
LOADING (psf) TCLL (roof) 20.0 Snow (Pf/Pg) 20.4/20.0 TCDL 15.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr NO	CSI. TC 0.82 BC 0.13 WB 0.23	DEFL.         in (loc)         l/defl         L/d           Vert(LL)         -0.01         3-4         >999         360           Vert(CT)         -0.02         3-4         >999         240           Horz(CT)         -0.00         3         n/a         n/a	PLATES GRIP MT20 197/144					
BCLL 0.0 * BCDL 10.0	Code IBC2018/TPI2014	Matrix-P	Wind(LL) 0.00 4 **** 240	Weight: 28 lb FT = 10%					

**BRACING-**TOP CHORD

**BOT CHORD** 

LUMBER-

TOP CHORD 2x6 SPF No.2 **BOT CHORD** 2x4 SPF No.2 WEBS 2x3 SPF No.2 \*Except\* 4-5: 2x6 SPF No.2

REACTIONS.

(size) 4=0-7-4, 3=Mechanical

Max Horz 4=-348(LC 10)

Max Uplift 4=-430(LC 10), 3=-430(LC 11) Max Grav 4=501(LC 13), 3=501(LC 12)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

1-4=-549/484, 2-3=-175/267 TOP CHORD

BOT CHORD 3-4=-714/467 **WEBS** 1-3=-566/843

- 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; B=80ft; L=40ft; eave=5ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Corner(3) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- 4) Provide adequate drainage to prevent water ponding.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Refer to girder(s) for truss to truss connections.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=430, 3=430.
- 9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1. 10) Load case(s) 1, 4, 19, 20, 21, 22, 27 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

## LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf) Vert: 3-4=-20



July 21,2020





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ANSITPH 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	Streets of West Pryor	
						I42113143
B400088	J22	Flat	2	1		
					Job Reference (optional)	

Waverly, KS - 66871,

8.410 s May 22 2020 MiTek Industries, Inc. Tue Jul 21 13:45:46 2020 Page 2 ID:yyQ78agb1ZluwnWc1etTPnz53bT-9XVdpfQzCCwDecc9D9?LXCjCv4Sg861Xgp EH6yvqAZ

### LOAD CASE(S) Standard

Trapezoidal Loads (plf)

Vert: 1=-131-to-2=-71

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 3-4=-20

Trapezoidal Loads (plf)

Vert: 1=-106-to-2=-61

19) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 3-4=-20

Horz: 1-4=21, 1-5=38, 2-3=6

Trapezoidal Loads (plf)

Vert: 1=-106-to-2=-61

20) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 3-4=-20

Horz: 1-4=-6, 1-5=-38, 2-3=-21

Trapezoidal Loads (plf)

Vert: 1=-106-to-2=-61

21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 3-4=-20

Horz: 1-4=-10, 1-5=-25, 2-3=10

Trapezoidal Loads (plf)

Vert: 1=-106-to-2=-61

22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 3-4=-20

Horz: 1-4=-10, 1-5=-25, 2-3=10

Trapezoidal Loads (plf)

Vert: 1=-106-to-2=-61

27) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 3-4=-20

Trapezoidal Loads (plf)

Job Truss Truss Type Qty Streets of West Pryor 142113144 Flat B400088 J23 Job Reference (optional)

Wheeler Lumber.

Waverly, KS - 66871,

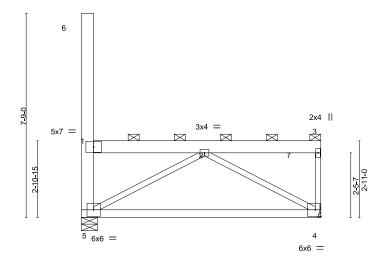
8.410 s May 22 2020 MiTek Industries, Inc. Tue Jul 21 13:45:48 2020 Page 1 ID:yyQ78agb1ZluwnWc1etTPnz53bT-5wdOELREjpAxtwlXLa1pddoYat?rcyhq77TLL yvqAX

2-0-0 oc purlins (6-0-0 max.): 1-6, 1-3, except end verticals.

Rigid ceiling directly applied or 6-4-13 oc bracing.

4-8-0 4-5-0

Scale = 1:43.7



9-1-0

LOADING (psf) TCLL (roof) 20.0 Snow (Pf/Pg) 20.4/20.0 TCDL 15.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15	CSI. TC 0.75 BC 0.66	DEFL. Vert(LL) -0.2 Vert(CT) -0.4	0 4-5	I/defI >524 >262	L/d 360 240	PLATES MT20	<b>GRIP</b> 197/144
BCLL 0.0 * BCDL 10.0	Rep Stress Incr NO Code IBC2018/TPI2014	WB 0.41 Matrix-S	Horz(CT) -0.0 Wind(LL) -0.0		n/a >999	n/a 240	Weight: 49 lb	FT = 10%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x6 SPF No.2 **BOT CHORD** 2x4 SPF No.2

2x3 SPF No.2 \*Except\* **WEBS** 

5-6: 2x6 SPF No.2

REACTIONS.

(size) 5=0-7-4, 4=Mechanical

Max Horz 5=-347(LC 12)

Max Uplift 5=-203(LC 10), 4=-203(LC 11) Max Grav 5=600(LC 20), 4=528(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

1-5=-253/193, 1-2=-531/630 TOP CHORD

**BOT CHORD** 4-5=-770/607

**WEBS** 2-5=-534/580, 2-4=-665/871

#### 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; B=80ft; L=40ft; eave=5ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Corner(3) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- 4) Provide adequate drainage to prevent water ponding.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Refer to girder(s) for truss to truss connections.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 5=203, 4=203.
- 9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- 10) Load case(s) 1, 4, 19, 20, 21, 22, 27 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

# LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

Vert: 3-7=-71, 4-5=-20

OF MISSO ANDREW **THOMAS** JOANSON ROTES SIONAL NUMBER PE-2017018993

July 21,2020





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

ANSITPH Quality Criteria, DSB-89 and BCSI Building Component fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Qu Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job	Truss	Truss Type	Qty	Ply	Streets of West Pryor	
						I42113144
B400088	J23	Flat	1	1		
					Job Reference (optional)	

Waverly, KS - 66871,

8.410 s May 22 2020 MiTek Industries, Inc. Tue Jul 21 13:45:48 2020 Page 2 ID:yyQ78agb1ZluwnWc1etTPnz53bT-5wdOELREjpAxtwlXLa1pddoYat?rcyhq77TLL yvqAX

### LOAD CASE(S) Standard

Trapezoidal Loads (plf)

Vert: 1=-131-to-7=-71

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 3-7=-61, 4-5=-20

Trapezoidal Loads (plf)

Vert: 1=-106-to-7=-61

19) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 3-7=-61, 4-5=-20

Horz: 1-5=21, 1-6=38, 3-4=6

Trapezoidal Loads (plf)

Vert: 1=-106-to-7=-61

20) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 3-7=-61, 4-5=-20

Horz: 1-5=-6, 1-6=-38, 3-4=-21

Trapezoidal Loads (plf)

Vert: 1=-106-to-7=-61

21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 3-7=-61, 4-5=-20

Horz: 1-5=-10, 1-6=-25, 3-4=10

Trapezoidal Loads (plf)

Vert: 1=-106-to-7=-61

22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 3-7=-61, 4-5=-20

Horz: 1-5=-10, 1-6=-25, 3-4=10

Trapezoidal Loads (plf)

Vert: 1=-106-to-7=-61

27) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 3-7=-70, 4-5=-20

Trapezoidal Loads (plf)

Job Truss Truss Type Qty Streets of West Pryor 142113145 B400088 J24 Flat Job Reference (optional)

Wheeler Lumber.

Waverly, KS - 66871,

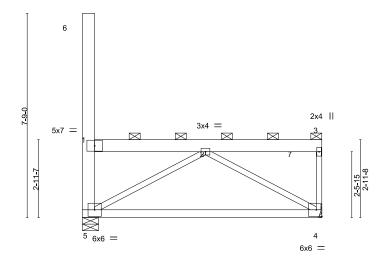
8.410 s May 22 2020 MiTek Industries, Inc. Tue Jul 21 13:45:49 2020 Page 1 ID:yyQ78agb1ZluwnWc1etTPnz53bT-Z6AmSgSsU7InV4KjuHY29qLjZHL4LPy MnCvuRyvqAW

2-0-0 oc purlins (6-0-0 max.): 1-6, 1-3, except end verticals.

Rigid ceiling directly applied or 6-5-6 oc bracing.

4-8-0 4-5-0

Scale = 1:43.7



9-1-0

LOADING (psf) TCLL (roof) 20.0 Snow (Pf/Pg) 20.4/20.0 TCDL 15.0	SPACING-         2-0-0           Plate Grip DOL         1.15           Lumber DOL         1.15	CSI. TC 0.73 BC 0.66	DEFL. Vert(LL) -0.0 Vert(CT) -0.0	.40 4-5	I/defI >523 >262	L/d 360 240	PLATES MT20	<b>GRIP</b> 197/144
BCLL 0.0 * BCDL 10.0	Rep Stress Incr NO Code IBC2018/TPI2014	WB 0.41 Matrix-S	Horz(CT) -0.1 Wind(LL) -0.1		n/a >999	n/a 240	Weight: 49 lb	FT = 10%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x6 SPF No.2 **BOT CHORD** 2x4 SPF No.2

2x3 SPF No.2 \*Except\* **WEBS** 

5-6: 2x6 SPF No.2

REACTIONS.

(size) 5=0-7-4, 4=Mechanical

Max Horz 5=-346(LC 12)

Max Uplift 5=-203(LC 10), 4=-203(LC 11) Max Grav 5=600(LC 20), 4=528(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

1-5=-253/192, 1-2=-522/619 TOP CHORD

**BOT CHORD** 4-5=-759/598

**WEBS** 2-5=-528/575, 2-4=-657/861

#### 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; B=80ft; L=40ft; eave=5ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Corner(3) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- 4) Provide adequate drainage to prevent water ponding.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Refer to girder(s) for truss to truss connections.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 5=203, 4=203.
- 9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1. 10) Load case(s) 1, 4, 19, 20, 21, 22, 27 has/have been modified. Building designer must review loads to verify that they are correct for
- the intended use of this truss
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

#### LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

Vert: 3-7=-71, 4-5=-20



July 21,2020

#### Continued on page 2



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Job	Truss	Truss Type	Qty	Ply	Streets of West Pryor	
						I42113145
B400088	J24	Flat	1	1		
					Job Reference (optional)	

Waverly, KS - 66871,

8.410 s May 22 2020 MiTek Industries, Inc. Tue Jul 21 13:45:50 2020 Page 2 ID:yyQ78agb1ZluwnWc1etTPnz53bT-1Jk8f0TUFRQe6DvwS?3Hi2uuJhhJ4sB7bRySQtyvqAV

#### LOAD CASE(S) Standard

Trapezoidal Loads (plf)

Vert: 1=-131-to-7=-71

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 3-7=-61, 4-5=-20

Trapezoidal Loads (plf)

Vert: 1=-106-to-7=-61

19) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 3-7=-61, 4-5=-20

Horz: 1-5=21, 1-6=38, 3-4=6

Trapezoidal Loads (plf)

Vert: 1=-106-to-7=-61

20) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 3-7=-61, 4-5=-20

Horz: 1-5=-6, 1-6=-38, 3-4=-21

Trapezoidal Loads (plf)

Vert: 1=-106-to-7=-61

21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 3-7=-61, 4-5=-20

Horz: 1-5=-10, 1-6=-25, 3-4=10

Trapezoidal Loads (plf)

Vert: 1=-106-to-7=-61

22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 3-7=-61, 4-5=-20

Horz: 1-5=-10, 1-6=-25, 3-4=10

Trapezoidal Loads (plf)

Vert: 1=-106-to-7=-61

27) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 3-7=-70, 4-5=-20

Trapezoidal Loads (plf)

Job Truss Truss Type Qty Streets of West Pryor 142113146 Flat B400088 J25 Job Reference (optional)

Wheeler Lumber.

Waverly, KS - 66871,

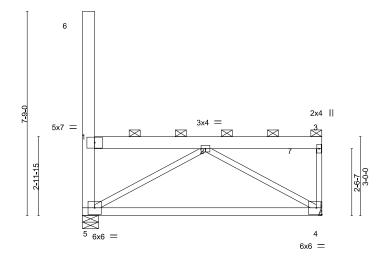
8.410 s May 22 2020 MiTek Industries, Inc. Tue Jul 21 13:45:50 2020 Page 1 ID:yyQ78agb1ZluwnWc1etTPnz53bT-1Jk8f0TUFRQe6DvwS?3Hi2uuYhhI4sD7bRySQtyvqAV

2-0-0 oc purlins (6-0-0 max.): 1-6, 1-3, except end verticals.

Rigid ceiling directly applied or 6-5-15 oc bracing.

4-8-0 4-5-0

Scale = 1:43.7



9-1-0

LOADING (psf) TCLL (roof) 20.0 Snow (Pf/Pg) 20.4/20.0 TCDL 15.0	SPACING-         2-0-0           Plate Grip DOL         1.15           Lumber DOL         1.15	CSI. TC 0.72 BC 0.66	DEFL. Vert(LL) -0.2 Vert(CT) -0.4	10 4-5	I/defI >522 >261	L/d 360 240	PLATES MT20	<b>GRIP</b> 197/144
BCLL 0.0 * BCDL 10.0	Rep Stress Incr NO Code IBC2018/TPI2014	WB 0.40 Matrix-S	Horz(CT) -0.0 Wind(LL) -0.0		n/a >999	n/a 240	Weight: 49 lb	FT = 10%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x6 SPF No.2 **BOT CHORD** 2x4 SPF No.2

2x3 SPF No.2 \*Except\* **WEBS** 5-6: 2x6 SPF No.2

REACTIONS.

(size) 5=0-7-4, 4=Mechanical

Max Horz 5=346(LC 11)

Max Uplift 5=-203(LC 10), 4=-203(LC 11) Max Grav 5=599(LC 20), 4=528(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

1-5=-252/191, 1-2=-513/608 TOP CHORD

**BOT CHORD** 4-5=-748/589

**WEBS** 2-5=-523/570, 2-4=-650/852

#### 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; B=80ft; L=40ft; eave=5ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Corner(3) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- 4) Provide adequate drainage to prevent water ponding.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Refer to girder(s) for truss to truss connections.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 5=203, 4=203.
- 9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1. 10) Load case(s) 1, 4, 19, 20, 21, 22, 27 has/have been modified. Building designer must review loads to verify that they are correct for
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

# LOAD CASE(S) Standard

the intended use of this truss

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

Vert: 3-7=-71, 4-5=-20

OF MISSO ANDREW **THOMAS** OANSON NUMBER ROLLESSIONAL SIONAL PE-2017018993

July 21,2020





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

ANSITPH Quality Criteria, DSB-89 and BCSI Building Component fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Qu Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job	Truss	Truss Type	Qty	Ply	Streets of West Pryor	
						I42113146
B400088	J25	Flat	1	1		
					Job Reference (optional)	

Waverly, KS - 66871,

8.410 s May 22 2020 MiTek Industries, Inc. Tue Jul 21 13:45:50 2020 Page 2 ID:yyQ78agb1ZluwnWc1etTPnz53bT-1Jk8f0TUFRQe6DvwS?3Hi2uuYhhI4sD7bRySQtyvqAV

### LOAD CASE(S) Standard

Trapezoidal Loads (plf)

Vert: 1=-131-to-7=-71

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 3-7=-61, 4-5=-20

Trapezoidal Loads (plf)

Vert: 1=-106-to-7=-61

19) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 3-7=-61, 4-5=-20

Horz: 1-5=21, 1-6=38, 3-4=6

Trapezoidal Loads (plf)

Vert: 1=-106-to-7=-61

20) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 3-7=-61, 4-5=-20

Horz: 1-5=-6, 1-6=-38, 3-4=-21

Trapezoidal Loads (plf)

Vert: 1=-106-to-7=-61

21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 3-7=-61, 4-5=-20

Horz: 1-5=-10, 1-6=-25, 3-4=10

Trapezoidal Loads (plf)

Vert: 1=-106-to-7=-61

22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 3-7=-61, 4-5=-20

Horz: 1-5=-10, 1-6=-25, 3-4=10

Trapezoidal Loads (plf)

Vert: 1=-106-to-7=-61

27) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 3-7=-70, 4-5=-20

Trapezoidal Loads (plf)

Job Truss Truss Type Qty Streets of West Pryor 142113147 Flat B400088 J26 Job Reference (optional)

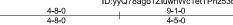
Wheeler Lumber.

Waverly, KS - 66871,

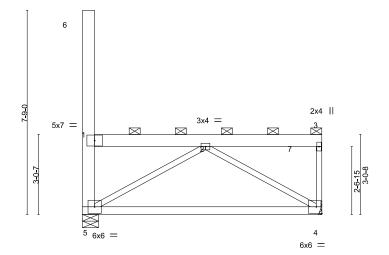
8.410 s May 22 2020 MiTek Industries, Inc. Tue Jul 21 13:45:51 2020 Page 1 ID:yyQ78agb1ZluwnWc1etTPnz53bT-WVIWtMT60kYVkNU60ibWEFQ4W51XpJUHq5h?yJyvqAU

2-0-0 oc purlins (6-0-0 max.): 1-6, 1-3, except end verticals.

Rigid ceiling directly applied or 6-6-7 oc bracing.



Scale = 1:43.7



9-1-0

LOADING (psf) FCLL (roof) Snow (Pf/Pg) 20 FCDL	20.0 0.4/20.0 15.0	<b>SPACING-</b> Plate Grip DOL Lumber DOL	2-0-0 1.15 1.15	CSI. TC BC	0.70 0.66	DEFL. Vert(LL) Vert(CT)	in -0.20 -0.40	(loc) 4-5 4-5	I/defI >521 >261	L/d 360 240	PLATES MT20	<b>GRIP</b> 197/144
BCLL	0.0 *	Rep Stress Incr	NO 212014	WB Matri	0.40 v-S	Horz(CT)	-0.01 -0.01	4 4-5	n/a >aaa	n/a 240	Weight: 49 lb	FT = 10%
BCLL BCDL	0.0 * 10.0	Code IBC2018/TF		Matri		Wind(LL)	-0.01	4-5	>999	240	Weigh	t: 49 <b>l</b> b

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x6 SPF No.2 **BOT CHORD** 2x4 SPF No.2

2x3 SPF No.2 \*Except\* **WEBS** 5-6: 2x6 SPF No.2

REACTIONS.

(size) 5=0-7-4, 4=Mechanical

Max Horz 5=-345(LC 10)

Max Uplift 5=-203(LC 10), 4=-203(LC 11) Max Grav 5=599(LC 20), 4=528(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

1-5=-252/191, 1-2=-504/598 TOP CHORD

**BOT CHORD** 4-5=-738/580

**WEBS** 2-5=-517/565, 2-4=-643/843

#### 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; B=80ft; L=40ft; eave=5ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Corner(3) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- 4) Provide adequate drainage to prevent water ponding.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Refer to girder(s) for truss to truss connections.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 5=203, 4=203.
- 9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1. 10) Load case(s) 1, 4, 19, 20, 21, 22, 27 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

# LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

Vert: 3-7=-71, 4-5=-20



July 21,2020





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

ANSITPH Quality Criteria, DSB-89 and BCSI Building Component fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Qu Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job	Truss	Truss Type	Qty	Ply	Streets of West Pryor	
						I42113147
B400088	J26	Flat	1	1		
					Job Reference (optional)	

Waverly, KS - 66871,

8.410 s May 22 2020 MiTek Industries, Inc. Tue Jul 21 13:45:51 2020 Page 2 ID:yyQ78agb1ZluwnWc1etTPnz53bT-WVIWtMT60kYVkNU60ibWEFQ4W51XpJUHq5h?yJyvqAU

### LOAD CASE(S) Standard

Trapezoidal Loads (plf)

Vert: 1=-131-to-7=-71

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 3-7=-61, 4-5=-20

Trapezoidal Loads (plf)

Vert: 1=-106-to-7=-61

19) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 3-7=-61, 4-5=-20

Horz: 1-5=21, 1-6=38, 3-4=6

Trapezoidal Loads (plf)

Vert: 1=-106-to-7=-61

20) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 3-7=-61, 4-5=-20

Horz: 1-5=-6, 1-6=-38, 3-4=-21

Trapezoidal Loads (plf)

Vert: 1=-106-to-7=-61

21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 3-7=-61, 4-5=-20

Horz: 1-5=-10, 1-6=-25, 3-4=10

Trapezoidal Loads (plf)

Vert: 1=-106-to-7=-61

22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 3-7=-61, 4-5=-20

Horz: 1-5=-10, 1-6=-25, 3-4=10

Trapezoidal Loads (plf)

Vert: 1=-106-to-7=-61

27) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 3-7=-70, 4-5=-20

Trapezoidal Loads (plf)

Job Truss Truss Type Qty Streets of West Pryor 142113148 J27 Flat B400088 Job Reference (optional)

Wheeler Lumber.

Waverly, KS - 66871,

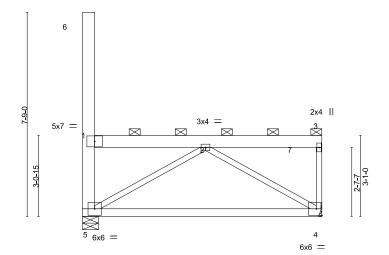
8.410 s May 22 2020 MiTek Industries, Inc. Tue Jul 21 13:45:52 2020 Page 1 ID:yyQ78agb1ZluwnWc1etTPnz53bT- hsv4iUkn2gMMX3IaQ6InTzFUUNmYmlQ2IRZUmyvqAT

2-0-0 oc purlins (6-0-0 max.): 1-6, 1-3, except end verticals.

Rigid ceiling directly applied or 6-7-0 oc bracing.

4-8-0 4-5-0

Scale = 1:43.7



LOADING (psf) TCLL (roof) 20.0 Snow (Pf/Pg) 20.4/20.0 TCDL 15.0 BCLL 0.0 *	SPACING-         2-0-0           Plate Grip DOL         1.15           Lumber DOL         1.15           Rep Stress Incr         NO	CSI. TC 0.69 BC 0.66 WB 0.40	DEFL. i. Vert(LL) -0.2 Vert(CT) -0.4 Horz(CT) -0.0	0 4-5 1 4	I/defI >520 >260 n/a	L/d 360 240 n/a	PLATES MT20	<b>GRIP</b> 197/144
BCDL 10.0	Code IBC2018/TPI2014	Matrix-S	Wind(LL) -0.0	1 4-5	>999	240	Weight: 49 lb	FT = 10%

**BRACING-**

TOP CHORD

BOT CHORD

LUMBER-

2x6 SPF No.2 TOP CHORD **BOT CHORD** 2x4 SPF No.2

2x3 SPF No.2 \*Except\* **WEBS** 

5-6: 2x6 SPF No.2

REACTIONS.

(size) 5=0-7-4, 4=Mechanical

Max Horz 5=-345(LC 10)

Max Uplift 5=-203(LC 10), 4=-203(LC 11) Max Grav 5=599(LC 20), 4=528(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

1-5=-252/190, 1-2=-496/588 TOP CHORD

**BOT CHORD** 4-5=-728/571

**WEBS** 2-5=-512/560, 2-4=-636/834

#### 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; B=80ft; L=40ft; eave=5ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Corner(3) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- 4) Provide adequate drainage to prevent water ponding.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Refer to girder(s) for truss to truss connections.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 5=203, 4=203.
- 9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- 10) Load case(s) 1, 4, 19, 20, 21, 22, 27 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

# LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

Vert: 3-7=-71, 4-5=-20

OF MISSO ANDREW **THOMAS** JOINSON PL PL STONAL NUMBER PE-2017018993

July 21,2020





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

ANSITPH 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	Streets of West Pryor
	107				I42113148
B400088	J27	Flat 	1	1	Job Reference (optional)

Waverly, KS - 66871,

8.410 s May 22 2020 MiTek Industries, Inc. Tue Jul 21 13:45:52 2020 Page 2 ID:yyQ78agb1ZluwnWc1etTPnz53bT- hsv4iUkn2gMMX3IaQ6InTzFUUNmYmIQ2IRZUmyvqAT

### LOAD CASE(S) Standard

Trapezoidal Loads (plf)

Vert: 1=-131-to-7=-71

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 3-7=-61, 4-5=-20

Trapezoidal Loads (plf)

Vert: 1=-106-to-7=-61

19) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 3-7=-61, 4-5=-20

Horz: 1-5=21, 1-6=38, 3-4=6

Trapezoidal Loads (plf)

Vert: 1=-106-to-7=-61

20) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 3-7=-61, 4-5=-20

Horz: 1-5=-6, 1-6=-38, 3-4=-21

Trapezoidal Loads (plf)

Vert: 1=-106-to-7=-61

21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 3-7=-61, 4-5=-20

Horz: 1-5=-10, 1-6=-25, 3-4=10

Trapezoidal Loads (plf)

Vert: 1=-106-to-7=-61

22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 3-7=-61, 4-5=-20

Horz: 1-5=-10, 1-6=-25, 3-4=10

Trapezoidal Loads (plf)

Vert: 1=-106-to-7=-61

27) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 3-7=-70, 4-5=-20

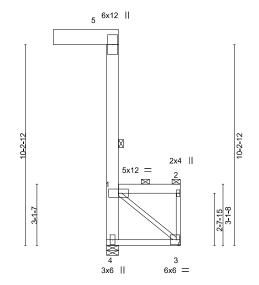
Trapezoidal Loads (plf)

Job Truss Truss Type Qty Streets of West Prvor 42113149 B400088 J28 Flat Job Reference (optional)

Wheeler Lumber, Waverly, KS 66871, Mitek

8.410 s May 22 2020 MiTek Industries, Inc. Tue Jul 21 15:11:22 2020 Page 1 ID:yyQ78agb1ZluwnWc1etTPnz53bT-pDDZSqVvcidqAvsxZ0XghnR\_UQL0VuUWht70YQyvowJ 3-9-0 3-9-0

Scale = 1:58.7



LOADING (psf) TCLL (roof) 20.0 Snow (Pf/Pg) 20.4/20.0	SPACING-         2-0-0           Plate Grip DOL         1.15           Lumber DOL         1.15	CSI. TC 0.46 BC 0.21	DEFL. in Vert(LL) -0.01 Vert(CT) -0.01	(loc) 3-4 3-4	I/defl >999 >999	L/d 360 240	PLATES MT20	<b>GRIP</b> 197/144
TCDL 15.0 BCLL 0.0 * BCDL 10.0	Rep Stress Incr NO Code IBC2018/TPI2014	WB 0.48 Matrix-P	Horz(CT) -0.01 Wind(LL) 0.00	3 4	n/a ****	n/a 240	Weight: 59 lb	FT = 10%

3-9-0

LUMBER-BRACING-

> TOP CHORD 2-0-0 oc purlins: 1-5, 1-2, except end verticals. Except:

6-0-0 oc bracing: 1-4

10-0-0 oc bracing: 1-5

2x3 SPF No.2 \*Except\* **BOT CHORD** Rigid ceiling directly applied or 5-1-4 oc bracing. 4-5: 2x8 SP 2400F 2.0E **WEBS** 1 Row at midpt 1-5

REACTIONS. (lb/size) 4=283/0-7-4, 3=217/Mechanical

Max Horz 4=472(LC 13)

2x6 SPF No.2 \*Except\*

5-6: 2x10 SP DSS

2x4 SPF No.2

Max Uplift 4=-773(LC 10), 3=-773(LC 11) Max Grav 4=842(LC 13), 3=842(LC 12)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 1-4=-1002/793 **BOT CHORD** 3-4=-1351/949 WEBS 1-3=-1193/1702

TOP CHORD

BOT CHORD

**WEBS** 

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; B=80ft; L=40ft; eave=5ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Corner(3) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- 4) Provide adequate drainage to prevent water ponding.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) All bearings are assumed to be DF No.2 crushing capacity of 625 psi.
- Refer to girder(s) for truss to truss connections.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 773 lb uplift at joint 4 and 773 lb uplift at
- 10) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- 11) Load case(s) 1, 4, 20, 21, 22, 23, 28 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

### LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

Vert: 3-4=-20



July 21,2020

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🗥 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 systems, see

ANSITPH 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	Streets of West Pryor
				'	I42113149
B400088	J28	Flat	2	1	
					Job Reference (optional)
Wheeler Lumber, Waverly, KS 668	71, Mitek		•		8.410 s May 22 2020 MiTek Industries, Inc. Tue Jul 21 15:11:22 2020 Page 2
•		ID:yyQ7	8agb1Zluv	vnWc1etTF	Pnz53bT-pDDZSqVvcidqAvsxZ0XghnR UQL0VuUWht70YQyvowJ
		• •	•		· · · · · · · · · · · · · · · · · · ·

# LOAD CASE(S) Standard

Trapezoidal Loads (plf)

Vert: 1=-188-to-2=-71

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf) Vert: 3-4=-20

Trapezoidal Loads (plf) Vert: 1=-149-to-2=-61

20) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf) Vert: 3-4=-20

Horz: 1-4=21, 1-5=38, 2-3=6

Trapezoidal Loads (plf)

Vert: 1=-149-to-2=-61

21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 3-4=-20

Horz: 1-4=-6, 1-5=-38, 2-3=-21

Trapezoidal Loads (plf)

Vert: 1=-149-to-2=-61

22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 3-4=-20

Horz: 1-4=-10, 1-5=-25, 2-3=10

Trapezoidal Loads (plf)

Vert: 1=-149-to-2=-61

23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf) Vert: 3-4=-20

Horz: 1-4=-10, 1-5=-25, 2-3=10

Trapezoidal Loads (plf)

Vert: 1=-149-to-2=-61

28) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 3-4=-20

Trapezoidal Loads (plf)

Vert: 1=-187-to-2=-70

Job Truss Truss Type Qty Streets of West Prvor 42113150 B400088 J29 Flat Job Reference (optional)

Wheeler Lumber, Waverly, KS 66871, Mitek

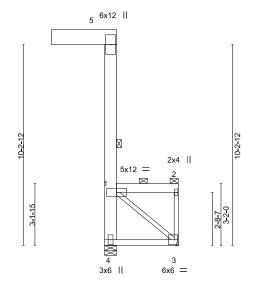
8.410 s May 22 2020 MiTek Industries, Inc. Tue Jul 21 15:11:32 2020 Page 1 ID:yyQ78agb1ZluwnWc1etTPnz53bT-W8qLYFcAGnuQMRds96i05ush2SIPrQx\_?RYYvryvow9 3-9-0

2-0-0 oc purlins: 1-5, 1-2, except end verticals. Except:

6-0-0 oc bracing: 1-4

10-0-0 oc bracing: 1-5

Scale = 1:58.7



ı	3-9-0	1
Г	3-9-0	7

LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL.	in (loc	c) I/defl	L/d	PLATES	GRIP
TCLL (roof) 20.0	Plate Grip DOL 1.15	TC 0.45	Vert(LL)	-0.01 3-	,	360	MT20	197/144
Snow (Pf/Pg) 20.4/20.0	Lumber DOL 1.15	BC 0.21	Vert(CT)	-0.01 3-	-4 >999	240		
TCDL 15.0	Rep Stress Incr NO	WB 0.48	Horz(CT)	-0.01	3 n/a	n/a		
BCLL 0.0 *	Code IBC2018/TPI2014	Matrix-P	Wind(LL)	0.00	A ****	240	Weight: 59 lb	FT = 10%
BCDL 10.0	0000 1502010/11 12014	Widd IX-1	******(LL)	0.00	-	2-10	Troigitt. 55 lb	1 1 - 1070

LUMBER-BRACING-

TOP CHORD 2x6 SPF No.2 \*Except\* TOP CHORD

5-6: 2x10 SP DSS 2x4 SPF No.2 BOT CHORD **WEBS** 

2x3 SPF No.2 \*Except\* **BOT CHORD** Rigid ceiling directly applied or 5-1-11 oc bracing. 4-5: 2x8 SP 2400F 2.0E **WEBS** 1 Row at midpt 1-5

REACTIONS. (lb/size) 4=283/0-7-4, 3=217/Mechanical

Max Horz 4=472(LC 13)

Max Uplift 4=-773(LC 10), 3=-773(LC 11) Max Grav 4=842(LC 13), 3=842(LC 12)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 1-4=-997/793 **BOT CHORD** 3-4=-1332/935 WEBS 1-3=-1181/1686

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; B=80ft; L=40ft; eave=5ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Corner(3) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- 4) Provide adequate drainage to prevent water ponding.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) All bearings are assumed to be DF No.2 crushing capacity of 625 psi.
- 8) Refer to girder(s) for truss to truss connections.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 773 lb uplift at joint 4 and 773 lb uplift at
- 10) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- 11) Load case(s) 1, 4, 18, 20, 21, 22, 23, 28 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

## LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

Vert: 3-4=-20



July 21,2020

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🗥 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.



ı	Job	Truss	Truss Type	Qty	Ply	Streets of West Pryor	
ı			•	1		· I	42113150
ı	B400088	J29	Flat	2	1		
ı						Job Reference (optional)	
•	Wheeler Lumber, Waverly, KS 668	371, Mitek		•		8.410 s May 22 2020 MiTek Industries, Inc. Tue Jul 21 15:11:32 2020 P	age 2
	· · · · · · · ·		ID:vvC	78agb1Zli	uwnWc1et7	FPnz53bT-W8aLYFcAGnuQMRds96i05ush2SIPrQx ?RYYvrvv	vow9

## LOAD CASE(S) Standard

Trapezoidal Loads (plf)

Vert: 1=-188-to-2=-71

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf) Vert: 3-4=-20

Trapezoidal Loads (plf)

Vert: 1=-149-to-2=-61

18) Dead + Snow on Overhangs: Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90

Uniform Loads (plf)

Vert: 3-4=-20

Trapezoidal Loads (plf)

Vert: 1=-147-to-2=-30

20) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 3-4=-20

Horz: 1-4=21, 1-5=38, 2-3=6

Trapezoidal Loads (plf)

Vert: 1=-149-to-2=-61

21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 3-4=-20

Horz: 1-4=-6, 1-5=-38, 2-3=-21

Trapezoidal Loads (plf)

Vert: 1=-149-to-2=-61

22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 3-4=-20

Horz: 1-4=-10, 1-5=-25, 2-3=10

Trapezoidal Loads (plf)

Vert: 1=-149-to-2=-61

23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 3-4=-20

Horz: 1-4=-10, 1-5=-25, 2-3=10

Trapezoidal Loads (plf)

Vert: 1=-149-to-2=-61

28) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 3-4=-20

Trapezoidal Loads (plf)

Vert: 1=-187-to-2=-70

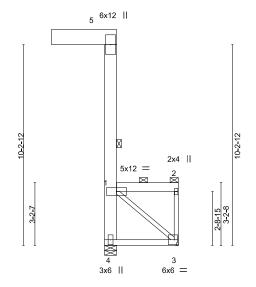
Job Truss Truss Type Qty Streets of West Prvor 42113151 B400088 J30 Flat Job Reference (optional)

Wheeler Lumber, Waverly, KS 66871, Mitek

8.410 s May 22 2020 MiTek Industries, Inc. Tue Jul 21 15:11:45 2020 Page 1 ID:yyQ78agb1ZluwnWc1etTPnz53bT-de6GHhmKCnXaQR7MPLR37duwsiBTOI8u\_yBkrayvovy

3-9-0 3-9-0

Scale = 1:58.7



3-9-0	
3-9-0	

LOADING (psf) TCLL (roof) 20.0 Snow (Pf/Pg) 20.4/20.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15	<b>CSI.</b> TC 0.44 BC 0.21	DEFL. Vert(LL) -0.0 Vert(CT) -0.0	I/defl >999 >999	L/d 360 240	PLATES MT20	<b>GRIP</b> 197/144
TCDL 15.0 BCLL 0.0 * BCDL 10.0	Rep Stress Incr NO Code IBC2018/TPI2014	WB 0.49 Matrix-P	Horz(CT) -0.0 Wind(LL) 0.0	n/a ****	n/a 240	Weight: 59 lb	FT = 10%

LUMBER-BRACING-

TOP CHORD 2x6 SPF No.2 \*Except\* TOP CHORD 2-0-0 oc purlins: 1-5, 1-2, except end verticals. Except: 5-6: 2x10 SP DSS

6-0-0 oc bracing: 1-4

2x4 SPF No.2 10-0-0 oc bracing: 1-5 **BOT CHORD** 

2x3 SPF No.2 \*Except\* Rigid ceiling directly applied or 5-2-2 oc bracing. 4-5: 2x8 SP 2400F 2.0E **WEBS** 1 Row at midpt 1-5

REACTIONS. (lb/size) 4=283/0-7-4, 3=217/Mechanical

Max Horz 4=-471(LC 10)

Max Uplift 4=-772(LC 10), 3=-772(LC 11) Max Grav 4=841(LC 13), 3=841(LC 12)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 1-4=-992/792 **BOT CHORD** 3-4=-1314/921 WEBS 1-3=-1170/1672

BOT CHORD

**WEBS** 

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; B=80ft; L=40ft; eave=5ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Corner(3) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- 4) Provide adequate drainage to prevent water ponding.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) All bearings are assumed to be DF No.2 crushing capacity of 625 psi.
- 8) Refer to girder(s) for truss to truss connections.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 772 lb uplift at joint 4 and 772 lb uplift at
- 10) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- 11) Load case(s) 1, 4, 20, 21, 22, 23, 28 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

## LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

Vert: 3-4=-20



July 21,2020

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🗥 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.



ı	Job	Truss	Truss Type	Qty	Ply	Streets of West Pryor	
	B400088	130	Flat	2	i ,	M42113	151
	540008		riat	2	'	Job Reference (optional)	
	Wheeler Lumber, Waverly, KS 668	371, Mitek				8.410 s May 22 2020 MiTek Industries, Inc. Tue Jul 21 15:11:45 2020 Page 2	
			ID:yyQ7	8agb1ZIu	wnWc1etTl	Pnz53bT-de6GHhmKCnXaQR7MPLR37duwsiBTOI8u_yBkrayvovy	

## LOAD CASE(S) Standard Trapezoidal Loads (plf)

Vert: 1=-188-to-2=-71

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf) Vert: 3-4=-20 Trapezoidal Loads (plf) Vert: 1=-149-to-2=-61

20) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf) Vert: 3-4=-20

Horz: 1-4=21, 1-5=38, 2-3=6

Trapezoidal Loads (plf)

Vert: 1=-149-to-2=-61

21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf) Vert: 3-4=-20 Horz: 1-4=-6, 1-5=-38, 2-3=-21

Trapezoidal Loads (plf)

Vert: 1=-149-to-2=-61 22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert: 3-4=-20

Horz: 1-4=-10, 1-5=-25, 2-3=10 Trapezoidal Loads (plf)

Vert: 1=-149-to-2=-61 23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf) Vert: 3-4=-20 Horz: 1-4=-10, 1-5=-25, 2-3=10 Trapezoidal Loads (plf) Vert: 1=-149-to-2=-61

28) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf) Vert: 3-4=-20 Trapezoidal Loads (plf) Vert: 1=-187-to-2=-70 Job Truss Truss Type Qty Streets of West Prvor 42113152 B400088 J31 Flat Job Reference (optional)

Wheeler Lumber, Waverly, KS 66871, Mitek

8.410 s May 22 2020 MiTek Industries, Inc. Tue Jul 21 15:11:54 2020 Page 1 ID:yyQ78agb1ZluwnWc1etTPnz53bT-tN9fAmtz4Yfl?qJ4Rk6A\_XmOaKGa?M?D2stjfZyvovp 3-9-0

Scale = 1:58.7

3-9-0

5 5x12 || 2x4 || 4x9 =3.2.15

3-9-0	ı
3-9-0	1

3

6x6 =

LOADING (psf) TCLL (roof) 20.0 Snow (Pf/Pg) 20.4/20.0 TCDL 15.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr NO	CSI. TC 0.76 BC 0.21 WB 0.51	<b>DEFL.</b> in (loc) I/defl L/d Vert(LL) -0.01 3-4 >999 360 Vert(CT) -0.02 3-4 >999 240 Horz(CT) -0.01 3 n/a n/a	<b>PLATES GRIP</b> MT20 197/144
BCLL 0.0 * BCDL 10.0	Code IBC2018/TPI2014	Matrix-P	Wind(LL) 0.00 4 **** 240	Weight: 51 lb FT = 10%

3x6 ||

LUMBER-BRACING-

TOP CHORD 2x6 SPF No.2 \*Except\* TOP CHORD 2-0-0 oc purlins: 1-5, 1-2, except end verticals. Except: 5-6: 2x10 SP DSS

6-0-0 oc bracing: 1-4 7-3-0 oc bracing: 1-5

2x4 SPF No.2 BOT CHORD **BOT CHORD WEBS** 

2x3 SPF No.2 \*Except\* Rigid ceiling directly applied or 5-2-8 oc bracing. 4-5: 2x6 SP 2400F 2.0E **WEBS** 1 Row at midpt 1-5

REACTIONS. (lb/size) 4=292/0-7-4, 3=223/Mechanical

Max Horz 4=471(LC 13)

Max Uplift 4=-756(LC 10), 3=-756(LC 11) Max Grav 4=826(LC 13), 3=826(LC 12)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 1-4=-969/776 **BOT CHORD** 3-4=-1296/908 WEBS 1-3=-1149/1642

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; B=80ft; L=40ft; eave=5ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Corner(3) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- 4) Provide adequate drainage to prevent water ponding.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) All bearings are assumed to be DF No.2 crushing capacity of 625 psi.
- 8) Refer to girder(s) for truss to truss connections.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 756 lb uplift at joint 4 and 756 lb uplift at
- 10) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- 11) Load case(s) 1, 4, 20, 21, 22, 23, 28 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

## LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

Vert: 3-4=-20



July 21,2020

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🗥 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.



Job	Truss	Truss Type	Qty	Ply	Streets of West Pryor	
						<b>I</b> 42113152
B400088	J31	Flat	2	1	I-b Defended (authority	
					Job Reference (optional)	
Wheeler Lumber, Waverly, KS 668	371, Mitek				8.410 s May 22 2020 MiTek Industries, Inc. Tue Jul 21 15:11:54 2020	
		ID:y	yQ78agb1	IZIuwnWc1	etTPnz53bT-tN9fAmtz4YfI?qJ4Rk6A_XmOaKGa?M?D2stjfZ	/vovp
LOAD CASE(S) Standard						

Trapezoidal Loads (plf) Vert: 1=-191-to-2=-71 4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf) Vert: 3-4=-20 Trapezoidal Loads (plf) Vert: 1=-151-to-2=-61 20) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert: 3-4=-20 Horz: 1-4=21, 1-5=38, 2-3=6 Trapezoidal Loads (plf) Vert: 1=-151-to-2=-61 21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert: 3-4=-20 Horz: 1-4=-6, 1-5=-38, 2-3=-21 Trapezoidal Loads (plf) Vert: 1=-151-to-2=-61 22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert: 3-4=-20 Horz: 1-4=-10, 1-5=-25, 2-3=10 Trapezoidal Loads (plf) Vert: 1=-151-to-2=-61 23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert: 3-4=-20 Horz: 1-4=-10, 1-5=-25, 2-3=10 Trapezoidal Loads (plf) Vert: 1=-151-to-2=-61 28) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf) Vert: 3-4=-20 Trapezoidal Loads (plf)

Vert: 1=-190-to-2=-70







Job Truss Truss Type Qty Streets of West Prvor 42113153 B400088 J32 Flat Job Reference (optional)

Wheeler Lumber, Waverly, KS 66871, Mitek

8.410 s May 22 2020 MiTek Industries, Inc. Tue Jul 21 15:12:06 2020 Page 1 ID:yyQ78agb1ZluwnWc1etTPnz53bT-WguCht1VFEAbSgEO8FK\_U3GRi9MRpox\_pjnL5syvovd 3-9-0 3-9-0

Scale = 1:58.7

5 5x12 || 2x4 || 4x9 =

3-9-0	ı
3-9-0	1

3

6x6 =

LOADING (psf) TCLL (roof) 20.0 Snow (Pf/Pg) 20.4/20.0 TCDL 15.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15	CSI. TC 0.75 BC 0.20	<b>DEFL.</b> ir Vert(LL) -0.01 Vert(CT) -0.02	3-4	I/defl >999 >999	L/d 360 240	PLATES MT20	<b>GRIP</b> 197/144
BCLL 0.0 * BCDL 10.0	Rep Stress Incr NO Code IBC2018/TPI2014	WB 0.51 Matrix-P	Horz(CT) -0.01 Wind(LL) 0.00		n/a ****	n/a 240	Weight: 51 lb	FT = 10%

3x6 ||

LUMBER-BRACING-

TOP CHORD 2x6 SPF No.2 \*Except\* TOP CHORD 2-0-0 oc purlins: 1-5, 1-2, except end verticals. Except: 5-6: 2x10 SP DSS

6-0-0 oc bracing: 1-4

2x4 SPF No.2 7-4-0 oc bracing: 1-5 **BOT CHORD** 

2x3 SPF No.2 \*Except\* Rigid ceiling directly applied or 5-2-15 oc bracing. 4-5: 2x6 SP 2400F 2.0E **WEBS** 1 Row at midpt

REACTIONS. (lb/size) 4=292/0-7-4, 3=223/Mechanical

Max Horz 4=-470(LC 12)

Max Uplift 4=-755(LC 10), 3=-755(LC 11) Max Grav 4=826(LC 13), 3=826(LC 12)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 1-4=-964/776 **BOT CHORD** 3-4=-1278/895 WEBS 1-3=-1139/1629

BOT CHORD

**WEBS** 

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; B=80ft; L=40ft; eave=5ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Corner(3) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- 4) Provide adequate drainage to prevent water ponding.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) All bearings are assumed to be DF No.2 crushing capacity of 625 psi.
- Refer to girder(s) for truss to truss connections.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 755 lb uplift at joint 4 and 755 lb uplift at
- 10) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- 11) Load case(s) 1, 4, 20, 21, 22, 23, 28 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

## LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

Vert: 3-4=-20



July 21,2020

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🗥 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.



Job	Truss	Truss Type	Qty	Ply	Streets of West Pryor
					I42113153
B400088	J32	Flat	2	1	
					Job Reference (optional)
Wheeler Lumber, Waverly, KS 668	371, Mitek				8.410 s May 22 2020 MiTek Industries, Inc. Tue Jul 21 15:12:06 2020 Page 2
		ID:yyQ7	8agb1ZIu	wnWc1etT	Pnz53bT-WguCht1VFEAbSgEO8FK_U3GRi9MRpox_pjnL5syvovd
LOAD CASE(S) Standard					
Trapezoidal Loads (plf)					
Vert: 1=-191-to-2	2=-71				
. 511. 1 101 10 1					

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf) Vert: 3-4=-20 Trapezoidal Loads (plf) Vert: 1=-151-to-2=-61 20) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert: 3-4=-20 Horz: 1-4=21, 1-5=38, 2-3=6 Trapezoidal Loads (plf) Vert: 1=-151-to-2=-61 21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert: 3-4=-20 Horz: 1-4=-6, 1-5=-38, 2-3=-21 Trapezoidal Loads (plf) Vert: 1=-151-to-2=-61 22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert: 3-4=-20 Horz: 1-4=-10, 1-5=-25, 2-3=10 Trapezoidal Loads (plf) Vert: 1=-151-to-2=-61 23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert: 3-4=-20 Horz: 1-4=-10, 1-5=-25, 2-3=10 Trapezoidal Loads (plf) Vert: 1=-151-to-2=-61 28) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf) Vert: 3-4=-20 Trapezoidal Loads (plf) Vert: 1=-190-to-2=-70

Job Truss Truss Type Qty Streets of West Prvor 42113154 B400088 J33 Flat Job Reference (optional)

Wheeler Lumber, Waverly, KS 66871, Mitek

8.410 s May 22 2020 MTek Industries, Inc. Tue Jul 21 15:12:21 2020 Page 1 ID:yyQ78agb1ZluwnWc1etTPnz53bT-aZltr?Cvjr3TlztHWv5VbDN?4CUzqaeCGZve7VyvovO

Scale = 1:58.7

3-9-0

5 5x12 || 2x4 || 4x9 =3.3.15 3 3x6 || 6x6 =

3-9-0
3-9-0

LOADING (psf) TCLL (roof) 20.0 Snow (Pf/Pg) 20.4/20.0 TCDL 15.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr NO	CSI. TC 0.74 BC 0.20 WB 0.51	Vert(LL) -0.01 3-4	I/defl L/d >999 360 >999 240 n/a n/a	PLATES GRIP MT20 197/144
BCLL 0.0 * BCDL 10.0	Code IBC2018/TPI2014	Matrix-P	Wind(LL) 0.00 4	**** 240	Weight: 51 lb FT = 10%

LUMBER-**BRACING-**

> TOP CHORD 2-0-0 oc purlins: 1-5, 1-2, except end verticals. Except:

6-0-0 oc bracing: 1-4

7-6-0 oc bracing: 1-5

2x3 SPF No.2 \*Except\* **BOT CHORD** Rigid ceiling directly applied or 5-3-6 oc bracing. 4-5: 2x6 SP 2400F 2.0E **WEBS** 1 Row at midpt

REACTIONS. (lb/size) 4=292/0-7-4, 3=223/Mechanical

Max Horz 4=469(LC 11)

2x6 SPF No.2 \*Except\*

2x4 SPF No.2

5-6: 2x10 SP 2400F 2.0E

Max Uplift 4=-755(LC 10), 3=-755(LC 11) Max Grav 4=825(LC 13), 3=825(LC 12)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 1-4=-959/775 **BOT CHORD** 3-4=-1261/883 WEBS 1-3=-1128/1615

TOP CHORD

BOT CHORD

**WEBS** 

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; B=80ft; L=40ft; eave=5ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Corner(3) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- 4) Provide adequate drainage to prevent water ponding.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) All bearings are assumed to be DF No.2 crushing capacity of 625 psi.
- Refer to girder(s) for truss to truss connections.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 755 lb uplift at joint 4 and 755 lb uplift at
- 10) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- 11) Load case(s) 1, 4, 20, 21, 22, 23, 28 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

## LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

Vert: 3-4=-20



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Job	Truss	Truss Type	Qty Ply Streets of West Pryor
		71.	142113154
			[42113154
B400088	J33	Flat	
[			Job Reference (optional)
10//	L. 160 00074 Mit-1:		
Wheeler Lumber, Waverl	ly, KS 66871, Miltek		8.410 s May 22 2020 MiTek Industries, Inc. Tue Jul 21 15:12:21 2020 Page 2
			ID:vvQ78agb1ZluwnWc1etTPnz53bT-aZltr?Cvir3TlztHWv5VbDN?4CUzgaeCGZve7VvvovQ

# LOAD CASE(S) Standard

Trapezoidal Loads (plf)

Vert: 1=-191-to-2=-71

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 3-4=-20 Trapezoidal Loads (plf)

Vert: 1=-151-to-2=-61

20) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf) Vert: 3-4=-20

Horz: 1-4=21, 1-5=38, 2-3=6

Trapezoidal Loads (plf)

Vert: 1=-151-to-2=-61

21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 3-4=-20

Horz: 1-4=-6, 1-5=-38, 2-3=-21

Trapezoidal Loads (plf)

Vert: 1=-151-to-2=-61

22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 3-4=-20

Horz: 1-4=-10, 1-5=-25, 2-3=10

Trapezoidal Loads (plf)

Vert: 1=-151-to-2=-61

23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 3-4=-20

Horz: 1-4=-10, 1-5=-25, 2-3=10

Trapezoidal Loads (plf)

Vert: 1=-151-to-2=-61

28) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 3-4=-20

Trapezoidal Loads (plf)

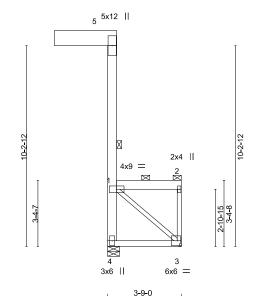
Vert: 1=-190-to-2=-70

Job Truss Truss Type Qty Streets of West Prvor 42113155 B400088 J34 Flat Job Reference (optional)

Wheeler Lumber, Waverly, KS 66871, Mitek

8.410 s May 22 2020 MiTek Industries, Inc. Tue Jul 21 15:12:30 2020 Page 1 ID:yyQ78agb1ZluwnWc1etTPnz53bT-plKGk4JZbcCBKM3?YllcS6FYxrY6RdrWKSbdxTyvovF 3-9-0

Scale = 1:58.7



LOADING (psf) TCLL (roof) 20.0 Snow (Pf/Pg) 20.4/20.0 TCDL 15.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr NO	CSI. TC 0.74 BC 0.20 WB 0.51	<b>DEFL.</b> Vert(LL) -0. Vert(CT) -0. Horz(CT) -0.	.02 3-4	I/defl >999 >999 n/a	L/d 360 240 n/a	PLATES MT20	<b>GRIP</b> 197/144
BCLL 0.0 * BCDL 10.0	Code IBC2018/TPI2014	Matrix-P	Wind(LL) 0.	.00 4	****	240	Weight: 51 lb	FT = 10%
BCDL 10.0			<u> </u>					

LUMBER-BRACING-

> TOP CHORD 2-0-0 oc purlins: 1-5, 1-2, except end verticals. Except:

6-0-0 oc bracing: 1-4

7-7-0 oc bracing: 1-5

2x3 SPF No.2 \*Except\* **BOT CHORD** Rigid ceiling directly applied or 5-3-12 oc bracing. 4-5: 2x6 SP 2400F 2.0E **WEBS** 1 Row at midpt

REACTIONS. (lb/size) 4=292/0-7-4, 3=223/Mechanical

Max Horz 4=469(LC 13)

2x6 SPF No.2 \*Except\*

5-6: 2x10 SP DSS

2x4 SPF No.2

Max Uplift 4=-754(LC 10), 3=-754(LC 11) Max Grav 4=825(LC 13), 3=825(LC 12)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 1-4=-954/775 **BOT CHORD** 3-4=-1245/871 WEBS 1-3=-1119/1602

TOP CHORD

BOT CHORD

**WEBS** 

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; B=80ft; L=40ft; eave=5ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Corner(3) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- 4) Provide adequate drainage to prevent water ponding.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) All bearings are assumed to be DF No.2 crushing capacity of 625 psi.
- 8) Refer to girder(s) for truss to truss connections.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 754 lb uplift at joint 4 and 754 lb uplift at
- 10) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- 11) Load case(s) 1, 4, 20, 21, 22, 23, 28 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

## LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

Vert: 3-4=-20



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Job	Truss	Truss Type	Qty	Ply	Streets of West Pryor
		,,		*	14211315
B400088	134	Flat	2	1	
D-100000	004	Tide Control of the C	_	· '	Job Reference (optional)
Wheeler Lumber, Waverly, KS 668	371, Mitek	•			8.410 s May 22 2020 MiTek Industries, Inc. Tue Jul 21 15:12:30 2020 Page 2

ID:yyQ78agb1ZluwnWc1etTPnz53bT-plKGk4JZbcCBKM3?YllcS6FYxrY6RdrWKSbdxTyvovF

# LOAD CASE(S) Standard

Trapezoidal Loads (plf)

Vert: 1=-191-to-2=-71

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf) Vert: 3-4=-20

Trapezoidal Loads (plf)

Vert: 1=-151-to-2=-61

20) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf) Vert: 3-4=-20

Horz: 1-4=21, 1-5=38, 2-3=6

Trapezoidal Loads (plf)

Vert: 1=-151-to-2=-61

21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 3-4=-20

Horz: 1-4=-6, 1-5=-38, 2-3=-21

Trapezoidal Loads (plf)

Vert: 1=-151-to-2=-61

22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 3-4=-20

Horz: 1-4=-10, 1-5=-25, 2-3=10

Trapezoidal Loads (plf)

Vert: 1=-151-to-2=-61

23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 3-4=-20 Horz: 1-4=-10, 1-5=-25, 2-3=10

Trapezoidal Loads (plf)

Vert: 1=-151-to-2=-61

28) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 3-4=-20

Trapezoidal Loads (plf)

Vert: 1=-190-to-2=-70

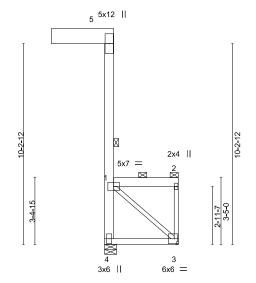


Job Truss Truss Type Qty Streets of West Prvor 42113156 B400088 J35 Flat Job Reference (optional)

Wheeler Lumber, Waverly, KS 66871, Mitek

8.410 s May 22 2020 MTek Industries, Inc. Tue Jul 21 15:12:44 2020 Page 1 ID:yyQ78agb1ZluwnWc1etTPnz53bT-P\_BZgtULlvyC?V7iNE?u03qxZUKQjzGaYe\_MRfyvov1 3-9-0

Scale = 1:58.7



1	3-9-0	1
	3-9-0	- 1

LOADING (psf) TCLL (roof) 20.0 Snow (Pf/Pg) 20.4/20.0 TCDL 15.0	SPACING-         2-0-0           Plate Grip DOL         1.15           Lumber DOL         1.15	CSI. TC 0.73 BC 0.20	Vert(CT) -0.	in (loc) 0.01 3-4 0.02 3-4	I/defl >999 >999	L/d 360 240	PLATES MT20	<b>GRIP</b> 197/144
BCLL 0.0 *	Rep Stress Incr NO Code IBC2018/TPI2014	WB 0.52 Matrix-P	· , ,	0.00 3 0.00 4	n/a ****	n/a 240	Weight: 51 lb	FT = 10%
BCDL 10.0	Code 1602016/1712014	IVIALITX-F	Willia(LL) O.	7.00 4		240	weight. 51 ib	F1 - 10 /6

LUMBER-BRACING-

TOP CHORD 2x6 SPF No.2 \*Except\* TOP CHORD 2-0-0 oc purlins: 1-5, 1-2, except end verticals. Except: 5-6: 2x10 SP DSS

6-0-0 oc bracing: 1-4 7-9-0 oc bracing: 1-5

2x4 SPF No.2 BOT CHORD **BOT CHORD WEBS** 

2x3 SPF No.2 \*Except\* Rigid ceiling directly applied or 5-4-4 oc bracing. 4-5: 2x6 SP 2400F 2.0E **WEBS** 1 Row at midpt 1-5

REACTIONS. (lb/size) 4=292/0-7-4, 3=223/Mechanical

Max Horz 4=-468(LC 10)

Max Uplift 4=-754(LC 10), 3=-754(LC 11) Max Grav 4=824(LC 13), 3=824(LC 12)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 1-4=-949/774 **BOT CHORD** 3-4=-1228/859 WEBS 1-3=-1109/1590

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; B=80ft; L=40ft; eave=5ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Corner(3) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- 4) Provide adequate drainage to prevent water ponding.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) All bearings are assumed to be DF No.2 crushing capacity of 625 psi.
- Refer to girder(s) for truss to truss connections.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 754 lb uplift at joint 4 and 754 lb uplift at
- 10) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- 11) Load case(s) 1, 4, 20, 21, 22, 23, 28 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

## LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

Vert: 3-4=-20



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Job	Truss	Truss Type	Qty	Ply	Streets of West Pryor
			-	'	I42113156
B400088	J35	Flat	2	1	
					Job Reference (optional)
Wheeler Lumber, Waverly, KS 668	71, Mitek			•	8.410 s May 22 2020 MiTek Industries, Inc. Tue Jul 21 15:12:44 2020 Page 2
•		ID:yy	Q78agb1Z	IuwnWc1e	tTPnz53bT-P BZgtULIvyC?V7iNE?u03qxZUKQjzGaYe MRfyvov1
		• •	•		_ , , , , _ ,

# LOAD CASE(S) Standard

Trapezoidal Loads (plf)

Vert: 1=-191-to-2=-71

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf) Vert: 3-4=-20

Trapezoidal Loads (plf) Vert: 1=-151-to-2=-61

20) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf) Vert: 3-4=-20

Horz: 1-4=21, 1-5=38, 2-3=6

Trapezoidal Loads (plf)

Vert: 1=-151-to-2=-61

21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 3-4=-20

Horz: 1-4=-6, 1-5=-38, 2-3=-21

Trapezoidal Loads (plf)

Vert: 1=-151-to-2=-61

22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 3-4=-20

Horz: 1-4=-10, 1-5=-25, 2-3=10

Trapezoidal Loads (plf)

Vert: 1=-151-to-2=-61

23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf) Vert: 3-4=-20

Horz: 1-4=-10, 1-5=-25, 2-3=10

Trapezoidal Loads (plf)

Vert: 1=-151-to-2=-61

28) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 3-4=-20

Trapezoidal Loads (plf)

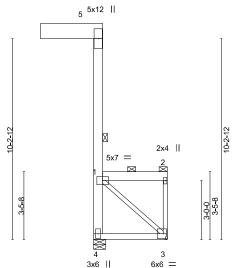
Vert: 1=-190-to-2=-70

Job Truss Truss Type Qty Streets of West Prvor 42113157 B400088 J36 Flat Job Reference (optional)

Wheeler Lumber, Waverly, KS 66871, Mitek

8.410 s May 22 2020 MiTek Industries, Inc. Tue Jul 21 15:13:02 2020 Page 1 ID:yyQ78agb1ZluwnWc1etTPnz53bT-tSGNR0id3REe9GV9Q0K6lsa0AkTfx6iEhRLJ2dyvoul 3-9-0 3-9-0

Scale = 1:58.7



1	3-9-0	1
	3-9-0	1

TCLL (roof) 20.0 Snow (Pf/Pg) 20.4/20.0 TCDL 15.0 BCLL 0.0 *	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr NO	CSI. TC 0.72 BC 0.20 WB 0.52	Vert(LL) -0.01 3-4 >	/defl L/d -999 360 -999 240 n/a n/a	PLATES GRIP MT20 197/144
BCDL 10.0	Code IBC2018/TPI2014	Matrix-P	Wind(LL) 0.00 4	**** 240	Weight: 51 lb FT = 10%

LUMBER-BRACING-

> TOP CHORD 2-0-0 oc purlins: 1-5, 1-2, except end verticals. Except:

6-0-0 oc bracing: 1-4

7-10-0 oc bracing: 1-5

2x3 SPF No.2 \*Except\* **BOT CHORD** Rigid ceiling directly applied or 5-4-10 oc bracing. 4-5: 2x6 SP 2400F 2.0E **WEBS** 1 Row at midpt 1-5

REACTIONS. (lb/size) 4=292/0-7-4, 3=223/Mechanical

Max Horz 4=468(LC 11)

2x6 SPF No.2 \*Except\*

5-6: 2x10 SP DSS

2x4 SPF No.2

Max Uplift 4=-753(LC 10), 3=-753(LC 11) Max Grav 4=824(LC 13), 3=824(LC 12)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 1-4=-944/774 **BOT CHORD** 3-4=-1213/847 WEBS 1-3=-1100/1578

TOP CHORD

BOT CHORD

**WEBS** 

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; B=80ft; L=40ft; eave=5ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Corner(3) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- 4) Provide adequate drainage to prevent water ponding.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) All bearings are assumed to be DF No.2 crushing capacity of 625 psi.
- Refer to girder(s) for truss to truss connections.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 753 lb uplift at joint 4 and 753 lb uplift at
- 10) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- 11) Load case(s) 1, 4, 20, 21, 22, 23, 28 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

## LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

Vert: 3-4=-20



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### ed on page 2

🗥 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.



	Job	Truss	Truss Type	Qty	Ply	Streets of West Pryor	
							I42113157
	B400088	J36	Flat	2	1		
						Job Reference (optional)	
ľ	Wheeler Lumber Wayerly KS 669	Wheeler Lumber Wayerly KS 66871 Mitch				8 410 c May 22 2020 MiTek Industries Inc. Tue Jul 21 15:13:02 2020	Page 2

ID:yyQ78agb1ZluwnWc1etTPnz53bT-tSGNR0id3REe9GV9Q0K6lsa0AkTfx6iEhRLJ2dyvoul

## LOAD CASE(S) Standard

Trapezoidal Loads (plf)

Vert: 1=-191-to-2=-71

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 3-4=-20

Trapezoidal Loads (plf)

Vert: 1=-151-to-2=-61

20) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 3-4=-20

Horz: 1-4=21, 1-5=38, 2-3=6

Trapezoidal Loads (plf)

Vert: 1=-151-to-2=-61

21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 3-4=-20

Horz: 1-4=-6, 1-5=-38, 2-3=-21

Trapezoidal Loads (plf)

Vert: 1=-151-to-2=-61

22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 3-4=-20

Horz: 1-4=-10, 1-5=-25, 2-3=10

Trapezoidal Loads (plf)

Vert: 1=-151-to-2=-61

23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 3-4=-20

Horz: 1-4=-10, 1-5=-25, 2-3=10

Trapezoidal Loads (plf)

Vert: 1=-151-to-2=-61

28) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 3-4=-20

Trapezoidal Loads (plf)

Vert: 1=-190-to-2=-70



Job Truss Truss Type Qty Streets of West Prvor 42113158 B400088 J37 Flat Supported Gable Job Reference (optional)

Wheeler Lumber, Waverly, KS 66871, Mitek

8.410 s May 22 2020 MiTek Industries, Inc. Tue Jul 21 15:13:12 2020 Page 1 ID:yyQ78agb1ZluwnWc1etTPnz53bT-aNt9YRqviVUEMpG4?6VT9z?nfmveHbbi\_?mrP2yvoub 3-9-0

2-0-0 oc purlins: 1-7, 1-3, except end verticals. Except:

Rigid ceiling directly applied or 5-1-7 oc bracing.

6-0-0 oc bracing: 1-6

10-0-0 oc bracing: 1-7

1 Row at midpt

Scale = 1:58.7

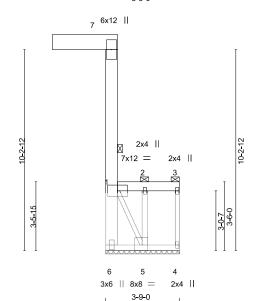


Plate Offsets (X,Y)-- [5:0-3-8,Edge]

LOADING (psf) TCLL (roof) 20.0 Snow (Pf/Pg) 20.4/20.0 TCDL 15.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr NO	CSI. TC 0.46 BC 0.15 WB 0.68	DEFL. Vert(LL) Vert(CT) Horz(CT)	in n/a n/a -0.00	(loc) - - 4	I/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20	<b>GRIP</b> 197/144
BCLL 0.0 * BCDL 10.0	Code IBC2018/TPI2014	Matrix-P						Weight: 61 lb	FT = 10%

**BRACING-**

TOP CHORD

**BOT CHORD** 

**WEBS** 

LUMBER-

TOP CHORD 2x6 SPF No.2 \*Except\*

7-8: 2x10 SP DSS

BOT CHORD 2x4 SPF No.2

**WEBS** 2x3 SPF No.2 \*Except\*

6-7: 2x8 SP 2400F 2.0E

OTHERS 2x4 SPF No.2

(lb/size) 6=139/3-9-0, 4=69/3-9-0, 5=292/3-9-0 REACTIONS.

Max Horz 6=467(LC 13)

Max Uplift 6=-1477(LC 10), 4=-19(LC 11), 5=-1475(LC 11) Max Grav 6=1505(LC 13), 4=69(LC 20), 5=1560(LC 12)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 1-6=-2340/1485 **BOT CHORD** 5-6=-1363/836 1-5=-1686/2765 **WEBS** 

### NOTES-

- 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; B=80ft; L=40ft; eave=2ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Corner(3) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss 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.
- 4) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- Provide adequate drainage to prevent water ponding.
- 6) Gable requires continuous bottom chord bearing.
- 7) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 8) Gable studs spaced at 2-0-0 oc.
- 9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 10) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 11) All bearings are assumed to be DF No.2 crushing capacity of 625 psi.
- 12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1477 lb uplift at joint 6, 19 lb uplift at joint 4 and 1475 lb uplift at joint 5.
- 13) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- 14) Load case(s) 1, 4, 20, 21, 22, 23, 28 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- 15) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



July 21,2020

LOAD CASTIST VS19704919 parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.



Job	Truss	Truss Type	Qty	Ply	Streets of West Pryor
					[42113158
B400088	J37	Flat Supported Gable	2	1	
					Job Reference (optional)
Wheeler Lumber, Waverly, KS 668	371, Mitek				8.410 s May 22 2020 MiTek Industries, Inc. Tue Jul 21 15:13:13 2020 Page 2
		ID:	yyQ78agb	1Z <b>l</b> uwnWc	:1etTPnz53bT-3ZRXInrXTpc4_zrGZq0ihBXyPAEt02rrDfVOxUyvoua
LOAD CASE(S) Standard					
1) Dead + Snow (balanced)		te Increase=1 15			
,	. Lumbor morease=1.15, 1 la	ito morodoc- 1. 10			
Uniform Loads (plf)					
1/ / / 00					

Vert: 4-6=-20 Trapezoidal Loads (plf) Vert: 1=-188-to-3=-71 4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf) Vert: 4-6=-20 Trapezoidal Loads (plf) Vert: 1=-149-to-3=-61 20) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert: 4-6=-20 Horz: 1-6=21, 1-7=38, 3-4=6 Trapezoidal Loads (plf) Vert: 1=-149-to-3=-61 21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert: 4-6=-20 Horz: 1-6=-6, 1-7=-38, 3-4=-21 Trapezoidal Loads (plf) Vert: 1=-149-to-3=-61 22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert: 4-6=-20 Horz: 1-6=-10, 1-7=-25, 3-4=10 Trapezoidal Loads (plf) Vert: 1=-149-to-3=-61 23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert: 4-6=-20 Horz: 1-6=-10, 1-7=-25, 3-4=10 Trapezoidal Loads (plf) Vert: 1=-149-to-3=-61 28) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf) Vert: 4-6=-20 Trapezoidal Loads (plf)

Vert: 1=-187-to-3=-70

Job Truss Truss Type Qty Streets of West Prvor 42113159 B400088 J38 Flat Supported Gable Job Reference (optional)

Wheeler Lumber, Waverly, KS 66871, Mitek

8.410 s May 22 2020 MiTek Industries, Inc. Tue Jul 21 15:13:26 2020 Page 1 ID:yyQ78agb1ZluwnWc1etTPnz53bT-A3jRUE?hPpFE2yLmq2lljwaAZPecZsUmCA9avEyvouN

2-0-0 oc purlins: 1-7, 1-3, except end verticals. Except:

Rigid ceiling directly applied or 3-7-11 oc bracing.

6-0-0 oc bracing: 1-6

8-7-0 oc bracing: 1-7

1 Row at midpt

Scale = 1:58.7

3-9-0

6x12 || Ø 2x4 || 6x12 = 2x4 II 1-11-3 5 5x7 || 8x8 = 2x4

3-9-0

BRACING-

TOP CHORD

**BOT CHORD** 

**WEBS** 

Plate Offsets (X,Y)-- [1:0-4-4,0-2-8], [5:0-3-8,Edge]

TCLL (roof) 20.0 Snow (Pf/Pg) 20.4/20.0 TCDL 15.0 BCLL 0.0 *	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr NO	CSI. TC 0.50 BC 0.30 WB 0.91	DEFL. ii Vert(LL) n/i Vert(CT) n/i Horz(CT) -0.00	a -	I/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20	<b>GRIP</b> 197/144
BCDL 10.0	Code IBC2018/TPI2014	Matrix-P					Weight: 66 lb	FT = 10%

LUMBER-

TOP CHORD 2x6 SPF No.2 \*Except\*

7-8: 2x10 SP DSS 2x4 SPF No.2

BOT CHORD 2x3 SPF No.2 \*Except\* **WEBS** 

6-7: 2x10 SP 2400F 2.0E

OTHERS 2x4 SPF No.2

REACTIONS. (lb/size) 6=-11/3-9-0, 4=52/3-9-0, 5=68/3-9-0

Max Horz 6=-490(LC 10)

Max Uplift 6=-1592(LC 10), 4=-13(LC 11), 5=-1598(LC 11) Max Grav 6=1617(LC 13), 4=59(LC 2), 5=1681(LC 12)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 1-6=-2489/1599 **BOT CHORD** 5-6=-2680/1667 1-5=-2294/3692 **WEBS** 

### 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; B=80ft; L=40ft; eave=2ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Corner(3) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss 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.
- 4) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- Provide adequate drainage to prevent water ponding.
- 6) Gable requires continuous bottom chord bearing.
- 7) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 8) Gable studs spaced at 2-0-0 oc.
- 9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 10) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 11) All bearings are assumed to be DF No.2 crushing capacity of 625 psi.
- 12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1592 lb uplift at joint 6, 13 lb uplift at joint 4 and 1598 lb uplift at joint 5.
- 13) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- 14) Load case(s) 1, 4, 20, 21, 22, 23, 28 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- 15) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



PE-L PE-L V

OF MISSO

ANDREW

**THOMAS** 

JOHNSON

NUMBER

PE-2017018993

July 21,2020

# 🛕 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

Job	Truss	Truss Type	Qty	Ply	Streets of West Pryor	
B400088	J38	Flat Supported Gable	1	1		I42113159
			-		Job Reference (optional)	

Wheeler Lumber, Waverly, KS 66871, Mitek

8.410 s May 22 2020 MiTek Industries, Inc. Tue Jul 21 15:13:26 2020 Page 2 ID:yyQ78agb1ZluwnWc1etTPnz53bT-A3jRUE?hPpFE2yLmq2lljwaAZPecZsUmCA9avEyvouN

#### NOTES-

16) This truss has large uplift reaction(s) from gravity load case(s). Proper connection is required to secure truss against upward movement at the bearings. Building designer must provide for uplift reactions indicated.

### LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf) Vert: 4-6=-20 Trapezoidal Loads (plf) Vert: 1=44-to-3=-71

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf) Vert: 4-6=-20 Trapezoidal Loads (plf) Vert: 1=25-to-3=-61

20) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf) Vert: 4-6=-20 Horz: 1-6=21, 1-7=38, 3-4=6 Trapezoidal Loads (plf) Vert: 1=25-to-3=-61

21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf) Vert: 4-6=-20 Horz: 1-6=-6, 1-7=-38, 3-4=-21 Trapezoidal Loads (plf) Vert: 1=25-to-3=-61

22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf) Vert: 4-6=-20 Horz: 1-6=-10, 1-7=-25, 3-4=10 Trapezoidal Loads (plf) Vert: 1=25-to-3=-61

23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf) Vert: 4-6=-20 Horz: 1-6=-10, 1-7=-25, 3-4=10 Trapezoidal Loads (plf) Vert: 1=25-to-3=-61

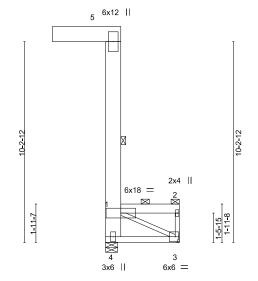
28) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf) Vert: 4-6=-20 Trapezoidal Loads (plf) Vert: 1=45-to-3=-70 Job Truss Truss Type Qty Streets of West Prvor 42113160 B400088 J39 Flat Job Reference (optional)

Wheeler Lumber, Waverly, KS 66871, Mitek

8.410 s May 22 2020 MiTek Industries, Inc. Tue Jul 21 15:13:39 2020 Page 1 ID:yyQ78agb1ZluwnWc1etTPnz53bT-IZ?MCg9rLouO6yrG5HUolgcPJf3A6q7gChomszyvouA 3-9-0

Scale = 1:58.7



1	3-9-0	1
	3-9-0	- 1

LOADING (psf) TCLL (roof) 20.0 Snow (Pf/Pg) 20.4/20.0 TCDL 15.0	SPACING-         2-0-0           Plate Grip DOL         1.15           Lumber DOL         1.15	CSI. TC 0.43 BC 0.33	Vert(LL) -0.01 Vert(CT) -0.01	(loc) I/defl 3-4 >999 3-4 >999	L/d 360 240	PLATES MT20	<b>GRIP</b> 197/144
BCLL 0.0 * BCDL 10.0	Rep Stress Incr NO Code IBC2018/TPI2014	WB 0.63 Matrix-P	Horz(CT) -0.01 Wind(LL) 0.00	3 n/a 4 ****	n/a 240	Weight: 66 lb	FT = 10%

LUMBER-BRACING-

TOP CHORD 2x6 SPF No.2 \*Except\* TOP CHORD 2-0-0 oc purlins: 1-5, 1-2, except end verticals. Except: 5-6: 2x10 SP DSS

6-0-0 oc bracing: 1-4

2x4 SPF No.2 10-0-0 oc bracing: 1-5 **BOT CHORD** 

2x3 SPF No.2 \*Except\* Rigid ceiling directly applied or 3-10-12 oc bracing. 4-5: 2x10 SP 2400F 2.0E **WEBS** 1 Row at midpt

REACTIONS. (lb/size) 4=272/0-7-4, 3=210/Mechanical

Max Horz 4=-490(LC 10)

Max Uplift 4=-804(LC 10), 3=-804(LC 11) Max Grav 4=871(LC 13), 3=871(LC 12)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 1-4=-1132/823 **BOT CHORD** 3-4=-2311/1641 WEBS 1-3=-1806/2544

BOT CHORD

**WEBS** 

- 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; B=80ft; L=40ft; eave=5ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Corner(3) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- 4) Provide adequate drainage to prevent water ponding.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) All bearings are assumed to be DF No.2 crushing capacity of 625 psi.
- 8) Refer to girder(s) for truss to truss connections.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 804 lb uplift at joint 4 and 804 lb uplift at
- 10) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- 11) Load case(s) 1, 4, 20, 21, 22, 23, 28 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

## LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

Vert: 3-4=-20



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🗥 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.



Job	Truss	Truss Type	Qty	Ply	Streets of West Pryor	
						<b>I</b> 42113160
B400088	J39	Flat	1	1		
					Job Reference (optional)	
Wheeler Lumber Wayerly KS 669	71 Mitok				8 410 e May 22 2020 MiTek Industries Inc. Tue Jul 21 15:13:39 2020	Page 2

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## LOAD CASE(S) Standard

Trapezoidal Loads (plf)

Vert: 1=-185-to-2=-71

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 3-4=-20

Trapezoidal Loads (plf) Vert: 1=-146-to-2=-61

20) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 3-4=-20

Horz: 1-4=21, 1-5=38, 2-3=6

Trapezoidal Loads (plf)

Vert: 1=-147-to-2=-61

21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 3-4=-20

Horz: 1-4=-6, 1-5=-38, 2-3=-21

Trapezoidal Loads (plf) Vert: 1=-147-to-2=-61

22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 3-4=-20

Horz: 1-4=-10, 1-5=-25, 2-3=10

Trapezoidal Loads (plf)

Vert: 1=-147-to-2=-61

23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 3-4=-20

Horz: 1-4=-10, 1-5=-25, 2-3=10

Trapezoidal Loads (plf)

Vert: 1=-147-to-2=-61

28) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 3-4=-20

Trapezoidal Loads (plf)

Vert: 1=-185-to-2=-70

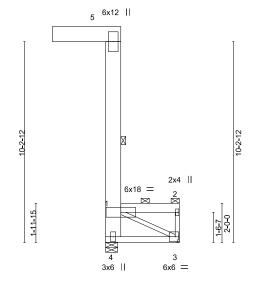
Job Truss Truss Type Qty Streets of West Prvor 42113161 B400088 J40 Flat Job Reference (optional)

Wheeler Lumber, Waverly, KS 66871, Mitek

8.410 s May 22 2020 MiTek Industries, Inc. Tue Jul 21 15:13:50 2020 Page 1 ID:yyQ78agb1ZluwnWc1etTPnz53bT-ThAWWRHkmBHqweANE5BNh\_ZHc4qtBo2IjvzrIryvou?

3-9-0

Scale = 1:58.7



1	3-9-0	1
	3-9-0	1

LOADING (psf) TCLL (roof) 20.0 Snow (Pf/Pg) 20.4/20.0 TCDL 15.0	SPACING-         2-0-0           Plate Grip DOL         1.15           Lumber DOL         1.15	CSI. TC 0.42 BC 0.32	<b>DEFL.</b> ir Vert(LL) -0.01 Vert(CT) -0.01		I/defl >999 >999	L/d 360 240	PLATES MT20	<b>GRIP</b> 197/144
BCLL 0.0 * BCDL 10.0	Rep Stress Incr NO Code IBC2018/TPI2014	WB 0.62 Matrix-P	Horz(CT) -0.01 Wind(LL) 0.00	3 4	n/a ****	n/a 240	Weight: 66 lb	FT = 10%

LUMBER-BRACING-

TOP CHORD 2x6 SPF No.2 \*Except\* TOP CHORD 2-0-0 oc purlins: 1-5, 1-2, except end verticals. Except: 5-6: 2x10 SP DSS

6-0-0 oc bracing: 1-4

2x4 SPF No.2 10-0-0 oc bracing: 1-5 **BOT CHORD** 

2x3 SPF No.2 \*Except\* Rigid ceiling directly applied or 3-11-6 oc bracing. 4-5: 2x10 SP 2400F 2.0E **WEBS** 1 Row at midpt 1-5

REACTIONS. (lb/size) 4=272/0-7-4, 3=210/Mechanical

Max Horz 4=-489(LC 10)

Max Uplift 4=-803(LC 10), 3=-803(LC 11) Max Grav 4=871(LC 13), 3=871(LC 12)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 1-4=-1129/823 **BOT CHORD** 3-4=-2252/1599 WEBS 1-3=-1768/2491

BOT CHORD

**WEBS** 

- 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; B=80ft; L=40ft; eave=5ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Corner(3) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- 4) Provide adequate drainage to prevent water ponding.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) All bearings are assumed to be DF No.2 crushing capacity of 625 psi.
- Refer to girder(s) for truss to truss connections.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 803 lb uplift at joint 4 and 803 lb uplift at
- 10) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- 11) Load case(s) 1, 4, 20, 21, 22, 23, 28 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

## LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

Vert: 3-4=-20



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🗥 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.



Job	Truss	Truss Type	Qty	Ply	Streets of West Pryor	
B400088	J40	Flat	1	1		I42113161
					Job Reference (optional)	

Wheeler Lumber, Waverly, KS 66871, Mitek

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## LOAD CASE(S) Standard

Trapezoidal Loads (plf)

Vert: 1=-185-to-2=-71

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 3-4=-20

Trapezoidal Loads (plf) Vert: 1=-146-to-2=-61

20) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 3-4=-20

Horz: 1-4=21, 1-5=38, 2-3=6

Trapezoidal Loads (plf)

Vert: 1=-147-to-2=-61

21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 3-4=-20

Horz: 1-4=-6, 1-5=-38, 2-3=-21

Trapezoidal Loads (plf)

Vert: 1=-147-to-2=-61

22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 3-4=-20

Horz: 1-4=-10, 1-5=-25, 2-3=10

Trapezoidal Loads (plf)

Vert: 1=-147-to-2=-61

23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 3-4=-20

Horz: 1-4=-10, 1-5=-25, 2-3=10

Trapezoidal Loads (plf)

Vert: 1=-147-to-2=-61

28) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 3-4=-20

Trapezoidal Loads (plf)

Vert: 1=-185-to-2=-70

Job Truss Truss Type Qty Streets of West Prvor 42113162 B400088 J41 Flat Job Reference (optional)

Wheeler Lumber, Waverly, KS 66871, Mitek

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Scale = 1:58.7

3-9-0

6x12 || И 2x4 || 6x18 = 2.0.7

3-9-0

3

6x6 =

LOADING (psf) TCLL (roof) 20.0 Snow (Pf/Pg) 20.4/20.0 TCDL 15.0	SPACING-         2-0-0           Plate Grip DOL         1.15           Lumber DOL         1.15           Pop Strong Larr         NO	CSI. TC 0.42 BC 0.32	<b>DEFL.</b> in Vert(LL) -0.01 Vert(CT) -0.01	(loc) 3-4 3-4	I/defl >999 >999	L/d 360 240	PLATES MT20	<b>GRIP</b> 197/144
BCLL 0.0 *	Rep Stress Incr NO Code IBC2018/TPI2014	WB 0.60 Matrix-P	Horz(CT) -0.01 Wind(LL) 0.00		n/a ****	n/a 240	Weight: 66 lb	FT = 10%
BCDL 10.0	Code 1BC2016/1F12014	Matrix-F	VVIIId(LL) 0.00	4		240	weight. oo ib	F1 - 1076

3x6 ||

LUMBER-BRACING-

TOP CHORD 2x6 SPF No.2 \*Except\* TOP CHORD 2-0-0 oc purlins: 1-5, 1-2, except end verticals. Except: 5-6: 2x10 SP DSS

6-0-0 oc bracing: 1-4 10-0-0 oc bracing: 1-5

2x4 SPF No.2 BOT CHORD 2x3 SPF No.2 \*Except\* **BOT CHORD WEBS** Rigid ceiling directly applied or 4-0-0 oc bracing.

4-5: 2x10 SP 2400F 2.0E **WEBS** 1 Row at midpt 1-5

REACTIONS. (lb/size) 4=272/0-7-4, 3=210/Mechanical

Max Horz 4=-489(LC 12)

Max Uplift 4=-803(LC 10), 3=-803(LC 11) Max Grav 4=870(LC 13), 3=870(LC 12)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 1-4=-1126/823 **BOT CHORD** 3-4=-2197/1559 WEBS 1-3=-1732/2441

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; B=80ft; L=40ft; eave=5ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Corner(3) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- 4) Provide adequate drainage to prevent water ponding.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) All bearings are assumed to be DF No.2 crushing capacity of 625 psi.
- Refer to girder(s) for truss to truss connections.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 803 lb uplift at joint 4 and 803 lb uplift at
- 10) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- 11) Load case(s) 1, 4, 20, 21, 22, 23, 28 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

## LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

Vert: 3-4=-20



July 21,2020

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🗥 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.



Job	Truss	Truss Type	Qty	Ply	Streets of West Pryor	
B400088	J41	  Flat	1	1		I42113162
			•		Job Reference (optional)	

Wheeler Lumber, Waverly, KS 66871, Mitek

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# LOAD CASE(S) Standard

Trapezoidal Loads (plf)

Vert: 1=-185-to-2=-71

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 3-4=-20

Trapezoidal Loads (plf) Vert: 1=-146-to-2=-61

20) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 3-4=-20

Horz: 1-4=21, 1-5=38, 2-3=6

Trapezoidal Loads (plf)

Vert: 1=-147-to-2=-61

21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 3-4=-20

Horz: 1-4=-6, 1-5=-38, 2-3=-21

Trapezoidal Loads (plf)

Vert: 1=-147-to-2=-61 22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 3-4=-20

Horz: 1-4=-10, 1-5=-25, 2-3=10

Trapezoidal Loads (plf)

Vert: 1=-147-to-2=-61

23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 3-4=-20

Horz: 1-4=-10, 1-5=-25, 2-3=10

Trapezoidal Loads (plf)

Vert: 1=-147-to-2=-61

28) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 3-4=-20

Trapezoidal Loads (plf)

Vert: 1=-185-to-2=-70



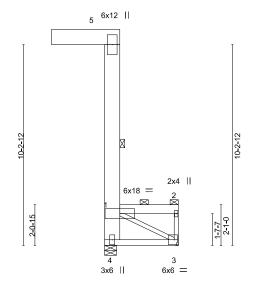
Job Truss Truss Type Qty Streets of West Prvor 42113163 B400088 J42 Flat Job Reference (optional)

Wheeler Lumber, Waverly, KS 66871, Mitek

8.410 s May 22 2020 MiTek Industries, Inc. Tue Jul 21 15:14:15 2020 Page 1 ID:yyQ78agb1ZluwnWc1etTPnz53bT-EVAzm\_bQtsQHQUbBCr8ECG6ZU9NxY6czTIXg6uyvotc 3-9-0

3-9-0

Scale = 1:58.7



1	3-9-0	
	3-9-0	

LOADING (psf) TCLL (roof) 20.0 Snow (Pf/Pg) 20.4/20.0 TCDL 15.0	SPACING-         2-0-0           Plate Grip DOL         1.15           Lumber DOL         1.15	CSI. TC 0.41 BC 0.31	Vert(LL) -0.0 Vert(CT) -0.0	1 3-4	I/defl >999 >999	L/d 360 240	PLATES MT20	<b>GRIP</b> 197/144
BCLL 0.0 *	Rep Stress Incr NO	WB 0.59	Horz(CT) -0.0		n/a ****	n/a	Mainha CO II	ET - 400/
BCDL 10.0	Code IBC2018/TPI2014	Matrix-P	Wind(LL) 0.0	0 4		240	Weight: 66 lb	FT = 10%

LUMBER-BRACING-

> TOP CHORD 2-0-0 oc purlins: 1-5, 1-2, except end verticals. Except:

6-0-0 oc bracing: 1-4

10-0-0 oc bracing: 1-5

2x3 SPF No.2 \*Except\* **BOT CHORD** Rigid ceiling directly applied or 4-0-10 oc bracing. 4-5: 2x10 SP 2400F 2.0E **WEBS** 1 Row at midpt 1-5

REACTIONS. (lb/size) 4=272/0-7-4, 3=210/Mechanical

2x6 SPF No.2 \*Except\*

5-6: 2x10 SP DSS

2x4 SPF No.2

Max Horz 4=-488(LC 10)

Max Uplift 4=-803(LC 10), 3=-803(LC 11) Max Grav 4=870(LC 13), 3=870(LC 12)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 1-4=-1123/822 **BOT CHORD** 3-4=-2144/1521 WEBS 1-3=-1698/2394

TOP CHORD

BOT CHORD

**WEBS** 

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; B=80ft; L=40ft; eave=5ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Corner(3) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- 4) Provide adequate drainage to prevent water ponding.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) All bearings are assumed to be DF No.2 crushing capacity of 625 psi.
- 8) Refer to girder(s) for truss to truss connections.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 803 lb uplift at joint 4 and 803 lb uplift at
- 10) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- 11) Load case(s) 1, 4, 20, 21, 22, 23, 28 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

## LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

Vert: 3-4=-20



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🗥 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.



Job	Truss	Truss Type	Qty	Ply	Streets of West Pryor	
						<b>I</b> 42113163
B400088	J42	Flat	1	1		
					Job Reference (optional)	
Whoolar Lumber Wayarky KS 66971 Mitak					8.410 e May 22.2020 MiTek Industries Inc. Tue Iul 21.15:14:15.2020	Page 2

ID:yyQ78agb1ZluwnWc1etTPnz53bT-EVAzm\_bQtsQHQUbBCr8ECG6ZU9NxY6czTIXg6uyvotc

## LOAD CASE(S) Standard

Trapezoidal Loads (plf)

Vert: 1=-185-to-2=-71

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 3-4=-20

Trapezoidal Loads (plf) Vert: 1=-146-to-2=-61

20) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 3-4=-20

Horz: 1-4=21, 1-5=38, 2-3=6

Trapezoidal Loads (plf)

Vert: 1=-147-to-2=-61

21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 3-4=-20

Horz: 1-4=-6, 1-5=-38, 2-3=-21

Trapezoidal Loads (plf)

Vert: 1=-147-to-2=-61

22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 3-4=-20

Horz: 1-4=-10, 1-5=-25, 2-3=10

Trapezoidal Loads (plf)

Vert: 1=-147-to-2=-61

23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 3-4=-20

Horz: 1-4=-10, 1-5=-25, 2-3=10

Trapezoidal Loads (plf)

Vert: 1=-147-to-2=-61

28) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 3-4=-20

Trapezoidal Loads (plf)

Vert: 1=-185-to-2=-70

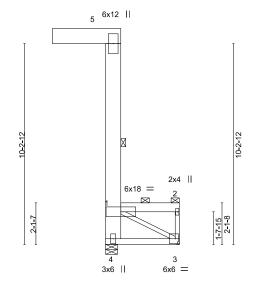


Job Truss Truss Type Qty Streets of West Prvor 42113164 B400088 J43 Flat Job Reference (optional)

Wheeler Lumber, Waverly, KS 66871, Mitek

8.410 s May 22 2020 MiTek Industries, Inc. Tue Jul 21 15:14:31 2020 Page 1 ID:yyQ78agb1ZluwnWc1etTPnz53bT-ma807SnS6nR0LypG8CQ\_sdmIXcqnlLlK9nPWhzyvotM 3-9-0

Scale = 1:58.7



3-9-0
3-9-0

BCLL 0.0 * Rep Stress Incr NO WB 0.58 Horz(CT) -0.01 3 n/a n/a  Rep Stress Incr NO WB 0.58 Horz(CT) -0.01 3 n/a n/a  Watch: 68 h FT = 10%	LOADING (psf) TCLL (roof) 20.0 Snow (Pf/Pg) 20.4/20.0 TCDL 15.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15	CSI. TC 0.41 BC 0.30	<b>DEFL.</b> in (loc) I/defl L/d Vert(LL) -0.01 3-4 >999 360 Vert(CT) -0.01 3-4 >999 240	PLATES         GRIP           MT20         197/144
		Rep Stress Incr NO Code IBC2018/TPI2014	WB 0.58 Matrix-P		Weight: 66 lb FT = 10%

LUMBER-BRACING-

TOP CHORD 2x6 SPF No.2 \*Except\* TOP CHORD 2-0-0 oc purlins: 1-5, 1-2, except end verticals. Except: 5-6: 2x10 SP DSS

6-0-0 oc bracing: 1-4

2x4 SPF No.2 10-0-0 oc bracing: 1-5 **BOT CHORD** 

2x3 SPF No.2 \*Except\* Rigid ceiling directly applied or 4-1-3 oc bracing. 4-5: 2x10 SP 2400F 2.0E **WEBS** 1 Row at midpt 1-5

REACTIONS. (lb/size) 4=278/0-7-4, 3=213/Mechanical

Max Horz 4=487(LC 11)

Max Uplift 4=-802(LC 10), 3=-802(LC 11) Max Grav 4=870(LC 13), 3=870(LC 12)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 1-4=-1120/822 **BOT CHORD** 3-4=-2094/1485 WEBS 1-3=-1665/2349

BOT CHORD

**WEBS** 

- 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; B=80ft; L=40ft; eave=5ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Corner(3) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- 4) Provide adequate drainage to prevent water ponding.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) All bearings are assumed to be DF No.2 crushing capacity of 625 psi.
- Refer to girder(s) for truss to truss connections.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 802 lb uplift at joint 4 and 802 lb uplift at
- 10) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- 11) Load case(s) 1, 4, 20, 21, 22, 23, 28 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

## LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

Vert: 3-4=-20



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🗥 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.



Job	Truss	Truss Type	Qty	Ply	Streets of West Pryor	
B400088	J43	Flat	1	1		<b>I</b> 42113164
				· ·	Job Reference (optional)	

Wheeler Lumber, Waverly, KS 66871, Mitek

8.410 s May 22 2020 MiTek Industries, Inc. Tue Jul 21 15:14:31 2020 Page 2 ID:yyQ78agb1ZluwnWc1etTPnz53bT-ma807SnS6nR0LypG8CQ\_sdmIXcqnILIK9nPWhzyvotM

# LOAD CASE(S) Standard

Trapezoidal Loads (plf)

Vert: 1=-191-to-2=-71

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 3-4=-20

Trapezoidal Loads (plf) Vert: 1=-151-to-2=-61

20) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 3-4=-20

Horz: 1-4=21, 1-5=38, 2-3=6

Trapezoidal Loads (plf)

Vert: 1=-151-to-2=-61

21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 3-4=-20

Horz: 1-4=-6, 1-5=-38, 2-3=-21

Trapezoidal Loads (plf)

Vert: 1=-151-to-2=-61

22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 3-4=-20

Horz: 1-4=-10, 1-5=-25, 2-3=10

Trapezoidal Loads (plf)

Vert: 1=-151-to-2=-61

23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 3-4=-20

Horz: 1-4=-10, 1-5=-25, 2-3=10

Trapezoidal Loads (plf)

Vert: 1=-151-to-2=-61

28) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 3-4=-20

Trapezoidal Loads (plf)

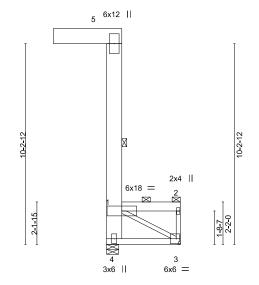
Vert: 1=-190-to-2=-70

Job Truss Truss Type Qty Streets of West Prvor 42113165 B400088 J44 Flat Job Reference (optional)

Wheeler Lumber, Waverly, KS 66871, Mitek

8.410 s May 22 2020 MiTek Industries, Inc. Tue Jul 21 15:14:40 2020 Page 1 ID:yyQ78agb1ZluwnWc1etTPnz53bT-0JBQ0Xu5\_YakwK?\_9b45jXeqMEvzvQ8fDh4VVxyvotD 3-9-0

Scale = 1:58.7



3-9-0

BRACING-

TOP CHORD

		'	3-9-0				
LOADING (psf) TCLL (roof) 20.0 Snow (Pf/Pg) 20.4/20.0	SPACING-         2-0-0           Plate Grip DOL         1.15           Lumber DOL         1.15	CSI. TC 0.40 BC 0.30	DEFL. Vert(LL) Vert(CT)	in (loc) -0.01 3-4 -0.01 3-4	I/defl >999 >999	L/d 360 240	
TCDL 15.0	D 01 1 NO	W/D 0.57	LI(CT)	0.04	/-		

NO

WB 0.57 Horz(CT) -0.01 n/a \*\*\*\* n/a Matrix-P Wind(LL) 0.00 240

> 2-0-0 oc purlins: 1-5, 1-2, except end verticals. Except: 6-0-0 oc bracing: 1-4

10-0-0 oc bracing: 1-5

**BOT CHORD** Rigid ceiling directly applied or 4-1-12 oc bracing. **WEBS** 1 Row at midpt

REACTIONS. (lb/size) 4=272/0-7-4, 3=210/Mechanical

Max Horz 4=487(LC 11)

2x6 SPF No.2 \*Except\*

2x3 SPF No.2 \*Except\*

4-5: 2x10 SP 2400F 2.0E

5-6: 2x10 SP DSS

0.0

10.0

2x4 SPF No.2

Max Uplift 4=-802(LC 10), 3=-802(LC 11) Max Grav 4=869(LC 13), 3=869(LC 12)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

Rep Stress Incr

Code IBC2018/TPI2014

TOP CHORD 1-4=-1117/822 **BOT CHORD** 3-4=-2046/1451 WEBS 1-3=-1634/2307

**BCLL** 

**BCDL** 

**WEBS** 

LUMBER-

TOP CHORD

BOT CHORD

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; B=80ft; L=40ft; eave=5ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Corner(3) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- 4) Provide adequate drainage to prevent water ponding.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) All bearings are assumed to be DF No.2 crushing capacity of 625 psi.
- Refer to girder(s) for truss to truss connections.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 802 lb uplift at joint 4 and 802 lb uplift at
- 10) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- 11) Load case(s) 1, 4, 20, 21, 22, 23, 28 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

## LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

Vert: 3-4=-20



**PLATES** 

Weight: 66 lb

MT20

GRIP

197/144

FT = 10%

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🗥 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.



Job	Truss	Truss Type	Qty	Ply	Streets of West Pryor	
						I42113165
B400088	J44	Flat	1	1		
					Job Reference (optional)	
Wheeler Lumber Waverly KS 66	871 Mitek				8 410 s May 22 2020 MiTek Industries Inc. Tue Jul 21 15:14:40 2020	Page 2

ID:yyQ78agb1ZluwnWc1etTPnz53bT-0JBQ0Xu5\_YakwK?\_9b45jXeqMEvzvQ8fDh4VVxyvotD

# LOAD CASE(S) Standard

Trapezoidal Loads (plf)

Vert: 1=-185-to-2=-71

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 3-4=-20

Trapezoidal Loads (plf) Vert: 1=-146-to-2=-61

20) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 3-4=-20

Horz: 1-4=21, 1-5=38, 2-3=6

Trapezoidal Loads (plf)

Vert: 1=-147-to-2=-61

21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 3-4=-20

Horz: 1-4=-6, 1-5=-38, 2-3=-21

Trapezoidal Loads (plf) Vert: 1=-147-to-2=-61

22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 3-4=-20

Horz: 1-4=-10, 1-5=-25, 2-3=10

Trapezoidal Loads (plf)

Vert: 1=-147-to-2=-61

23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 3-4=-20

Horz: 1-4=-10, 1-5=-25, 2-3=10

Trapezoidal Loads (plf)

Vert: 1=-147-to-2=-61

28) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 3-4=-20

Trapezoidal Loads (plf)

Vert: 1=-185-to-2=-70

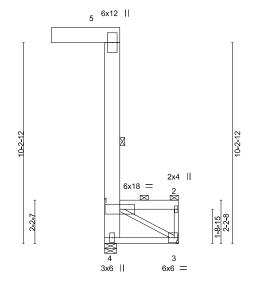


Job Truss Truss Type Qty Streets of West Prvor 42113166 B400088 J45 Flat Job Reference (optional)

Wheeler Lumber, Waverly, KS 66871, Mitek

8.410 s May 22 2020 MiTek Industries, Inc. Tue Jul 21 15:14:50 2020 Page 1 ID:yyQ78agb1ZluwnWc1etTPnz53bT-jEoC6y0NdcqK7tmvliGR7e2YvGJPEyn7WEV1sMyvot3 3-9-0

Scale = 1:58.7



1	3-9-0	
	3-9-0	

LOADING (psf) TCLL (roof) 20.0 Snow (Pf/Pg) 20.4/20.0 TCDL 15.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr NO	CSI. TC 0.40 BC 0.29 WB 0.56	<b>DEFL.</b> i Vert(LL) -0.0' Vert(CT) -0.0' Horz(CT) -0.0'	3-4	I/defl >999 >999 n/a	L/d 360 240 n/a	PLATES MT20	<b>GRIP</b> 197/144
BCLL 0.0 * BCDL 10.0	Code IBC2018/TPI2014	Matrix-P	Wind(LL) 0.00	) 4	****	240	Weight: 66 lb	FT = 10%

LUMBER-BRACING-

> TOP CHORD 2-0-0 oc purlins: 1-5, 1-2, except end verticals. Except:

6-0-0 oc bracing: 1-4

10-0-0 oc bracing: 1-5

2x3 SPF No.2 \*Except\* **BOT CHORD** Rigid ceiling directly applied or 4-2-5 oc bracing. 4-5: 2x10 SP 2400F 2.0E **WEBS** 1 Row at midpt 1-5

REACTIONS. (lb/size) 4=272/0-7-4, 3=210/Mechanical

Max Horz 4=486(LC 11)

2x6 SPF No.2 \*Except\*

5-6: 2x10 SP DSS

2x4 SPF No.2

Max Uplift 4=-802(LC 10), 3=-802(LC 11) Max Grav 4=869(LC 13), 3=869(LC 12)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 1-4=-1114/821 **BOT CHORD** 3-4=-2001/1418 WEBS 1-3=-1605/2266

TOP CHORD

BOT CHORD

**WEBS** 

- 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; B=80ft; L=40ft; eave=5ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Corner(3) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- 4) Provide adequate drainage to prevent water ponding.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) All bearings are assumed to be DF No.2 crushing capacity of 625 psi.
- Refer to girder(s) for truss to truss connections.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 802 lb uplift at joint 4 and 802 lb uplift at
- 10) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- 11) Load case(s) 1, 4, 20, 21, 22, 23, 28 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

## LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

Vert: 3-4=-20



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🗥 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.



Job	Truss	Truss Type	Qty	Ply	Streets of West Pryor	
						I42113166
B400088	J45	Flat	1	1		
					Job Reference (optional)	
NULL 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1					0.440 M. 00.0000 MT         T	

Wheeler Lumber, Waverly, KS 66871, Mitek

8.410 s May 22 2020 MiTek Industries, Inc. Tue Jul 21 15:14:50 2020 Page 2 ID:yyQ78agb1ZluwnWc1etTPnz53bT-jEoC6y0NdcqK7tmvliGR7e2YvGJPEyn7WEV1sMyvot3

## LOAD CASE(S) Standard

Trapezoidal Loads (plf)

Vert: 1=-185-to-2=-71

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 3-4=-20 Trapezoidal Loads (plf)

Vert: 1=-146-to-2=-61

20) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 3-4=-20

Horz: 1-4=21, 1-5=38, 2-3=6

Trapezoidal Loads (plf)

Vert: 1=-147-to-2=-61

21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 3-4=-20

Horz: 1-4=-6, 1-5=-38, 2-3=-21

Trapezoidal Loads (plf)

Vert: 1=-147-to-2=-61

22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 3-4=-20

Horz: 1-4=-10, 1-5=-25, 2-3=10

Trapezoidal Loads (plf)

Vert: 1=-147-to-2=-61

23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 3-4=-20

Horz: 1-4=-10, 1-5=-25, 2-3=10

Trapezoidal Loads (plf)

Vert: 1=-147-to-2=-61

28) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 3-4=-20

Trapezoidal Loads (plf)

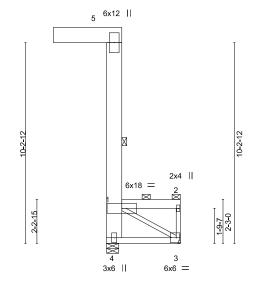
Vert: 1=-185-to-2=-70

Job Truss Truss Type Qty Streets of West Prvor 42113167 B400088 J46 Flat Job Reference (optional)

Wheeler Lumber, Waverly, KS 66871, Mitek

8.410 s May 22 2020 MiTek Industries, Inc. Tue Jul 21 15:15:02 2020 Page 1 ID:yyQ78agb1ZluwnWc1etTPnz53bT-MXWkd39voILdZjhDSDUFcAYbz6Pl2NuuH6PfGgyvost 3-9-0

Scale = 1:58.7



LOADING (psf) TCLL (roof) 20.0 Snow (Pf/Pg) 20.4/20.0 TCDL 15.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr NO	CSI. TC 0.39 BC 0.29 WB 0.55	<b>DEFL.</b> Vert(LL) -0.0 Vert(CT) -0.0 Horz(CT) -0.0	01 3-4	I/defl >999 >999 n/a	L/d 360 240 n/a	PLATES MT20	<b>GRIP</b> 197/144
BCLL 0.0 * BCDL 10.0	Code IBC2018/TPI2014	Matrix-P	· ' '	00 4	****	240	Weight: 66 lb	FT = 10%

3-9-0

LUMBER-BRACING-

TOP CHORD 2x6 SPF No.2 \*Except\* TOP CHORD 2-0-0 oc purlins: 1-5, 1-2, except end verticals. Except: 5-6: 2x10 SP DSS

6-0-0 oc bracing: 1-4

2x4 SPF No.2 10-0-0 oc bracing: 1-5 **BOT CHORD** 

2x3 SPF No.2 \*Except\* Rigid ceiling directly applied or 4-2-14 oc bracing. 4-5: 2x10 SP 2400F 2.0E **WEBS** 1 Row at midpt 1-5

REACTIONS. (lb/size) 4=272/0-7-4, 3=210/Mechanical

Max Horz 4=485(LC 11)

Max Uplift 4=-801(LC 10), 3=-801(LC 11) Max Grav 4=869(LC 13), 3=869(LC 12)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 1-4=-1110/821 **BOT CHORD** 3-4=-1957/1386 WEBS 1-3=-1577/2228

BOT CHORD

**WEBS** 

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; B=80ft; L=40ft; eave=5ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Corner(3) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- 4) Provide adequate drainage to prevent water ponding.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) All bearings are assumed to be DF No.2 crushing capacity of 625 psi.
- Refer to girder(s) for truss to truss connections.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 801 lb uplift at joint 4 and 801 lb uplift at
- 10) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- 11) Load case(s) 1, 4, 20, 21, 22, 23, 28 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

## LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

Vert: 3-4=-20



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🗥 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.



Job	Truss	Truss Type	Qty	Ply	Streets of West Pryor	
						<b>I</b> 42113167
B400088	J46	Flat	1	1		
					Job Reference (optional)	
Whoolar Lumbar Wayarky KS 66971 Mitak					9.410 c May 22.2020 MiTak Industrias Inc. Tuo Jul 21.15:15:02.2020	Dogo 2

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## LOAD CASE(S) Standard

Trapezoidal Loads (plf)

Vert: 1=-185-to-2=-71

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 3-4=-20

Trapezoidal Loads (plf) Vert: 1=-146-to-2=-61

20) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 3-4=-20

Horz: 1-4=21, 1-5=38, 2-3=6

Trapezoidal Loads (plf)

Vert: 1=-147-to-2=-61

21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 3-4=-20

Horz: 1-4=-6, 1-5=-38, 2-3=-21

Trapezoidal Loads (plf)

Vert: 1=-147-to-2=-61

22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 3-4=-20

Horz: 1-4=-10, 1-5=-25, 2-3=10

Trapezoidal Loads (plf)

Vert: 1=-147-to-2=-61

23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 3-4=-20

Horz: 1-4=-10, 1-5=-25, 2-3=10

Trapezoidal Loads (plf)

Vert: 1=-147-to-2=-61

28) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 3-4=-20

Trapezoidal Loads (plf)

Vert: 1=-185-to-2=-70

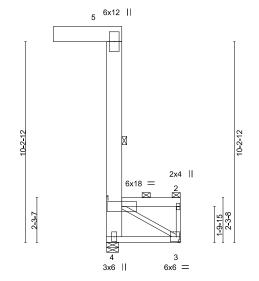


Job Truss Truss Type Qty Streets of West Prvor 42113168 B400088 J47 Flat Job Reference (optional)

Wheeler Lumber, Waverly, KS 66871, Mitek

8.410 s May 22 2020 MITek Industries, Inc. Tue Jul 21 15:15:14 2020 Page 1 ID:yyQ78agb1ZluwnWc1etTPnz53bT-0rFG89IQ\_sw?ZbX9kh45i2e1yWCso?f2zJlhzyvosh 3-9-0 3-9-0

Scale = 1:58.7



- 1	3-9-0
Г	3-9-0

LOADING (psf) TCLL (roof) 20.0 Snow (Pf/Pg) 20.4/20.0 TCDL 15.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr NO	CSI. TC 0.39 BC 0.28 WB 0.54	<b>DEFL.</b> in (loc) I/defl L/d Vert(LL) -0.01 3-4 >999 360 Vert(CT) -0.01 3-4 >999 240 Horz(CT) -0.01 3 n/a n/a	<b>PLATES GRIP</b> MT20 197/144
BCLL 0.0 * BCDL 10.0	Code IBC2018/TPI2014	Matrix-P	Wind(LL) 0.00 4 **** 240	Weight: 66 lb FT = 10%

LUMBER-BRACING-

> TOP CHORD 2-0-0 oc purlins: 1-5, 1-2, except end verticals. Except:

6-0-0 oc bracing: 1-4

10-0-0 oc bracing: 1-5

2x3 SPF No.2 \*Except\* **BOT CHORD** Rigid ceiling directly applied or 4-3-7 oc bracing. 4-5: 2x10 SP 2400F 2.0E **WEBS** 1 Row at midpt 1-5

REACTIONS. (lb/size) 4=272/0-7-4, 3=210/Mechanical

Max Horz 4=-485(LC 10)

2x6 SPF No.2 \*Except\*

5-6: 2x10 SP DSS

2x4 SPF No.2

Max Uplift 4=-801(LC 10), 3=-801(LC 11) Max Grav 4=868(LC 13), 3=868(LC 12)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 1-4=-1107/820 **BOT CHORD** 3-4=-1915/1356 WEBS 1-3=-1551/2191

TOP CHORD

BOT CHORD

**WEBS** 

- 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; B=80ft; L=40ft; eave=5ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Corner(3) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- 4) Provide adequate drainage to prevent water ponding.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) All bearings are assumed to be DF No.2 crushing capacity of 625 psi.
- Refer to girder(s) for truss to truss connections.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 801 lb uplift at joint 4 and 801 lb uplift at
- 10) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- 11) Load case(s) 1, 4, 20, 21, 22, 23, 28 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

### LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

Vert: 3-4=-20



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Job	Truss	Truss Type	Qty	Ply	Streets of West Pryor	
						<b> </b> 42113168
B400088	J47	Flat	1	1		
					Job Reference (optional)	
Wheeler Lumber, Waverly, KS 668	371, Mitek				8.410 s May 22 2020 MiTek Industries, Inc. Tue Jul 21 15:15:14 2020 F	
		ID:	yyQ78agb	1ZluwnWc	:1etTPnz53bT-0rFG89IQsw?ZbX9kh45i2e1yWCso?f2zJIhzy	vosh
LOAD CASE(S) Standard						
Trapezoidal Loads (plf)						
rrapezoludi Lodus (pir)						

Vert: 1=-185-to-2=-71 4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf) Vert: 3-4=-20 Trapezoidal Loads (plf) Vert: 1=-146-to-2=-61 20) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert: 3-4=-20 Horz: 1-4=21, 1-5=38, 2-3=6 Trapezoidal Loads (plf) Vert: 1=-147-to-2=-61 21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert: 3-4=-20 Horz: 1-4=-6, 1-5=-38, 2-3=-21 Trapezoidal Loads (plf) Vert: 1=-147-to-2=-61 22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert: 3-4=-20 Horz: 1-4=-10, 1-5=-25, 2-3=10 Trapezoidal Loads (plf) Vert: 1=-147-to-2=-61 23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert: 3-4=-20 Horz: 1-4=-10, 1-5=-25, 2-3=10 Trapezoidal Loads (plf) Vert: 1=-147-to-2=-61 28) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf) Vert: 3-4=-20 Trapezoidal Loads (plf)

Vert: 1=-185-to-2=-70

Job Truss Truss Type Qty Streets of West Prvor 42113169 B400088 J48 Flat Job Reference (optional)

Wheeler Lumber, Waverly, KS 66871, Mitek

B.410 s May 22 2020 MiTek Industries, Inc. Tue Jul 21 15:15:25 2020 Page 1 ID:yyQ78agb1ZluwnWc1etTPnz53bT-BzPQSwRKONFMpFxeIYOf20?U9NGoxnvHaBUNaqyvosW 3-9-0

Scale = 1:58.7

3-9-0

<sub>5</sub> 6x12 || M 2x4 II 5x12 = 2.3.15 3

1	3-9-0	
	3-9-0	

6x6 =

LOADING (psf) TCLL (roof) 20.0 Snow (Pf/Pg) 20.4/20.0	SPACING-         2-0-0           Plate Grip DOL         1.15           Lumber DOL         1.15	CSI. TC 0.58 BC 0.28	<b>DEFL.</b> in (loc) I/defl L/d Vert(LL) -0.01 3-4 >999 360 Vert(CT) -0.01 3-4 >999 240	PLATES         GRIP           MT20         197/144
TCDL 15.0 BCLL 0.0 * BCDL 10.0	Rep Stress Incr NO Code IBC2018/TPI2014	WB 0.53 Matrix-P	Horz(CT) -0.01 3 n/a n/a Wind(LL) 0.00 4 **** 240	Weight: 58 lb FT = 10%

3x6 ||

LUMBER-BRACING-

> 2x6 SPF No.2 \*Except\* TOP CHORD 2-0-0 oc purlins: 1-5, 1-2, except end verticals. Except: 5-6: 2x10 SP DSS

6-0-0 oc bracing: 1-4

2x4 SPF No.2 BOT CHORD 8-2-0 oc bracing: 1-5 **BOT CHORD WEBS** 

2x3 SPF No.2 \*Except\* Rigid ceiling directly applied or 4-3-15 oc bracing. 4-5: 2x8 SP 2400F 2.0E **WEBS** 1 Row at midpt 1-5

REACTIONS. (lb/size) 4=283/0-7-4, 3=217/Mechanical

Max Horz 4=484(LC 11)

Max Uplift 4=-781(LC 10), 3=-781(LC 11) Max Grav 4=850(LC 13), 3=850(LC 12)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 1-4=-1080/801 **BOT CHORD** 3-4=-1876/1328 WEBS 1-3=-1516/2143

TOP CHORD

- 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; B=80ft; L=40ft; eave=5ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Corner(3) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- 4) Provide adequate drainage to prevent water ponding.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) All bearings are assumed to be DF No.2 crushing capacity of 625 psi.
- Refer to girder(s) for truss to truss connections.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 781 lb uplift at joint 4 and 781 lb uplift at
- 10) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- 11) Load case(s) 1, 4, 20, 21, 22, 23, 28 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

### LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

Vert: 3-4=-20



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Job	Truss	Truss Type	Qty	Ply	Streets of West Pryor	
B400088	J48	Flat	1	1		I42113169
					Job Reference (optional)	

Wheeler Lumber, Waverly, KS 66871, Mitek

8.410 s May 22 2020 MiTek Industries, Inc. Tue Jul 21 15:15:25 2020 Page 2 ID:yyQ78agb1ZluwnWc1etTPnz53bT-BzPQSwRKONFMpFxeIYOf20?U9NGoxnvHaBUNaqyvosW

### LOAD CASE(S) Standard

Trapezoidal Loads (plf)

Vert: 1=-188-to-2=-71

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 3-4=-20

Trapezoidal Loads (plf) Vert: 1=-149-to-2=-61

20) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 3-4=-20

Horz: 1-4=21, 1-5=38, 2-3=6

Trapezoidal Loads (plf)

Vert: 1=-149-to-2=-61

21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 3-4=-20

Horz: 1-4=-6, 1-5=-38, 2-3=-21

Trapezoidal Loads (plf)

Vert: 1=-149-to-2=-61

22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 3-4=-20

Horz: 1-4=-10, 1-5=-25, 2-3=10

Trapezoidal Loads (plf)

Vert: 1=-149-to-2=-61

23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 3-4=-20

Horz: 1-4=-10, 1-5=-25, 2-3=10

Trapezoidal Loads (plf)

Vert: 1=-149-to-2=-61

28) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 3-4=-20

Trapezoidal Loads (plf)

Vert: 1=-187-to-2=-70



Job Truss Truss Type Qty Streets of West Pryor 142113170 Flat B400088 J49 Job Reference (optional)

Wheeler Lumber.

Waverly, KS - 66871,

8.410 s May 22 2020 MiTek Industries, Inc. Tue Jul 21 13:46:15 2020 Page 1 ID:yyQ78agb1ZluwnWc1etTPnz53bT-p6lbvZm9M6a5c3JjQl09DJQ9rmLUQDCpLqVHowyvqA6

2-0-0 oc purlins: 1-5, 1-2, except end verticals.

Rigid ceiling directly applied or 7-0-10 oc bracing.

3-9-0

Scale = 1:42.3

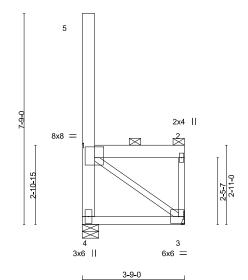


	Plate Offsets	(X,Y) I	[1:0-3-12,0-4-12]
--	---------------	---------	-------------------

Flate Offsets (X, 1) [1.0-3-12	2,0-4-12]			
LOADING (psf) TCLL (roof) 20.0 Snow (Pf/Pg) 20.4/20.0	SPACING- 2-0-0 Plate Grip DOL 1.15	<b>CSI.</b> TC 0.80	DEFL.         in (loc)         l/defl         L/d         PLATES         GRIP           Vert(LL)         -0.01         3-4         >999         360         MT20         197/144	
TCDL 15.0	Lumber DOL 1.15	BC 0.13	Vert(CT) -0.02 3-4 >999 240	
BCLL 0.0 *	Rep Stress Incr NO	WB 0.23	Horz(CT) -0.00 3 n/a n/a	400/
BCDL 10.0	Code IBC2018/TPI2014	Matrix-P	Wind(LL) 0.00 4 **** 240 Weight: 28 lb FT =	10%

**BRACING-**

TOP CHORD

**BOT CHORD** 

LUMBER-

TOP CHORD 2x6 SPF No.2 **BOT CHORD** 2x4 SPF No.2 WEBS 2x3 SPF No.2 \*Except\* 4-5: 2x6 SPF No.2

REACTIONS.

(size) 4=0-7-4, 3=Mechanical

Max Horz 4=-347(LC 12)

Max Uplift 4=-430(LC 10), 3=-430(LC 11) Max Grav 4=500(LC 13), 3=500(LC 12)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

1-4=-544/486, 2-3=-174/265 TOP CHORD

**BOT CHORD** 3-4=-704/460 **WEBS** 1-3=-561/835

- 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; b=25ft; B=80ft; L=40ft; eave=5ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Corner(3) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- 4) Provide adequate drainage to prevent water ponding.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Refer to girder(s) for truss to truss connections.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=430, 3=430.
- 9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1. 10) Load case(s) 1, 4, 19, 20, 21, 22, 27 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

### LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf) Vert: 3-4=-20



OF MISSOL

ANDREW

**THOMAS** 

JOHNSON

NUMBER

PE-2017018993







Job	Truss	Truss Type	Qty	Ply	Streets of West Pryor	
						I42113170
B400088	J49	Flat	1	1		
					Job Reference (optional)	

Wheeler Lumber.

Waverly, KS - 66871,

8.410 s May 22 2020 MiTek Industries, Inc. Tue Jul 21 13:46:15 2020 Page 2 ID:yyQ78agb1ZluwnWc1etTPnz53bT-p6lbvZm9M6a5c3JjQl09DJQ9rmLUQDCpLqVHowyvqA6

### LOAD CASE(S) Standard

Trapezoidal Loads (plf)

Vert: 1=-131-to-2=-71

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 3-4=-20

Trapezoidal Loads (plf)

Vert: 1=-106-to-2=-61

19) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 3-4=-20

Horz: 1-4=21, 1-5=38, 2-3=6

Trapezoidal Loads (plf)

Vert: 1=-106-to-2=-61

20) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 3-4=-20

Horz: 1-4=-6, 1-5=-38, 2-3=-21

Trapezoidal Loads (plf)

Vert: 1=-106-to-2=-61

21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf) Vert: 3-4=-20

Horz: 1-4=-10, 1-5=-25, 2-3=10

Trapezoidal Loads (plf)

Vert: 1=-106-to-2=-61

22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 3-4=-20

Horz: 1-4=-10, 1-5=-25, 2-3=10

Trapezoidal Loads (plf)

Vert: 1=-106-to-2=-61

27) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 3-4=-20

Trapezoidal Loads (plf)

Vert: 1=-130-to-2=-70

Job Truss Truss Type Qty Streets of West Pryor 142113171 B400088 J50 Flat Job Reference (optional)

Wheeler Lumber. Waverly, KS - 66871,

8.410 s May 22 2020 MiTek Industries, Inc. Tue Jul 21 13:46:17 2020 Page 1 ID:yyQ78agb1ZluwnWc1etTPnz53bT-IVtLKFoQukqpsNT6XA2dlkVVbZ1zu7h5o8?NtpyvqA4

2-0-0 oc purlins: 1-5, 1-2, except end verticals.

Rigid ceiling directly applied or 7-1-1 oc bracing.

3-9-0

Scale = 1:42.3

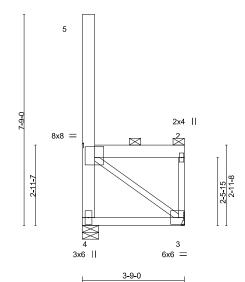


Plate Offsets (X,Y)-- [1:0-3-12,0-4-12]

- 1.010 G.10010 (71) [110 G.12	····			
LOADING (psf) TCLL (roof) 20.0	SPACING- 2-0-0 Plate Grip DOL 1.15	<b>CSI.</b> TC 0.79	DEFL.         in (loc)         l/defl         L/d         PLATES         GRII           Vert(LL)         -0.01         3-4         >999         360         MT20         197/	
Snow (Pf/Pg) 20.4/20.0 TCDL 15.0	Lumber DOL 1.15	BC 0.13	Vert(CT) -0.02 3-4 >999 240	
BCLL 0.0 *	Rep Stress Incr NO Code IBC2018/TPI2014	WB 0.23 Matrix-P	Horz(CT) -0.00	T = 10%
BCDL 10.0				

**BRACING-**

TOP CHORD

**BOT CHORD** 

LUMBER-

TOP CHORD 2x6 SPF No.2 **BOT CHORD** 2x4 SPF No.2 WEBS 2x3 SPF No.2 \*Except\*

4-5: 2x6 SPF No.2

REACTIONS. (size) 4=0-7-4, 3=Mechanical

Max Horz 4=-346(LC 10)

Max Uplift 4=-429(LC 10), 3=-429(LC 11) Max Grav 4=500(LC 13), 3=500(LC 12)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 1-4=-540/487, 2-3=-174/264

**BOT CHORD** 3-4=-696/454 **WEBS** 1-3=-555/829

- 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; B=80ft; L=40ft; eave=5ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Corner(3) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- 4) Provide adequate drainage to prevent water ponding.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Refer to girder(s) for truss to truss connections.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=429, 3=429.
- 9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1. 10) Load case(s) 1, 4, 19, 20, 21, 22, 27 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

### LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf) Vert: 3-4=-20



July 21,2020







Job	Truss	Truss Type	Qty	Ply	Streets of West Pryor	
						I42113171
B400088	J50	Flat	1	1		
					Job Reference (optional)	

Wheeler Lumber.

Waverly, KS - 66871,

8.410 s May 22 2020 MiTek Industries, Inc. Tue Jul 21 13:46:17 2020 Page 2 ID:yyQ78agb1ZluwnWc1etTPnz53bT-IVtLKFoQukqpsNT6XA2dlkVVbZ1zu7h5o8?NtpyvqA4

### LOAD CASE(S) Standard

Trapezoidal Loads (plf)

Vert: 1=-131-to-2=-71

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 3-4=-20 Trapezoidal Loads (plf)

Vert: 1=-106-to-2=-61

19) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 3-4=-20

Horz: 1-4=21, 1-5=38, 2-3=6

Trapezoidal Loads (plf)

Vert: 1=-106-to-2=-61

20) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 3-4=-20

Horz: 1-4=-6, 1-5=-38, 2-3=-21

Trapezoidal Loads (plf)

Vert: 1=-106-to-2=-61

21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 3-4=-20

Horz: 1-4=-10, 1-5=-25, 2-3=10

Trapezoidal Loads (plf)

Vert: 1=-106-to-2=-61

22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 3-4=-20

Horz: 1-4=-10, 1-5=-25, 2-3=10

Trapezoidal Loads (plf)

Vert: 1=-106-to-2=-61

27) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 3-4=-20

Trapezoidal Loads (plf)

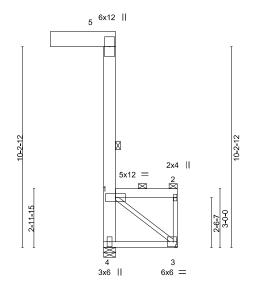
Vert: 1=-130-to-2=-70

Job Truss Truss Type Qty Streets of West Prvor 42113172 B400088 J51 Flat Job Reference (optional)

Wheeler Lumber, Waverly, KS 66871, Mitek

8.410 s May 22 2020 MiTek Industries, Inc. Tue Jul 21 15:15:40 2020 Page 1 ID:yyQ78agb1ZluwnWc1etTPnz53bT-Frp5c2cks\_8E7YbWgC9A9B744QOFyaPU00cgcTyvosH 3-9-0 3-9-0

Scale = 1:58.7



3-9-0

				'	3-9-0				
20.0 20.4/20.0	SPACING- Plate Grip DOL	2-0-0 1.15	CSI.	0.47	DEFL. Vert(LL)	in -0.01	(loc) 3-4	I/defl >999	L/d 360
20.4/20.0	1 1 501	4.45		0.00	1 1/OT	0.04	^ 4		040

360 Snow (Pf/Pg) 240 Lumber DOL 1 15 BC 0.22 Vert(CT) -0.01>999 TCDL 15.0 WB -0.01 n/a \*\*\*\* Rep Stress Incr NO 0.48 Horz(CT) 3 n/a **BCLL** 0.0 Code IBC2018/TPI2014 Matrix-P Wind(LL) 0.00 240 **BCDL** 10.0

**PLATES** MT20 197/144

Weight: 58 lb FT = 10%

GRIP

LUMBER-BRACING-TOP CHORD 2x6 SPF No.2 \*Except\*

TOP CHORD 2-0-0 oc purlins: 1-5, 1-2, except end verticals. Except:

6-0-0 oc bracing: 1-4

10-0-0 oc bracing: 1-5

2x3 SPF No.2 \*Except\* **BOT CHORD** Rigid ceiling directly applied or 4-11-14 oc bracing. 4-5: 2x8 SP 2400F 2.0E WFBS 1 Row at midpt

REACTIONS. (lb/size) 4=283/0-7-4, 3=217/Mechanical

Max Horz 4=-474(LC 10)

5-6: 2x10 SP DSS

2x4 SPF No.2

Max Uplift 4=-775(LC 10), 3=-775(LC 11) Max Grav 4=844(LC 13), 3=844(LC 12)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 1-4=-1016/795 **BOT CHORD** 3-4=-1413/993 WEBS 1-3=-1229/1751

LOADING (ps

BOT CHORD

**WEBS** 

TCLL (roof)

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; B=80ft; L=40ft; eave=5ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Corner(3) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- 4) Provide adequate drainage to prevent water ponding.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) All bearings are assumed to be DF No.2 crushing capacity of 625 psi.
- Refer to girder(s) for truss to truss connections.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 775 lb uplift at joint 4 and 775 lb uplift at
- 10) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- 11) Load case(s) 1, 4, 20, 21, 22, 23, 28 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

### LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

Vert: 3-4=-20



July 21,2020

### ed on page 2

🗥 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.



Job	Truss	Truss Type	Qty	Ply	Streets of West Pryor	
					143	2113172
B400088	J51	Flat	1	1		
					Job Reference (optional)	
Wheeler Lumber, Waverly, KS 668	371, Mitek	•			8.410 s May 22 2020 MiTek Industries, Inc. Tue Jul 21 15:15:40 2020 Pa	ge 2
		ID:yyQ7	8agb1Zlu	wnWc1etTl	Pnz53bT-Frp5c2cks_8E7YbWgC9A9B744QOFyaPU00cgcTyvo	šН
			-			
LOAD CASE(S) Standard						

### Trapezoidal Loads (plf) Vert: 1=-188-to-2=-71 4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf) Vert: 3-4=-20 Trapezoidal Loads (plf) Vert: 1=-149-to-2=-61 20) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert: 3-4=-20 Horz: 1-4=21, 1-5=38, 2-3=6 Trapezoidal Loads (plf) Vert: 1=-149-to-2=-61 21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert: 3-4=-20 Horz: 1-4=-6, 1-5=-38, 2-3=-21 Trapezoidal Loads (plf) Vert: 1=-149-to-2=-61 22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert: 3-4=-20 Horz: 1-4=-10, 1-5=-25, 2-3=10 Trapezoidal Loads (plf) Vert: 1=-149-to-2=-61 23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert: 3-4=-20 Horz: 1-4=-10, 1-5=-25, 2-3=10 Trapezoidal Loads (plf) Vert: 1=-149-to-2=-61

28) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf) Vert: 3-4=-20 Trapezoidal Loads (plf) Vert: 1=-187-to-2=-70

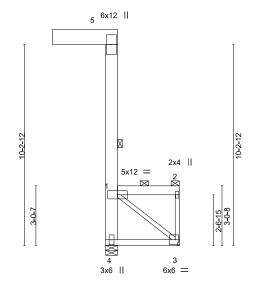


Job Truss Truss Type Qty Streets of West Prvor 42113173 B400088 J52 Flat Job Reference (optional)

Wheeler Lumber, Waverly, KS 66871, Mitek

8.410 s May 22 2020 MiTek Industries, Inc. Tue Jul 21 15:15:56 2020 Page 1 ID:yyQ78agb1ZluwnWc1etTPnz53bT-nwn8zWpm5u9y10pbcZSwoZnp8ts1ipLriWUWAXyvos1 3-9-0

Scale = 1:58.7



1	3-9-0	- 1
	3-9-0	

LOADING (psf) TCLL (roof) 20.0 Snow (Pf/Pg) 20.4/20.0 TCDL 15.0	SPACING-         2-0-0           Plate Grip DOL         1.15           Lumber DOL         1.15           Rep Stress Incr         NO	CSI. TC 0.47 BC 0.22 WB 0.48	<b>DEFL.</b> Vert(LL) Vert(CT) Horz(CT)	in -0.01 -0.01 -0.01	(loc) 3-4 3-4 3	I/defl >999 >999 n/a	L/d 360 240 n/a	PLATES MT20	<b>GRIP</b> 197/144
BCLL 0.0 * BCDL 10.0	Code IBC2018/TPI2014	Matrix-P	Wind(LL)	0.00	4	****	240	Weight: 58 lb	FT = 10%

LUMBER-BRACING-

TOP CHORD 2x6 SPF No.2 \*Except\* TOP CHORD 2-0-0 oc purlins: 1-5, 1-2, except end verticals. Except:

5-6: 2x10 SP DSS 6-0-0 oc bracing: 1-4 2x4 SPF No.2 10-0-0 oc bracing: 1-5

2x3 SPF No.2 \*Except\* **BOT CHORD WEBS** Rigid ceiling directly applied or 5-0-6 oc bracing.

4-5: 2x8 SP 2400F 2.0E **WEBS** 1 Row at midpt 1-5

REACTIONS. (lb/size) 4=283/0-7-4, 3=217/Mechanical

Max Horz 4=474(LC 11)

Max Uplift 4=-774(LC 10), 3=-774(LC 11) Max Grav 4=843(LC 13), 3=843(LC 12)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 1-4=-1011/794 **BOT CHORD** 3-4=-1392/978 WEBS 1-3=-1217/1734

BOT CHORD

- 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; B=80ft; L=40ft; eave=5ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Corner(3) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- 4) Provide adequate drainage to prevent water ponding.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) All bearings are assumed to be DF No.2 crushing capacity of 625 psi.
- 8) Refer to girder(s) for truss to truss connections.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 774 lb uplift at joint 4 and 774 lb uplift at
- 10) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- 11) Load case(s) 1, 4, 20, 21, 22, 23, 28 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

### LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

Vert: 3-4=-20



July 21,2020

### ed on page 2





Job	Truss	Truss Type	Qty	Ply	Streets of West Pryor	
						<b>I</b> 42113173
B400088	J52	Flat	1	1		
					Job Reference (optional)	
Whoder Lumber Wayerly KS 66971 Mitch				9.410 c May 22.2020 MiTak Industrias Inc. Tuo Iul 21.15:15:56.2020	Bogo 2	

ID:yyQ78agb1ZluwnWc1etTPnz53bT-nwn8zWpm5u9y10pbcZSwoZnp8ts1ipLriWUWAXyvos1

### LOAD CASE(S) Standard

Trapezoidal Loads (plf)

Vert: 1=-188-to-2=-71

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 3-4=-20

Trapezoidal Loads (plf) Vert: 1=-149-to-2=-61

20) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 3-4=-20

Horz: 1-4=21, 1-5=38, 2-3=6

Trapezoidal Loads (plf)

Vert: 1=-149-to-2=-61

21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 3-4=-20

Horz: 1-4=-6, 1-5=-38, 2-3=-21

Trapezoidal Loads (plf)

Vert: 1=-149-to-2=-61

22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 3-4=-20

Horz: 1-4=-10, 1-5=-25, 2-3=10

Trapezoidal Loads (plf)

Vert: 1=-149-to-2=-61

23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 3-4=-20

Horz: 1-4=-10, 1-5=-25, 2-3=10

Trapezoidal Loads (plf)

Vert: 1=-149-to-2=-61

28) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 3-4=-20

Trapezoidal Loads (plf)

Vert: 1=-187-to-2=-70

Job Truss Truss Type Qty Streets of West Prvor 42113174 B400088 J53 Flat Job Reference (optional)

Wheeler Lumber, Waverly, KS 66871, Mitek

8.410 s May 22 2020 MiTek Industries, Inc. Tue Jul 21 15:16:09 2020 Page 1 ID:yyQ78agb1ZluwnWc1etTPnz53bT-vQ33hzzw1un650I5tnBzqlq1y6I7FhYlh18i6Hyvorq

Scale = 1:58.7

3-9-0 3-9-0

<sub>5</sub> 6x12 || M 2x4 || 5x12 = 3-0-15

3-9-0	ı
3-9-0	1

3

6x6 =

LOADING (psf) TCLL (roof) 20.0 Snow (Pf/Pg) 20.4/20.0 TCDL 15.0	SPACING-         2-0-0           Plate Grip DOL         1.15           Lumber DOL         1.15           Rep Stress Incr.         NO	CSI. TC 0.46 BC 0.21	DEFL. in (loc) I/defl L/d Vert(LL) -0.01 3-4 >999 360 Vert(CT) -0.01 3-4 >999 240 Horz(CT) -0.01 3 p/a	<b>PLATES GRIP</b> MT20 197/144
BCLL 0.0 *	Rep Stress Incr NO Code IBC2018/TPI2014	WB 0.48	Horz(CT) -0.01 3 n/a n/a	Wainby 50 lb 5T = 400/
BCDL 10.0	Code IBC2018/1PI2014	Matrix-P	Wind(LL) 0.00 4 **** 240	Weight: 58 lb FT = 10%

3x6 ||

LUMBER-BRACING-

TOP CHORD 2x6 SPF No.2 \*Except\* TOP CHORD 2-0-0 oc purlins: 1-5, 1-2, except end verticals. Except: 5-6: 2x10 SP DSS

6-0-0 oc bracing: 1-4 10-0-0 oc bracing: 1-5

2x4 SPF No.2 **BOT CHORD** 

2x3 SPF No.2 \*Except\* **WEBS** Rigid ceiling directly applied or 5-0-13 oc bracing. 4-5: 2x8 SP 2400F 2.0E **WEBS** 1 Row at midpt

REACTIONS. (lb/size) 4=283/0-7-4, 3=217/Mechanical

Max Horz 4=-473(LC 10)

Max Uplift 4=-774(LC 10), 3=-774(LC 11) Max Grav 4=843(LC 13), 3=843(LC 12)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 1-4=-1007/794 **BOT CHORD** 3-4=-1371/963 WEBS 1-3=-1204/1717

BOT CHORD

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; B=80ft; L=40ft; eave=5ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Corner(3) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- 4) Provide adequate drainage to prevent water ponding.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) All bearings are assumed to be DF No.2 crushing capacity of 625 psi.
- 8) Refer to girder(s) for truss to truss connections.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 774 lb uplift at joint 4 and 774 lb uplift at
- 10) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- 11) Load case(s) 1, 4, 20, 21, 22, 23, 28 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

### LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

Vert: 3-4=-20



July 21,2020

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Job	Truss	Truss Type	Qty	Ply	Streets of West Pryor	
B400088	J53	Flat	1	1	Job Reference (optional)	<b> </b> 42113174

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### LOAD CASE(S) Standard

Trapezoidal Loads (plf)

Vert: 1=-188-to-2=-71

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 3-4=-20

Trapezoidal Loads (plf) Vert: 1=-149-to-2=-61

20) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 3-4=-20

Horz: 1-4=21, 1-5=38, 2-3=6

Trapezoidal Loads (plf)

Vert: 1=-149-to-2=-61

21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 3-4=-20

Horz: 1-4=-6, 1-5=-38, 2-3=-21

Trapezoidal Loads (plf)

Vert: 1=-149-to-2=-61

22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 3-4=-20

Horz: 1-4=-10, 1-5=-25, 2-3=10

Trapezoidal Loads (plf)

Vert: 1=-149-to-2=-61

23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 3-4=-20

Horz: 1-4=-10, 1-5=-25, 2-3=10

Trapezoidal Loads (plf)

Vert: 1=-149-to-2=-61

28) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 3-4=-20

Trapezoidal Loads (plf)

Vert: 1=-187-to-2=-70

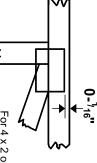


## Symbols

# PLATE LOCATION AND ORIENTATION



offsets are indicated. Center plate on joint unless x, y and fully embed teeth. Dimensions are in ft-in-sixteenths. Apply plates to both sides of truss



edge of truss. plates 0- 1/16" from outside For 4 x 2 orientation, locate

connector plates. required direction of slots in This symbol indicates the

\* Plate location details available in MiTek 20/20 software or upon request.

### PLATE SIZE



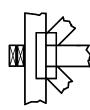
to slots. Second dimension is the length parallel to slots. width measured perpendicular The first dimension is the plate

## LATERAL BRACING LOCATION



output. Use T or I bracing if indicated. by text in the bracing section of the Indicated by symbol shown and/or

### **BEARING**



Min size shown is for crushing only. reaction section indicates joint number where bearings occur. (supports) occur. Icons vary but Indicates location where bearings

## Industry Standards:

ANSI/TPI1:

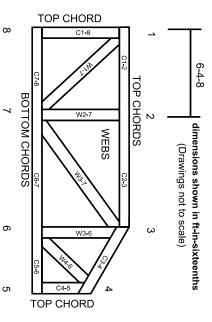
National Design Specification for Metal

Guide to Good Practice for Handling Design Standard for Bracing. Building Component Safety Information. Plate Connected Wood Truss Construction.

DSB-89: BCSI:

Installing & Bracing of Metal Plate Connected Wood Trusses.

# Numbering System



JOINTS ARE GENERALLY NUMBERED/LETTERED CLOCKWISE AROUND THE TRUSS STARTING AT THE JOINT FARTHEST TO THE LEFT.

CHORDS AND WEBS ARE IDENTIFIED BY END JOINT NUMBERS/LETTERS.

## PRODUCT CODE APPROVALS

ICC-ES Reports:

ESR-1311, ESR-1352, ESR1988 ER-3907, ESR-2362, ESR-1397, ESR-3282

truss unless otherwise shown. Trusses are designed for wind loads in the plane of the

established by others. section 6.3 These truss designs rely on lumber values Lumber design values are in accordance with ANSI/TPI 1

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MiTek Engineering Reference Sheet: MII-7473 rev. 5/19/2020

# General Safety Notes

## Damage or Personal Injury Failure to Follow Could Cause Property

- 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 bracing should be considered. may require bracing, or alternative Tor I wide truss spacing, individual lateral braces themselves

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Never exceed the design loading shown and never stack materials on inadequately braced trusses.

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Provide copies of this truss design to the building all other interested parties. designer, erection supervisor, property owner and

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- Cut members to bear tightly against each other.
- locations are regulated by ANSI/TPI 1. joint and embed fully. Knots and wane at joint Place plates on each face of truss at each

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- the environment in accord with ANSI/TPI 1. Design assumes trusses will be suitably protected from
- Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.

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Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber

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- Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
- Plate type, size, orientation and location dimensions indicated are minimum plating requirements
- Lumber used shall be of the species and size, and in all respects, equal to or better than that
- Top chords must be sheathed or purlins provided at spacing indicated on design.
- Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
- Connections not shown are the responsibility of others.
- Do not cut or alter truss member or plate without prior approval of an engineer.
- Install and load vertically unless indicated otherwise.
- Use of green or treated lumber may pose unacceptable project engineer before use. environmental, health or performance risks. Consult with
- 19. Review all portions of this design (front, back, words is not sufficient. and pictures) before use. Reviewing pictures alone
- 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.