

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

Revised Field Truss Drawings

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 Valdivia (Schwerdt Design Group, Inc.)		
BALL IN COURT:	Aaron Scott (Certus Structural Engineers), Beth Valdivia (Schwerdt Design Group, Inc.)		
DISTRIBUTION:	Tyler Ramaekers (A.L. Huber, Inc.) , Jaime Pallas (A.L. Huber, Inc.) , David Olson (Monarch Acquisitions, LLC)		
DESCRIPTION:	The attached file is being submitted for information only. Please make any notes 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



For Reactions greater than 1245#, refer to EOR.

Approved By: _____ Date: _____

*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

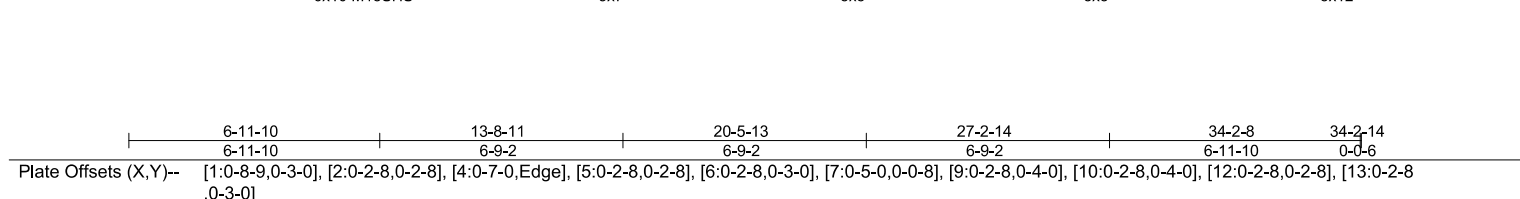


July 21,2020

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.

Wheeler Lumber, Waverly, KS - 66871, 8.410 s May 22 2020 MiTek Industries, Inc. Tue Jul 21 13:43:48 2020 Page 1
ID:yyQ78agb1ZlwnWc1eTPnz53bT-cqN02J_y_y3yUUaTJNtgJlq?xv1MUZ6AXSP?8yvvqCP
6-11-10 13-8-11 20-5-13 27-2-14 34-2-8 34-5-14
6-11-10 6-9-2 6-9-2 6-9-2 6-11-10 0-3-6
Scale: 3/16"=1'



LUMBER-		BRACING-	
TOP CHORD	2x6 SP DSS *Except* 1-4: 2x6 SPF 1650F 1.4E	TOP CHORD	Structural wood sheathing directly applied or 3-6-2 oc purlins, except end verticals.
BOT CHORD	2x6 SP DSS	BOT CHORD	Rigid ceiling directly applied or 4-1-3 oc bracing.
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	WEBS	1 Row at midpt 1-13, 5-9, 6-8

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; BCCL=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) TLL: 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.

10) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 7.



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 **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Components**.

Safety Information - available from Truss Plate Institute, 2670 Grain Highway, Suite 203 Waldorf, MD 20601.



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Streets of West Pryor
B400088	A1	Monopitch Girder	1	2	142113100
Wheeler Lumber, Waverly, KS - 66871,					Job Reference (optional)

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 lb 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 others.

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)
Trapezoidal Loads (plf)
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

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Streets of West Pryor
B400088	A1	Monopitch Girder	1	2	I42113100
Wheeler Lumber, Waverly, KS - 66871,					Job Reference (optional)

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ID:yyQ78agb1ZluwnWc1etTPnz53bT-cqN02J_y_y3yUUaTJNtglJq?xV1MUZ6AXSP?8yyvqCP

- LOAD CASE(S) Standard

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=-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	Ply	Streets of West Pryor	142113101
B400088	A2	Monopitch	4	1		

Wheeler Lumber, Waverly, KS - 66871,

8.410 s May 22 2020 MiTek Industries, Inc. Tue Jul 21 13:44:17 2020 Page 1

ID:yyQ78agb1ZluwnWc1etTPnz53bT-GQd_8DL89sirSxl2WzvUQQXzNCvwngwRCTw1fmyvqBy

6-11-10	13-8-11	20-5-13	27-2-14	34-2-8	34-5-14
6-11-10	6-9-2	6-9-2	6-9-2	6-11-10	0-3-6

Scale = 1:59.3

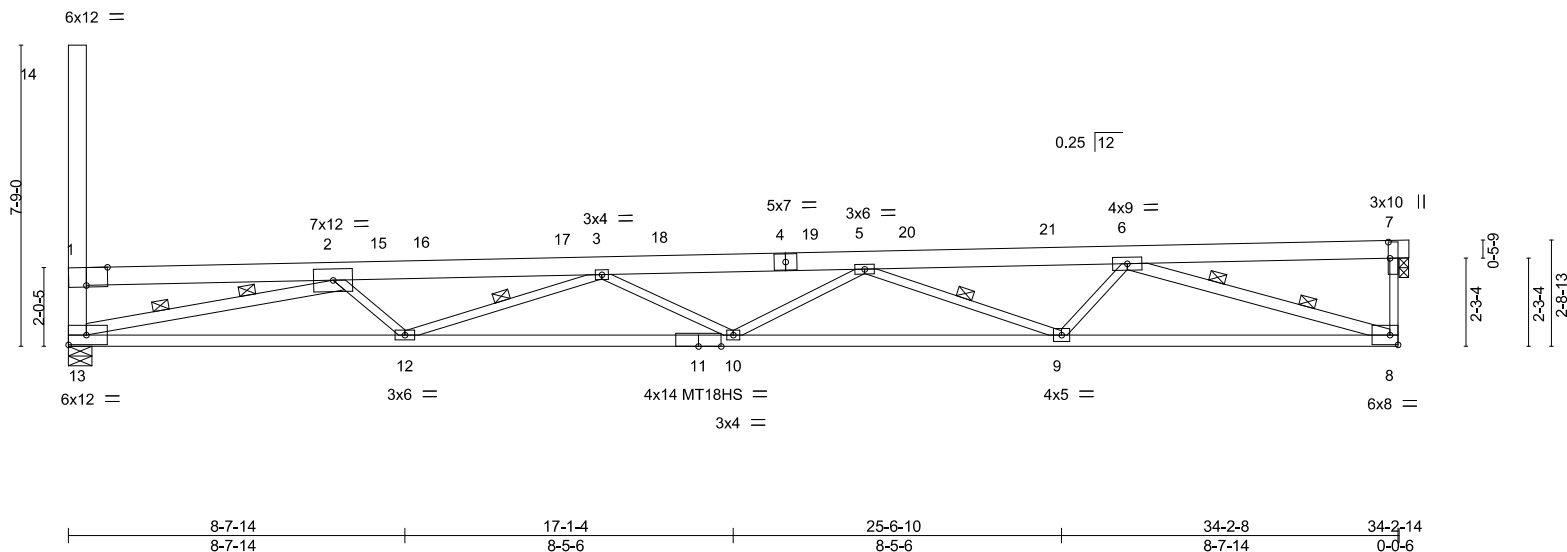


Plate Offsets (X,Y)-- [1:0-6-10,Edge], [7:0-5-0,0-0-8]		8-7-14 8-7-14		17-1-4 8-5-6		25-6-10 8-5-6		34-2-8 8-7-14		34-2-14 0-0-6	
LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL (roof)	20.0	2-0-0		TC	0.88	in (loc)	l/defl	L/d	MT20	197/144	
Snow (Pf/Pg)	15.4/20.0	Plate Grip DOL	1.15	BC	0.90	Vert(LL)	-0.56 10-12	>721	360	MT18HS	197/144
TCDL	15.0	Lumber DOL	1.15	WB	0.93	Vert(CT)	-1.24 10-12	>327	240		
BCLL	0.0 *	Rep Stress Incr	NO	Matrix-S		Horz(CT)	0.03 7	n/a	n/a		
BCDL	10.0	Code IBC2018/TPI2014				Wind(LL)	0.56 10-12	>728	240		
								Weight: 149 lb		FT = 10%	

LUMBER-
TOP CHORD 2x6 SPF No.2
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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-3-1 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 4-7-13 oc bracing.
WEBS 1 Row at midpt 3-12, 5-9
2 Rows at 1/3 pts 2-13, 6-8

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.
TOP CHORD 1-13=-420/150, 1-2=-940/890, 2-3=-5462/2313, 3-5=-6508/2464, 5-6=-4544/1628, 7-8=-445/1321
BOT CHORD 12-13=-2346/4830, 10-12=-2775/6614, 9-10=-2442/6127, 8-9=-1532/3906
WEBS 2-13=-4693/1673, 2-12=-184/936, 3-12=-1330/678, 3-10=-146/290, 5-10=-95/504, 5-9=-1716/823, 6-9=-245/1041, 6-8=-4046/1580

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=1.00; 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 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.

LOAD CASE(S) Standard

Continued on page 2



July 21,2020

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Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Streets of West Pryor
B400088	A2	Monopitch	4	1	I42113101
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_8DL89sirSxl2WzvUQQXzNCvwngwRCTw1fmyvqBy

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
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

 **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 **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



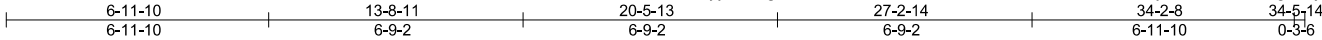
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Streets of West Pryor
B400088	A2A	Monopitch	4	1	142113102

Wheeler Lumber, Waverly, KS - 66871,

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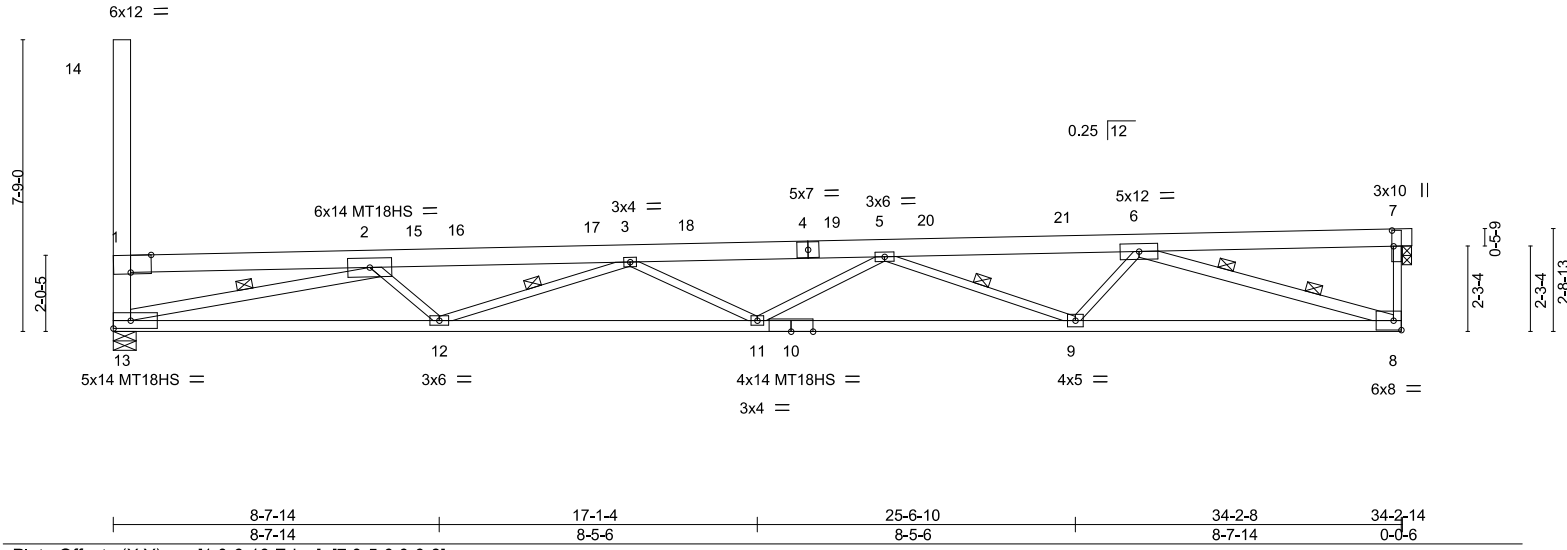


Plate Offsets (X,Y)-- [1:0-6-10,Edge], [7:0-5-0,0-0-8]									
LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in (loc)	l/defl	L/d
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.88	Vert(LL)	-0.53 11-12	>760	360
Snow (Pf/Pg)	15.4/20.0	Lumber DOL	1.15	BC	0.91	Vert(CT)	-1.37 11-12	>298	240
TCDL	15.0	Rep Stress Incr	NO	WB	0.95	Horz(CT)	0.03 7	n/a	n/a
BCLL	0.0 *	Code IBC2018/TPI2014		Matrix-S		Wind(LL)	0.53 11-12	>765	240
BCDL	10.0								
								Weight: 149 lb	
								FT = 10%	

LUMBER-		BRACING-	
TOP CHORD	2x6 SPF No.2 *Except* 1-4: 2x6 SPF 1650F 1.4E	TOP CHORD	Structural wood sheathing directly applied or 2-0-5 oc purlins, except end verticals.
BOT CHORD	2x4 SPF 2400F 2.0E *Except* 8-10: 2x4 SPF 2100F 1.8E	BOT CHORD	Rigid ceiling directly applied or 6-1-2 oc bracing.
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	WEBS	1 Row at midpt 2-13, 3-12, 5-9 2 Rows at 1/3 pts 6-8

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-**
- 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
 - 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.
 - 375.0lb AC unit load placed on the top chord, 11-4-0 from left end, supported at two points, 4-5-0 apart.
 - Provide adequate drainage to prevent water ponding.
 - All plates are MT20 plates unless otherwise indicated.
 - 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.
 - * 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.
 - Provide mechanical connection (by others) of truss to bearing plate at joint(s) 7.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 7.
 - Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 7.
 - 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, 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.
 - 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.

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July 21,2020



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Streets of West Pryor
B400088	A2A	Monopitch	4	1	I42113102
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-CokIZvMPHTzZiESQdOxyWrdJt?ZCFa7kgnP8jfyyqBw

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

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Streets of West Pryor	142113103
B400088	A2B	Monopitch	4	1		

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_17mFN1Sn5QJO1dB5SB239T3PuN_0ctuR9hF5yvqBv

Job Reference (optional)

6-11-10	13-8-11	20-5-13	27-2-14	34-2-8	34-5-14
6-11-10	6-9-2	6-9-2	6-9-2	6-11-10	0-3-6

Scale = 1:61.2

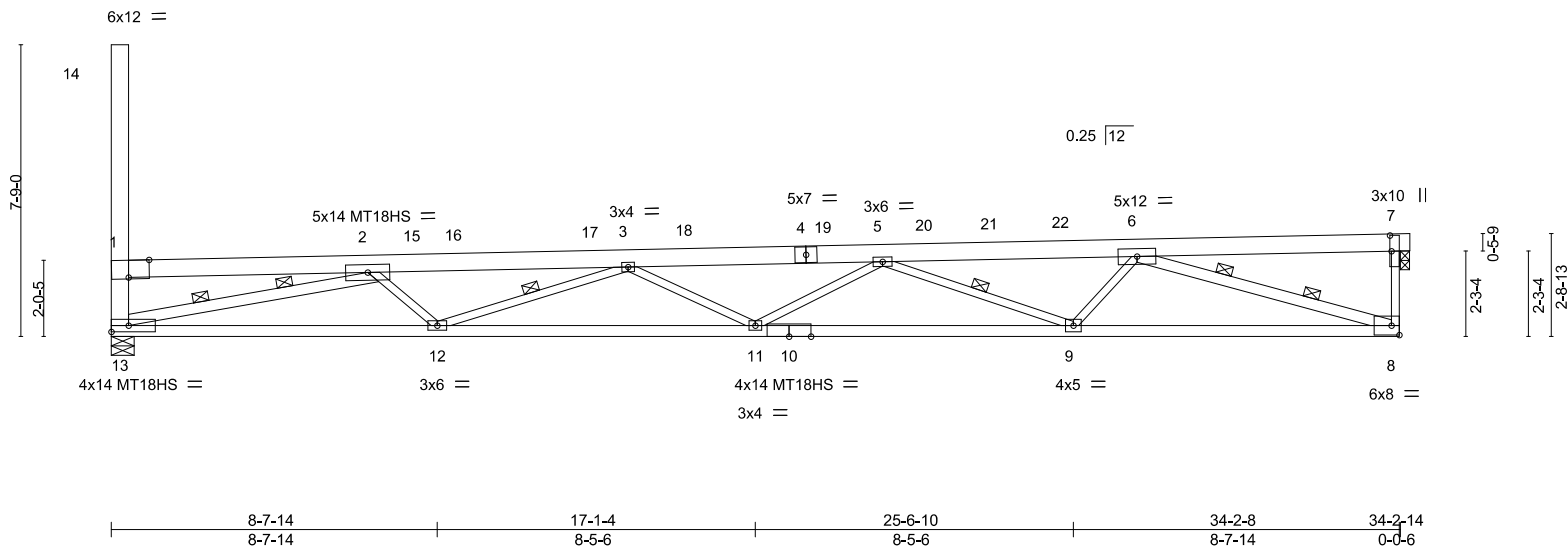


Plate Offsets (X,Y)-- [1:0-6-10,Edge], [7:0-5-0,0-0-8]		8-7-14 8-7-14		17-1-4 8-5-6		25-6-10 8-5-6		34-2-8 8-7-14		34-2-14 0-0-6	
LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL (roof)	20.0	2-0-0		TC	0.92	in (loc)	l/defl	MT20		197/144	
Snow (Pf/Pg)	15.4/20.0	Plate Grip DOL	1.15	BC	0.98	Vert(LL)	-0.56 11-12	MT18HS		197/144	
TCDL	15.0	Lumber DOL	1.15	WB	1.00	Vert(CT)	-1.38 11-12				
BCLL	0.0 *	Rep Stress Incr	NO	Matrix-S		Horz(CT)	0.03 7				
BCDL	10.0	Code IBC2018/TPI2014				Wind(LL)	0.56 11-12				
								Weight: 149 lb		FT = 10%	

LUMBER-
TOP CHORD 2x6 SPF No.2
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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 1-9-4 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 5-4-5 oc bracing.
WEBS 1 Row at midpt 3-12, 5-9
2 Rows at 1/3 pts 2-13, 6-8

REACTIONS. (size) 13=0-7-4, 7=0-2-14
Max Horz 13=392(LC 11)
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.
TOP CHORD 1-13=-426/145, 1-2=-951/879, 2-3=-5895/1880, 3-5=-7292/1684, 5-6=-5130/1045, 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

NOTES-

- 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
- 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.
- 250.0lb AC unit load placed on the top chord, 21-1-8 from left end, supported at two points, 4-5-0 apart.
- Provide adequate drainage to prevent water ponding.
- All plates are MT20 plates unless otherwise indicated.
- 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.
- Provide mechanical connection (by others) of truss to bearing plate at joint(s) 7.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 13, 7.
- Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 7.
- 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, 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.
- 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



July 21,2020

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Streets of West Pryor
B400088	A2B	Monopitch	4	1	I42113103
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 2
ID:yyQ78agb1ZluwnWc1etTPnz53bT-g_I7mFN1Sn5QJO1dB5SB239T3PuN_0ctuR9hF5yvqBv

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

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Streets of West Pryor	142113104
B400088	A3	Monopitch	6	1	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
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30-6-14
7-7-2
38-4-8
7-9-10
38-7-14
0-3-6

7-9-10
7-9-10
15-4-11
7-7-2
22-11-13
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7-7-2
38-4-8
7-9-10
38-7-14
0-3-6

Scale = 1:68.8

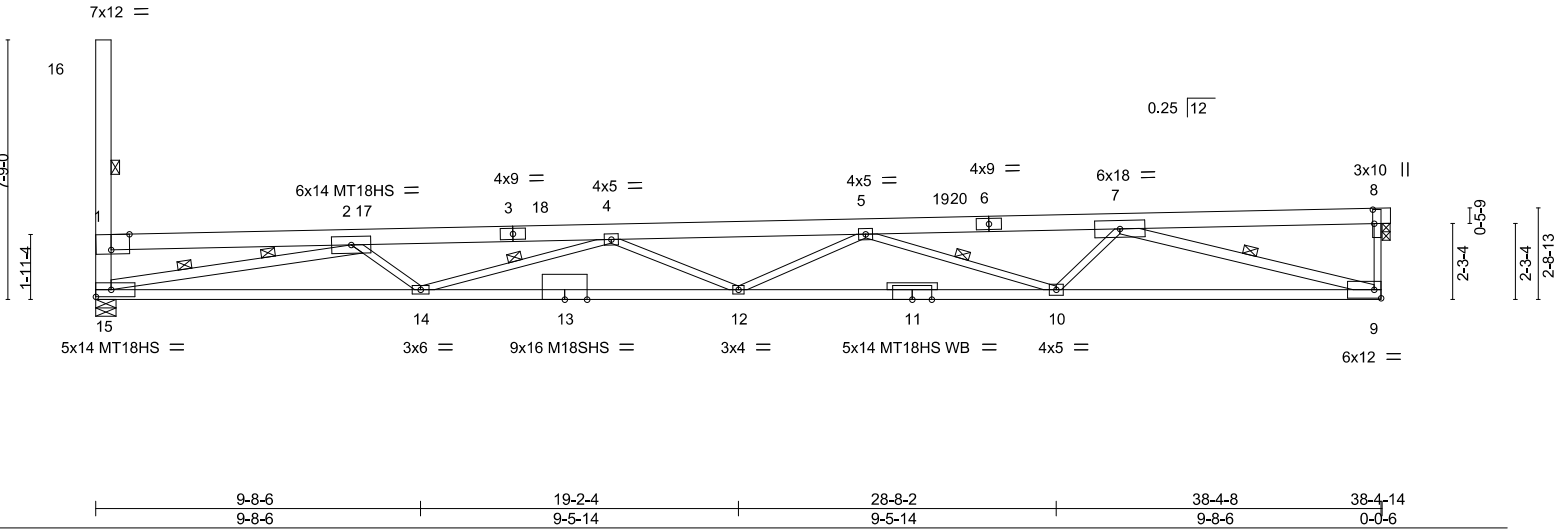


Plate Offsets (X,Y)-- [1:0-6-10,Edge], [8:0-5-0,0-0-8]		9-8-6		19-2-4		28-8-2		38-4-8		38-4-14	
		9-8-6		9-5-14		9-5-14		9-8-6		0-0-6	
LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL (roof)	20.0	2-0-0		TC	0.91	in (loc)	l/defl	MT20		197/144	
Snow (Pf/Pg)	15.4/20.0	Plate Grip DOL	1.15	BC	0.97	Vert(LL)	-0.84 12-14	M18SHS		197/144	
TCDL	15.0	Lumber DOL	1.15	WB	0.95	Vert(CT)	-1.87 12-14	MT18HS		197/144	
BCLL	0.0 *	Rep Stress Incr	NO	Matrix-S		Horz(CT)	0.03 8	Weight: 166 lb		FT = 10%	
BCDL	10.0	Code IBC2018/TPI2014				Wind(LL)	0.79 12-14				

LUMBER-		BRACING-	
TOP CHORD	2x6 SPF 1650F 1.4E	TOP CHORD	Structural wood sheathing directly applied or 2-5-6 oc purlins, except end verticals. Except:
BOT CHORD	2x4 SPF 2400F 2.0E		6-0-0 oc bracing: 1-15
WEBS	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 4-6-15 oc bracing.
OTHERS	2x3 SPF No.2	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-**
- 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
 - 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.
 - Provide adequate drainage to prevent water ponding.
 - All plates are MT20 plates unless otherwise indicated.
 - 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.
 - Provide mechanical connection (by others) of truss to bearing plate at joint(s) 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.
 - Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 8.
 - 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, 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.
 - 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.

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July 21,2020



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Streets of West Pryor
B400088	A3	Monopitch	6	1	I42113104
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 2
ID:yyQ78agb1ZluwnWc1etTPnz53bT-8BsV_bOfD5DHxYcplpzQbGie0pEmjUd175uEoXyvvqBu

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	Ply	Streets of West Pryor	142113105
B400088	A3A	Monopitch	4	1	Job Reference (optional)	

Wheeler Lumber, Waverly, KS - 66871,

8.410 s May 22 2020 MiTek Industries, Inc. Tue Jul 21 13:44:23 2020 Page 1

ID:yyQ78agb1ZluwnWc1etTPnz53bT-4Z_FPGPvliT_AslCsD0ughn_AczPBOPkPNLsQyvvqBs

7-9-10	15-4-11	22-11-13	30-6-14	38-4-8	38-7-14
7-9-10	7-7-2	7-7-2	7-7-2	7-9-10	0-3-6

Scale = 1:70.6

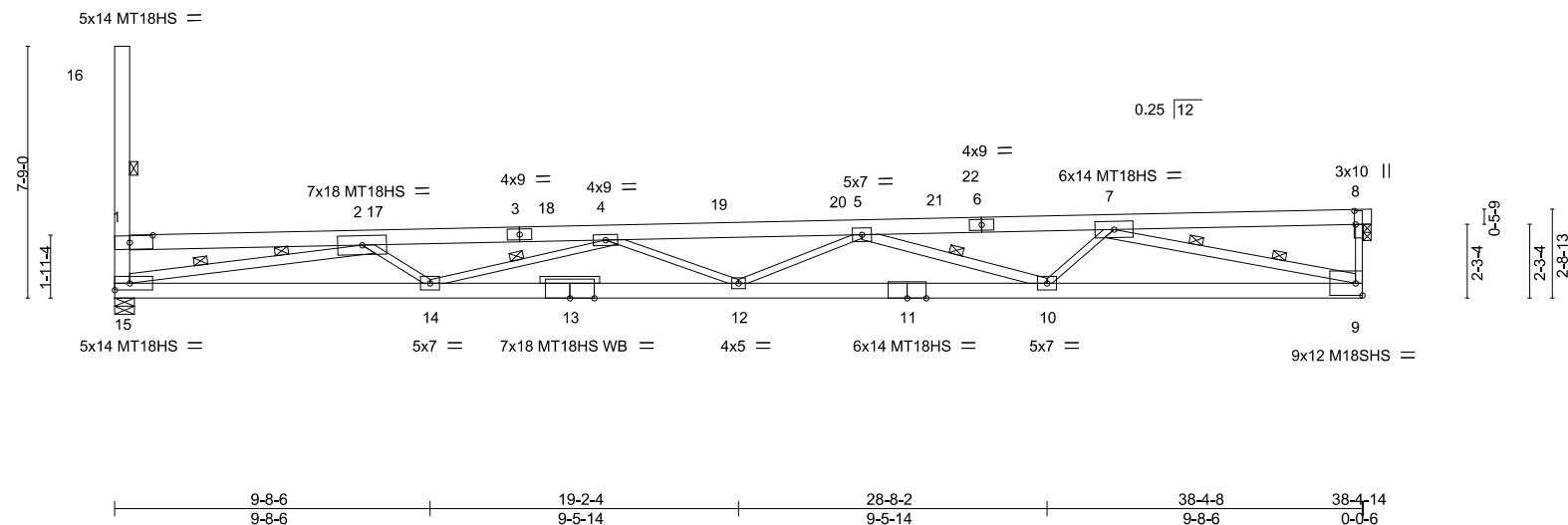


Plate Offsets (X,Y)-- [1:0-8-9,0-2-8], [8:0-5-0,0-0-8]		9-8-6 9-8-6		19-2-4 9-5-14		28-8-2 9-5-14		38-4-8 9-8-6		38-4-14 0-0-6	
LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL (roof)	20.0	2-0-0		TC	0.93	in (loc)	l/defl	L/d	MT20	197/144	
Snow (Pf/Pg)	15.4/20.0	Plate Grip DOL	1.15	BC	0.83	Vert(LL)	-0.69 12-14	>666	M18SHS	197/144	
TCDL	15.0	Lumber DOL	1.15	WB	0.93	Vert(CT)	-1.67 12-14	>274	MT18HS	197/144	
BCLL	0.0 *	Rep Stress Incr	NO	Matrix-S		Horz(CT)	-0.01 8	n/a	Weight: 228 lb	FT = 10%	
BCDL	10.0	Code IBC2018/TPI2014				Wind(LL)	0.63 12-14	>719			

LUMBER-

TOP CHORD 2x6 SP DSS *Except*
1-3: 2x6 SPF 1650F 1.4E
BOT CHORD 2x6 SP DSS
WEBS 2x3 SPF No.2 *Except*
15-16: 2x6 SPF No.2, 2-15,7-9: 2x4 SPF 2100F 1.8E
5-10: 2x4 SPF No.2
OTHERS 2x3 SPF No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 2-0-7 oc purlins, except end verticals. Except:
6-0-0 oc bracing: 1-15
7-5-0 oc bracing: 1-16
BOT CHORD Rigid ceiling directly applied or 5-8-3 oc bracing.
WEBS 1 Row at midpt 1-16, 4-14, 5-10
2 Rows at 1/3 pts 2-15, 7-9

REACTIONS.

(size) 15=0-7-4, 8=0-2-14
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 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 the intended use of this truss.

On the other side of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.



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.

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Streets of West Pryor
B400088	A3A	Monopitch	4	1	I42113105
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 2
ID:yyQ78agb1ZluwnWc1etTPnz53bT-4Z_FPGPvliT_AslCsD0ughn_AczPBOPKbPNLsQyvvqBs

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

 **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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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Streets of West Pryor
B400088	A4	Monopitch Supported Gable	1	2	142113106

Wheeler Lumber, Waverly, KS - 66871,

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

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38-4-8

38-4-8

Scale = 1:66.7

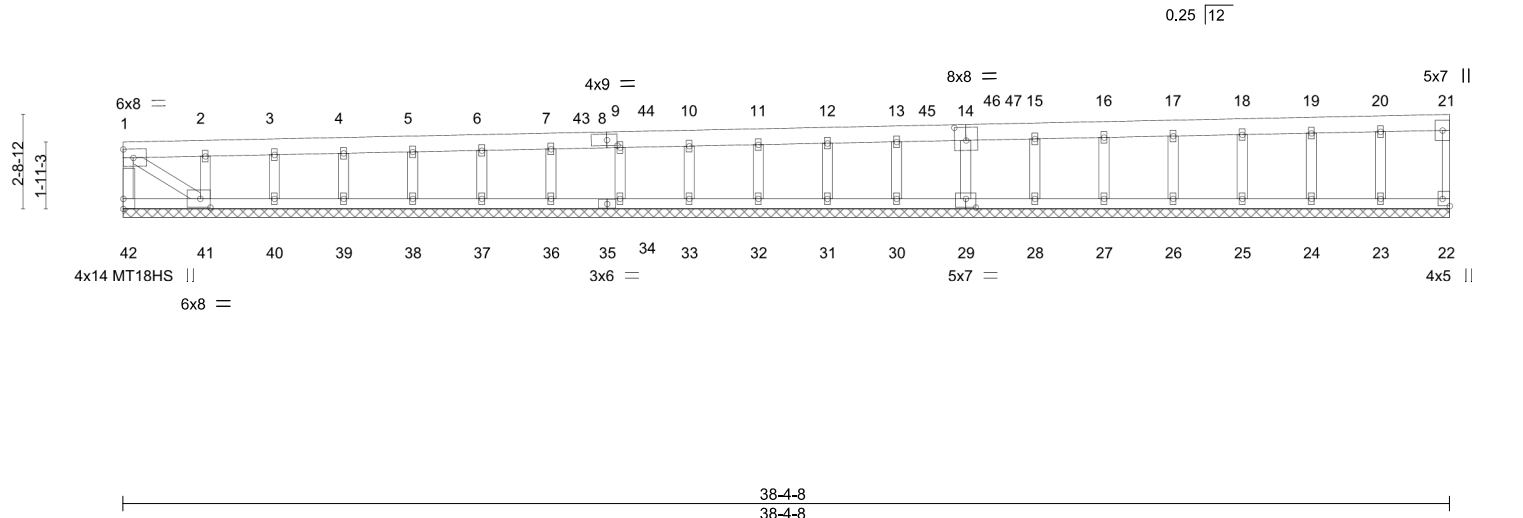


Plate Offsets (X,Y)-- [8:0-3-9,0-2-0], [14:0-4-0,0-4-8], [21:0-0-0,0-0-0], [22:Edge,0-2-8], [29:0-3-8,0-3-0], [41:0-3-8,0-3-0]												
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d			PLATES	GRIP		
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.61	Vert(LL)	n/a	-	n/a	999	MT20	197/144
Snow (Pf/Pg)	15.4/20.0	Lumber DOL	1.15	BC	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		Matrix-S							Weight: 301 lb	FT = 10%
BCDL	10.0											

LUMBER-	BRACING-
TOP CHORD 2x6 SPF No.2	TOP CHORD Structural wood sheathing directly applied or 5-9-4 oc purlins, except end verticals.
BOT CHORD 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied or 4-8-9 oc bracing.
WEBS 2x4 SPF No.2 *Except*	
21-22: 2x3 SPF No.2	
OTHERS 2x4 SPF No.2	

REACTIONS.	All bearings 38-4-8.
(lb) - Max Horz	42=91(LC 38)
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)
Max Grav	All reactions 250 lb or less at joint(s) 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 36, 37, 38, 39, 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-**
- 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.
 - 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.
 - 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
 - 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.
 - 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); Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10; Min. flat roof snow load governs.



Job	Truss	Truss Type	Qty	Ply	Streets of West Pryor
B400088	A4	Monopitch Supported Gable	1	2	I42113106
					Job Reference (optional)

Wheeler Lumber, Waverly, KS - 66871,

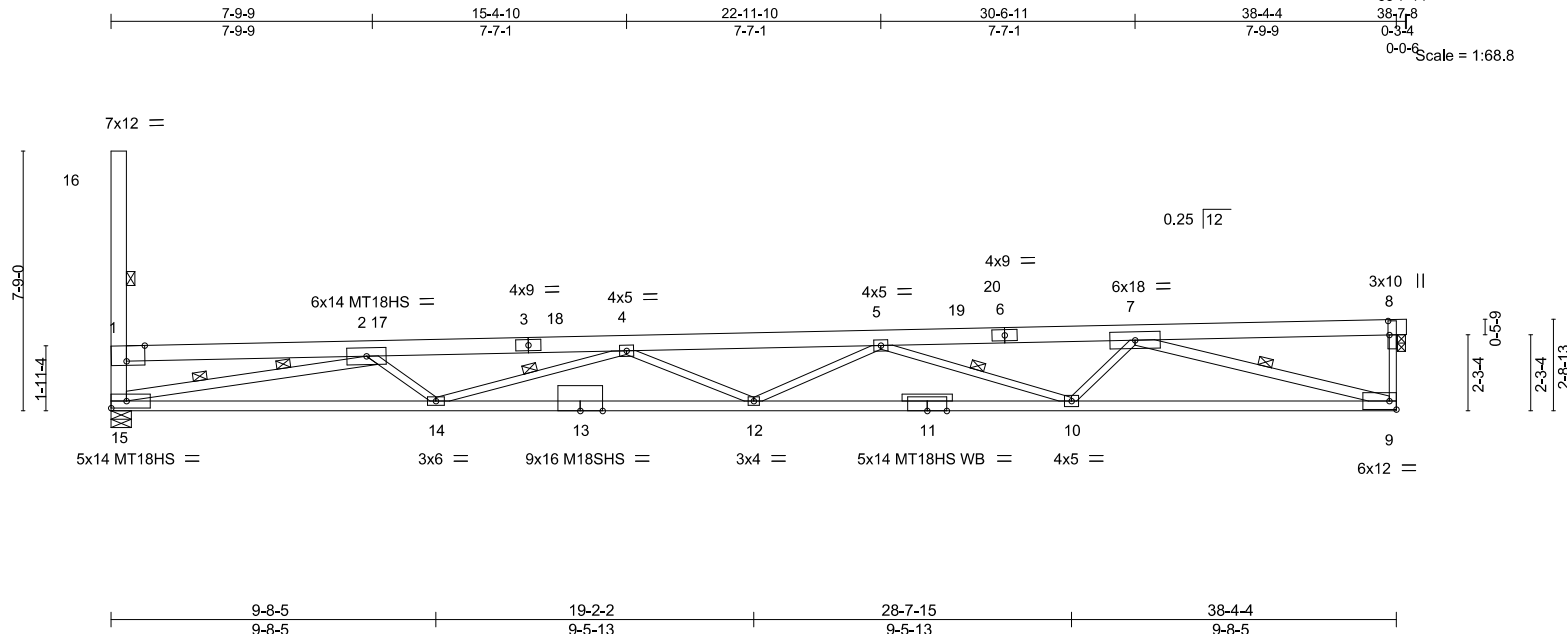
8.410 s May 22 2020 MiTek Industries, Inc. Tue Jul 21 13:44:30 2020 Page 2
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- NOTES-**
- 6) Provide adequate drainage to prevent water ponding.
 - 7) All plates are MT20 plates unless otherwise indicated.
 - 8) All plates are 2x4 MT20 unless otherwise 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 any other members.
 - 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	Ply	Streets of West Pryor	142113107
B400088	A5	Monopitch	7	1	Job Reference (optional)	

Wheeler Lumber, Waverly, KS - 66871,

8.410 s May 22 2020 MiTek Industries, Inc. Tue Jul 21 13:44:33 2020 Page 1
ID:yyQ78agb1ZluwnWc1etTPnz53bT-oVb1VhXBOnjaNOW7SKBE4oCh?eKaXwcouzotDryvqBi
38-7-14
38-7-8
0-3-4
0-0-6
Scale = 1:68.8



LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.91	Vert(LL)	-0.84 12-14 >541	MT20	197/144		
Snow (Pf/Pg)	15.4/20.0	Lumber DOL	1.15	BC	0.96	Vert(CT)	-1.87 12-14 >244	M18SHS	197/144		
TCDL	15.0	Rep Stress Incr	NO	WB	0.95	Horz(CT)	0.03 8 n/a n/a	MT18HS	197/144		
BCLL	0.0 *	Code IBC2018/TPI2014		Matrix-S		Wind(LL)	0.79 12-14 >580	Weight: 166 lb	FT = 10%		
BCDL	10.0										

LUMBER-		BRACING-	
TOP CHORD	2x6 SPF 1650F 1.4E	TOP CHORD	Structural wood sheathing directly applied or 2-5-7 oc purlins, except end verticals. Except:
BOT CHORD	2x4 SPF 2400F 2.0E		6-0-0 oc bracing: 1-15
WEBS	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 4-7-0 oc bracing.
OTHERS	2x3 SPF No.2	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=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-**
- 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
 - 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.
 - Provide adequate drainage to prevent water ponding.
 - All plates are MT20 plates unless otherwise indicated.
 - 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.
 - Provide mechanical connection (by others) of truss to bearing plate at joint(s) 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.
 - Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 8.
 - 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, 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.
 - 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 **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
B400088	A5	Monopitch	7	1	I42113107
Job Reference (optional)					

Wheeler Lumber, Waverly, KS - 66871,

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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	Ply	Streets of West Pryor	142113108
B400088	A5A	Monopitch	2	1	Job Reference (optional)	

Wheeler Lumber, Waverly, KS - 66871,

8.410 s May 22 2020 MiTek Industries, Inc. Tue Jul 21 13:44:34 2020 Page 1
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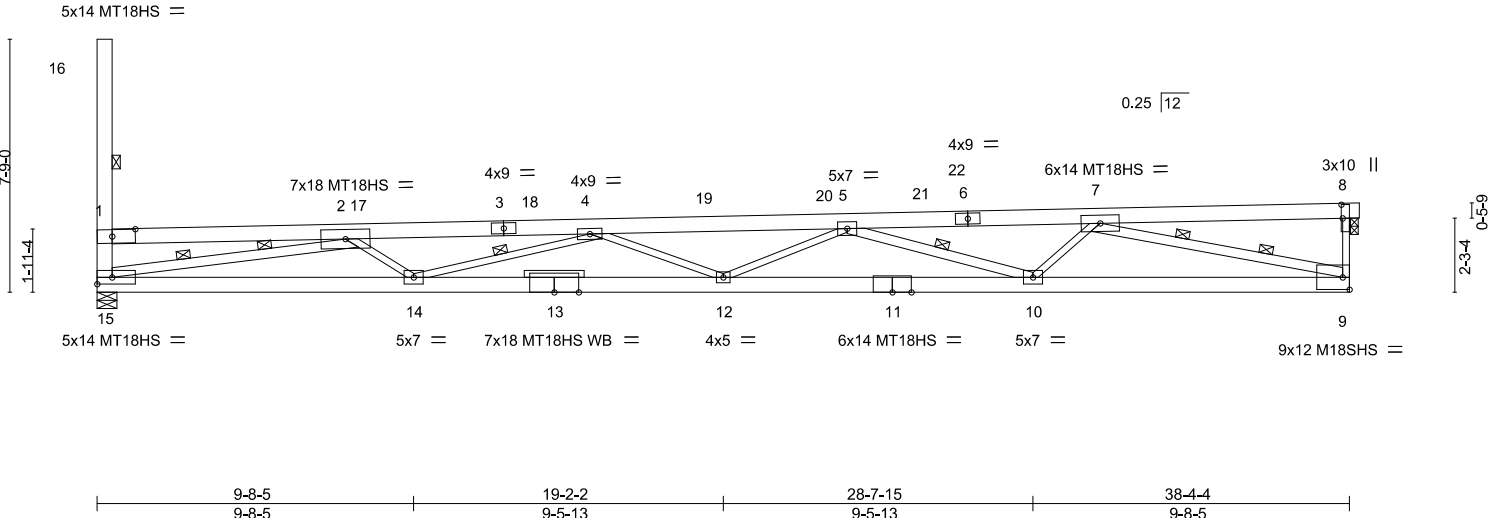
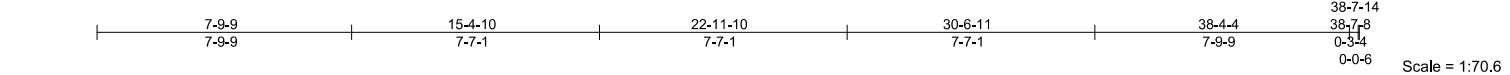


Plate Offsets (X,Y)-- [1:0-8-9,0-2-8], [8:0-5-0,0-0-8]							
LOADING (psf)		SPACING-		CSI.		DEFL.	
TCLL (roof)	20.0	2-0-0		TC	0.93	in (loc)	l/defl
Snow (Pf/Pg)	15.4/20.0	Plate Grip DOL	1.15	BC	0.83	Vert(LL)	-0.68 12-14 >667 360
TCDL	15.0	Lumber DOL	1.15	WB	0.93	Vert(CT)	-1.66 12-14 >275 240
BCLL	0.0 *	Rep Stress Incr	NO	Matrix-S		Horz(CT)	-0.01 8 n/a n/a
BCDL	10.0	Code IBC2018/TPI2014				Wind(LL)	0.63 12-14 >720 240
						PLATES	GRIP
						MT20	197/144
						M18SHS	197/144
						MT18HS	197/144
						Weight: 228 lb	FT = 10%

LUMBER-		BRACING-	
TOP CHORD	2x6 SP DSS *Except* 1-3: 2x6 SPF 1650F 1.4E	TOP CHORD	Structural wood sheathing directly applied or 2-0-8 oc purlins, except end verticals. Except: 6-0-0 oc bracing: 1-15 7-5-0 oc bracing: 1-16
BOT CHORD	2x6 SP DSS	BOT CHORD	Rigid ceiling directly applied or 5-8-3 oc bracing.
WEBS	2x3 SPF No.2 *Except* 15-16: 2x6 SPF No.2, 2-15,7-9: 2x4 SPF 2100F 1.8E 5-10: 2x4 SPF No.2	WEBS	1 Row at midpt 1-16, 4-14, 5-10 2 Rows at 1/3 pts 2-15, 7-9
OTHERS	2x3 SPF No.2		

REACTIONS. (size) 15=0-7-4, 8=0-2-14
Max Horz 15=393(LC 11)
Max Uplift 15=-48(LC 10), 8=-35(LC 11)
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
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-

- 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 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 the intended use of this truss.

On the bottom side of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.



July 21,2020

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Job	Truss	Truss Type	Qty	Ply	Streets of West Pryor
B400088	A5A	Monopitch	2	1	I42113108
Job Reference (optional)					

Wheeler Lumber, Waverly, KS - 66871,

8.410 s May 22 2020 MiTek Industries, Inc. Tue Jul 21 13:44:34 2020 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: 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	Ply	Streets of West Pryor	I42113109
B400088	A5B	Monopitch	6	1	Job Reference (optional)	

Wheeler Lumber, Waverly, KS 66871, Mitek

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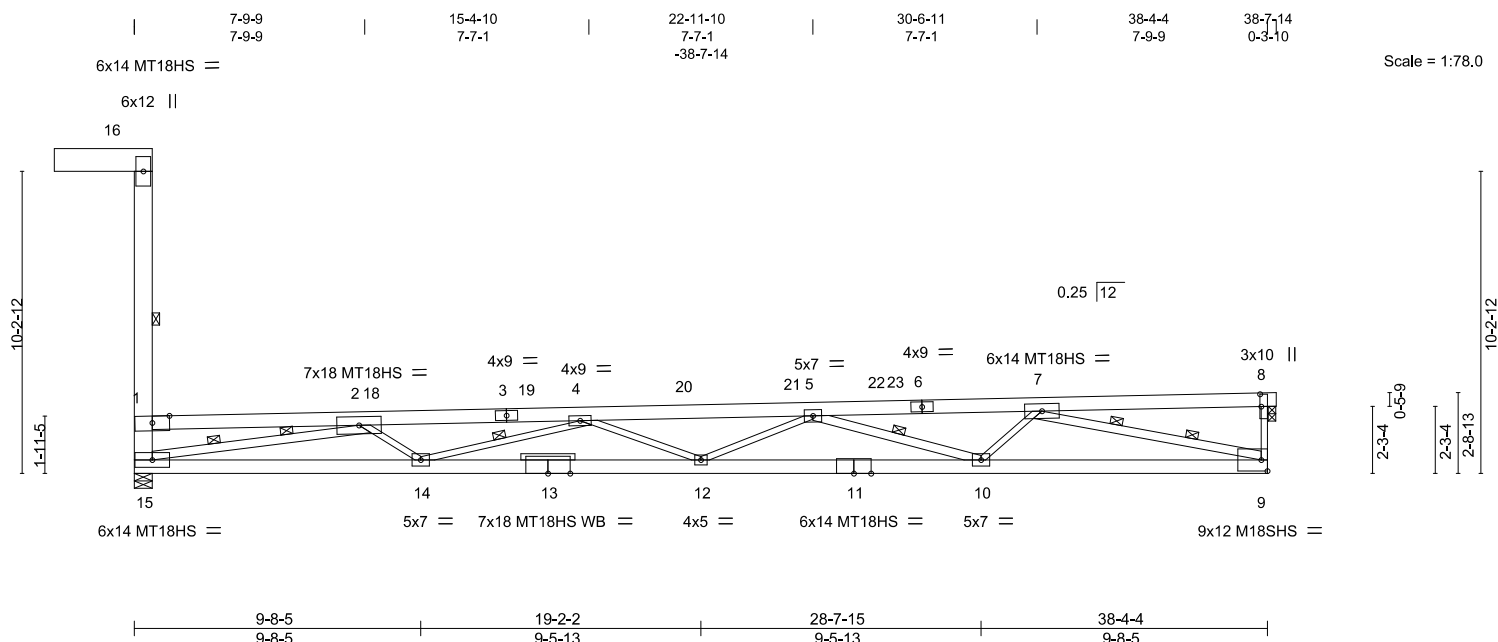


Plate Offsets (X,Y)-- [8:0-5-0,0-0-8]											
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) I/defl L/d				PLATES GRIP	
TCLL (roof) 20.0		Plate Grip DOL 1.15		TC 0.97		Vert(LL) -0.72 12-14 >636 360				MT20 197/144	
Snow (Pf/Pg) 15.4/20.0		Lumber DOL 1.15		BC 0.84		Vert(CT) -1.69 12-14 >269 240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

LUMBER-

TOP CHORD 2x6 SPF No.2 *Except*
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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 1-11-10 oc purlins, except end verticals. Except:
6-0-0 oc bracing: 1-15
10-0-0 oc bracing: 1-16
BOT CHORD Rigid ceiling directly applied or 5-1-14 oc bracing.
WEBS 1 Row at midpt 1-16, 4-14, 5-10
2 Rows at 1/3 pts 2-15, 7-9

REACTIONS.

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

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

TOP CHORD 1-15=-620/163, 1-2=-1903/1730, 2-18=-8148/2516, 3-18=-8148/2517, 3-19=-8141/2517, 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
WEBS 2-15=-6783/1585, 2-14=-19/1299, 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.
- 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) 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

Continued on page 2 of this truss.



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.

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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	I42113109
B400088	A5B	Monopitch	6	1	Job Reference (optional)	

Wheeler Lumber, Waverly, KS 66871, Mitek

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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

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Streets of West Pryor	I42113110
B400088	A5C	Monopitch	3	1	Job Reference (optional)	

Wheeler Lumber, Waverly, KS 66871, Mitek

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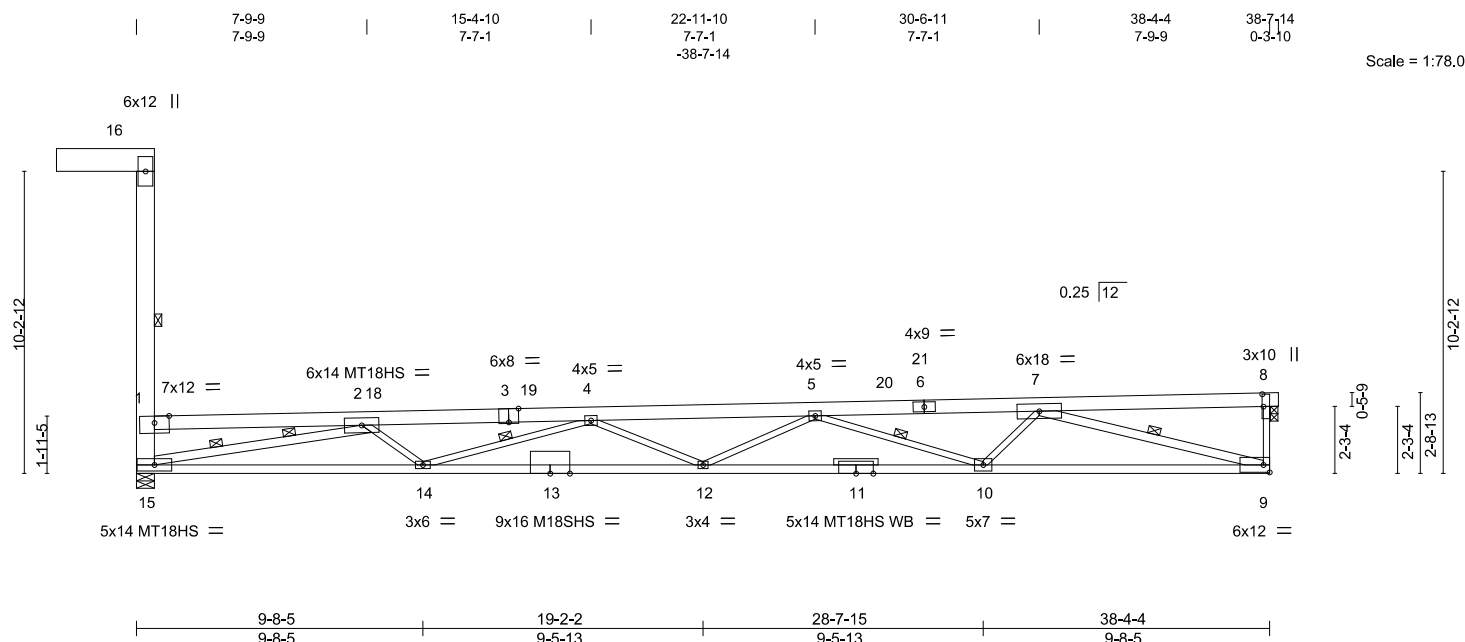


Plate Offsets (X,Y)-- [3:0-4-0,Edge], [8:0-5-0,0-0-8]									
LOADING (psf)		SPACING-	2-0-0	CSL		DEFL.	in (loc)	I/defl	L/d
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.91	Vert(LL)	-0.88 12-14	>520	360
Snow (Pf/Pg)	15.4/20.0	Lumber DOL	1.15	BC	0.98	Vert(CT)	-1.89 12-14	>241	240
TCDL	15.0	Rep Stress Incr	NO	WB	0.96	Horz(CT)	0.03 8	n/a	n/a
BCLL	0.0 *	Code IBC2018/TPI2014		Matrix-S		Wind(LL)	0.82 12-14	>554	240
BCDL	10.0								
								PLATES	GRIP
								MT20	197/144
								M18SHS	197/144
								MT18HS	197/144
								Weight: 196 lb	FT = 10%

LUMBER-		BRACING-	
TOP CHORD	2x6 SPF 1650F 1.4E *Except* 6-8: 2x6 SPF No.2, 16-17: 2x10 SP DSS	TOP CHORD	Structural wood sheathing directly applied or 2-4-14 oc purlins, except end verticals. Except: 6-0-0 oc bracing: 1-15 10-0-0 oc bracing: 1-16
BOT CHORD	2x4 SPF 2400F 2.0E	BOT CHORD	Rigid ceiling directly applied or 4-3-15 oc bracing.
WEBS	2x3 SPF No.2 *Except* 15-16: 2x8 SP 2400F 2.0E, 2-15,7-9: 2x4 SPF 2100F 1.8E	WEBS	1 Row at midpt 1-16, 4-14, 5-10, 7-9 2 Rows at 1/3 pts 2-15
OTHERS	2x3 SPF No.2		

REACTIONS. (lb/size) 15=1964/0-7-4, 8=1564/0-3-0
Max Horz 15=525(LC 11)
Max Uplift 15=195(LC 10), 8=198(LC 11)
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
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
WEBS 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 joint 8.
 - 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.

Continued on page 2

LOAD CASE(S) - Standard

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

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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component



July 21, 2020



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Streets of West Pryor	I42113110
B400088	A5C	Monopitch	3	1	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 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: 8-18=-61, 9-15=-20
 - Trapezoidal Loads (plf)
 - Vert: 1=-181-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
 - 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

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

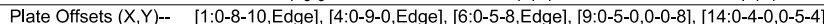
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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Wheeler Lumber, Waverly, KS 66871, Mitek

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LUMBER-
TOP CHORD 2x6 SP 2400F 2.0E *Except*
18-19: 2x10 SP DSS
BOT CHORD 2x8 SP 2400F 2.0E
WEBS 2x3 SPF No.2 *Except*
17-18: 2x6 SPF No.2, 2-17,8-10: 2x4 SPF 2100F 1.8E
7-11: 2x4 SPF No.2
OTHERS 2x3 SPF No.2

BRACING- TOP CHORD	Structural wood sheathing directly applied or 5-8-8 oc purlins, except end verticals. Except: 6-0-0 oc bracing: 1-17 10-0-0 oc bracing: 1-18
BOT CHORD	Rigid ceiling directly applied or 7-8-0 oc bracing.
WEBS	1 Row at midpt 1-18

REACTIONS. (lb/size) 17=3736/0-7-4, 9=3239/0-3-0
 Max Horz 17=519(LC 7)
 Max Uplift 17=-7123(LC 6), 9=-5399(LC 7)
 Max Grav 17=8304(LC 30), 9=6594(LC 29)

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

TOP CHORD	1-17=-820/492, 1-2=-4019/3645, 2-3=-31735/26986, 3-20=-31734/26987, 3-21=-14373/34955, 4-21=-14373/34955, 4-5=-14371/34956, 5-6=-35087/29217, 6-7=-35084/29217, 7-8=-20630/16971, 9-10=-5260/6412
BOT CHORD	17-22=-22756/26759, 22-23=-22756/26759, 23-24=-22756/26759, 24-25=-22756/26759, 16-25=-22756/26759, 16-26=-32372/38344, 26-27=-32372/38344, 27-28=-32372/38344, 15-28=-32372/38344, 14-15=-32372/38344, 14-29=-32071/38294, 29-30=-32071/38294, 30-31=-32071/38294, 13-31=-32071/38294, 13-32=-25055/30204, 12-32=-25055/30204, 12-33=-25055/30204, 33-34=-25055/30204, 34-35=-25055/30204, 11-35=-25055/30204, 11-36=-14092/17119, 36-37=-14092/17119, 37-38=-14092/17119, 38-39=-14092/17119, 10-39=-14092/17119
WEBS	2-17=-24001/20468, 2-16=-6610/7679, 7-16=-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; TC DL=6.0psf; BC DL=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) TC LL: 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.



July 21, 2020

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Streets of West Pryor	I42113111
B400088	A6	MONOPITCH GIRDER	1	3	Job Reference (optional)	

Wheeler Lumber, Waverly, KS 66871, Mitek

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NOTES-

- 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 7123 lb uplift at joint 17 and 5399 lb uplift at joint 9.
- 11) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 9.
- 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, 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.
- 14) Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.
- 15) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 859 lb down and 824 lb up at 1-3-4, 859 lb down and 823 lb up at 3-3-4, 858 lb down and 823 lb up at 5-3-4, 858 lb down and 823 lb up at 7-3-4, 858 lb down and 822 lb up at 9-3-4, 857 lb down and 822 lb up at 11-3-4, 857 lb down and 822 lb up at 13-3-4, 857 lb down and 821 lb up at 15-3-4, 856 lb down and 821 lb up at 17-3-4, 838 lb down and 801 lb up at 19-3-4, 493 lb down and 455 lb up at 21-3-4, 493 lb down and 455 lb up at 23-3-4, 493 lb down and 454 lb up at 25-3-4, 492 lb down and 454 lb up at 27-3-4, 492 lb down and 453 lb up at 29-3-4, 492 lb down and 453 lb up at 31-3-4, 491 lb down and 453 lb up at 33-3-4, and 491 lb down and 452 lb up at 35-3-4, and 490 lb down and 452 lb up at 37-3-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

- 1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
 - Uniform Loads (plf)
 - Vert: 9-20=-61, 10-17=-20
 - Concentrated Loads (lb)
 - Vert: 14=-190(B) 22=-190(B) 23=-190(B) 24=-190(B) 25=-190(B) 26=-193(B) 27=-190(B) 28=-190(B) 29=-190(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 Loads (plf)
 - Vert: 1=-181-to-20=-61
- 4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
 - Uniform Loads (plf)
 - Vert: 9-20=-53, 10-17=-20
 - Concentrated Loads (lb)
 - Vert: 14=-158(B) 22=-158(B) 23=-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) 34=-143(B) 35=-143(B) 36=-143(B) 37=-143(B) 38=-143(B) 39=-144(B)
 - Trapezoidal Loads (plf)
 - Vert: 1=-143-to-20=-53
- 14) Dead + Snow on Overhangs: Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
 - Uniform Loads (plf)
 - Vert: 9-20=-30, 10-17=-20
 - Concentrated Loads (lb)
 - Vert: 14=-190(B) 22=-190(B) 23=-190(B) 24=-190(B) 25=-190(B) 26=-193(B) 27=-190(B) 28=-190(B) 29=-190(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 Loads (plf)
 - Vert: 1=-150-to-20=-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: 9-20=-54, 10-17=-20
 - 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) 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
- 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: 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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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Streets of West Pryor	I42113111
B400088	A6	MONOPITCH GIRDER	1	3	Job Reference (optional)	

Wheeler Lumber, Waverly, KS 66871, Mitek

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LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 9-20=-70, 10-17=-20

Concentrated Loads (lb)

Vert: 14=-190(B) 22=-190(B) 23=-190(B) 24=-190(B) 25=-190(B) 26=-193(B) 27=-190(B) 28=-190(B) 29=-190(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 Loads (plf)

Vert: 1=-190-to-20=-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: 9-20=-54, 10-17=-20

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

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

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

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

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

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

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

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

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Streets of West Pryor	I42113112
B400088	A7	Monopitch Girder	1	2	Job Reference (optional)	

Wheeler Lumber, Waverly, KS 66871, Mitek

ID:yyQ78agb1ZluwnWc1etTPnz53bT-GW5yhU3uPSma0mrFfEQ?vuYllswFsQz8ZWxnPFyvoy9

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-0-3-6	7-4-13	14-7-2	21-9-6	28-11-11	36-4-8
0-5-6	7-4-13	7-2-5	7-2-5	7-2-5	7-4-13

5x12 || Scale = 1:71.6

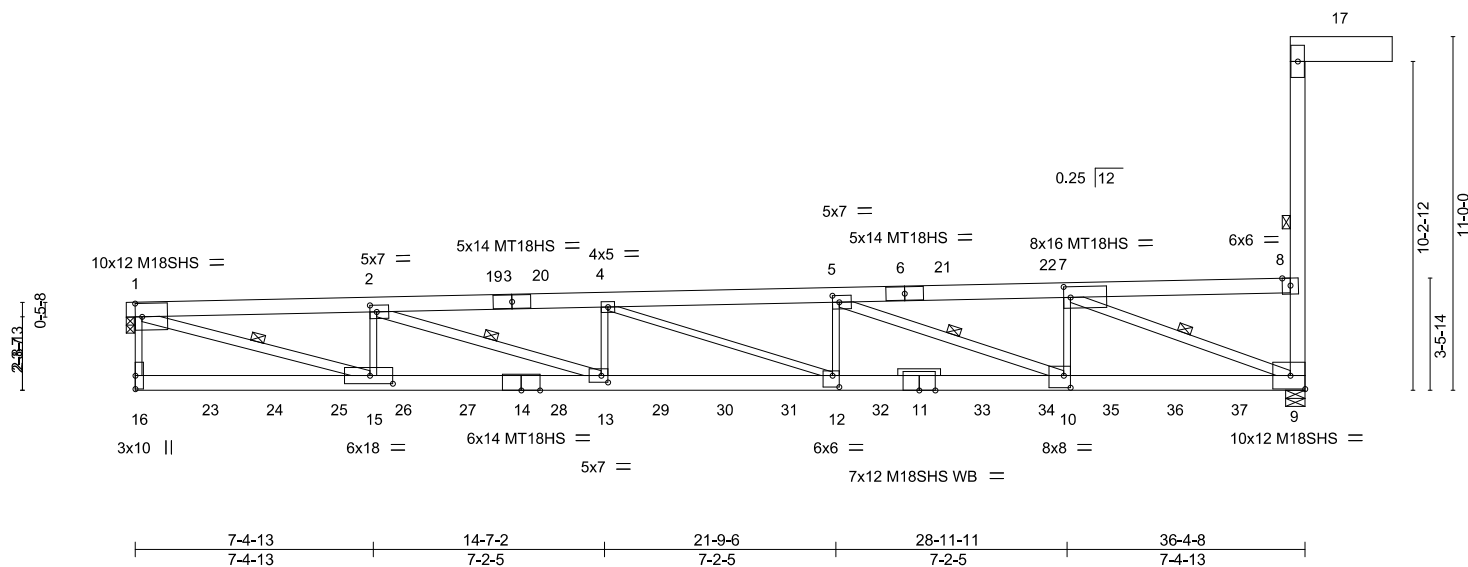


Plate Offsets (X,Y)--	[1:0-2-8,0-5-0], [2:0-2-8,0-2-8], [5:0-2-8,0-2-8], [7:0-2-8,0-4-0], [10:0-2-8,0-4-4], [13:0-2-8,0-2-8], [15:0-8-8,0-3-0]
-----------------------	--

LOADING (psf)	SPACING-	CSL	DEFL.	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.74	in (loc) l/defl L/d	MT20	197/144
Snow (Pf/Pg) 15.4/20.0	Plate Grip DOL 1.15	BC 0.80	Vert(LL) 1.38 12-13 >312 240	M18SHS	197/144
TCDL 15.0	Lumber DOL 1.15	WB 0.95	Vert(CT) -1.53 12-13 >283 180	MT18HS	197/144
BCLL 0.0 *	Rep Stress Incr NO	Matrix-S	Horz(CT) 0.01 1 n/a n/a		
BCDL 10.0	Code IBC2018/TPI2014			Weight: 458 lb	FT = 10%

LUMBER-	BRACING-
TOP CHORD 2x6 SPF 1650F 1.4E *Except* 17-18: 2x10 SP DSS	TOP CHORD Structural wood sheathing directly applied or 3-6-12 oc purlins, except end verticals. Except: 6-0-0 oc bracing: 8-9 10-0-0 oc bracing: 8-17
BOT CHORD 2x6 SP DSS	BOT CHORD Rigid ceiling directly applied or 4-1-7 oc bracing.
WEBS 2x3 SPF No.2 *Except* 9-17: 2x6 SPF No.2, 1-15,7-9: 2x4 SPF 2100F 1.8E 2-13,5-10: 2x4 SPF No.2	WEBS 1 Row at midpt 8-17, 1-15, 2-13, 5-10, 7-9
OTHERS 2x3 SPF No.2	

REACTIONS. (lb/size) 1=4078/0-3-0 (req. 0-4-14), 9=4029/0-7-4
Max Horz 9=470(LC 7)
Max Uplift 1=-4420(LC 6), 9=-5764(LC 7)
Max Grav 1=6252(LC 40), 9=7225(LC 39)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-16=-907/1089, 1-2=-15260/10298, 2-19=-22227/15622, 3-19=-22224/15622,
3-20=-22223/15622, 4-20=-22222/15622, 4-5=-22442/17498, 5-6=-15406/12435,
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-**
- 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.
 - 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.
 - Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; 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
 - 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.
 - Provide adequate drainage to prevent water ponding.
 - All plates are MT20 plates unless otherwise indicated.

Continued on page 2. This design is for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.



July 21, 2020

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Streets of West Pryor	I42113112
B400088	A7	Monopitch Girder	1	2	Job Reference (optional)	

Wheeler Lumber, Waverly, KS 66871, Mitek

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NOTES-

- 9) * 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.
- 10) WARNING: Required bearing size at joint(s) 1 greater than input bearing size.
- 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 4420 lb uplift at joint 1 and 5764 lb uplift at joint 9.
- 13) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 1.
- 14) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- 15) Load case(s) 1, 4, 16, 17, 18, 19, 24, 39, 40, 41, 42 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- 16) Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.
- 17) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 495 lb down and 444 lb up at 0-1-4, 490 lb down and 451 lb up at 2-3-12, 489 lb down and 451 lb up at 4-3-12, 489 lb down and 450 lb up at 6-3-12, 462 lb down and 223 lb up at 8-3-12, 462 lb down and 223 lb up at 10-3-12, 462 lb down and 223 lb up at 12-3-12, 462 lb down and 223 lb up at 14-3-12, 461 lb down and 223 lb up at 16-3-12, 830 lb down and 793 lb up at 18-3-12, 830 lb down and 793 lb up at 20-3-12, 829 lb down and 792 lb up at 22-3-12, 814 lb down and 776 lb up at 24-3-12, 814 lb down and 775 lb up at 26-3-12, 813 lb down and 775 lb up at 28-3-12, 813 lb down and 774 lb up at 30-3-12, and 812 lb down and 774 lb up at 32-3-12, and 812 lb down and 773 lb up at 34-3-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

- 1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
 - Uniform Loads (plf)
 - Vert: 1-22=-61, 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) 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=-61-to-8=-181
- 4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
 - Uniform Loads (plf)
 - Vert: 1-22=-53, 9-16=-20
 - Concentrated Loads (lb)
 - Vert: 16=-151(F) 13=-384(F) 11=-169(F) 23=-143(F) 24=-143(F) 25=-143(F) 26=-384(F) 27=-384(F) 28=-384(F) 29=-384(F) 30=-164(F) 31=-164(F) 32=-164(F) 33=-169(F) 34=-169(F) 35=-169(F) 36=-169(F) 37=-169(F)
 - Trapezoidal Loads (plf)
 - Vert: 22=-53-to-8=-143
- 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: 1-22=-54, 9-16=-20
 - Horz: 1-16=21, 1-8=1, 8-9=6, 8-17=38
 - 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
- 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: 1-22=-54, 9-16=-20
 - Horz: 1-16=-6, 1-8=1, 8-9=-21, 8-17=-38
 - 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
- 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 (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
- 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) 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

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Job	Truss	Truss Type	Qty	Ply	Streets of West Pryor	I42113112
B400088	A7	Monopitch Girder	1	2	Job Reference (optional)	

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LOAD CASE(S) Standard

39) 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: 1-22=-54, 9-16=-20

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

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

 **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 **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	I42113113
B400088	A8	Monopitch	16	1	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 1
ID:yyQ78agb1ZluwnWc1etTPnz53bT-rCxFdGEg6lXbhwvyTAgHUr78EVjs8lJCniwWuRyvoxx

0-3-6	7-4-13	14-7-2	21-9-6	28-11-11	36-4-8
0-3-6	7-4-13	7-2-5	7-2-5	7-2-5	7-4-13

5x12 || Scale = 1:71.6

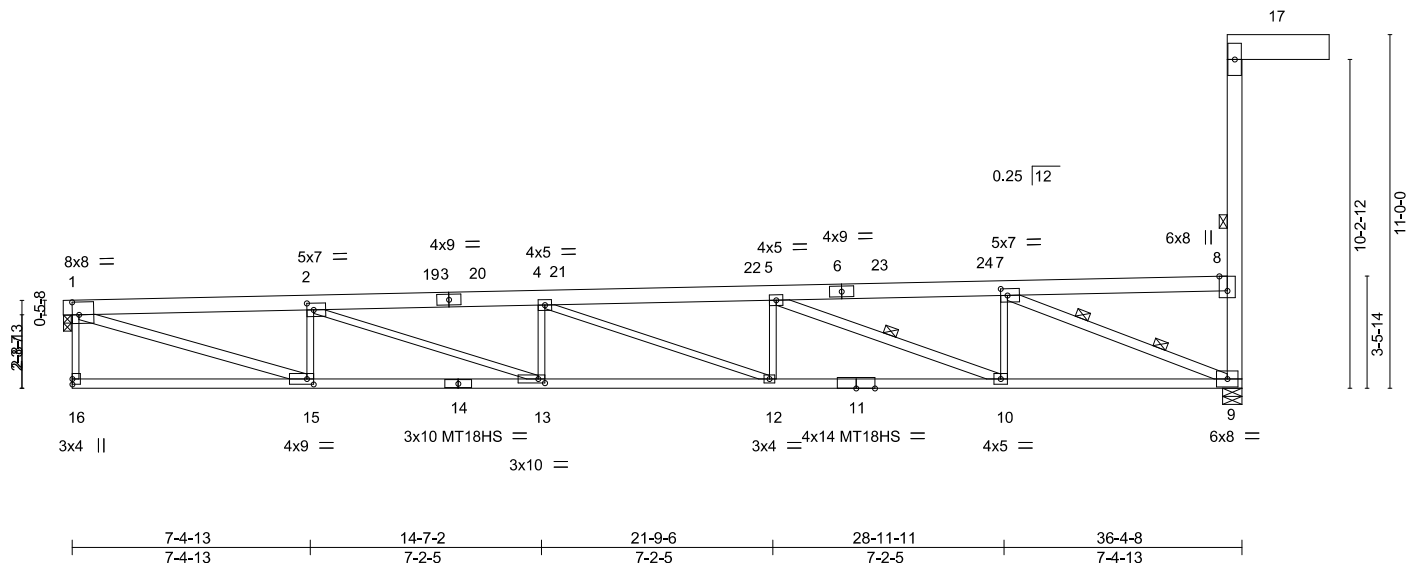


Plate Offsets (X,Y)-- [1:0-2-8,0-4-12], [2:0-2-8,0-2-8], [7:0-2-8,0-2-8], [8:0-5-7,Edge], [13:0-2-8,0-1-8], [15:0-2-8,0-2-0]																			
LOADING (psf)		SPACING-		2-0-0		CSI.		DEFL.		in (loc)		l/defl		L/d		PLATES		GRIP	
TCLL (roof) 20.0		Plate Grip DOL 1.15		TC 0.74		Vert(LL) -0.41 12-13		>999		360						MT20		197/144	
Snow (Pf/Pg) 15.4/20.0		Lumber DOL 1.15		BC 0.71		Vert(CT) -0.91 12-13		>475		240						MT18HS		197/144	
TCDL 15.0		Rep Stress Incr NO		WB 0.96		Horz(CT) -0.03 1		n/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* 17-18: 2x10 SP DSS	TOP CHORD Structural wood sheathing directly applied or 2-7-14 oc purlins, except end verticals. Except: 6-0-0 oc bracing: 8-9 7-7-0 oc bracing: 8-17
BOT CHORD 2x4 SPF 2100F 1.8E	BOT CHORD Rigid ceiling directly applied or 5-3-11 oc bracing.
WEBS 2x3 SPF No.2 *Except* 9-17: 2x6 SPF 1650F 1.4E, 1-15: 2x4 SPF 2100F 1.8E 5-10, 7-9: 2x4 SPF No.2	WEBS 1 Row at midpt 8-17, 5-10 2 Rows at 1/3 pts 7-9
REACTIONS. (lb/size) 1=1490/0-2-14, 9=1889/0-7-4 Max Horz 9=473(LC 11) Max Uplift 1=195(LC 10), 9=197(LC 11) 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
WEBS 1-15=-1529/4138, 2-15=-1125/571, 2-13=-675/1629, 4-13=-402/309, 4-12=-382/187, 5-12=0/366, 5-10=-1951/727, 7-10=-174/856, 7-9=-3760/1152

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; 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
 - 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.
 - Provide adequate drainage to prevent water ponding.
 - All plates are MT20 plates unless otherwise indicated.
 - 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.
 - All bearings are assumed to be DF No.2 crushing capacity of 625 psi.
 - Provide mechanical connection (by others) of truss to bearing plate at joint(s) 1.
 - 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.
 - Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 1.
 - 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, 20, 21, 22, 23, 28 has/have been modified. Building designer must review loads to verify that they are correct for this design and use of this truss.



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.

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Streets of West Pryor	I42113113
B400088	A8	Monopitch	16	1	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:yyQ78agb1ZluwnWc1eTPnz53bT-rCxFdGEg6lXbhwvyTAghUr78EVjs8lJCniwWuRyvoxx

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

 **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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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Streets of West Pryor	142113114
B400088	A8A	Monopitch	2	1		

Wheeler Lumber, Waverly, KS - 66871,

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ID:yyQ78agb1ZluwnWc1etTPnz53bT-KaY4s9jDdhkIrtBNhT_jAsVV5tRH8q8ZSginvyvqBS

-0-3-6	7-4-13	14-7-2	21-9-6	28-11-11	36-4-8
0-3-6	7-4-13	7-2-5	7-2-5	7-2-5	7-4-13

Scale = 1:62.6

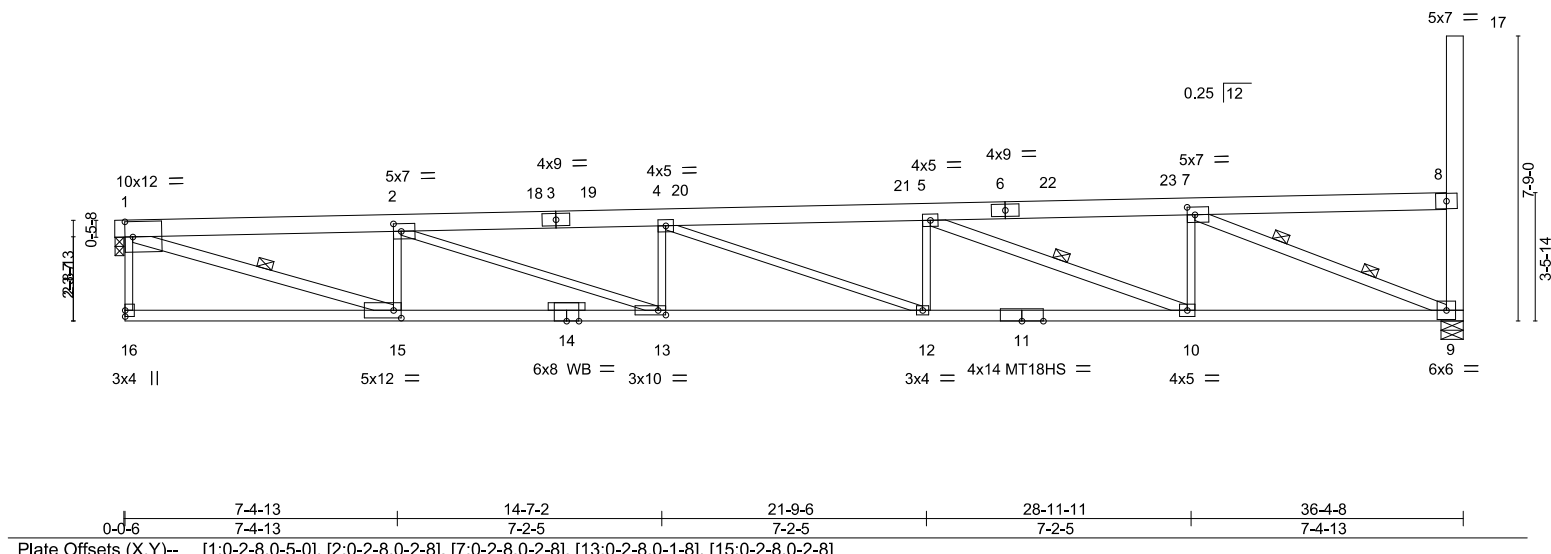


Plate Offsets (X,Y)--		[1:0-2-8,0-5-0], [2:0-2-8,0-2-8], [7:0-2-8,0-2-8], [13:0-2-8,0-1-8], [15:0-2-8,0-2-8]
LOADING (psf)		
TCLL (roof)	20.0	
Snow (Pf/Pg)	15.4/20.0	
TCDL	15.0	
BCLL	0.0 *	
BCDL	10.0	
SPACING-	2-0-0	
Plate Grip DOL	1.15	
Lumber DOL	1.15	
Rep Stress Incr	NO	
Code	IBC2018/TPI2014	
CSI.		
TC	0.62	
BC	0.70	
WB	1.00	
Matrix-S		
DEFL.		
in (loc)		
l/defl		
L/d		
Vert(LL)	-0.40 12-13	>999 360
Vert(CT)	-0.91 12-13	>475 240
Horz(CT)	-0.04 1	n/a n/a
Wind(LL)	0.38 12-13	>999 240
PLATES		
MT20	197/144	
MT18HS	197/144	
GRIP		
Weight: 167 lb	FT = 10%	

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
 OTHERS 2x3 SPF No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 2-8-11 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 5-7-11 oc bracing.
 WEBS 1 Row at midpt 1-15, 5-10
 2 Rows at 1/3 pts 7-9

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

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCCL=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
- TCCL: 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.
- Provide adequate drainage to prevent water ponding.
- All plates are MT20 plates unless otherwise indicated.
- 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.
- Provide mechanical connection (by others) of truss to bearing plate at joint(s) 1.
- 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.
- Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 1.
- 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, 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.
- 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.

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July 21,2020



16023 Swingley Ridge Rd
 Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Streets of West Pryor
B400088	A8A	Monopitch	2	1	I42113114
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-KaY4s9jDdhklrtBNhT_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	Ply	Streets of West Pryor	I42113115
B400088	A8B	Monopitch	4	1	Job Reference (optional)	

Wheeler Lumber, Waverly, KS 66871, Mitek

8.410 s May 22 2020 MiTek Industries, Inc. Tue Jul 21 15:09:51 2020 Page 1
ID:yyQ78agb1ZluwnWc1etTPnz53bT-zID9MJQq2iAlwPSkPPKvBAMpl8UhdB7mDairByvoxk

-0-3-6	7-4-13	14-7-2	21-9-6	28-11-11	36-4-8
0-3-6	7-4-13	7-2-5	7-2-5	7-2-5	7-4-13

5x12 || Scale = 1:71.6

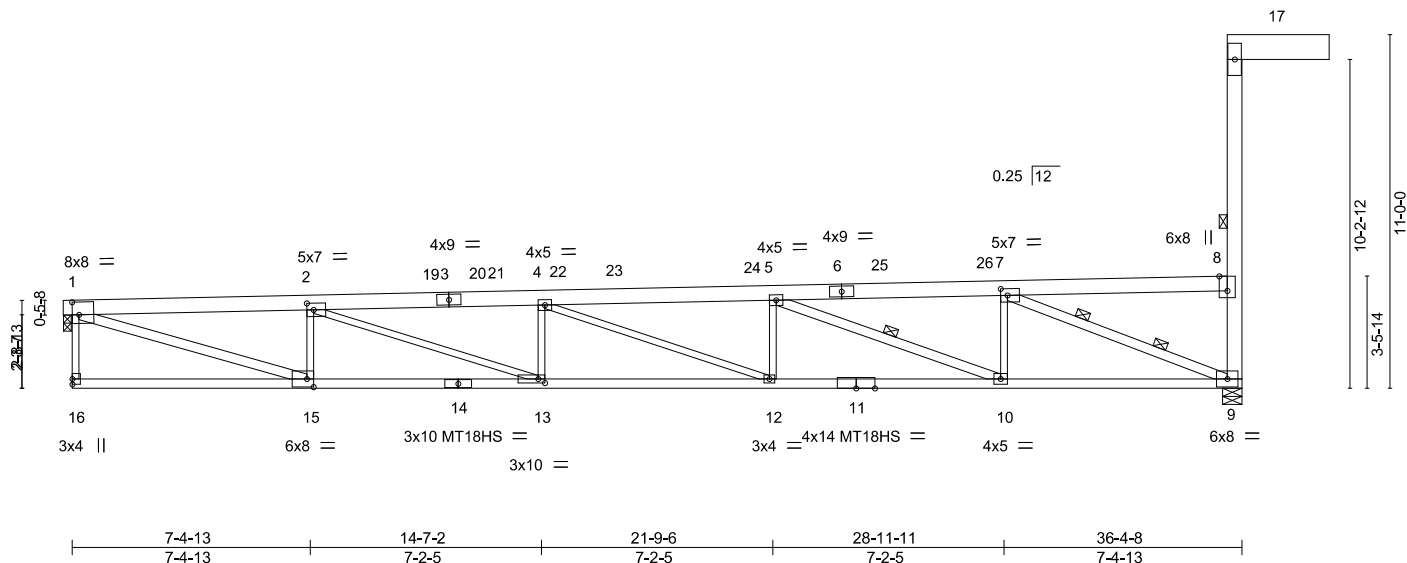


Plate Offsets (X,Y)--	[1:0-2-8,0-4-12], [2:0-2-8,0-2-8], [7:0-2-8,0-2-8], [8:0-5-7,Edge], [13:0-2-8,0-1-8], [15:0-2-8,0-3-0]
-----------------------	--

LOADING (psf)	SPACING-	CSL	DEFL.	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.82	in (loc) l/defl L/d	MT20	197/144
Snow (Pf/Pg) 15.4/20.0	Plate Grip DOL 1.15	BC 0.80	Vert(LL) -0.41 12-13 >999 360	MT18HS	197/144
TCDL 15.0	Lumber DOL 1.15	WB 0.92	Vert(CT) -1.02 12-13 >425 240		
BCLL 0.0 *	Rep Stress Incr NO	Matrix-S	Horz(CT) -0.04 1 n/a n/a		
BCDL 10.0	Code IBC2018/TPI2014		Wind(LL) 0.39 12-13 >999 240	Weight: 183 lb	FT = 10%

LUMBER-	BRACING-
TOP CHORD 2x6 SPF No.2 *Except* 17-18: 2x10 SP DSS	TOP CHORD Structural wood sheathing directly applied or 2-2-14 oc purlins, except end verticals. Except: 6-0-0 oc bracing: 8-9 7-7-0 oc bracing: 8-17
BOT CHORD 2x4 SPF 2100F 1.8E	BOT CHORD Rigid ceiling directly applied or 6-1-7 oc bracing.
WEBS 2x3 SPF No.2 *Except* 9-17: 2x6 SPF 1650F 1.4E, 1-15: 2x4 SPF 2100F 1.8E 5-10, 7-9: 2x4 SPF No.2	WEBS 1 Row at midpt 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
WEBS	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-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; 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
 - 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.
 - 250.0lb AC unit load placed on the top chord, 15-0-4 from left end, supported at two points, 3-8-0 apart.
 - Provide adequate drainage to prevent water ponding.
 - All plates are MT20 plates unless otherwise indicated.
 - 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.
 - All bearings are assumed to be DF No.2 crushing capacity of 625 psi.
 - Provide mechanical connection (by others) of truss to bearing plate at joint(s) 1.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 48 lb uplift at joint 1 and 93 lb uplift at joint 9.
 - Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 1.



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Continued on page 2. This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

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 **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	I42113115
B400088	A8B	Monopitch	4	1	Job Reference (optional)	

Wheeler Lumber, Waverly, KS 66871, Mitek

8.410 s May 22 2020 MiTek Industries, Inc. Tue Jul 21 15:09:51 2020 Page 2
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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

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Streets of West Pryor
B400088	A9	Monopitch Supported Gable	1	2	142113116

Wheeler Lumber,
Waverly, KS - 66871,

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MiTek Industries, Inc.
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Page 1
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36-4-8
36-4-8

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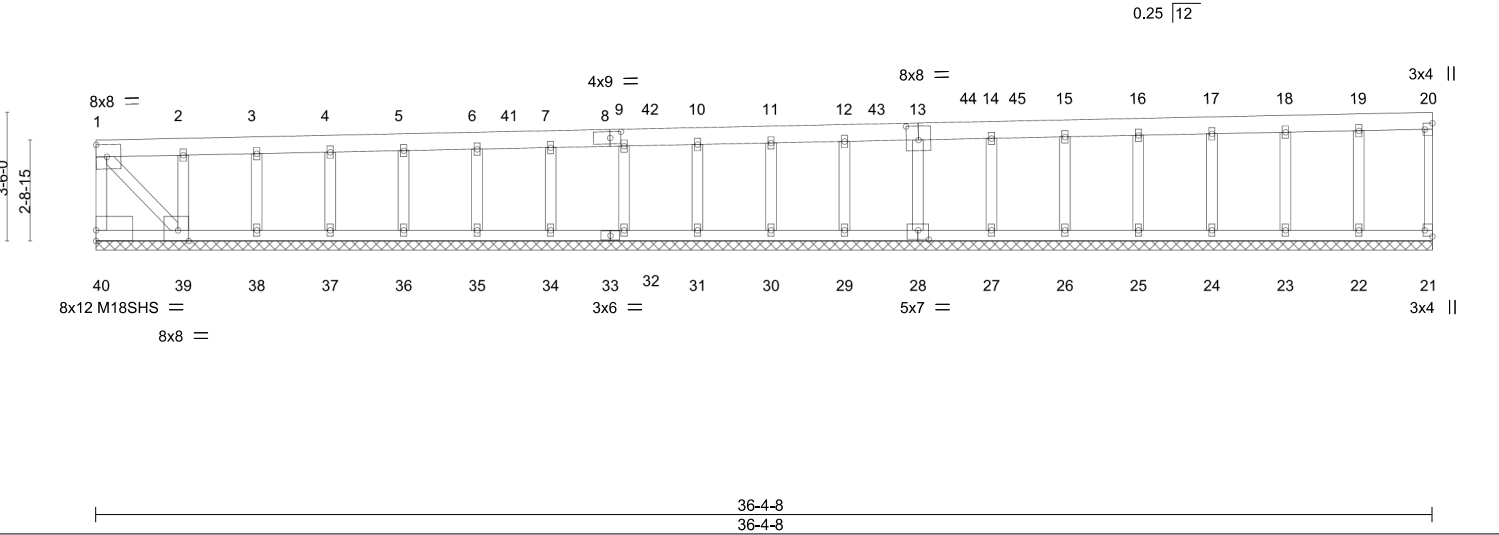


Plate Offsets (X,Y)-- [8:0-3-9,0-2-0], [13:0-4-0,0-4-8], [20:Edge,0-2-8], [21:Edge,0-2-8], [28:0-3-8,0-3-0], [39:0-3-8,Edge], [40:0-0-0,0-3-8]												
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d				PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.89	Vert(LL)	n/a	-	n/a	999	MT20	197/144
Snow (Pf/Pg)	15.4/20.0	Lumber DOL	1.15	BC	0.66	Vert(CT)	n/a	-	n/a	999	M18SHS	197/144
TCDL	15.0	Rep Stress Incr	YES	WB	0.48	Horz(CT)	-0.09	21	n/a	n/a		
BCLL	0.0 *	Code IBC2018/TPI2014		Matrix-S							Weight: 321 lb	FT = 10%
BCDL	10.0											

LUMBER-		BRACING-	
TOP CHORD	2x6 SPF No.2	TOP CHORD	Structural wood sheathing directly applied or 5-10-12 oc purlins, except end verticals.
BOT CHORD	2x4 SPF No.2	BOT CHORD	Rigid ceiling directly applied or 4-9-15 oc bracing.
WEBS	2x4 SPF No.2 *Except*		
	20-21: 2x3 SPF No.2, 1-39: 2x4 SPF 2100F 1.8E		
OTHERS	2x4 SPF No.2		

REACTIONS.	All bearings 36-4-8.
(lb) - Max Horz	40=119(LC 39)
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)
Max Grav	All reactions 250 lb or less at joint(s) 21, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 34, 35, 36, 37, 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 DOL=1.15); Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10; Min. flat roof snow load governs.



July 21,2020

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Job	Truss	Truss Type	Qty	Ply	Streets of West Pryor
B400088	A9	Monopitch Supported Gable	1	2	I42113116
					Job Reference (optional)

Wheeler Lumber, Waverly, KS - 66871,

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- NOTES-**
- 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 any other members.
 - 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.

Job	Truss	Truss Type	Qty	Ply	Streets of West Pryor	I42113117
B400088	A10	Monopitch	5	1	Job Reference (optional)	

Wheeler Lumber, Waverly, KS 66871, Mitek

8,410 s May 22 2020 MiTek Industries, Inc. Tue Jul 21 15:10:11 2020 Page 1
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0-3-10 7-4-12 14-7-0 21-9-4 28-11-8 36-4-4
0-3-10 7-4-12 7-2-4 7-2-4 7-2-4 7-4-12

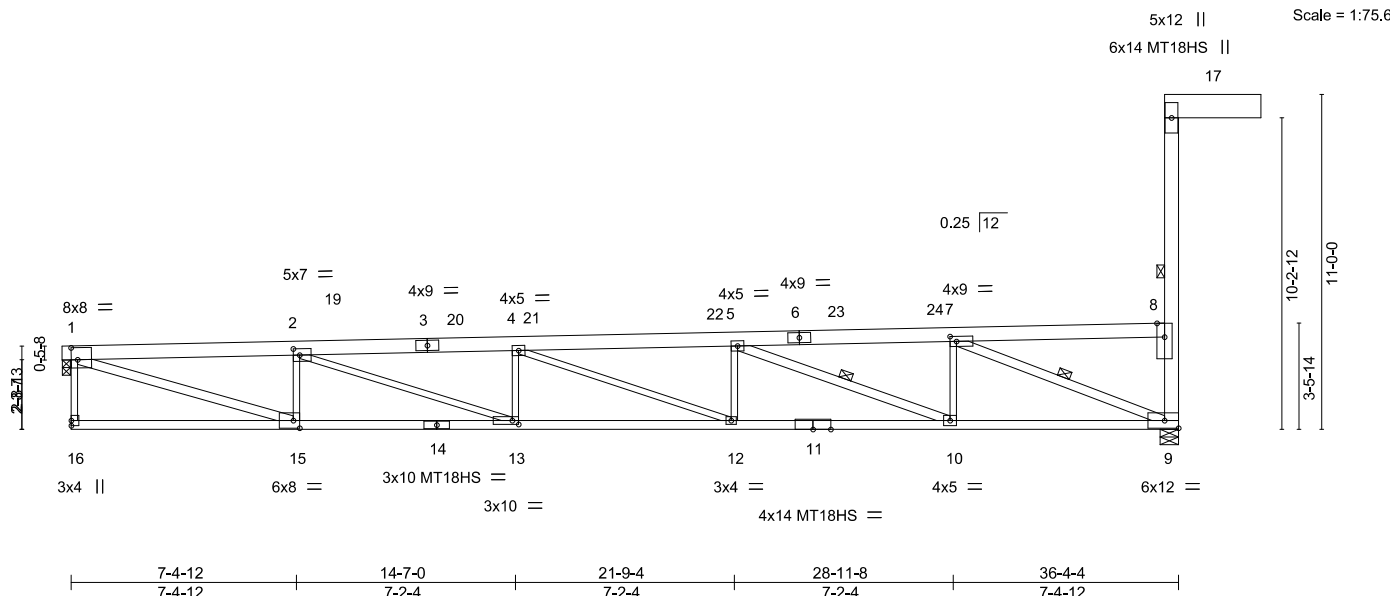


Plate Offsets (X,Y)-- [1:0-2-8,0-4-12], [2:0-2-8,0-2-8], [7:0-2-8,0-2-0], [13:0-2-8,0-1-8], [15:0-2-8,0-3-0]

LOADING (psf)	SPACING-	CSL	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.81	Vert(LL)	-0.53 12-13	>814	360	MT20	197/144
Snow (Pf/Pg) 15.4/20.0	Plate Grip DOL 1.15	BC 0.81	Vert(CT)	-1.00 12-13	>432	240	MT18HS	197/144
TCDL 15.0	Lumber DOL 1.15	WB 0.96	Horz(CT)	-0.06 1	n/a	n/a		
BCLL 0.0 *	Rep Stress Incr NO	Matrix-S	Wind(LL)	0.37 12-13	>999	240		
BCDL 10.0	Code IBC2018/TPI2014						Weight: 196 lb	FT = 10%

LUMBER-

TOP CHORD 2x6 SP 2400F 2.0E *Except*
3-6: 2x6 SPF No.2, 17-18: 2x10 SP DSS
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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 2-2-1 oc purlins, except end verticals. Except:
6-0-0 oc bracing: 8-9
7-7-0 oc bracing: 8-17
BOT CHORD Rigid ceiling directly applied or 5-3-13 oc bracing.
WEBS 1 Row at midpt 8-17, 5-10, 7-9

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,
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
WEBS 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-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; 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
- 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.
- Provide adequate drainage to prevent water ponding.
- All plates are MT20 plates unless otherwise indicated.
- 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.
- All bearings are assumed to be DF No.2 crushing capacity of 625 psi.
- 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.
- Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 1.
- This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- 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.



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Continued on page 2

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Streets of West Pryor	I42113117
B400088	A10	Monopitch	5	1	Job Reference (optional)	

Wheeler Lumber, Waverly, KS 66871, Mitek

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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

Continued on page 3

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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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Streets of West Pryor	I42113117
B400088	A10	Monopitch	5	1	Job Reference (optional)	

Wheeler Lumber, Waverly, KS 66871, 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

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Streets of West Pryor	142113118
B400088	A10A	Monopitch	5	1	Job Reference (optional)	

Wheeler Lumber, Waverly, KS - 66871,

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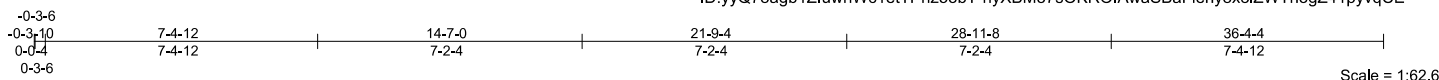


Plate Offsets (X,Y)--	[1:0-2-8,0-5-0], [2:0-2-8,0-2-8], [7:0-2-8,0-2-8], [13:0-2-8,0-1-8], [15:0-2-8,0-2-8]
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LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.61	in (loc) l/defl L/d	MT20 197/144	
Snow (Pf/Pg) 15.4/20.0	Plate Grip DOL 1.15	BC 0.70	Vert(LL) -0.40 12-13 >999 360	MT18HS 197/144	
TCDL 15.0	Lumber DOL 1.15	WB 1.00	Vert(CT) -0.91 12-13 >476 240		
BCLL 0.0 *	Rep Stress Incr NO	Matrix-S	Horz(CT) -0.04 1 n/a n/a		
BCDL 10.0	Code IBC2018/TPI2014		Wind(LL) 0.38 12-13 >999 240		
				Weight: 167 lb	FT = 10%

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
 OTHERS 2x3 SPF No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 2-8-12 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 5-7-11 oc bracing.
 WEBS 1 Row at midpt 1-15, 5-10
 2 Rows at 1/3 pts 7-9

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

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCCL=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
- TCCL: 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.
- Provide adequate drainage to prevent water ponding.
- All plates are MT20 plates unless otherwise indicated.
- 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.
- 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.
- Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 1.
- 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, 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.
- Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.



July 21, 2020

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.

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16023 Swingley Ridge Rd
 Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Streets of West Pryor
B400088	A10A	Monopitch	5	1	I42113118
Job Reference (optional)					

- 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	Ply	Streets of West Pryor	142113119
B400088	A10B	MONOPITCH	2	1	Job Reference (optional)	

Wheeler Lumber, Waverly, KS - 66871,

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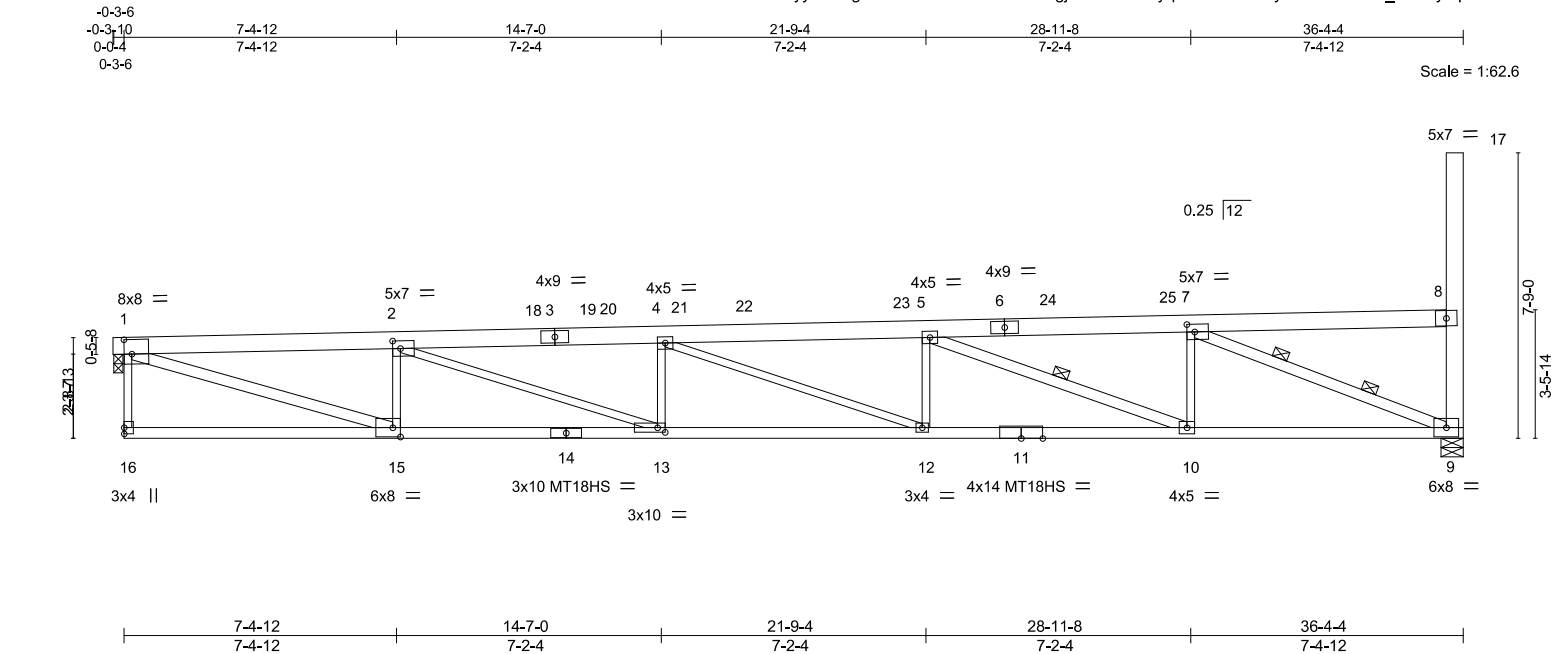


Plate Offsets (X,Y)-- [1:0-2-8,0-4-12], [2:0-2-8,0-2-8], [7:0-2-8,0-2-8], [13:0-2-8,0-1-8], [15:0-2-8,0-3-0]															
LOADING (psf)		SPACING-		2-0-0		CSI.		DEFL.		in (loc) l/defl L/d		PLATES		GRIP	
TCLL (roof) 20.0		Plate Grip DOL		1.15		TC 0.79		Vert(LL)		-0.39 12-13 >999 360		MT20		197/144	
Snow (Pf/Pg) 15.4/20.0		Lumber DOL		1.15		BC 0.79		Vert(CT)		-1.00 12-13 >433 240		MT18HS		197/144	
TCDL 15.0		Rep Stress Incr		NO		WB 0.88		Horz(CT)		-0.04 1 n/a n/a					
BCLL 0.0 *		Code IBC2018/TPI2014				Matrix-S		Wind(LL)		0.37 12-13 >999 240					
BCDL 10.0												Weight: 166 lb		FT = 10%	

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: 2x4 SPF 2100F 1.8E
 5-10,7-9: 2x4 SPF No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 2-3-12 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 6-7-11 oc bracing.
 WEBS 1 Row at midpt 5-10
 2 Rows at 1/3 pts 7-9

REACTIONS.

(size) 1=0-3-0, 9=0-7-4
 Max Horz 9=345(LC 11)
 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, 5-12=0/451, 5-10=-2263/374, 7-10=-43/970, 7-9=-3848/886

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCCL=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
- TCCL: 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.
- 250.0lb AC unit load placed on the top chord, 15-0-2 from left end, supported at two points, 3-8-4 apart.
- Provide adequate drainage to prevent water ponding.
- All plates are MT20 plates unless otherwise indicated.
- 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 9.
- Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 1.
- 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, 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.
- Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.

LOAD CASE(S) Standard



July 21, 2020

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16023 Swingley Ridge Rd
 Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Streets of West Pryor
B400088	A10B	MONOPITCH	2	1	I42113119
Job Reference (optional)					

Wheeler Lumber,
Waverly, KS - 66871,

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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: 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

Job	Truss	Truss Type	Qty	Ply	Streets of West Pryor	I42113120
B400088	A10C	Monopitch	6	1	Job Reference (optional)	

Wheeler Lumber, Waverly, KS 66871, Mitek

8.410 s May 22 2020 MiTek Industries, Inc. Tue Jul 21 15:10:24 2020 Page 1
ID:yyQ78agb1ZluwnWc1etTPnz53bT-V2jeH?oWGuK3C_QnAqU3LY1_V2PDwYOzMs3yWnyvoxD

0-3-10 7-4-12 14-7-0 21-9-4 28-11-8 36-4-4
0-3-10 7-4-12 7-2-4 7-2-4 7-2-4 7-4-12

5x12 || Scale = 1:71.6

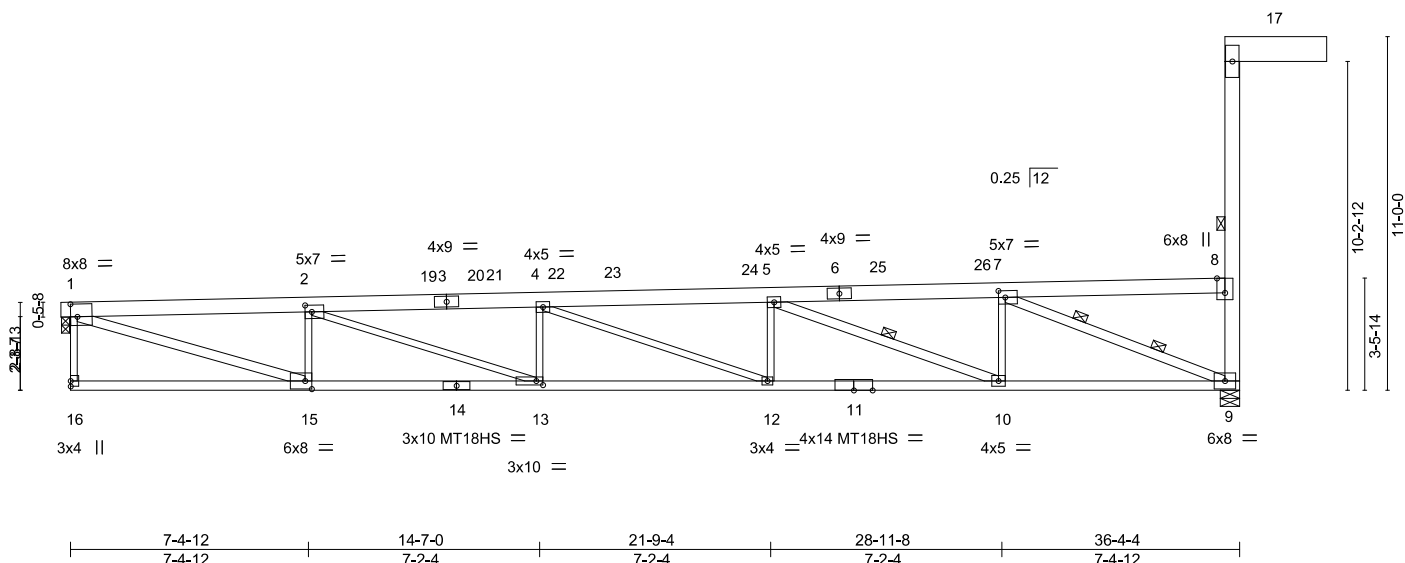


Plate Offsets (X,Y)-- [1:0-2-8,0-4-12], [2:0-2-8,0-2-8], [7:0-2-8,0-2-8], [8:0-5-7,Edge], [13:0-2-8,0-1-8], [15:0-2-8,0-3-0]																			
LOADING (psf)		SPACING-		2-0-0		CSI.		DEFL.		in (loc)		l/defl		L/d		PLATES		GRIP	
TCLL (roof) 20.0		Plate Grip DOL 1.15		TC 0.81		Vert(LL) -0.41 12-13		>999		360		MT20		197/144					
Snow (Pf/Pg) 15.4/20.0		Lumber DOL 1.15		BC 0.80		Vert(CT) -1.02 12-13		>426		240		MT18HS		197/144					
TCDL 15.0		Rep Stress Incr NO		WB 0.91		Horz(CT) -0.04 1		n/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* 17-18: 2x10 SP DSS	TOP CHORD Structural wood sheathing directly applied or 2-2-14 oc purlins, except end verticals. Except: 6-0-0 oc bracing: 8-9 7-7-0 oc bracing: 8-17
BOT CHORD 2x4 SPF 2100F 1.8E	BOT CHORD Rigid ceiling directly applied or 6-1-8 oc bracing.
WEBS 2x3 SPF No.2 *Except* 9-17: 2x6 SPF 1650F 1.4E, 1-15: 2x4 SPF 2100F 1.8E 5-10, 7-9: 2x4 SPF No.2	WEBS 1 Row at midpt 8-17, 5-10 2 Rows at 1/3 pts 7-9

REACTIONS. (lb/size) 1=1635/0-3-0, 9=1992/0-7-4
Max Horz 9=473(LC 11)
Max Uplift 1=48(LC 10), 9=93(LC 11)
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,
7-8=-780/761, 8-9=-543/161
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
WEBS 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-**
- 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 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.



July 21, 2020

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 **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	I42113120
B400088	A10C	Monopitch	6	1	Job Reference (optional)	

Wheeler Lumber, Waverly, KS 66871, Mitek

8.410 s May 22 2020 MiTek Industries, Inc. Tue Jul 21 15:10:24 2020 Page 2
ID:yyQ78agb1ZluwnWc1etTPnz53bT-V2jeH?oWGuK3C_QnAqU3LY1_V2PDwYOzMs3yWnyvoxD

NOTES-

- 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 the intended use of this truss.
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: 1-26=-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

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 **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	I42113121
B400088	A11	Monopitch Girder	1	2	Job Reference (optional)	

Wheeler Lumber, Waverly, KS 66871, Mitek

ID:yyQ78agb1ZluwnWc1etTPnz53bT-dZ?Y0RygDuyDG_wHQ3D6NH4BMHp7TQJuLNj8TXyvox0

0-3-10	7-4-12	14-7-0	21-9-4	28-11-8	36-4-4
0-3-10	7-4-12	7-2-4	7-2-4	7-2-4	7-4-12

5x12 || Scale = 1:71.6

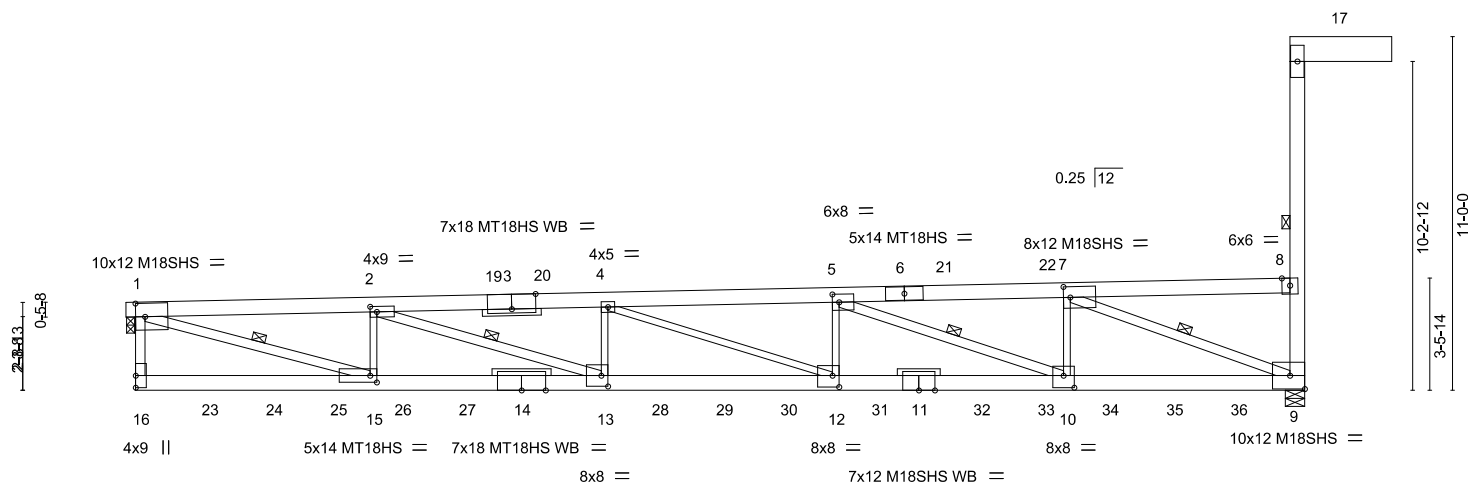


Plate Offsets (X,Y)--	[1:0-3-8,0-5-0], [2:0-2-8,0-2-0], [3:0-9-0,Edge], [5:0-2-8,0-3-0], [7:0-2-8,0-4-0], [10:0-4-0,0-4-8], [12:0-2-8,0-4-4], [13:0-2-8,0-4-0], [15:0-2-8,0-2-8]
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LOADING (psf)	SPACING-	CSL	DEFL.	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.93	in (loc) l/defl L/d	MT20 197/144	
Snow (Pf/Pg) 15.4/20.0	Plate Grip DOL 1.15	BC 0.94	Vert(LL) 1.67 12-13 >258 240	M18SHS 197/144	
TCDL 15.0	Lumber DOL 1.15	WB 1.00	Vert(CT) -1.78 12-13 >242 180	MT18HS 197/144	
BCLL 0.0 *	Rep Stress Incr NO	Matrix-S	Horz(CT) 0.00 1 n/a n/a	Weight: 464 lb	FT = 10%
BCDL 10.0	Code IBC2018/TPI2014				

LUMBER-	BRACING-
TOP CHORD 2x6 SPF 1650F 1.4E *Except* 17-18: 2x10 SP DSS	TOP CHORD Structural wood sheathing directly applied or 3-2-5 oc purlins, except end verticals. Except: 6-0-0 oc bracing: 8-9 10-0-0 oc bracing: 8-17
BOT CHORD 2x6 SP DSS	BOT CHORD Rigid ceiling directly applied or 3-3-2 oc bracing.
WEBS 2x3 SPF No.2 *Except* 1-16,2-13,5-10: 2x4 SPF No.2, 9-17: 2x6 SPF No.2 1-15: 2x4 SPF 2100F 1.8E, 7-9: 2x4 SPF 2400F 2.0E	WEBS 1 Row at midpt 8-17, 1-15, 2-13, 5-10, 7-9
OTHERS 2x3 SPF No.2	

REACTIONS. (lb/size) 1=3218/0-3-0 (req. 0-5-7), 9=3584/0-7-4
Max Horz 9=470(LC 32)
Max Uplift 1=5805(LC 6), 9=6545(LC 7)
Max Grav 1=6967(LC 34), 9=7657(LC 33)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-16=-904/1107, 1-2=-17189/14403, 2-19=-25800/21887, 3-19=-25798/21887,
3-20=-25798/21887, 4-20=-25797/21888, 4-5=-25363/21594, 5-6=-16865/14364,
6-21=-16864/14364, 21-22=-16864/14365, 7-22=-16862/14365, 7-8=-1168/1084,
8-9=-549/187
BOT CHORD 16-23=-282/336, 23-24=-282/336, 24-25=-282/336, 15-25=-282/336, 15-26=-14433/17200,
26-27=-14433/17200, 14-27=-14433/17200, 13-14=-14433/17200, 13-28=-21912/25811,
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
WEBS 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-**
- 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.
 - 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.
 - Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; 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
 - 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=1.0; Ct=1.10; Min. flat roof snow load governs.
 - Provide adequate drainage to prevent water ponding.
 - All plates are MT20 plates unless otherwise indicated.

Continued on page 2. This design is for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.



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.
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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Streets of West Pryor	I42113121
B400088	A11	Monopitch Girder	1	2	Job Reference (optional)	

Wheeler Lumber, Waverly, KS 66871, Mitek

8,410 s May 22 2020 MiTek Industries, Inc. Tue Jul 21 15:10:37 2020 Page 2
ID:yyQ78agb1ZluwnWc1etTPnz53bT-dZ?Y0RygDuyDG_wHQ3D6NH4BMHp7TQJuLNj8TXyvox0

NOTES-

- 9) * 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.
- 10) WARNING: Required bearing size at joint(s) 1 greater than input bearing size.
- 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 5805 lb uplift at joint 1 and 6545 lb uplift at joint 9.
- 13) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 1.
- 14) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- 15) Load case(s) 1, 4, 14, 16, 17, 18, 19, 24, 39, 40, 41, 42 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- 16) Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.
- 17) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 495 lb down and 443 lb up at 0-1-12, 490 lb down and 451 lb up at 2-3-8, 489 lb down and 451 lb up at 4-3-8, 489 lb down and 450 lb up at 6-3-8, 488 lb down and 450 lb up at 8-3-8, 488 lb down and 449 lb up at 10-3-8, 832 lb down and 795 lb up at 12-3-8, 831 lb down and 794 lb up at 14-3-8, 831 lb down and 794 lb up at 16-3-8, 830 lb down and 793 lb up at 18-3-8, 830 lb down and 793 lb up at 20-3-8, 829 lb down and 792 lb up at 22-3-8, 814 lb down and 776 lb up at 24-3-8, 814 lb down and 775 lb up at 26-3-8, 813 lb down and 775 lb up at 28-3-8, 813 lb down and 774 lb up at 30-3-8, and 812 lb down and 774 lb up at 32-3-8, and 812 lb down and 773 lb up at 34-3-8 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

- 1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
 - Uniform Loads (plf)
 - Vert: 1-22=-61, 9-16=-20
 - Concentrated Loads (lb)
 - Vert: 16=-178(B) 14=-197(B) 13=-197(B) 11=-203(B) 23=-169(B) 24=-169(B) 25=-169(B) 26=-169(B) 27=-169(B) 28=-197(B) 29=-197(B) 30=-197(B) 31=-197(B) 32=-203(B) 33=-203(B) 34=-203(B) 35=-203(B) 36=-203(B)
 - Trapezoidal Loads (plf)
 - Vert: 22=-61-to-8=-181
- 4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
 - Uniform Loads (plf)
 - Vert: 1-22=-53, 9-16=-20
 - Concentrated Loads (lb)
 - Vert: 16=-152(B) 14=-164(B) 13=-164(B) 11=-169(B) 23=-143(B) 24=-143(B) 25=-143(B) 26=-143(B) 27=-143(B) 28=-164(B) 29=-164(B) 30=-164(B) 31=-164(B) 32=-169(B) 33=-169(B) 34=-169(B) 35=-169(B) 36=-169(B)
 - Trapezoidal Loads (plf)
 - Vert: 22=-53-to-8=-143
- 14) Dead + Snow on Overhangs: Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
 - Uniform Loads (plf)
 - Vert: 1-22=-30, 9-16=-20
 - Concentrated Loads (lb)
 - Vert: 16=-178(B) 14=-197(B) 13=-197(B) 11=-203(B) 23=-169(B) 24=-169(B) 25=-169(B) 26=-169(B) 27=-169(B) 28=-197(B) 29=-197(B) 30=-197(B) 31=-197(B) 32=-203(B) 33=-203(B) 34=-203(B) 35=-203(B) 36=-203(B)
 - Trapezoidal Loads (plf)
 - Vert: 22=-30-to-8=-150
- 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: 1-22=-54, 9-16=-20
 - Horz: 1-16=21, 1-8=1, 8-9=6, 8-17=38
 - 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
- 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: 1-22=-54, 9-16=-20
 - Horz: 1-16=-6, 1-8=1, 8-9=-21, 8-17=-38
 - 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
- 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) 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

Continued on page 3

 **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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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Streets of West Pryor	I42113121
B400088	A11	Monopitch Girder	1	2	Job Reference (optional)	

Wheeler Lumber, Waverly, KS 66871, Mitek

8.410 s May 22 2020 MiTek Industries, Inc. Tue Jul 21 15:10:37 2020 Page 3
ID:yyQ78agb1ZluwnWc1etTPnz53bT-dZ?Y0RygDuyDG_wHQ3D6NH4BMHp7TQJuLNj8TXyvov0

LOAD CASE(S) Standard

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=-178(B) 14=-197(B) 13=-197(B) 11=-203(B) 23=-169(B) 24=-169(B) 25=-169(B) 26=-169(B) 27=-169(B) 28=-197(B) 29=-197(B) 30=-197(B) 31=-197(B)
32=-203(B) 33=-203(B) 34=-203(B) 35=-203(B) 36=-203(B)

Trapezoidal Loads (plf)

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

39) 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: 1-22=-54, 9-16=-20

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

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

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=-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

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=-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

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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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Streets of West Pryor
B400088	J1	Flat Supported Gable	1	1	I42113122
Job Reference (optional)					

Wheeler Lumber, Waverly, KS - 66871,

8.410 s May 22 2020 MiTek Industries, Inc. Tue Jul 21 13:44:59 2020 Page 1

ID:yyQ78agb1ZluwnWc1etTPnz53bT-1V9syarUGm?uVOW6znfK7HH7P7Q?dq0ds?5F8KyvqBI

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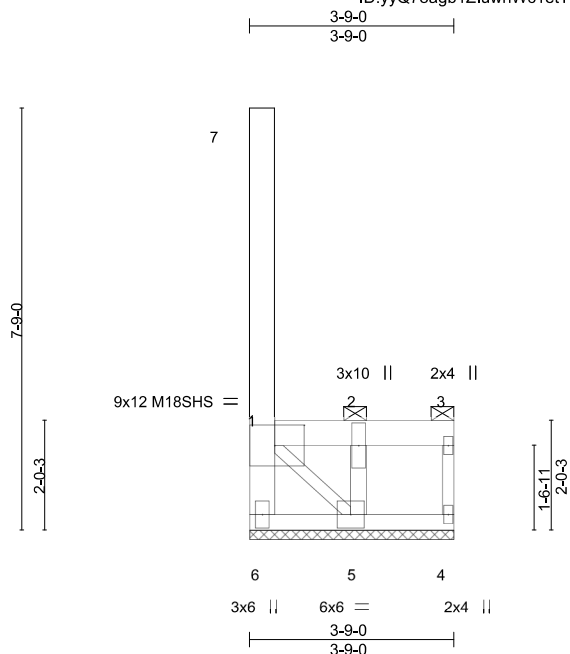


Plate Offsets (X,Y)-- [1:0-6-8,0-4-8]

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 0.97	Vert(LL)	n/a	-	n/a	999	MT20	197/144
Snow (Pf/Pg) 20.4/20.0	Lumber DOL	1.15	BC 0.11	Vert(CT)	n/a	-	n/a	999	M18SHS	197/144
TCDL 15.0	Rep Stress Incr	NO	WB 0.31	Horz(CT)	-0.00	4	n/a	n/a		
BCLL 0.0 *	Code IBC2018/TPI2014		Matrix-P							
BCDL 10.0									Weight: 28 lb	FT = 10%

LUMBER-	BRACING-
TOP CHORD 2x6 SPF No.2	TOP CHORD 2-0-0 oc purlins: 1-7, 1-3, except end verticals.
BOT CHORD 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied or 6-1-6 oc bracing.
WEBS 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
WEBS 2-5=-466/838, 1-5=-775/1269

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; 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
- 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.
- 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.
- All plates are MT20 plates unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- Gable studs spaced at 2-0-0 oc.
- 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.
- 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.
- 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.

5) General layout representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



July 21, 2020

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Streets of West Pryor
B400088	J1	Flat Supported Gable	1	1	I42113122
Job Reference (optional)					

Wheeler Lumber, 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

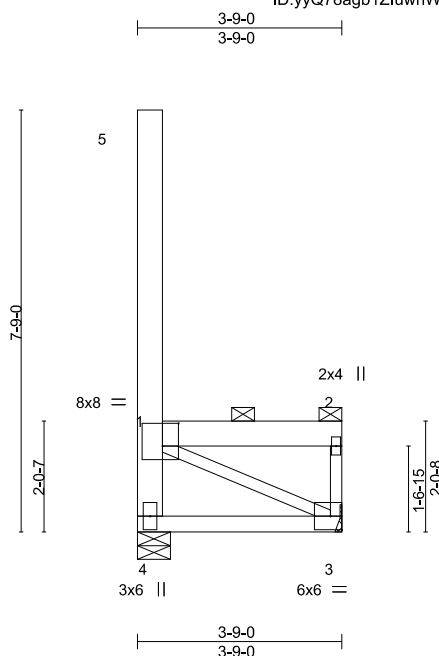
- 1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
 - Uniform Loads (plf)
 - Vert: 4-6=-20
 - Trapezoidal Loads (plf)
 - Vert: 1=-131-to-3=-71
- 4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
 - Uniform Loads (plf)
 - Vert: 4-6=-20
 - Trapezoidal Loads (plf)
 - 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	Ply	Streets of West Pryor
B400088	J2	Flat	1	1	I42113123
Job Reference (optional)					

Wheeler Lumber, Waverly, KS - 66871,

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ID:yyQ78agb1ZluwnWc1etTPnz53bT-5f5zgXEZkb1LLJyGrVEqQ1bdL1Kb7lcKD_ryFTyvqAo



Scale = 1:42.3

Plate Offsets (X,Y)-- [1:0-3-8,0-5-0]

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 0.84	Vert(LL)	-0.01	3-4	>999	MT20	197/144
Snow (Pf/Pg) 20.4/20.0	Lumber DOL	1.15	BC 0.17	Vert(CT)	-0.02	3-4	>999		
TCDL 15.0	Rep Stress Incr	NO	WB 0.27	Horz(CT)	-0.00	3	n/a		
BCLL 0.0 *	Code IBC2018/TPI2014		Matrix-P	Wind(LL)	0.00	4	****		
BCDL 10.0								Weight: 27 lb	FT = 10%

LUMBER-	BRACING-
TOP CHORD 2x6 SPF No.2	TOP CHORD 2-0-0 oc purlins: 1-5, 1-2, except end verticals.
BOT CHORD 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied or 5-10-15 oc bracing.
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.
TOP CHORD 1-4=-619/467, 2-3=-184/285
BOT CHORD 3-4=-1007/678
WEBS 1-3=-746/1095

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; 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
- 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.
- 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.
- Refer to girder(s) for truss to truss connections.
- 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.
- 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.
- 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



July 21, 2020

Continued on page 2

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Streets of West Pryor
B400088	J2	Flat	1	1	I42113123
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 2
ID:yyQ78agb1ZluwnWc1etTPnz53bT-5f5zgXEZkb1LLJyGrVEqQ1bdL1Kb7IcKD_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)

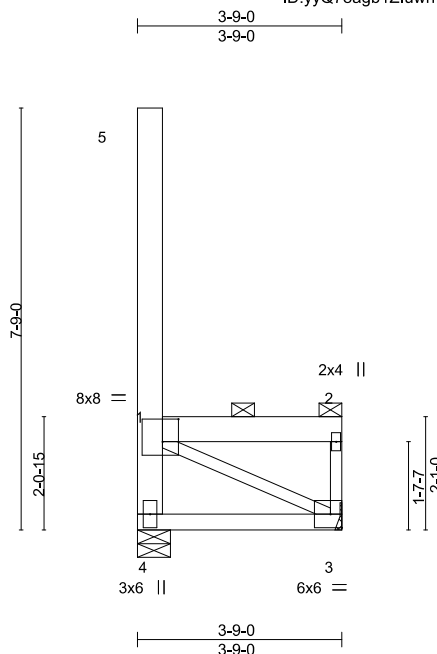
Vert: 1=-130-to-2=-70

Job	Truss	Truss Type	Qty	Ply	Streets of West Pryor
B400088	J3	Flat	1	1	I42113124
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-OGY1kXd4z3xD?otFYfSP5bkXiWFI9eskjfd54yvqAQ



Scale = 1:42.3

Plate Offsets (X,Y)-- [1:0-3-8,0-5-0]

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 0.83	Vert(LL)	-0.01	3-4	>999	MT20	197/144
Snow (Pf/Pg) 20.4/20.0	Lumber DOL	1.15	BC 0.17	Vert(CT)	-0.02	3-4	>999		
TCDL 15.0	Rep Stress Incr	NO	WB 0.27	Horz(CT)	-0.00	3	n/a		
BCLL 0.0 *	Code IBC2018/TPI2014		Matrix-P	Wind(LL)	0.00	4	****		
BCDL 10.0								Weight: 27 lb	FT = 10%

LUMBER-	BRACING-
TOP CHORD 2x6 SPF No.2	TOP CHORD 2-0-0 oc purlins: 1-5, 1-2, except end verticals.
BOT CHORD 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied or 5-11-11 oc bracing.
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.
TOP CHORD 1-4=-616/467, 2-3=-183/284
BOT CHORD 3-4=-985/662
WEBS 1-3=-732/1075

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; 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
- 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.
- 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.
- Refer to girder(s) for truss to truss connections.
- 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.
- 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.
- 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



July 21, 2020

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.

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Streets of West Pryor
B400088	J3	Flat	1	1	I42113124
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 2
ID:yyQ78agb1ZluwnWc1etTPnz53bT-OGY1kXd4z3xD?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)

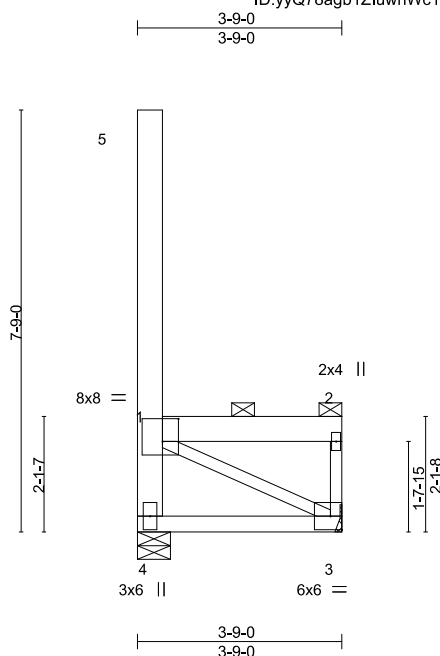
Vert: 1=-130-to-2=-70

Job	Truss	Truss Type	Qty	Ply	Streets of West Pryor
B400088	J4	Flat	1	1	I42113125
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?RFkxd4hBK2H4ISVYvqAG



Scale = 1:42.3

Plate Offsets (X,Y)-- [1:0-3-8,0-5-0]

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 0.81	Vert(LL)	-0.01	3-4	>999	MT20	197/144
Snow (Pf/Pg) 20.4/20.0	Lumber DOL	1.15	BC 0.16	Vert(CT)	-0.02	3-4	>999		
TCDL 15.0	Rep Stress Incr	NO	WB 0.26	Horz(CT)	-0.00	3	n/a		
BCLL 0.0 *	Code IBC2018/TPI2014		Matrix-P	Wind(LL)	0.00	4	****		
BCDL 10.0								Weight: 27 lb	FT = 10%

LUMBER-	BRACING-
TOP CHORD 2x6 SPF No.2	TOP CHORD 2-0-0 oc purlins: 1-5, 1-2, except end verticals.
BOT CHORD 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied or 6-0-7 oc bracing.
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

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; 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
 - 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.
 - 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.
 - Refer to girder(s) for truss to truss connections.
 - 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.
 - 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.
 - 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



July 21, 2020

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.

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Streets of West Pryor
B400088	J4	Flat	1	1	I42113125
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 2
ID:yyQ78agb1ZluwnWc1etTPnz53bT-5B8pp9euj2JWQXYoqeropC?RFkxd4hBK2H4ISVvyqAG

- 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	Ply	Streets of West Pryor
B400088	J5	Flat	1	1	I42113126
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_SXOIXzKiAhF9fzYaUFqLNyvvqA5

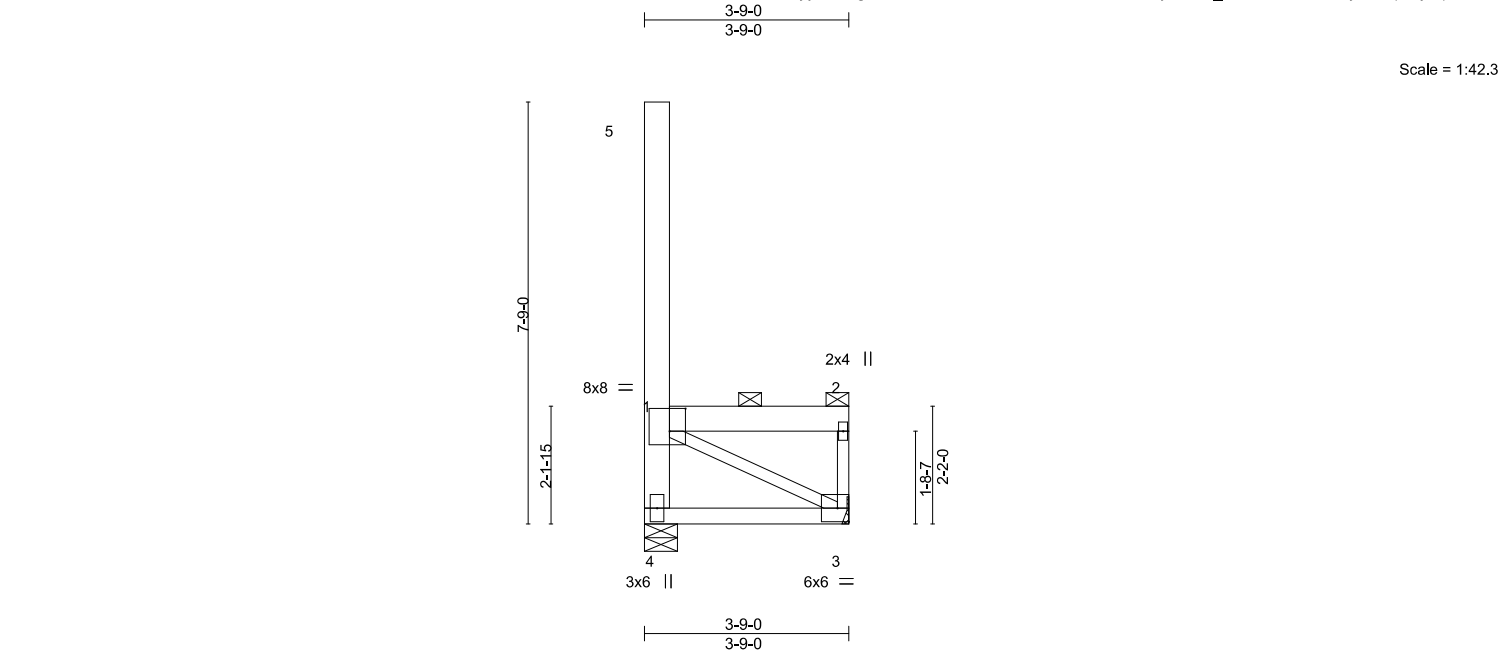


Plate Offsets (X,Y)-- [1:0-3-8,0-5-0]

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 0.80	Vert(LL)	-0.01	3-4	>999	360	MT20	197/144
Snow (Pf/Pg) 20.4/20.0	Lumber DOL	1.15	BC 0.16	Vert(CT)	-0.02	3-4	>999	240		
TCDL 15.0	Rep Stress Incr	NO	WB 0.26	Horz(CT)	-0.00	3	n/a	n/a		
BCLL 0.0 *	Code IBC2018/TPI2014		Matrix-P	Wind(LL)	0.00	4	****	240		
BCDL 10.0									Weight: 27 lb	FT = 10%

LUMBER-	BRACING-
TOP CHORD 2x6 SPF No.2	TOP CHORD 2-0-0 oc purlins: 1-5, 1-2, except end verticals.
BOT CHORD 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied or 6-1-3 oc bracing.
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=-610/469, 2-3=-183/283
BOT CHORD 3-4=-944/633
WEBS 1-3=-707/1039

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; 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
 - 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.
 - 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.
 - Refer to girder(s) for truss to truss connections.
 - 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.
 - 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.
 - 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

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.
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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Streets of West Pryor
B400088	J5	Flat	1	1	I42113126
Job Reference (optional)					

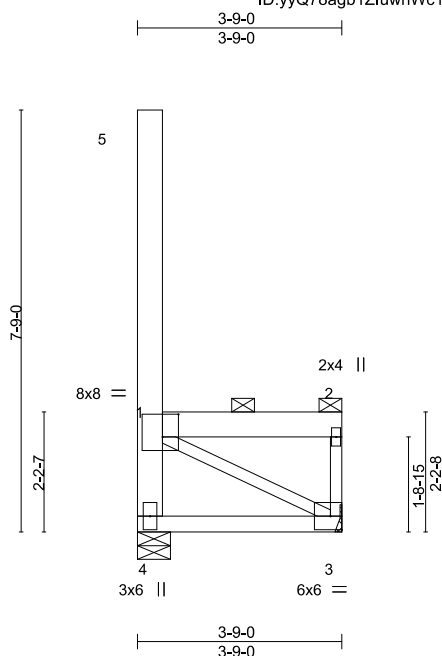
- LOAD CASE(S)** Standard
- Trapezoidal Loads (plf)
Vert: 1=-131-to-2=-71
- 4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
Vert: 3-4=-20
- Trapezoidal Loads (plf)
Vert: 1=-106-to-2=-61
- 19) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): 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	Ply	Streets of West Pryor
B400088	J6	Flat	1	1	I42113127
Job Reference (optional)					

Wheeler Lumber, Waverly, KS - 66871,

8.410 s May 22 2020 MiTek Industries, Inc. Tue Jul 21 13:46:21 2020 Page 1

ID:yyQ78agb1ZluwnWc1etTPnz53bT-dG6sAdrwyKFK_ntm07ZSagAfBORqxHhjmzb0ayvqA0



Scale = 1:42.3

Plate Offsets (X,Y)-- [1:0-3-8,0-5-0]

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 0.78	Vert(LL)	-0.01	3-4	>999	MT20	197/144
Snow (Pf/Pg) 20.4/20.0	Lumber DOL	1.15	BC 0.16	Vert(CT)	-0.02	3-4	>999		
TCDL 15.0	Rep Stress Incr	NO	WB 0.25	Horz(CT)	-0.00	3	n/a		
BCLL 0.0 *	Code IBC2018/TPI2014		Matrix-P	Wind(LL)	0.00	4	****		
BCDL 10.0								Weight: 28 lb	FT = 10%

LUMBER-	BRACING-
TOP CHORD 2x6 SPF No.2	TOP CHORD 2-0-0 oc purlins: 1-5, 1-2, except end verticals.
BOT CHORD 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied or 6-1-15 oc bracing.
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.
TOP CHORD 1-4=-607/470, 2-3=-182/282
BOT CHORD 3-4=-925/620
WEBS 1-3=-695/1022

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; 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
- 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.
- 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.
- Refer to girder(s) for truss to truss connections.
- 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.
- 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.
- 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



July 21, 2020

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.

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Streets of West Pryor
B400088	J6	Flat	1	1	I42113127
Job Reference (optional)					

Wheeler Lumber, Waverly, KS - 66871,

8.410 s May 22 2020 MiTek Industries, Inc. Tue Jul 21 13:46:21 2020 Page 2
ID:yyQ78agb1ZluwnWc1etTPnz53bT-dG6sAdrwyYKFK_ntm07ZSagAfBORqxHhjmzb0ayvqA0

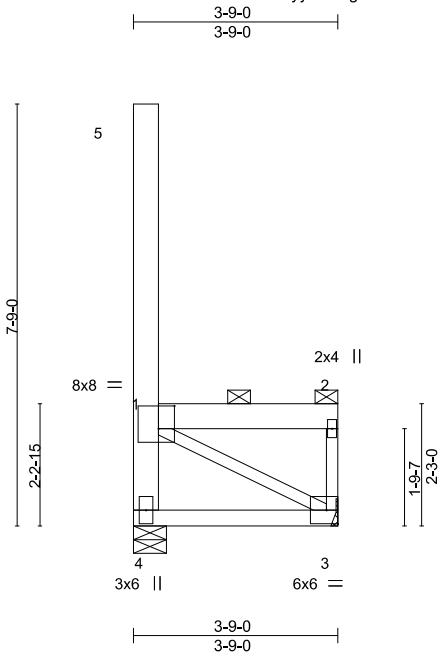
- LOAD CASE(S)** Standard
- Trapezoidal Loads (plf)
 - Vert: 1=-131-to-2=-71
 - 4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
 - Uniform Loads (plf)
 - Vert: 3-4=-20
 - Trapezoidal Loads (plf)
 - Vert: 1=-106-to-2=-61
 - 19) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. 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	Ply	Streets of West Pryor
B400088	J7	Flat	1	1	I42113128
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?



Scale = 1:42.3

Plate Offsets (X,Y)--		[1:0-3-8,0-5-0]									
LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.77	Vert(LL)	-0.01	3-4	>999	MT20	197/144
Snow (Pf/Pg)	20.4/20.0	Lumber DOL	1.15	BC	0.16	Vert(CT)	-0.02	3-4	>999		
TCDL	15.0	Rep Stress Incr	NO	WB	0.25	Horz(CT)	-0.00	3	n/a		
BCLL	0.0 *	Code IBC2018/TPI2014		Matrix-P		Wind(LL)	0.00	4	****		
BCDL	10.0									Weight: 28 lb	FT = 10%

LUMBER-		BRACING-	
TOP CHORD	2x6 SPF No.2	TOP CHORD	2-0-0 oc purlins: 1-5, 1-2, except end verticals.
BOT CHORD	2x4 SPF No.2	BOT CHORD	Rigid ceiling directly applied or 6-2-10 oc bracing.
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.
TOP CHORD 1-4=-604/470, 2-3=-182/281
BOT CHORD 3-4=-907/607
WEBS 1-3=-684/1006

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; 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
 - 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.
 - 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.
 - Refer to girder(s) for truss to truss connections.
 - 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.
 - 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.
 - 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

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.
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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Streets of West Pryor
B400088	J7	Flat	1	1	I42113128
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 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

ID:vyQ78aqb1ZluwnWc1etTPnz53bT-5TqENzsYiGS6v8M3Kieo?oDMSakkZOervQi8Y0vvgA?

Scale = 1:42.3

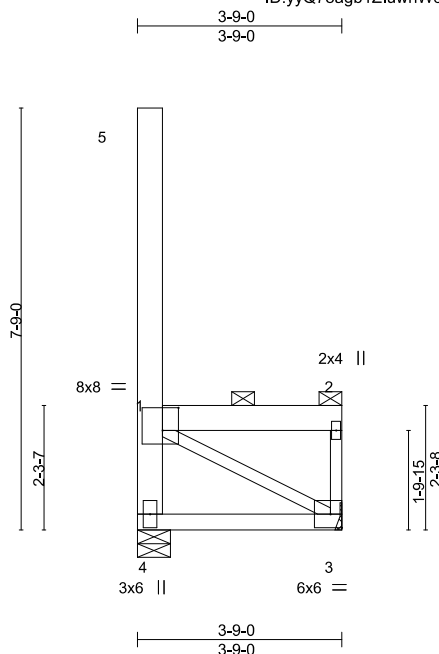


Plate Offsets (X,Y)-- [1:0-3-8,0-5-0]

[illegible]

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

BRACING-

TOP CHORD	2-0-0 oc purlins: 1-5, 1-2, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 6-3-6 oc bracing.

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.

TOP CHORD 1-4=-601/471, 2-3=-182/280
BOT CHORD 3-4=-890/595
WEBS 1-3=-673/991

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCGLD=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=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

Continued on page 2



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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Streets of West Pryor
B400088	J8	Flat	1	1	I42113129
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 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)

Vert: 1=-130-to-2=-70

Job	Truss	Truss Type	Qty	Ply	Streets of West Pryor
B400088	J9	Flat	1	1	I42113130
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
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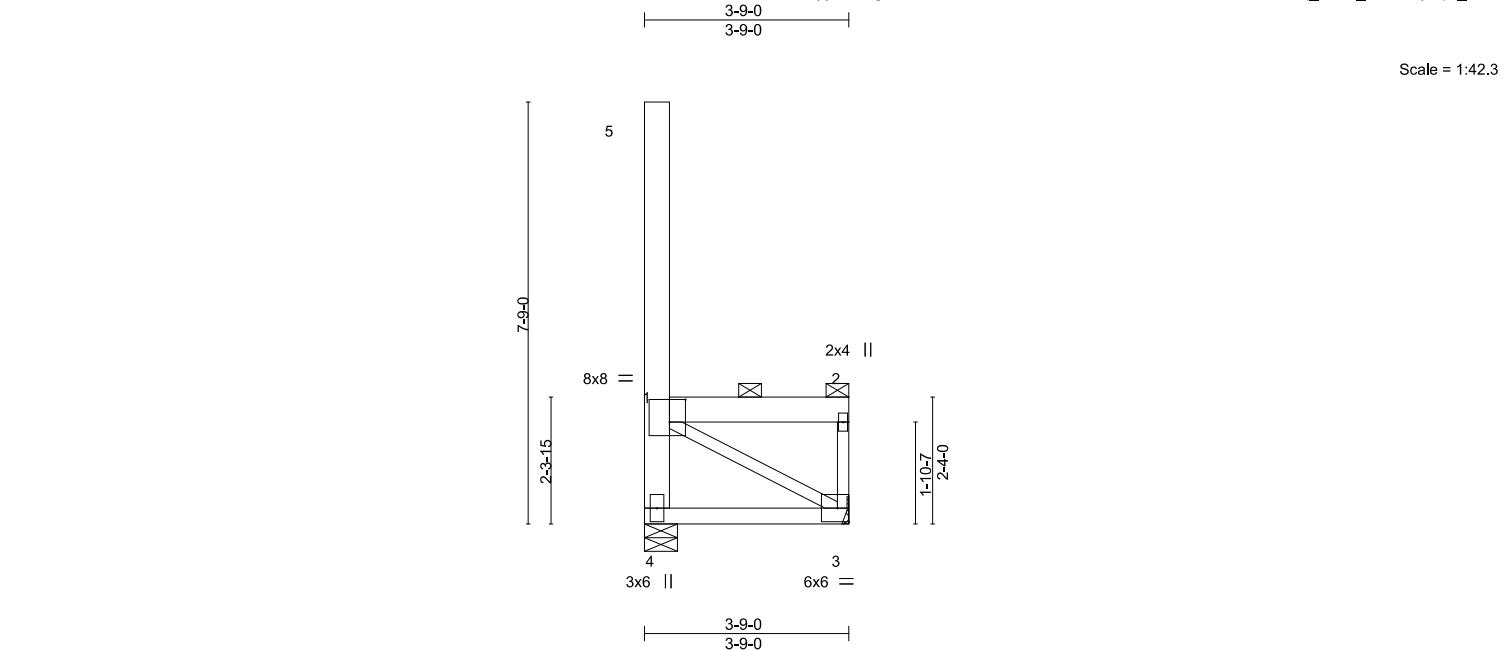


Plate Offsets (X,Y)-- [1:0-3-8,0-5-0]													
LOADING (psf)		SPACING-		CSI.		DEFL.				PLATES		GRIP	
TCLL (roof)	20.0	Plate Grip DOL	2-0-0 1.15	TC	0.74	in (loc)	l/defl	L/d		MT20		197/144	
Snow (Pf/Pg)	20.4/20.0	Lumber DOL	1.15	BC	0.15	Vert(LL)	-0.01 3-4	>999	360				
TCDL	15.0	Rep Stress Incr	NO	WB	0.24	Vert(CT)	-0.02 3-4	>999	240				
BCLL	0.0 *	Code IBC2018/TPI2014				Horz(CT)	-0.00 3	n/a	n/a				
BCDL	10.0			Matrix-P		Wind(LL)	0.00 4	****	240	Weight: 28 lb		FT = 10%	

LUMBER-		BRACING-	
TOP CHORD	2x6 SPF No.2	TOP CHORD	2-0-0 oc purlins: 1-5, 1-2, except end verticals.
BOT CHORD	2x4 SPF No.2	BOT CHORD	Rigid ceiling directly applied or 6-4-1 oc bracing.
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.
TOP CHORD 1-4=-598/472, 2-3=-181/279
BOT CHORD 3-4=-874/583
WEBS 1-3=-663/977

- 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=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

Continued on page 2

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Streets of West Pryor
B400088	J9	Flat	1	1	I42113130
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 2
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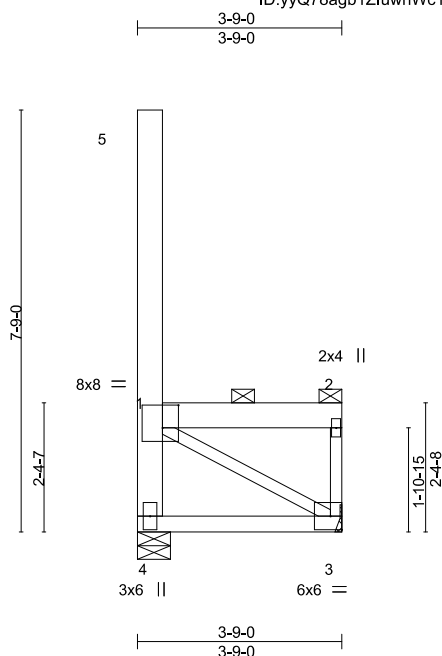
- LOAD CASE(S)** Standard
- Trapezoidal Loads (plf)
 - Vert: 1=-131-to-2=-71
 - 4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
 - Uniform Loads (plf)
 - Vert: 3-4=-20
 - Trapezoidal Loads (plf)
 - Vert: 1=-106-to-2=-61
 - 19) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. 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	Ply	Streets of West Pryor
B400088	J10	Flat	2	1	I42113131
Job Reference (optional)					

Wheeler Lumber, Waverly, KS - 66871,

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ID:yyQ78agb1ZluwnWc1etTPnz53bT-VhjFAws7147k7Y4JXVAZgVpM?XleMISm5frpgmyvqBH



Scale = 1:42.3

Plate Offsets (X,Y)-- [1:0-3-8,0-5-0]

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 0.73	Vert(LL)	-0.01	3-4	>999	360	MT20	197/144
Snow (Pf/Pg) 20.4/20.0	Lumber DOL	1.15	BC 0.15	Vert(CT)	-0.02	3-4	>999	240		
TCDL 15.0	Rep Stress Incr	NO	WB 0.24	Horz(CT)	-0.00	3	n/a	n/a		
BCLL 0.0 *	Code IBC2018/TPI2014		Matrix-P	Wind(LL)	0.00	4	****	240		
BCDL 10.0									Weight: 28 lb	FT = 10%

LUMBER-	BRACING-
TOP CHORD 2x6 SPF No.2	TOP CHORD 2-0-0 oc purlins: 1-5, 1-2, except end verticals.
BOT CHORD 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied or 6-4-12 oc bracing.
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.
TOP CHORD 1-4=-594/473, 2-3=-181/278
BOT CHORD 3-4=-858/572
WEBS 1-3=-653/963

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; 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
- 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.
- 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.
- Refer to girder(s) for truss to truss connections.
- 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.
- 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.
- 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



July 21, 2020

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 **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
B400088	J10	Flat	2	1	I42113131
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 2
ID:yyQ78agb1ZluwnWc1etTPnz53bT-VhjFAws7147k7Y4JXVAZgVpM?XleMISm5frpgmyvqBH

- 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)

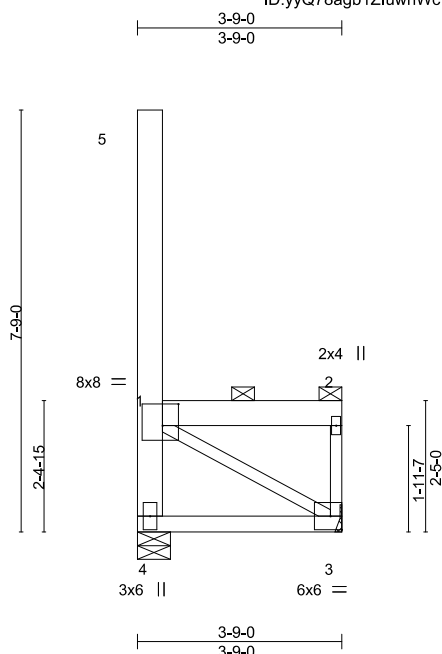
Vert: 1=-130-to-2=-70

Job	Truss	Truss Type	Qty	Ply	Streets of West Pryor
B400088	J11	Flat	2	1	I42113132
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

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Scale = 1:42.3

Plate Offsets (X,Y)-- [1:0-3-8,0-4-12]

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 0.71	Vert(LL)	-0.01	3-4	>999	MT20	197/144
Snow (Pf/Pg) 20.4/20.0	Lumber DOL	1.15	BC 0.15	Vert(CT)	-0.02	3-4	>999		
TCDL 15.0	Rep Stress Incr	NO	WB 0.23	Horz(CT)	-0.00	3	n/a		
BCLL 0.0 *	Code IBC2018/TPI2014		Matrix-P	Wind(LL)	0.00	4	****		
BCDL 10.0								Weight: 28 lb	FT = 10%

LUMBER-	BRACING-
TOP CHORD 2x6 SPF No.2	TOP CHORD 2-0-0 oc purlins: 1-5, 1-2, except end verticals.
BOT CHORD 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied or 6-5-7 oc bracing.
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.
TOP CHORD 1-4=-591/474, 2-3=-180/278
BOT CHORD 3-4=-843/561
WEBS 1-3=-644/950

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; 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
- 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.
- 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.
- Refer to girder(s) for truss to truss connections.
- 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.
- 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.
- 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



July 21, 2020

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.

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Streets of West Pryor
B400088	J11	Flat	2	1	I42113132
Job Reference (optional)					

Wheeler Lumber, 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	Ply	Streets of West Pryor
B400088	J12	Flat	2	1	I42113133
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
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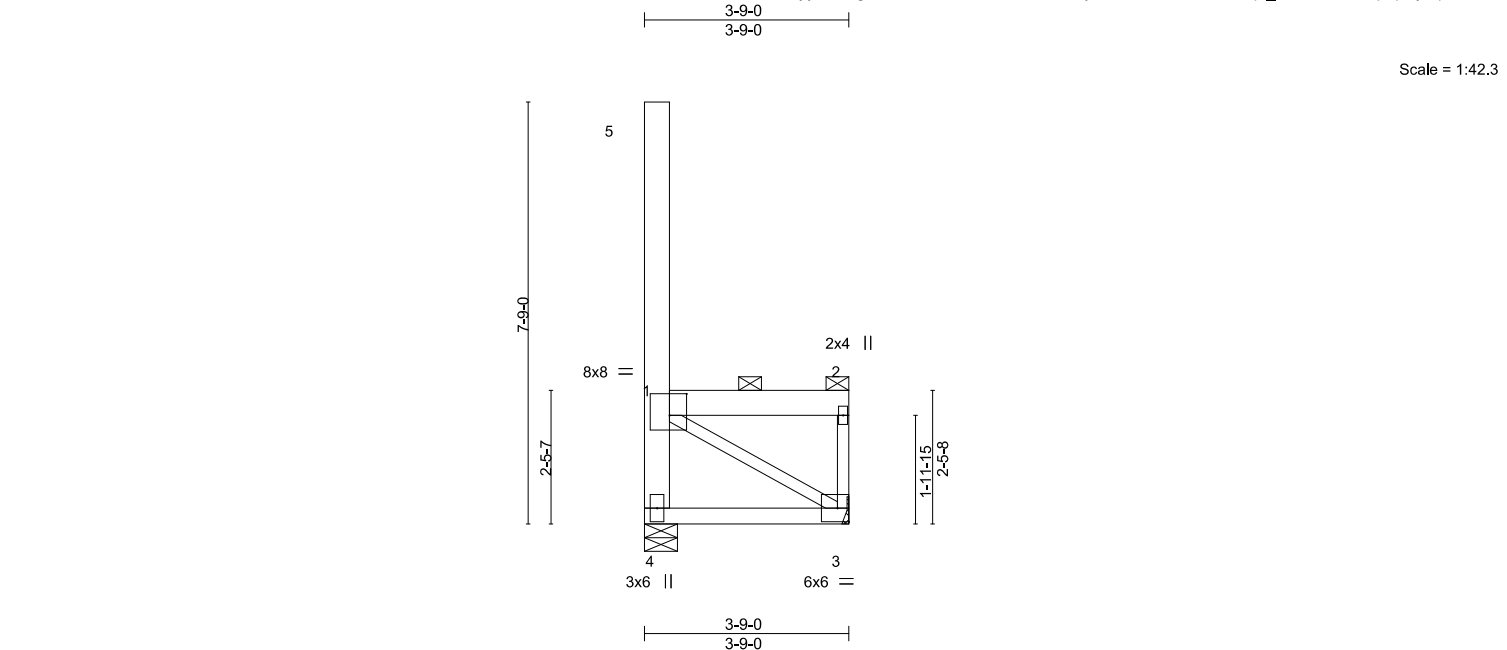


Plate Offsets (X,Y)-- [1:0-3-12,0-4-12]									
LOADING (psf)		SPACING-		CSI.		DEFL.			PLATES
TCLL (roof)	20.0		2-0-0	TC	1.00	in	(loc)	l/defl	L/d
Snow (Pf/Pg)	20.4/20.0	Plate Grip DOL	1.15	BC	0.15	Vert(LL)	-0.01	3-4	>999
TCDL	15.0	Lumber DOL	1.15	WB	0.23	Vert(CT)	-0.02	3-4	>999
BCLL	0.0 *	Rep Stress Incr	NO	Matrix-P		Horz(CT)	-0.00	3	n/a
BCDL	10.0	Code IBC2018/TPI2014				Wind(LL)	0.00	4	****
									Weight: 28 lb
									FT = 10%

LUMBER-		BRACING-	
TOP CHORD	2x6 SPF No.2	TOP CHORD	2-0-0 oc purlins: 1-5, 1-2, except end verticals.
BOT CHORD	2x4 SPF No.2	BOT CHORD	Rigid ceiling directly applied or 6-6-1 oc bracing.
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.
TOP CHORD 1-4=-587/475, 2-3=-180/277
BOT CHORD 3-4=-829/550
WEBS 1-3=-635/938

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; 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
 - 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.
 - 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.
 - Refer to girder(s) for truss to truss connections.
 - 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.
 - 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.
 - 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	J12	Flat	2	1	I42113133
Job Reference (optional)					

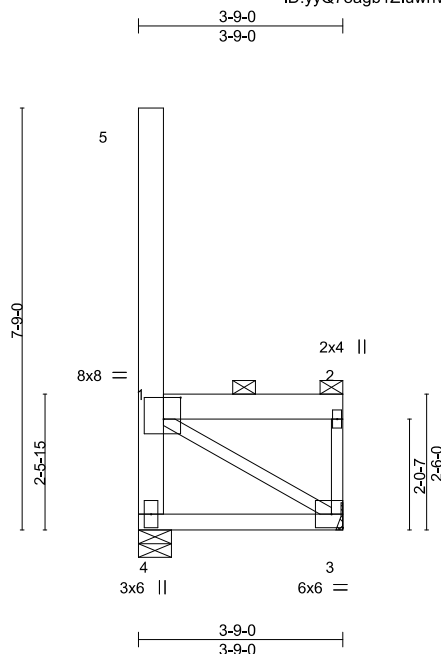
- LOAD CASE(S)** Standard
- Trapezoidal Loads (plf)
Vert: 1=-131-to-2=-71
- 4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
Vert: 3-4=-20
- Trapezoidal Loads (plf)
Vert: 1=-106-to-2=-61
- 19) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): 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	Ply	Streets of West Pryor
B400088	J13	Flat	2	1	I42113134
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

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Scale = 1:42.3

Plate Offsets (X,Y)-- [1:0-3-12,0-4-12]

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 0.98	Vert(LL)	-0.01	3-4	>999	360	MT20	197/144
Snow (Pf/Pg) 20.4/20.0	Lumber DOL	1.15	BC 0.14	Vert(CT)	-0.02	3-4	>999	240		
TCDL 15.0	Rep Stress Incr	NO	WB 0.23	Horz(CT)	-0.00	3	n/a	n/a		
BCLL 0.0 *	Code IBC2018/TPI2014		Matrix-P	Wind(LL)	0.00	4	****	240		
BCDL 10.0									Weight: 28 lb	FT = 10%

LUMBER-	BRACING-
TOP CHORD 2x6 SPF No.2	TOP CHORD 2-0-0 oc purlins: 1-5, 1-2, except end verticals.
BOT CHORD 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied or 6-6-12 oc bracing.
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.
TOP CHORD 1-4=-584/476, 2-3=-179/276
BOT CHORD 3-4=-815/541
WEBS 1-3=-626/926

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCCL=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
- TCCL: 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.
- 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.
- Refer to girder(s) for truss to truss connections.
- 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.
- 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.
- 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



July 21, 2020

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.

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Streets of West Pryor
B400088	J13	Flat	2	1	I42113134
Job Reference (optional)					

- 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)

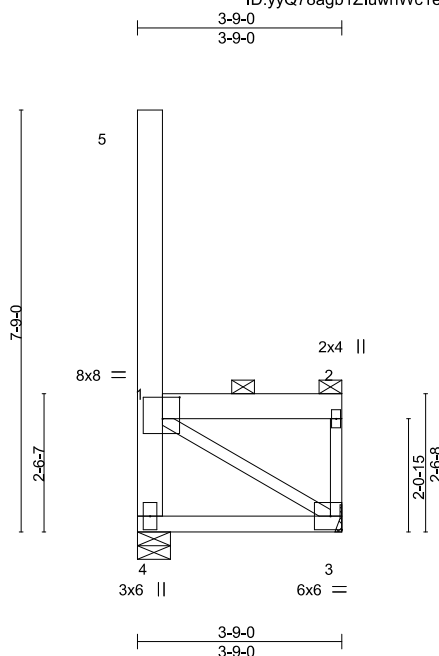
Vert: 1=-130-to-2=-70

Job	Truss	Truss Type	Qty	Ply	Streets of West Pryor
B400088	J14	Flat	2	1	I42113135
Job Reference (optional)					

Wheeler Lumber, Waverly, KS - 66871,

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ID:yyQ78agb1ZluwnWc1etTPnz53bT-CcK0GL_Og8OKJ4rE6bLv4cE?pZ94iq6EODGK0ByvqB7



Scale = 1:42.3

Plate Offsets (X,Y)-- [1:0-3-12,0-4-12]

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 0.96	Vert(LL)	-0.01	3-4	>999	MT20	197/144
Snow (Pf/Pg) 20.4/20.0	Lumber DOL	1.15	BC 0.14	Vert(CT)	-0.02	3-4	>999		
TCDL 15.0	Rep Stress Incr	NO	WB 0.23	Horz(CT)	-0.00	3	n/a		
BCLL 0.0 *	Code IBC2018/TPI2014		Matrix-P	Wind(LL)	0.00	4	****		
BCDL 10.0								Weight: 28 lb	FT = 10%

LUMBER-	BRACING-
TOP CHORD 2x6 SPF No.2	TOP CHORD 2-0-0 oc purlins: 1-5, 1-2, except end verticals.
BOT CHORD 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied or 6-7-5 oc bracing.
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=-580/476, 2-3=-179/275
BOT CHORD 3-4=-802/531
WEBS 1-3=-618/915

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; 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
- 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.
- 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.
- Refer to girder(s) for truss to truss connections.
- 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.
- 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



July 21, 2020

Continued on page 2

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Streets of West Pryor
B400088	J14	Flat	2	1	I42113135
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 2
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)

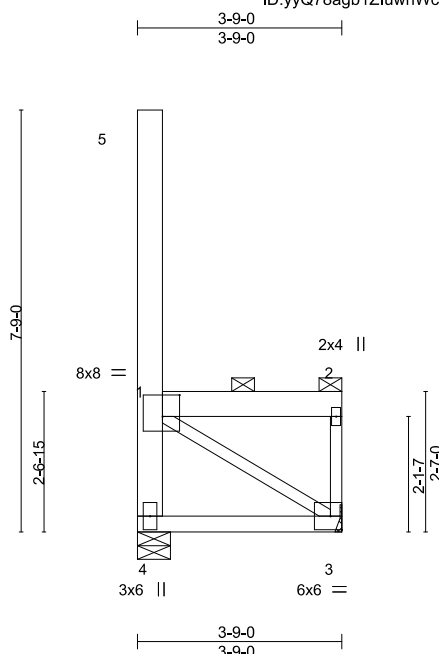
Vert: 1=-130-to-2=-70

Job	Truss	Truss Type	Qty	Ply	Streets of West Pryor
B400088	J15	Flat	2	1	I42113136
Job Reference (optional)					

Wheeler Lumber, 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



Scale = 1:42.3

Plate Offsets (X,Y)-- [1:0-3-12,0-4-12]

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 0.94	Vert(LL)	-0.01	3-4	>999	MT20	197/144
Snow (Pf/Pg) 20.4/20.0	Lumber DOL	1.15	BC 0.14	Vert(CT)	-0.02	3-4	>999		
TCDL 15.0	Rep Stress Incr	NO	WB 0.23	Horz(CT)	-0.00	3	n/a		
BCLL 0.0 *	Code IBC2018/TPI2014		Matrix-P	Wind(LL)	0.00	4	****	Weight: 28 lb	FT = 10%
BCDL 10.0									

LUMBER-	BRACING-
TOP CHORD 2x6 SPF No.2	TOP CHORD 2-0-0 oc purlins: 1-5, 1-2, except end verticals.
BOT CHORD 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied or 6-8-0 oc bracing.
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-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; 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
- 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.
- 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.
- Refer to girder(s) for truss to truss connections.
- 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.
- 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



July 21,2020

Continued on page 2

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Streets of West Pryor
B400088	J15	Flat	2	1	I42113136
Job Reference (optional)					

Wheeler Lumber, Waverly, KS - 66871,

8.410 s May 22 2020 MiTek Industries, Inc. Tue Jul 21 13:45:12 2020 Page 2
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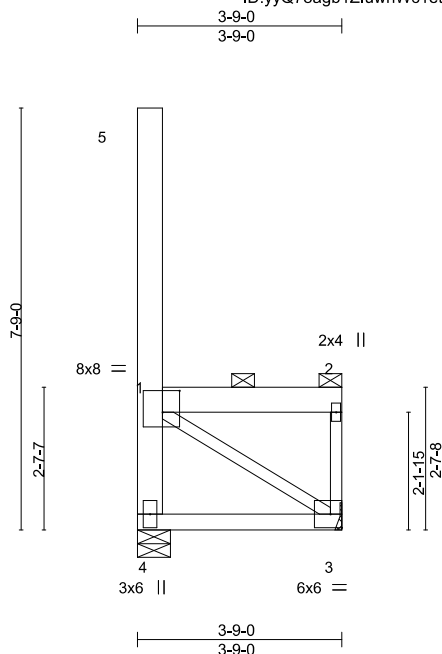
- LOAD CASE(S)** Standard
- Trapezoidal Loads (plf)
Vert: 1=-131-to-2=-71
- 4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
Vert: 3-4=-20
- Trapezoidal Loads (plf)
Vert: 1=-106-to-2=-61
- 19) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): 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	Ply	Streets of West Pryor
B400088	J16	Flat	2	1	I42113137
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?dWvyqB4



Scale = 1:42.3

Plate Offsets (X,Y)-- [1:0-3-12,0-4-12]

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 0.92	Vert(LL)	-0.01	3-4	>999	360	MT20	197/144
Snow (Pf/Pg) 20.4/20.0	Lumber DOL	1.15	BC 0.14	Vert(CT)	-0.02	3-4	>999	240		
TCDL 15.0	Rep Stress Incr	NO	WB 0.23	Horz(CT)	-0.00	3	n/a	n/a		
BCLL 0.0 *	Code IBC2018/TPI2014		Matrix-P	Wind(LL)	0.00	4	****	240		
BCDL 10.0									Weight: 28 lb	FT = 10%

LUMBER-	BRACING-
TOP CHORD 2x6 SPF No.2	TOP CHORD 2-0-0 oc purlins: 1-5, 1-2, except end verticals.
BOT CHORD 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied or 6-8-9 oc bracing.
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

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; 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
- 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.
- 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.
- Refer to girder(s) for truss to truss connections.
- 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.
- 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



July 21, 2020

Continued on page 2

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Streets of West Pryor
B400088	J16	Flat	2	1	I42113137
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 2
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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)

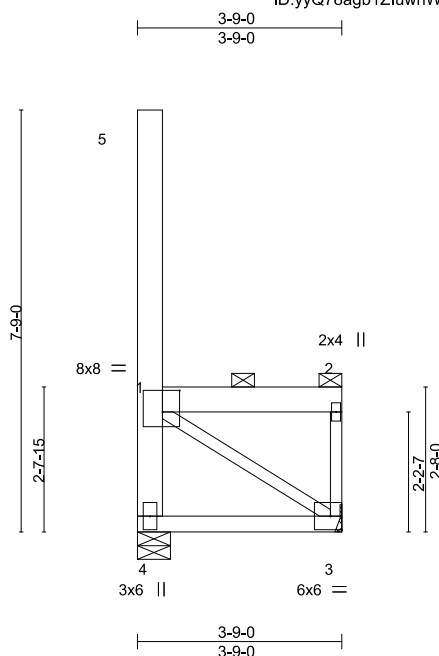
Vert: 1=-130-to-2=-70

Job	Truss	Truss Type	Qty	Ply	Streets of West Pryor
B400088	J17	Flat	2	1	I42113138
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?LRQrES0ieAX4ed6qJrEY9zyvqB3



Scale = 1:42.3

Plate Offsets (X,Y)-- [1:0-3-12,0-4-12]

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 0.91	Vert(LL)	-0.01	3-4	>999	360	197/144
Snow (Pf/Pg) 20.4/20.0	Lumber DOL	1.15	BC 0.14	Vert(CT)	-0.02	3-4	>999	240	
TCDL 15.0	Rep Stress Incr	NO	WB 0.23	Horz(CT)	-0.00	3	n/a	n/a	
BCLL 0.0 *	Code IBC2018/TPI2014		Matrix-P	Wind(LL)	0.00	4	****	240	
BCDL 10.0									
								Weight: 28 lb	FT = 10%

LUMBER-	BRACING-
TOP CHORD 2x6 SPF No.2	TOP CHORD 2-0-0 oc purlins: 1-5, 1-2, except end verticals.
BOT CHORD 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied or 6-9-3 oc bracing.
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.
TOP CHORD 1-4=-569/479, 2-3=-178/272
BOT CHORD 3-4=-765/505
WEBS 1-3=-596/884

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; 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
- 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.
- 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.
- Refer to girder(s) for truss to truss connections.
- 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.
- 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.
- 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



July 21,2020

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 **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
B400088	J17	Flat	2	1	I42113138
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 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)

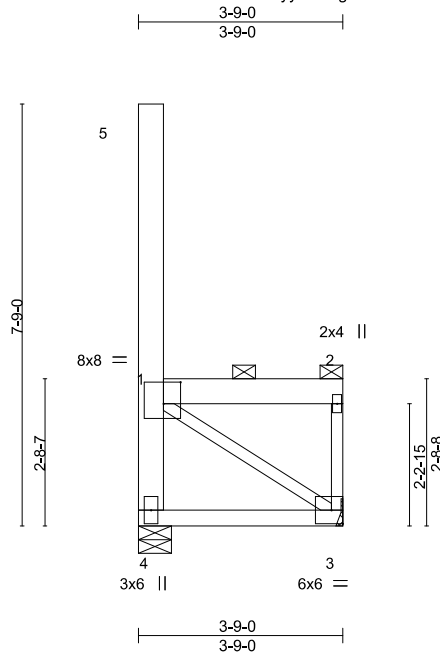
Vert: 1=-130-to-2=-70

Job	Truss	Truss Type	Qty	Ply	Streets of West Pryor
B400088	J18	Flat	2	1	I42113139
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_n8Yc81UN4LkNq4y6LGFobDFIL9OkvWzxyvqAw



Scale = 1:42.3

Plate Offsets (X,Y)-- [1:0-3-12,0-4-12]

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)	-0.01	3-4	>999	360	MT20	197/144
Snow (Pf/Pg) 20.4/20.0	Lumber DOL	1.15	BC 0.14	Vert(CT)	-0.02	3-4	>999	240		
TCDL 15.0	Rep Stress Incr	NO	WB 0.23	Horz(CT)	-0.00	3	n/a	n/a		
BCLL 0.0 *	Code IBC2018/TPI2014		Matrix-P	Wind(LL)	0.00	4	****	240		
BCDL 10.0									Weight: 28 lb	FT = 10%

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

BRACING-

TOP CHORD 2-0-0 oc purlins: 1-5, 1-2, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-9-13 oc bracing.

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.

TOP CHORD 1-4=-565/480, 2-3=-177/271
BOT CHORD 3-4=-754/496
WEBS 1-3=-590/875

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; 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
- 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.
- 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.
- Refer to girder(s) for truss to truss connections.
- 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.
- 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.
- 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



July 21, 2020

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.

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Streets of West Pryor
B400088	J18	Flat	2	1	I42113139
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 2
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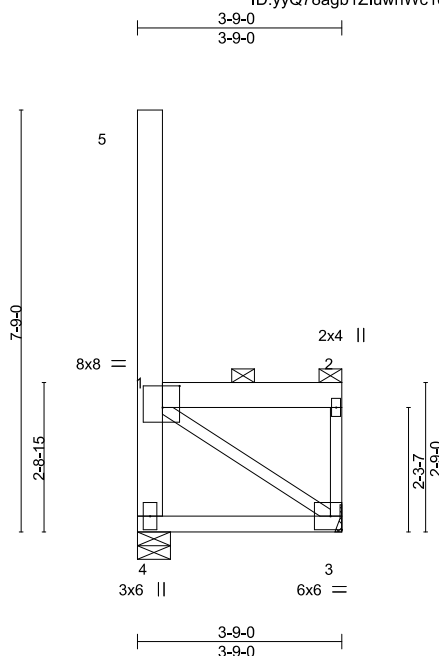
- LOAD CASE(S)** Standard
- Trapezoidal Loads (plf)
 - Vert: 1=-131-to-2=-71
 - 4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
 - Uniform Loads (plf)
 - Vert: 3-4=-20
 - Trapezoidal Loads (plf)
 - Vert: 1=-106-to-2=-61
 - 19) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. 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	Ply	Streets of West Pryor
B400088	J19	Flat	2	1	142113140
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?EwwwXcBeZpQgCxT_9blcOf4VNyvvqAv



Scale = 1:42.3

Plate Offsets (X,Y)-- [1:0-3-12,0-4-12]

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 0.87	Vert(LL)	-0.01	3-4	>999	MT20	197/144
Snow (Pf/Pg) 20.4/20.0	Lumber DOL	1.15	BC 0.14	Vert(CT)	-0.02	3-4	>999		
TCDL 15.0	Rep Stress Incr	NO	WB 0.23	Horz(CT)	-0.00	3	n/a		
BCLL 0.0 *	Code IBC2018/TPI2014		Matrix-P	Wind(LL)	0.00	4	****	Weight: 28 lb	FT = 10%
BCDL 10.0									

LUMBER-	BRACING-
TOP CHORD 2x6 SPF No.2	TOP CHORD 2-0-0 oc purlins: 1-5, 1-2, except end verticals.
BOT CHORD 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied or 6-10-6 oc bracing.
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.
TOP CHORD 1-4=-561/481, 2-3=-177/270
BOT CHORD 3-4=-743/489
WEBS 1-3=-583/866

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; 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
- 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.
- 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.
- Refer to girder(s) for truss to truss connections.
- 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.
- 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



July 21, 2020

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.

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Streets of West Pryor
B400088	J19	Flat	2	1	I42113140
Job Reference (optional)					

Wheeler Lumber, 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)

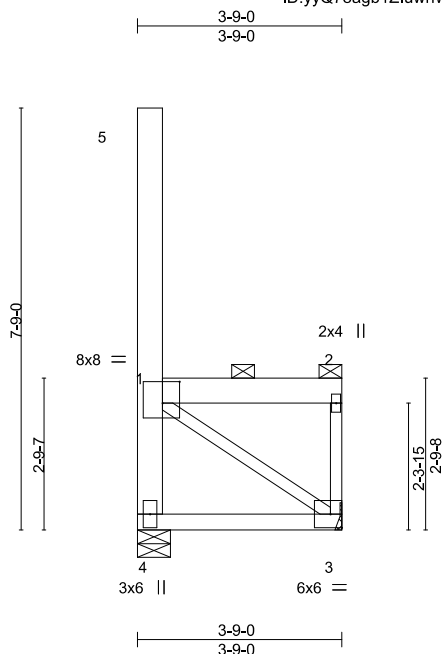
Vert: 1=-130-to-2=-70

Job	Truss	Truss Type	Qty	Ply	Streets of West Pryor
B400088	J20	Flat	2	1	I42113141
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



Scale = 1:42.3

Plate Offsets (X,Y)-- [1:0-3-12,0-4-12]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof) 20.0	Plate Grip DOL	1.15	TC 0.85	Vert(LL)	-0.01	3-4	>999	360	MT20	197/144
Snow (Pf/Pg) 20.4/20.0	Lumber DOL	1.15	BC 0.13	Vert(CT)	-0.02	3-4	>999	240		
TCDL 15.0	Rep Stress Incr	NO	WB 0.23	Horz(CT)	-0.00	3	n/a	n/a		
BCLL 0.0 *	Code IBC2018/TPI2014		Matrix-P	Wind(LL)	0.00	4	****	240		
BCDL 10.0									Weight: 28 lb	FT = 10%

LUMBER-	BRACING-
TOP CHORD 2x6 SPF No.2	TOP CHORD 2-0-0 oc purlins: 1-5, 1-2, except end verticals.
BOT CHORD 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied or 6-10-15 oc bracing.
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.
TOP CHORD 1-4=-557/482, 2-3=-176/269
BOT CHORD 3-4=-733/481
WEBS 1-3=-577/858

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; 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
- 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.
- 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.
- Refer to girder(s) for truss to truss connections.
- 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.
- 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



July 21, 2020

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.

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Streets of West Pryor
B400088	J20	Flat	2	1	I42113141
Job Reference (optional)					

Wheeler Lumber, Waverly, KS - 66871,

8.410 s May 22 2020 MiTek Industries, Inc. Tue Jul 21 13:45:40 2020 Page 2
ID:yyQ78agb1ZluwnWc1etTPnz53bT-KN8MZbLCcMA3wh8?tuuxIxT9ufPEkOYfluXw3SyyvqAf

- 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)

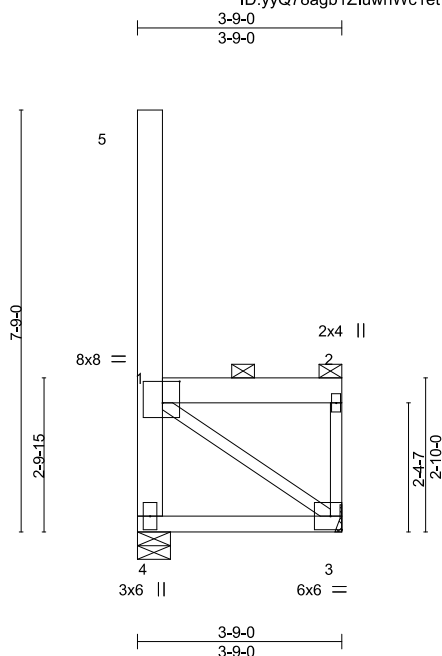
Vert: 1=-130-to-2=-70

Job	Truss	Truss Type	Qty	Ply	Streets of West Pryor
B400088	J21	Flat	2	1	I42113142
Job Reference (optional)					

Wheeler Lumber, Waverly, KS - 66871,

8.410 s May 22 2020 MiTek Industries, Inc. Tue Jul 21 13:45:44 2020 Page 1

ID:yyQ78agb1ZluwnWc1etTPnz53bT-D9NtPzOjgbgVOISm6kztSner9GmBgCXFDWV8CDYvqAb



Scale = 1:42.3

Plate Offsets (X,Y)-- [1:0-3-12,0-4-12]

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 0.84	Vert(LL)	-0.01	3-4	>999	360	MT20
Snow (Pf/Pg) 20.4/20.0	Lumber DOL	1.15	BC 0.13	Vert(CT)	-0.02	3-4	>999	240	197/144
TCDL 15.0	Rep Stress Incr	NO	WB 0.23	Horz(CT)	-0.00	3	n/a	n/a	
BCLL 0.0 *	Code IBC2018/TPI2014		Matrix-P	Wind(LL)	0.00	4	****	240	
BCDL 10.0									
								Weight: 28 lb	FT = 10%

LUMBER-	BRACING-
TOP CHORD 2x6 SPF No.2	TOP CHORD 2-0-0 oc purlins: 1-5, 1-2, except end verticals.
BOT CHORD 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied or 6-11-8 oc bracing.
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-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; 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
- 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.
- 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.
- Refer to girder(s) for truss to truss connections.
- 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.
- 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



July 21, 2020

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.

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Streets of West Pryor
B400088	J21	Flat	2	1	I42113142
Job Reference (optional)					

Wheeler Lumber, Waverly, KS - 66871,

8.410 s May 22 2020 MiTek Industries, Inc. Tue Jul 21 13:45:44 2020 Page 2
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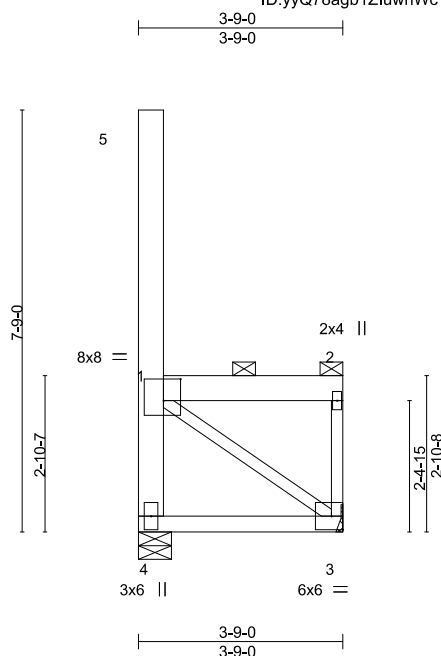
- LOAD CASE(S)** Standard
- Trapezoidal Loads (plf)
 - Vert: 1=-131-to-2=-71
 - 4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
 - Uniform Loads (plf)
 - Vert: 3-4=-20
 - Trapezoidal Loads (plf)
 - Vert: 1=-106-to-2=-61
 - 19) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. 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	Ply	Streets of West Pryor
B400088	J22	Flat	2	1	I42113143
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



Scale = 1:42.3

Plate Offsets (X,Y)-- [1:0-3-12,0-4-12]

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 0.82	Vert(LL)	-0.01	3-4	>999	MT20	197/144
Snow (Pf/Pg) 20.4/20.0	Lumber DOL	1.15	BC 0.13	Vert(CT)	-0.02	3-4	>999		
TCDL 15.0	Rep Stress Incr	NO	WB 0.23	Horz(CT)	-0.00	3	n/a		
BCLL 0.0 *	Code IBC2018/TPI2014		Matrix-P	Wind(LL)	0.00	4	****		
BCDL 10.0								Weight: 28 lb	FT = 10%

LUMBER-	BRACING-
TOP CHORD 2x6 SPF No.2	TOP CHORD 2-0-0 oc purlins: 1-5, 1-2, except end verticals.
BOT CHORD 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied or 7-0-1 oc bracing.
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.
TOP CHORD 1-4=-549/484, 2-3=-175/267
BOT CHORD 3-4=-714/467
WEBS 1-3=-566/843

- 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) TCCL: 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

Continued on page 2

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Streets of West Pryor
B400088	J22	Flat	2	1	I42113143
Job Reference (optional)					

Wheeler Lumber, Waverly, KS - 66871,

8.410 s May 22 2020 MiTek Industries, Inc. Tue Jul 21 13:45:46 2020 Page 2
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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

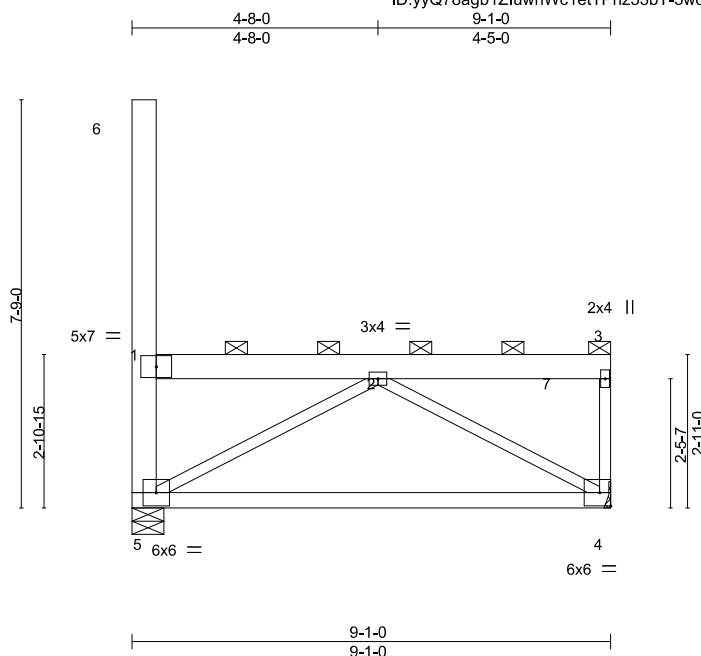
Trapezoidal Loads (plf)

Vert: 1=-130-to-2=-70

Job	Truss	Truss Type	Qty	Ply	Streets of West Pryor
B400088	J23	Flat	1	1	142113144
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



Scale = 1:43.7

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.75	Vert(LL)	-0.20	4-5	>524	MT20	197/144
Snow (Pf/Pg) 20.4/20.0	Plate Grip DOL 1.15	BC 0.66	Vert(CT)	-0.40	4-5	>262		
TCDL 15.0	Lumber DOL 1.15	WB 0.41	Horz(CT)	-0.01	4	n/a		
BCLL 0.0 *	Rep Stress Incr NO	Matrix-S	Wind(LL)	-0.01	4-5	>999		
BCDL 10.0	Code IBC2018/TPI2014						Weight: 49 lb	FT = 10%

LUMBER-

TOP CHORD 2x6 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x3 SPF No.2 *Except*
5-6: 2x6 SPF No.2

BRACING-

TOP CHORD 2-0-0 oc purlins (6-0-0 max.); 1-6, 1-3, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-4-13 oc bracing.

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.

TOP CHORD 1-5=-253/193, 1-2=-531/630
BOT CHORD 4-5=-770/607
WEBS 2-5=-534/580, 2-4=-665/871

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; 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
- 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.
- 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.
- Refer to girder(s) for truss to truss connections.
- 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.
- 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.
- 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: 3-7=-71, 4-5=-20



July 21, 2020

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 **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
B400088	J23	Flat	1	1	I42113144
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 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

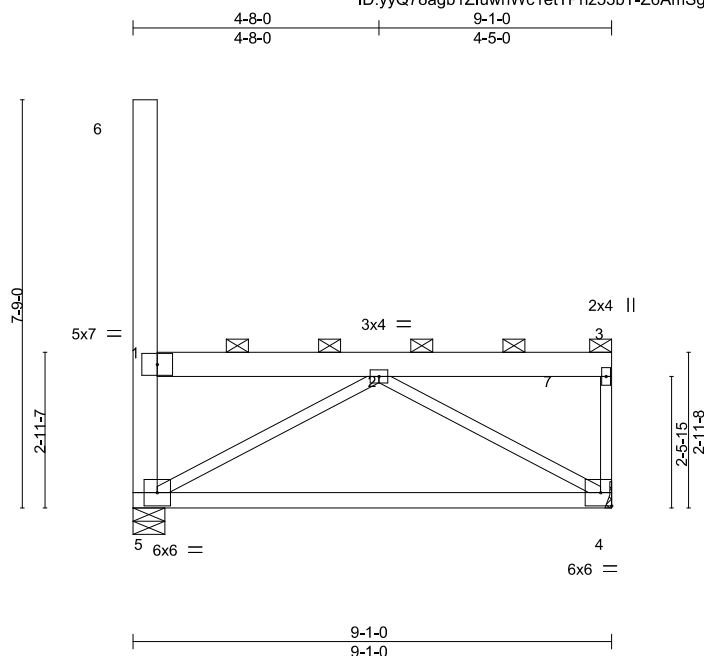
Uniform Loads (plf)

Vert: 3-7=-70, 4-5=-20

Trapezoidal Loads (plf)

Vert: 1=-130-to-7=-70

8.410 s May 22 2020 MiTek Industries, Inc. Tue Jul 21 13:45:49 2020 Page 1
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[illegible]

LUMBER-

TOP CHORD 2x6 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x3 SPF No.2 *Except*
5-6: 2x6 SPF No.2

BRACING-

TOP CHORD	2-0-0 oc purlins (6-0-0 max.): 1-6, 1-3, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 6-5-6 oc bracing.

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.

TOP CHORD 1-5=-253/192, 1-2=-522/619
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) TLL: ASCE 7-16; P=20.0 psf (roof Lf: 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 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



Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCS1 Building Component Safety Information** available from Truss Plate Institute, 2602 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	J24	Flat	1	1	I42113145
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 2
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- 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)

Vert: 1=-130-to-7=-70

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Structural drawing of a roof truss system. The drawing includes the following components and dimensions:

- Dimensions:**
 - Overall width: 4-8-0 (left half) and 9-1-0 (right half), totaling 13-9-0.
 - Overall height: 7-9-0.
 - Truss height: 2-11+15.
 - Truss depth: 2-6-7 and 3-0-0.
 - Truss spacing: 9-1-0 and 9-1-0, totaling 18-2-0.
- Components:**
 - 6**: Vertical support on the left.
 - 5x7 =**: Horizontal member on the left.
 - 3x4 =**: Horizontal member in the center.
 - 2x4 ||**: Horizontal member on the right.
 - 1**: Vertical support on the left.
 - 3**: Vertical support on the right.
 - 4**: Vertical support on the right.
 - 5**: Vertical support on the left.
 - 6x6 =**: Horizontal member on the left.
 - 6x6 =**: Horizontal member on the right.
- Connections:**
 - Diagonal bracing connects the top and bottom members.
 - Various gusset plates and connections are indicated by 'X' marks and lines.

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 0.72	Vert(LL) -0.20 4-5 >522 360	MT20	197/144
Snow (Pf/Pg) 20.4/20.0		Lumber DOL 1.15	BC 0.66	Vert(CT) -0.40 4-5 >261 240		
TCDL 15.0		Rep Stress Incr NO	WB 0.40	Horz(CT) -0.01 4 n/a n/a		
BCLL 0.0 *		Code IBC2018/TPI2014	Matrix-S	Wind(LL) -0.01 4-5 >999 240	Weight: 49 lb	FT = 10%
BCDL 10.0						

LUMBER-

TOP CHORD 2x6 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x3 SPF No.2 *Except*
5-6: 2x6 SPF No.2

BRACING-

TOP CHORD	2-0-0 oc purlins (6-0-0 max.): 1-6, 1-3, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 6-5-15 oc bracing.

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.

TOP CHORD 1-5=-252/191, 1-2=-513/608
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) TLL: ASCE 7-16; P=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 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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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Streets of West Pryor
B400088	J25	Flat	1	1	I42113146
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 2
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- 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)

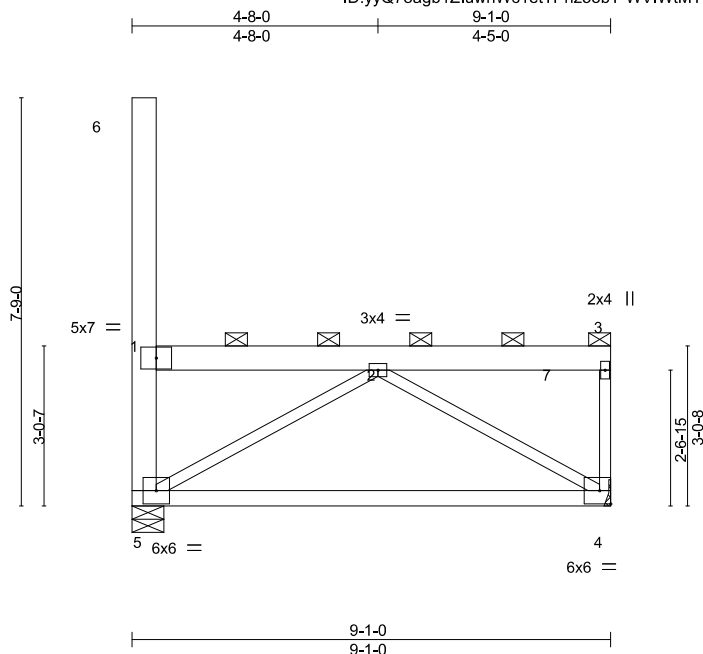
Vert: 1=-130-to-7=-70

Job	Truss	Truss Type	Qty	Ply	Streets of West Pryor
B400088	J26	Flat	1	1	142113147
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

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Scale = 1:43.7

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.70	Vert(LL)	-0.20	4-5	>521	MT20	197/144
Snow (Pf/Pg) 20.4/20.0	Plate Grip DOL 1.15	BC 0.66	Vert(CT)	-0.40	4-5	>261		
TCDL 15.0	Lumber DOL 1.15	WB 0.40	Horz(CT)	-0.01	4	n/a		
BCLL 0.0 *	Rep Stress Incr NO	Matrix-S	Wind(LL)	-0.01	4-5	>999		
BCDL 10.0	Code IBC2018/TPI2014						Weight: 49 lb	FT = 10%

LUMBER-

TOP CHORD 2x6 SPF No.2
 BOT CHORD 2x4 SPF No.2
 WEBS 2x3 SPF No.2 *Except*
 5-6: 2x6 SPF No.2

BRACING-

TOP CHORD 2-0-0 oc purlins (6-0-0 max.); 1-6, 1-3, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 6-6-7 oc bracing.

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.

TOP CHORD 1-5=-252/191, 1-2=-504/598
 BOT CHORD 4-5=-738/580
 WEBS 2-5=-517/565, 2-4=-643/843

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; 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
- 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.
- 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.
- Refer to girder(s) for truss to truss connections.
- 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.
- 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.
- 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: 3-7=-71, 4-5=-20



July 21, 2020

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.

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16023 Swingley Ridge Rd
 Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Streets of West Pryor
B400088	J26	Flat	1	1	I42113147
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 2
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- 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)

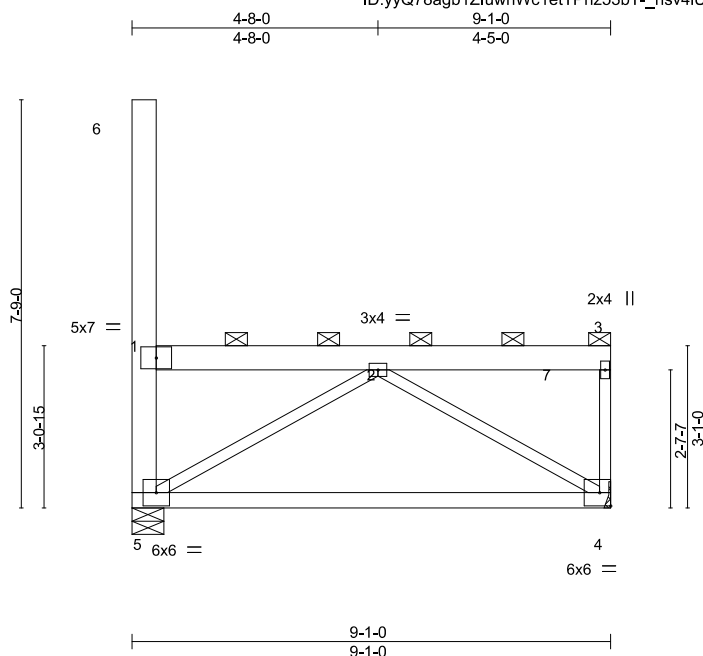
Vert: 1=-130-to-7=-70

Job	Truss	Truss Type	Qty	Ply	Streets of West Pryor
B400088	J27	Flat	1	1	142113148
Job Reference (optional)					

Wheeler Lumber, Waverly, KS - 66871,

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ID:yyQ78agb1ZluwnWc1etTPnz53bT-_hsv4iUkn2gMMX3laQ6lnTzFUUNmYmIQ2IRZUmyvqAT



Scale = 1:43.7

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.69	Vert(LL)	-0.20	4-5	>520	360	MT20
Snow (Pf/Pg) 20.4/20.0	Plate Grip DOL 1.15	BC 0.66	Vert(CT)	-0.40	4-5	>260	240	197/144
TCDL 15.0	Lumber DOL 1.15	WB 0.40	Horz(CT)	-0.01	4	n/a	n/a	
BCLL 0.0 *	Rep Stress Incr NO	Matrix-S	Wind(LL)	-0.01	4-5	>999	240	
BCDL 10.0	Code IBC2018/TPI2014							
							Weight: 49 lb	FT = 10%

LUMBER-

TOP CHORD 2x6 SPF No.2
 BOT CHORD 2x4 SPF No.2
 WEBS 2x3 SPF No.2 *Except*
 5-6: 2x6 SPF No.2

BRACING-

TOP CHORD 2-0-0 oc purlins (6-0-0 max.); 1-6, 1-3, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 6-7-0 oc bracing.

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.

TOP CHORD 1-5=-252/190, 1-2=-496/588
 BOT CHORD 4-5=-728/571
 WEBS 2-5=-512/560, 2-4=-636/834

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; 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
- 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.
- 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.
- Refer to girder(s) for truss to truss connections.
- 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.
- 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.
- 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: 3-7=-71, 4-5=-20



July 21, 2020

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.

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16023 Swingley Ridge Rd
 Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Streets of West Pryor
B400088	J27	Flat	1	1	I42113148
Job Reference (optional)					

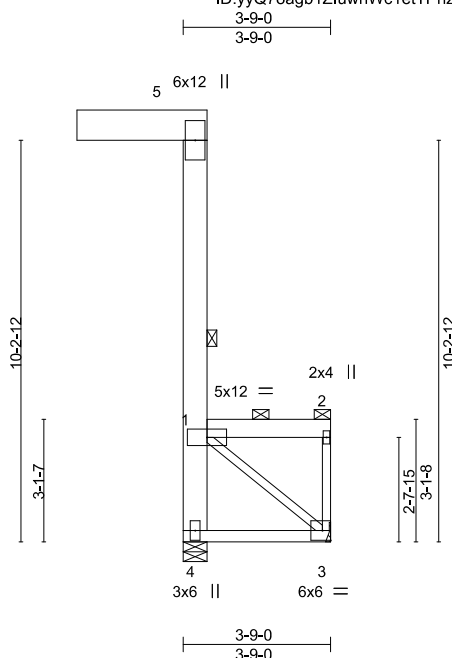
- LOAD CASE(S)**
Standard
- Trapezoidal Loads (plf)
Vert: 1=-131-to-7=-71
- 4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
Vert: 3-7=-61, 4-5=-20
- Trapezoidal Loads (plf)
Vert: 1=-106-to-7=-61
- 19) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. 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)
Vert: 1=-130-to-7=-70

Job	Truss	Truss Type	Qty	Ply	Streets of West Pryor	I42113149
B400088	J28	Flat	2	1	Job Reference (optional)	

Wheeler Lumber, Waverly, KS 66871, Mitek

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ID:yyQ78agb1ZluwnWc1etTPnz53bT-pDDZSqVvcidqAvsxZ0XghnR_UQL0VuUWht70YQyvwJ



Scale = 1:58.7

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.46	Vert(LL)	-0.01 3-4	>999	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 4	****	240	Weight: 59 lb	FT = 10%
BCDL	10.0										

LUMBER-

TOP CHORD 2x6 SPF No.2 *Except*
5-6: 2x10 SP DSS
BOT CHORD 2x4 SPF No.2
WEBS 2x3 SPF No.2 *Except*
4-5: 2x8 SP 2400F 2.0E

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
BOT CHORD Rigid ceiling directly applied or 5-1-4 oc bracing.
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=-1002/793
BOT CHORD 3-4=-1351/949
WEBS 1-3=-1193/1702

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; 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
- 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.
- 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.
- All bearings are assumed to be DF No.2 crushing capacity of 625 psi.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 773 lb uplift at joint 4 and 773 lb uplift at joint 3.
- 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, 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.
- 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



July 21, 2020

Continued on page 2

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Streets of West Pryor	I42113149
B400088	J28	Flat	2	1	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 2
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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

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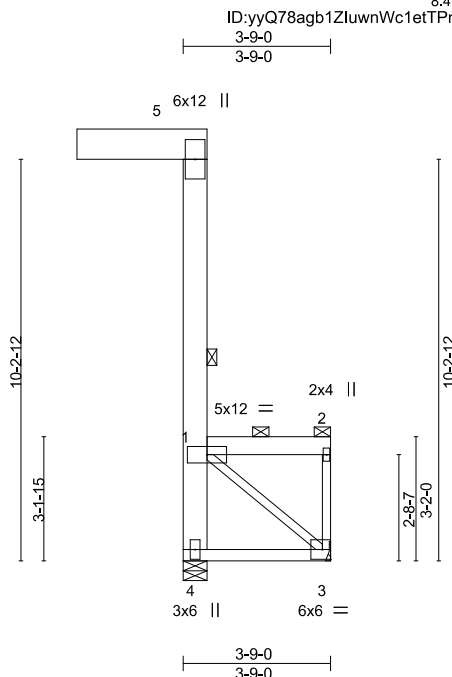


16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Streets of West Pryor	I42113150
B400088	J29	Flat	2	1	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
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Scale = 1:58.7

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.45	Vert(LL) -0.01	3-4	>999	360	MT20	197/144
Snow (Pf/Pg) 20.4/20.0	Plate Grip DOL 1.15	BC 0.21	Vert(CT) -0.01	3-4	>999	240		
TCDL 15.0	Lumber DOL 1.15	WB 0.48	Horz(CT) -0.01	3	n/a	n/a		
BCLL 0.0 *	Rep Stress Incr NO	Matrix-P	Wind(LL) 0.00	4	****	240		
BCDL 10.0	Code IBC2018/TPI2014						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
BOT CHORD 2x4 SPF No.2	10-0-0 oc bracing: 1-5
WEBS 2x3 SPF No.2 *Except*	Rigid ceiling directly applied or 5-1-11 oc bracing.
4-5: 2x8 SP 2400F 2.0E	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

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; 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
 - 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.
 - 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.
 - All bearings are assumed to be DF No.2 crushing capacity of 625 psi.
 - Refer to girder(s) for truss to truss connections.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 773 lb uplift at joint 4 and 773 lb uplift at joint 3.
 - 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, 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.
 - 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

Continued on page 2

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Streets of West Pryor	I42113150
B400088	J29	Flat	2	1	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 2
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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

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

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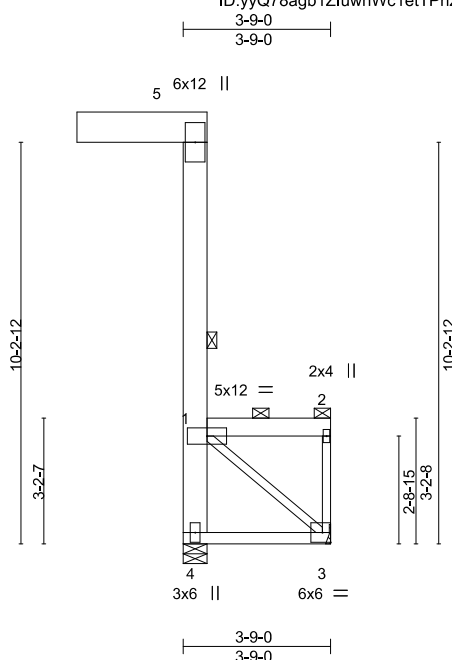
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Streets of West Pryor	I42113151
B400088	J30	Flat	2	1	Job Reference (optional)	

Wheeler Lumber, Waverly, KS 66871, Mitek

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ID:yyQ78agb1ZluwnWc1etPnz53bT-de6GHmKCnXaQR7MPLR37duwsiBTOI8u_yBkrayvov



Scale = 1:58.7

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.44	Vert(LL)	-0.01 3-4	>999	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	0.49	Horz(CT)	-0.01 3	n/a	n/a		
BCLL	0.0 *	Code IBC2018/TPI2014		Matrix-P		Wind(LL)	0.00 4	****	240	Weight: 59 lb	FT = 10%
BCDL	10.0										

LUMBER-

TOP CHORD 2x6 SPF No.2 *Except*
5-6: 2x10 SP DSS
BOT CHORD 2x4 SPF No.2
WEBS 2x3 SPF No.2 *Except*
4-5: 2x8 SP 2400F 2.0E

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
BOT CHORD Rigid ceiling directly applied or 5-2-2 oc bracing.
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

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; 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
- 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.
- 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.
- All bearings are assumed to be DF No.2 crushing capacity of 625 psi.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 772 lb uplift at joint 4 and 772 lb uplift at joint 3.
- 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, 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.
- 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



July 21, 2020

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.

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Streets of West Pryor	I42113151
B400088	J30	Flat	2	1	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 2
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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

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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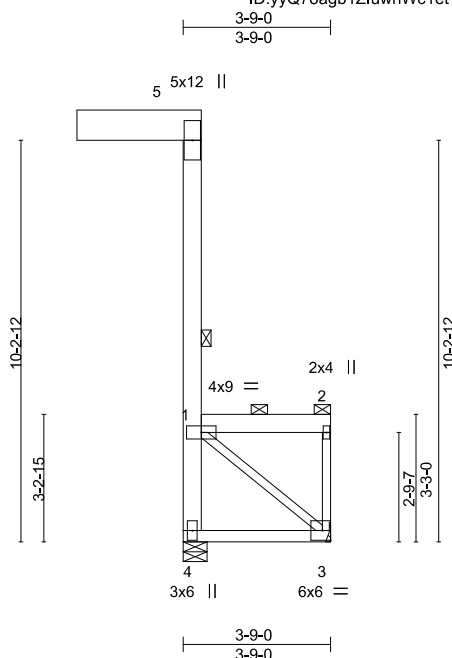


16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Streets of West Pryor	I42113152
B400088	J31	Flat	2	1	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
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Scale = 1:58.7

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.76	Vert(LL) -0.01	3-4	>999	360	MT20	197/144
Snow (Pf/Pg) 20.4/20.0	Plate Grip DOL 1.15	BC 0.21	Vert(CT) -0.02	3-4	>999	240		
TCDL 15.0	Lumber DOL 1.15	WB 0.51	Horz(CT) -0.01	3	n/a	n/a		
BCLL 0.0 *	Rep Stress Incr NO	Matrix-P	Wind(LL) 0.00	4	****	240		
BCDL 10.0	Code IBC2018/TPI2014						Weight: 51 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
BOT CHORD 2x4 SPF No.2	7-3-0 oc bracing: 1-5
WEBS 2x3 SPF No.2 *Except*	Rigid ceiling directly applied or 5-2-8 oc bracing.
4-5: 2x6 SP 2400F 2.0E	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

- 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) 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 joint 3.
 - 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

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.

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Streets of West Pryor	I42113152
B400088	J31	Flat	2	1	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 2
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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

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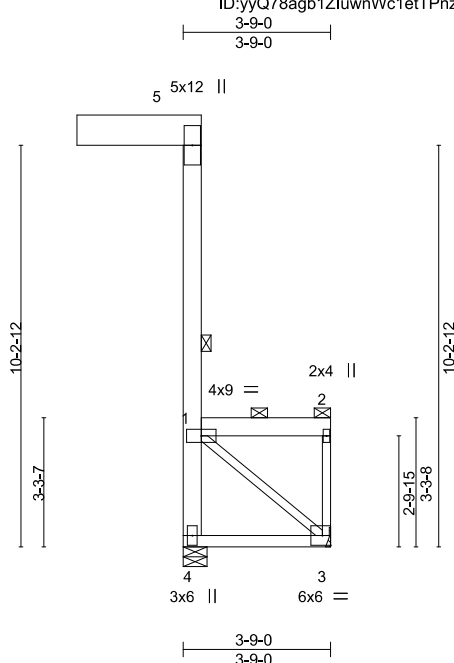


16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Streets of West Pryor	I42113153
B400088	J32	Flat	2	1	Job Reference (optional)	

Wheeler Lumber, Waverly, KS 66871, Mitek

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Scale = 1:58.7

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.75	Vert(LL)	-0.01 3-4	>999	360	MT20	197/144
Snow (Pf/Pg)	20.4/20.0	Lumber DOL	1.15	BC	0.20	Vert(CT)	-0.02 3-4	>999	240		
TCDL	15.0	Rep Stress Incr	NO	WB	0.51	Horz(CT)	-0.01 3	n/a	n/a		
BCLL	0.0 *	Code IBC2018/TPI2014		Matrix-P		Wind(LL)	0.00 4	****	240	Weight: 51 lb	FT = 10%
BCDL	10.0										

LUMBER-

TOP CHORD 2x6 SPF No.2 *Except*
5-6: 2x10 SP DSS
BOT CHORD 2x4 SPF No.2
WEBS 2x3 SPF No.2 *Except*
4-5: 2x6 SP 2400F 2.0E

BRACING-

TOP CHORD 2-0-0 oc purlins: 1-5, 1-2, except end verticals. Except:
6-0-0 oc bracing: 1-4
7-4-0 oc bracing: 1-5
BOT CHORD Rigid ceiling directly applied or 5-2-15 oc bracing.
WEBS 1 Row at midpt 1-5

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

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; 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
- 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.
- 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.
- All bearings are assumed to be DF No.2 crushing capacity of 625 psi.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 755 lb uplift at joint 4 and 755 lb uplift at joint 3.
- 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, 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.
- 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



July 21, 2020

Continued on page 2

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Streets of West Pryor	I42113153
B400088	J32	Flat	2	1	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 2
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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

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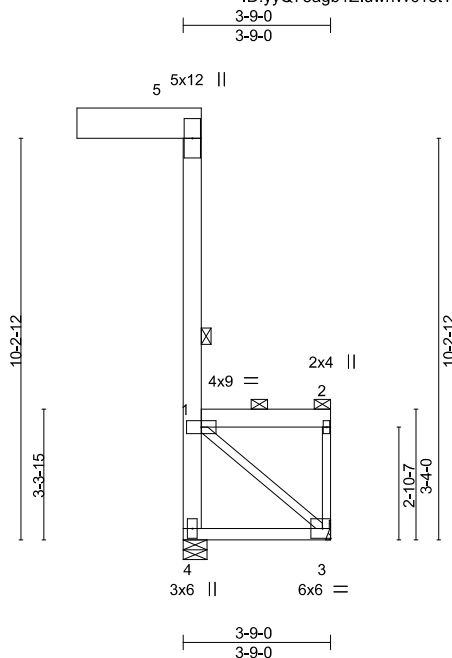
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Streets of West Pryor
B400088	J33	Flat	2	1	I42113154

Wheeler Lumber, Waverly, KS 66871, Mitek

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Scale = 1:58.7

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.74	Vert(LL)	-0.01	3-4	>999	MT20	197/144
Snow (Pf/Pg)	20.4/20.0	Lumber DOL	1.15	BC	0.20	Vert(CT)	-0.02	3-4	>999		
TCDL	15.0	Rep Stress Incr	NO	WB	0.51	Horz(CT)	-0.00	3	n/a		
BCLL	0.0 *	Code IBC2018/TPI2014		Matrix-P		Wind(LL)	0.00	4	****	Weight: 51 lb	FT = 10%
BCDL	10.0										

LUMBER-

TOP CHORD 2x6 SPF No.2 *Except*
5-6: 2x10 SP 2400F 2.0E
BOT CHORD 2x4 SPF No.2
WEBS 2x3 SPF No.2 *Except*
4-5: 2x6 SP 2400F 2.0E

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
BOT CHORD Rigid ceiling directly applied or 5-3-6 oc bracing.
WEBS 1 Row at midpt 1-5

REACTIONS. (lb/size) 4=292/0-7-4, 3=223/Mechanical
Max Horz 4=469(LC 11)
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

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; 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
- 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.
- 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.
- All bearings are assumed to be DF No.2 crushing capacity of 625 psi.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 755 lb uplift at joint 4 and 755 lb uplift at joint 3.
- 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, 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.
- 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



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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.

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Streets of West Pryor	I42113154
B400088	J33	Flat	2	1	Job Reference (optional)	

Wheeler Lumber, Waverly, KS 66871, Mitek

8.410 s May 22 2020 MiTek Industries, Inc. Tue Jul 21 15:12:21 2020 Page 2
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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

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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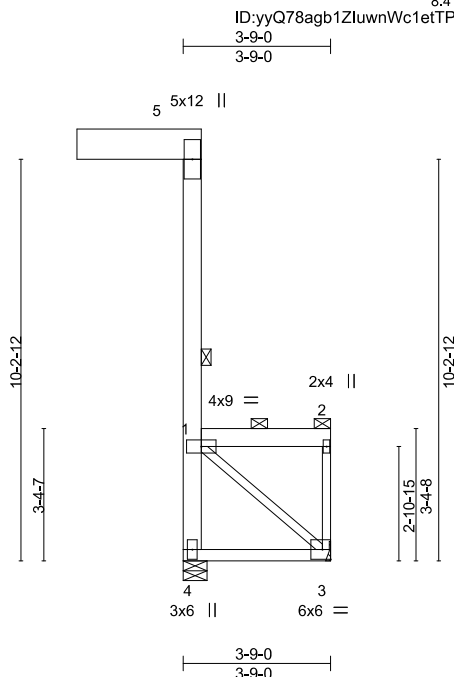


16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Streets of West Pryor	I42113155
B400088	J34	Flat	2	1	Job Reference (optional)	

Wheeler Lumber, Waverly, KS 66871, Mitek

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Scale = 1:58.7

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.74	Vert(LL) -0.01	3-4	>999	360	MT20	197/144
Snow (Pf/Pg) 20.4/20.0	Plate Grip DOL 1.15	BC 0.20	Vert(CT) -0.02	3-4	>999	240		
TCDL 15.0	Lumber DOL 1.15	WB 0.51	Horz(CT) -0.00	3	n/a	n/a		
BCLL 0.0 *	Rep Stress Incr NO	Matrix-P	Wind(LL) 0.00	4	****	240		
BCDL 10.0	Code IBC2018/TPI2014						Weight: 51 lb	FT = 10%

LUMBER-
TOP CHORD 2x6 SPF No.2 *Except*
5-6: 2x10 SP DSS
BOT CHORD 2x4 SPF No.2
WEBS 2x3 SPF No.2 *Except*
4-5: 2x6 SP 2400F 2.0E

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
BOT CHORD Rigid ceiling directly applied or 5-3-12 oc bracing.
WEBS 1 Row at midpt 1-5

REACTIONS. (lb/size) 4=292/0-7-4, 3=223/Mechanical
Max Horz 4=469(LC 13)
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

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; 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
 - 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.
 - 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.
 - All bearings are assumed to be DF No.2 crushing capacity of 625 psi.
 - Refer to girder(s) for truss to truss connections.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 754 lb uplift at joint 4 and 754 lb uplift at joint 3.
 - 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, 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.
 - 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

Continued on page 2

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Streets of West Pryor	I42113155
B400088	J34	Flat	2	1	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 2
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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

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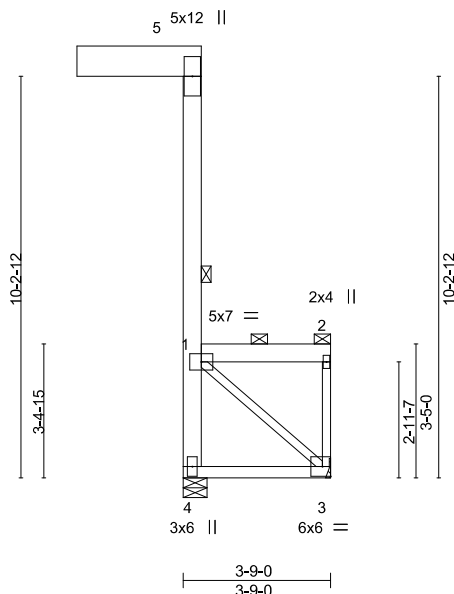


16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Streets of West Pryor	I42113156
B400088	J35	Flat	2	1	Job Reference (optional)	

Wheeler Lumber, Waverly, KS 66871, Mitek

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Scale = 1:58.7

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.73	Vert(LL)	-0.01	3-4	>999	MT20	197/144
Snow (Pf/Pg)	20.4/20.0	Lumber DOL	1.15	BC	0.20	Vert(CT)	-0.02	3-4	>999		
TCDL	15.0	Rep Stress Incr	NO	WB	0.52	Horz(CT)	-0.00	3	n/a		
BCLL	0.0 *	Code IBC2018/TPI2014		Matrix-P		Wind(LL)	0.00	4	****	Weight: 51 lb	FT = 10%
BCDL	10.0										

LUMBER-
TOP CHORD 2x6 SPF No.2 *Except*
5-6: 2x10 SP DSS
BOT CHORD 2x4 SPF No.2
WEBS 2x3 SPF No.2 *Except*
4-5: 2x6 SP 2400F 2.0E

BRACING-
TOP CHORD 2-0-0 oc purlins: 1-5, 1-2, except end verticals. Except:
6-0-0 oc bracing: 1-4
7-9-0 oc bracing: 1-5
BOT CHORD Rigid ceiling directly applied or 5-4-4 oc bracing.
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

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; 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
 - 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.
 - 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.
 - All bearings are assumed to be DF No.2 crushing capacity of 625 psi.
 - Refer to girder(s) for truss to truss connections.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 754 lb uplift at joint 4 and 754 lb uplift at joint 3.
 - 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, 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.
 - 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

Continued on page 2

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Streets of West Pryor	I42113156
B400088	J35	Flat	2	1	Job Reference (optional)	

Wheeler Lumber, Waverly, KS 66871, Mitek

8.410 s May 22 2020 MiTek Industries, Inc. Tue Jul 21 15:12:44 2020 Page 2
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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

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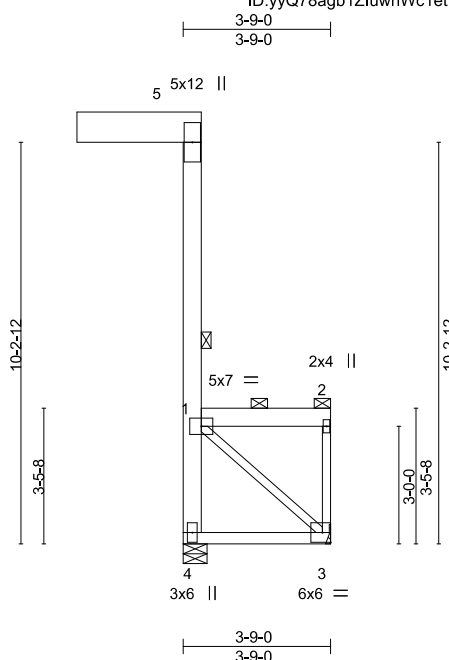


16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Streets of West Pryor
B400088	J36	Flat	2	1	I42113157

Wheeler Lumber, Waverly, KS 66871, Mitek

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8.410 s May 22 2020 MiTek Industries, Inc. Tue Jul 21 15:13:02 2020 Page 1



Scale = 1:58.7

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.72	Vert(LL) -0.01	3-4	>999	360	MT20	197/144
Snow (Pf/Pg) 20.4/20.0	Plate Grip DOL 1.15	BC 0.20	Vert(CT) -0.02	3-4	>999	240		
TCDL 15.0	Lumber DOL 1.15	WB 0.52	Horz(CT) -0.00	3	n/a	n/a		
BCLL 0.0 *	Rep Stress Incr NO	Matrix-P	Wind(LL) 0.00	4	****	240		
BCDL 10.0	Code IBC2018/TPI2014						Weight: 51 lb	FT = 10%

LUMBER-

TOP CHORD 2x6 SPF No.2 *Except*
5-6: 2x10 SP DSS
BOT CHORD 2x4 SPF No.2
WEBS 2x3 SPF No.2 *Except*
4-5: 2x6 SP 2400F 2.0E

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
BOT CHORD Rigid ceiling directly applied or 5-4-10 oc bracing.
WEBS 1 Row at midpt 1-5

REACTIONS. (lb/size) 4=292/0-7-4, 3=223/Mechanical
Max Horz 4=468(LC 11)
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

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; 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
- 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.
- 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.
- All bearings are assumed to be DF No.2 crushing capacity of 625 psi.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 753 lb uplift at joint 4 and 753 lb uplift at joint 3.
- 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, 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.
- 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



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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.

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Streets of West Pryor	I42113157
B400088	J36	Flat	2	1	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 2
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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

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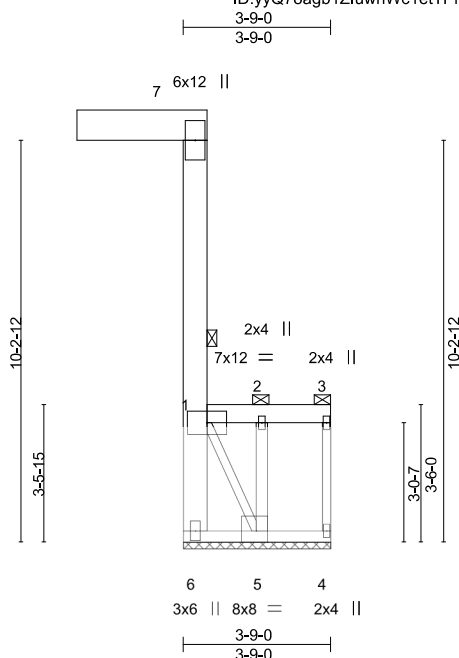


16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Streets of West Pryor	I42113158
B400088	J37	Flat Supported Gable	2	1	Job Reference (optional)	

Wheeler Lumber, Waverly, KS 66871, Mitek

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Scale = 1:58.7

Plate Offsets (X,Y)-- [5:0-3-8,Edge]

LOADING (psf)	SPACING-	2-0-0	CSL	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof) 20.0	Plate Grip DOL	1.15	TC 0.46	Vert(LL)	n/a	-	n/a	999	MT20
Snow (Pf/Pg) 20.4/20.0	Lumber DOL	1.15	BC 0.15	Vert(CT)	n/a	-	n/a	999	197/144
TCDL 15.0	Rep Stress Incr	NO	WB 0.68	Horz(CT)	-0.00	4	n/a	n/a	
BCLL 0.0 *	Code IBC2018/TPI2014		Matrix-P						
BCDL 10.0									
								Weight: 61 lb	FT = 10%

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

BRACING-

TOP CHORD 2-0-0 oc purlins: 1-7, 1-3, except end verticals. Except:
6-0-0 oc bracing: 1-6
10-0-0 oc bracing: 1-7
BOT CHORD Rigid ceiling directly applied or 5-1-7 oc bracing.
WEBS 1 Row at midpt 1-7

REACTIONS.

(lb/size) 6=139/3-9-0, 4=69/3-9-0, 5=292/3-9-0
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
WEBS 1-5=-1686/2765

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; 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
- 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.
- 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.
- Gable requires continuous bottom chord bearing.
- Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- Gable studs spaced at 2-0-0 oc.
- 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.
- All bearings are assumed to be DF No.2 crushing capacity of 625 psi.
- 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.
- 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, 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.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



July 21, 2020

Continued on page 2

LOAD CASE(S) - Standard

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ANSI/TPI 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	I42113158
B400088	J37	Flat Supported Gable	2	1	Job Reference (optional)	

Wheeler Lumber, Waverly, KS 66871, Mitek

8.410 s May 22 2020 MiTek Industries, Inc. Tue Jul 21 15:13:13 2020 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: 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

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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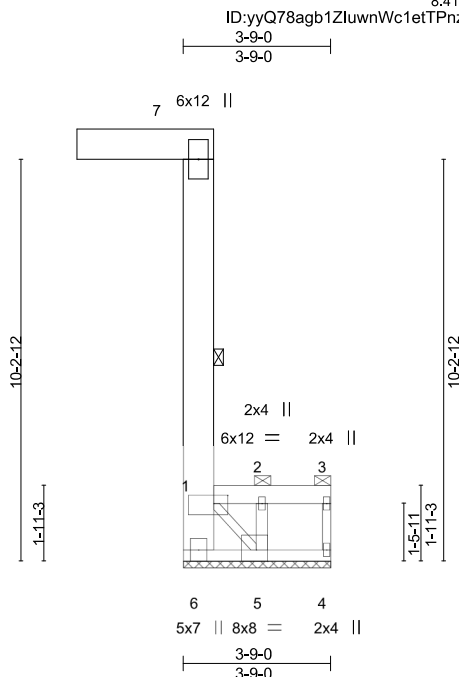
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Streets of West Pryor	I42113159
B400088	J38	Flat Supported Gable	1	1	Job Reference (optional)	

Wheeler Lumber, Waverly, KS 66871, Mitek

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Scale = 1:58.7

Plate Offsets (X,Y)-- [1:0-4-4,0-2-8], [5:0-3-8,Edge]

LOADING (psf)	SPACING-	CSL	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.50	Vert(LL)	n/a	-	n/a	MT20	197/144
Snow (Pf/Pg) 20.4/20.0	Plate Grip DOL 1.15	BC 0.30	Vert(CT)	n/a	-	n/a		
TCDL 15.0	Lumber DOL 1.15	WB 0.91	Horz(CT)	-0.00	4	n/a		
BCLL 0.0 *	Rep Stress Incr NO	Matrix-P						
BCDL 10.0	Code IBC2018/TPI2014						Weight: 66 lb	FT = 10%

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: 2x10 SP 2400F 2.0E
OTHERS 2x4 SPF No.2

BRACING-

TOP CHORD 2-0-0 oc purlins: 1-7, 1-3, except end verticals. Except:
6-0-0 oc bracing: 1-6
8-7-0 oc bracing: 1-7
BOT CHORD Rigid ceiling directly applied or 3-7-11 oc bracing.
WEBS 1 Row at midpt 1-7

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
WEBS 1-5=-2294/3692

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; 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
- 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.
- 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.
- Gable requires continuous bottom chord bearing.
- Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- Gable studs spaced at 2-0-0 oc.
- 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.
- All bearings are assumed to be DF No.2 crushing capacity of 625 psi.
- 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.
- 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, 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.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



July 21, 2020

Continued on page 2

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Streets of West Pryor	I42113159
B400088	J38	Flat Supported Gable	1	1	Job Reference (optional)	

Wheeler Lumber, Waverly, KS 66871, Mitek

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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

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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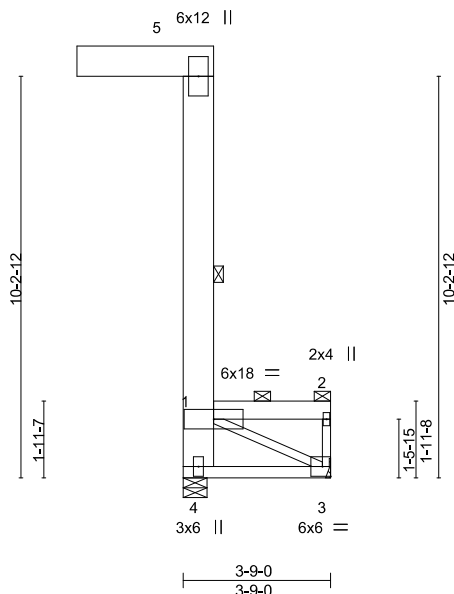


16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Streets of West Pryor	I42113160
B400088	J39	Flat	1	1	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
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Scale = 1:58.7

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.43	Vert(LL)	-0.01 3-4	>999	360	MT20	197/144
Snow (Pf/Pg)	20.4/20.0	Lumber DOL	1.15	BC	0.33	Vert(CT)	-0.01 3-4	>999	240		
TCDL	15.0	Rep Stress Incr	NO	WB	0.63	Horz(CT)	-0.01 3	n/a	n/a		
BCLL	0.0 *	Code IBC2018/TPI2014		Matrix-P		Wind(LL)	0.00 4	****	240	Weight: 66 lb	FT = 10%
BCDL	10.0										

LUMBER-

TOP CHORD 2x6 SPF No.2 *Except*
5-6: 2x10 SP DSS
BOT CHORD 2x4 SPF No.2
WEBS 2x3 SPF No.2 *Except*
4-5: 2x10 SP 2400F 2.0E

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
BOT CHORD Rigid ceiling directly applied or 3-10-12 oc bracing.
WEBS 1 Row at midpt 1-5

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

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; 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; Lumber DOL=1.60 plate grip DOL=1.60
- 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.
- 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.
- All bearings are assumed to be DF No.2 crushing capacity of 625 psi.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 804 lb uplift at joint 4 and 804 lb uplift at joint 3.
- 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, 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.
- 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



July 21, 2020

Continued on page 2

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Streets of West Pryor	I42113160
B400088	J39	Flat	1	1	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 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

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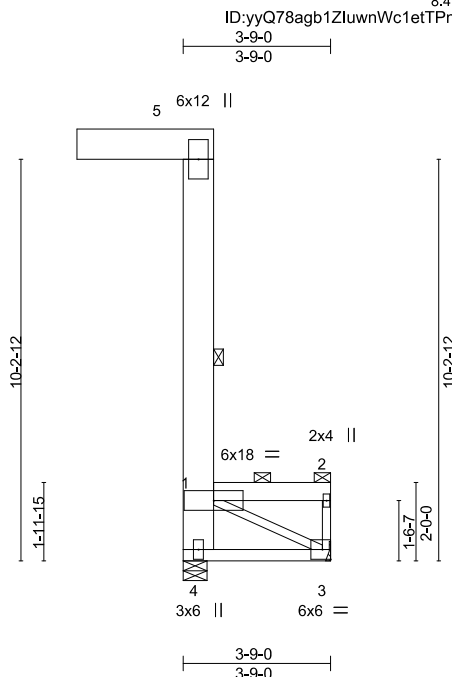


16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Streets of West Pryor	I42113161
B400088	J40	Flat	1	1	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
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Scale = 1:58.7

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.42	Vert(LL)	-0.01 3-4	>999	360	MT20	197/144
Snow (Pf/Pg)	20.4/20.0	Lumber DOL	1.15	BC	0.32	Vert(CT)	-0.01 3-4	>999	240		
TCDL	15.0	Rep Stress Incr	NO	WB	0.62	Horz(CT)	-0.01 3	n/a	n/a		
BCLL	0.0 *	Code IBC2018/TPI2014		Matrix-P		Wind(LL)	0.00 4	****	240		
BCDL	10.0									Weight: 66 lb	FT = 10%

LUMBER-		BRACING-	
TOP CHORD	2x6 SPF No.2 *Except* 5-6: 2x10 SP DSS	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
BOT CHORD	2x4 SPF No.2	BOT CHORD	Rigid ceiling directly applied or 3-11-6 oc bracing.
WEBS	2x3 SPF No.2 *Except* 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

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; 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
 - 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.
 - 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.
 - All bearings are assumed to be DF No.2 crushing capacity of 625 psi.
 - Refer to girder(s) for truss to truss connections.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 803 lb uplift at joint 4 and 803 lb uplift at joint 3.
 - 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, 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.
 - 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

Continued on page 2

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Streets of West Pryor	I42113161
B400088	J40	Flat	1	1	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 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

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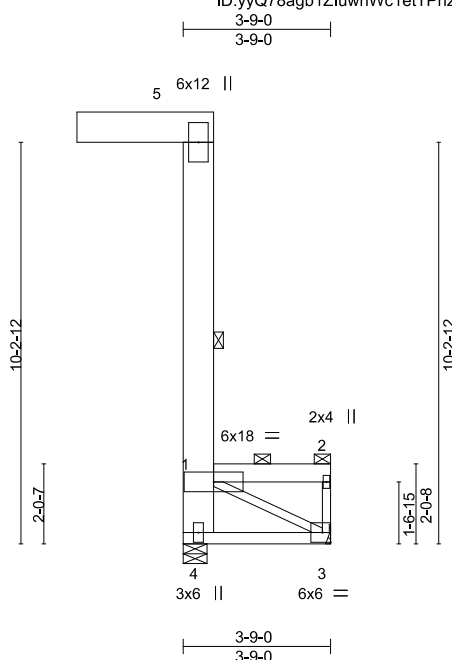


16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Streets of West Pryor	I42113162
B400088	J41	Flat	1	1	Job Reference (optional)	

Wheeler Lumber, Waverly, KS 66871, Mitek

8.410 s May 22 2020 MiTek Industries, Inc. Tue Jul 21 15:14:02 2020 Page 1
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Scale = 1:58.7

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.42	Vert(LL) -0.01	3-4	>999	360	MT20	197/144
Snow (Pf/Pg) 20.4/20.0	Plate Grip DOL 1.15	BC 0.32	Vert(CT) -0.01	3-4	>999	240		
TCDL 15.0	Lumber DOL 1.15	WB 0.60	Horz(CT) -0.01	3	n/a	n/a		
BCLL 0.0 *	Rep Stress Incr NO	Matrix-P	Wind(LL) 0.00	4	****	240		
BCDL 10.0	Code IBC2018/TPI2014						Weight: 66 lb	FT = 10%

LUMBER-
TOP CHORD 2x6 SPF No.2 *Except*
5-6: 2x10 SP DSS
BOT CHORD 2x4 SPF No.2
WEBS 2x3 SPF No.2 *Except*
4-5: 2x10 SP 2400F 2.0E

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
BOT CHORD Rigid ceiling directly applied or 4-0-0 oc bracing.
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

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; 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
 - 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.
 - 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.
 - All bearings are assumed to be DF No.2 crushing capacity of 625 psi.
 - Refer to girder(s) for truss to truss connections.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 803 lb uplift at joint 4 and 803 lb uplift at joint 3.
 - 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, 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.
 - 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

Continued on page 2

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Streets of West Pryor	I42113162
B400088	J41	Flat	1	1	Job Reference (optional)	

Wheeler Lumber, Waverly, KS 66871, Mitek

8.410 s May 22 2020 MiTek Industries, Inc. Tue Jul 21 15:14:02 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

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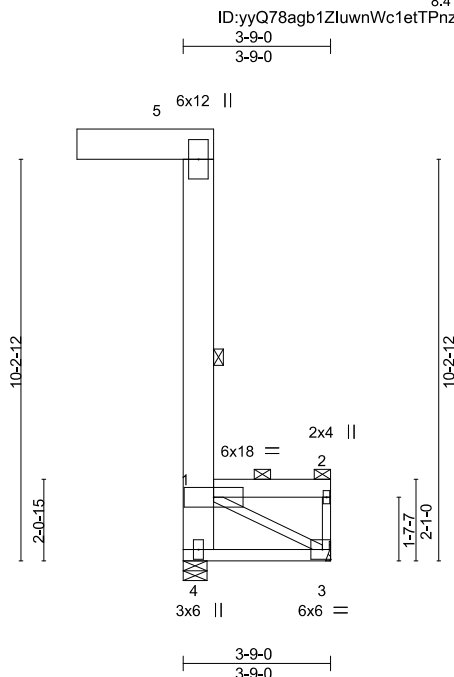
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Streets of West Pryor	I42113163
B400088	J42	Flat	1	1	Job Reference (optional)	

Wheeler Lumber, Waverly, KS 66871, Mitek

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ID:yyQ78agb1ZluwnWc1etPnz53bT-EVAzm_bQtsQHQUbBCr8ECG6ZU9NxY6czTIXg6uyvotc



Scale = 1:58.7

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.41	Vert(LL) -0.01	3-4	>999	360	MT20	197/144
Snow (Pf/Pg) 20.4/20.0	Plate Grip DOL 1.15	BC 0.31	Vert(CT) -0.01	3-4	>999	240		
TCDL 15.0	Lumber DOL 1.15	WB 0.59	Horz(CT) -0.01	3	n/a	n/a		
BCLL 0.0 *	Rep Stress Incr NO	Matrix-P	Wind(LL) 0.00	4	****	240		
BCDL 10.0	Code IBC2018/TPI2014						Weight: 66 lb	FT = 10%

LUMBER-

TOP CHORD 2x6 SPF No.2 *Except*
5-6: 2x10 SP DSS
BOT CHORD 2x4 SPF No.2
WEBS 2x3 SPF No.2 *Except*
4-5: 2x10 SP 2400F 2.0E

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
BOT CHORD Rigid ceiling directly applied or 4-0-10 oc bracing.
WEBS 1 Row at midpt 1-5

REACTIONS. (lb/size) 4=272/0-7-4, 3=210/Mechanical
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

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; 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
- 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.
- 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.
- All bearings are assumed to be DF No.2 crushing capacity of 625 psi.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 803 lb uplift at joint 4 and 803 lb uplift at joint 3.
- 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, 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.
- 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



July 21, 2020

Continued on page 2

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Streets of West Pryor	I42113163
B400088	J42	Flat	1	1	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 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

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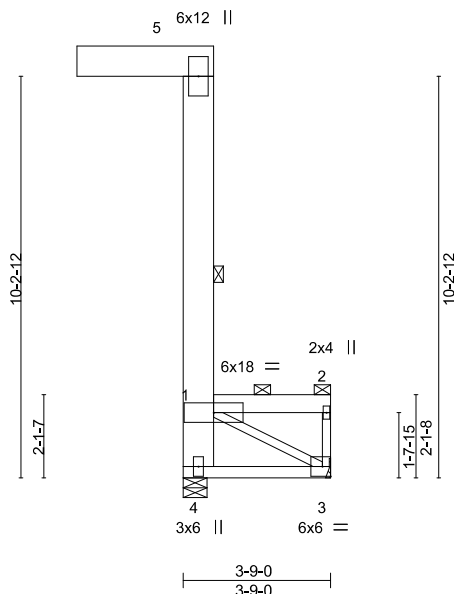


16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Streets of West Pryor	I42113164
B400088	J43	Flat	1	1	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
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Scale = 1:58.7

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.41	Vert(LL)	-0.01 3-4	>999	360	MT20	197/144
Snow (Pf/Pg)	20.4/20.0	Lumber DOL	1.15	BC	0.30	Vert(CT)	-0.01 3-4	>999	240		
TCDL	15.0	Rep Stress Incr	NO	WB	0.58	Horz(CT)	-0.01 3	n/a	n/a		
BCLL	0.0 *	Code IBC2018/TPI2014		Matrix-P		Wind(LL)	0.00 4	****	240	Weight: 66 lb	FT = 10%
BCDL	10.0										

LUMBER-

TOP CHORD 2x6 SPF No.2 *Except*
5-6: 2x10 SP DSS
BOT CHORD 2x4 SPF No.2
WEBS 2x3 SPF No.2 *Except*
4-5: 2x10 SP 2400F 2.0E

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

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; 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 only; Lumber DOL=1.60 plate grip DOL=1.60
- 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.
- 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.
- All bearings are assumed to be DF No.2 crushing capacity of 625 psi.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 802 lb uplift at joint 4 and 802 lb uplift at joint 3.
- 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, 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.
- 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



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Continued on page 2

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Streets of West Pryor	I42113164
B400088	J43	Flat	1	1	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
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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

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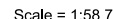
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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Wheeler Lumber, Waverly, KS 66871, Mitek

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LUMBER-
TOP CHORD 2x6 SPF No.2 *Except*
5-6: 2x10 SP DSS
BOT CHORD 2x4 SPF No.2
WEBS 2x3 SPF No.2 *Except*
4-5: 2x10 SP 2400F 2.0E

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
BOT CHORD	Rigid ceiling directly applied or 4-1-12 oc bracing.
WEBS	1 Row at midbt 1-5

REACTIONS. (lb/size) 4=272/0-7-4, 3=210/Mechanical
Max Horz 4=487(LC 11)
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=-1117/822
BOT CHORD 3-4=-2046/1451
WEBS 1-3=-1634/2307

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; P=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 802 lb uplift at joint 4 and 802 lb uplift at joint 3.
- 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



Continued on page 2

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Streets of West Pryor	I42113165
B400088	J44	Flat	1	1	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 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

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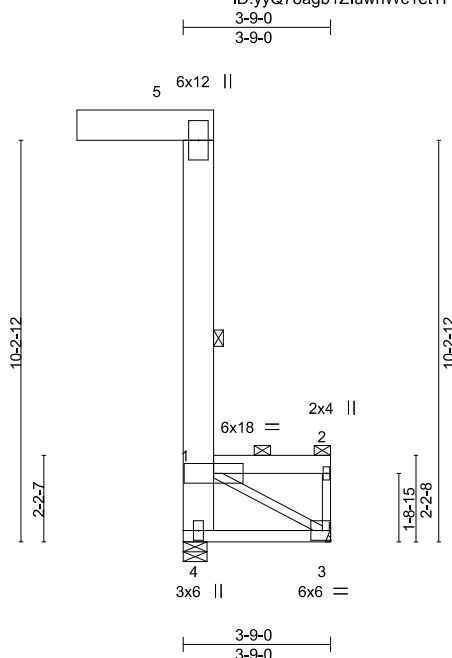


16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Streets of West Pryor	I42113166
B400088	J45	Flat	1	1	Job Reference (optional)	

Wheeler Lumber, Waverly, KS 66871, Mitek

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Scale = 1:58.7

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.40	Vert(LL)	-0.01	3-4	>999	MT20	197/144
Snow (Pf/Pg)	20.4/20.0	Lumber DOL	1.15	BC	0.29	Vert(CT)	-0.01	3-4	>999		
TCDL	15.0	Rep Stress Incr	NO	WB	0.56	Horz(CT)	-0.01	3	n/a		
BCLL	0.0 *	Code IBC2018/TPI2014		Matrix-P		Wind(LL)	0.00	4	****	Weight: 66 lb	FT = 10%
BCDL	10.0										

LUMBER-
TOP CHORD 2x6 SPF No.2 *Except*
5-6: 2x10 SP DSS
BOT CHORD 2x4 SPF No.2
WEBS 2x3 SPF No.2 *Except*
4-5: 2x10 SP 2400F 2.0E

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
BOT CHORD Rigid ceiling directly applied or 4-2-5 oc bracing.
WEBS 1 Row at midpt 1-5

REACTIONS. (lb/size) 4=272/0-7-4, 3=210/Mechanical
Max Horz 4=486(LC 11)
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

- 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) 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 802 lb uplift at joint 4 and 802 lb uplift at joint 3.
 - 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

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.

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Streets of West Pryor	I42113166
B400088	J45	Flat	1	1	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

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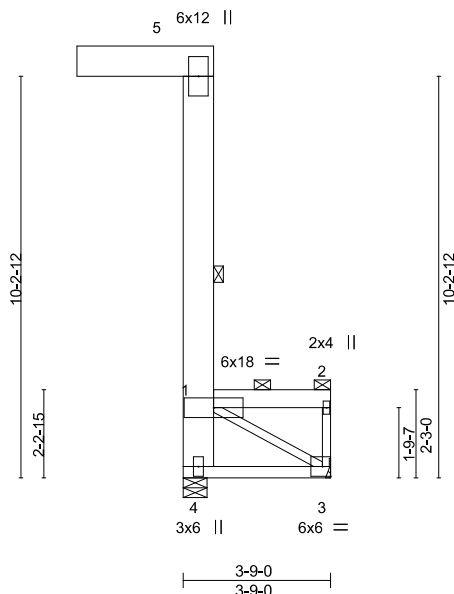


16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Streets of West Pryor	I42113167
B400088	J46	Flat	1	1	Job Reference (optional)	

Wheeler Lumber, Waverly, KS 66871, Mitek

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Scale = 1:58.7

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.39	Vert(LL)	-0.01 3-4	>999	360	MT20	197/144
Snow (Pf/Pg)	20.4/20.0	Lumber DOL	1.15	BC	0.29	Vert(CT)	-0.01 3-4	>999	240		
TCDL	15.0	Rep Stress Incr	NO	WB	0.55	Horz(CT)	-0.01 3	n/a	n/a		
BCLL	0.0 *	Code IBC2018/TPI2014		Matrix-P		Wind(LL)	0.00 4	****	240	Weight: 66 lb	FT = 10%
BCDL	10.0										

LUMBER-

TOP CHORD 2x6 SPF No.2 *Except*
5-6: 2x10 SP DSS
BOT CHORD 2x4 SPF No.2
WEBS 2x3 SPF No.2 *Except*
4-5: 2x10 SP 2400F 2.0E

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
BOT CHORD Rigid ceiling directly applied or 4-2-14 oc bracing.
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

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; 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
- 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.
- 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.
- All bearings are assumed to be DF No.2 crushing capacity of 625 psi.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 801 lb uplift at joint 4 and 801 lb uplift at joint 3.
- 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, 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.
- 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



July 21, 2020

Continued on page 2

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Streets of West Pryor	I42113167
B400088	J46	Flat	1	1	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

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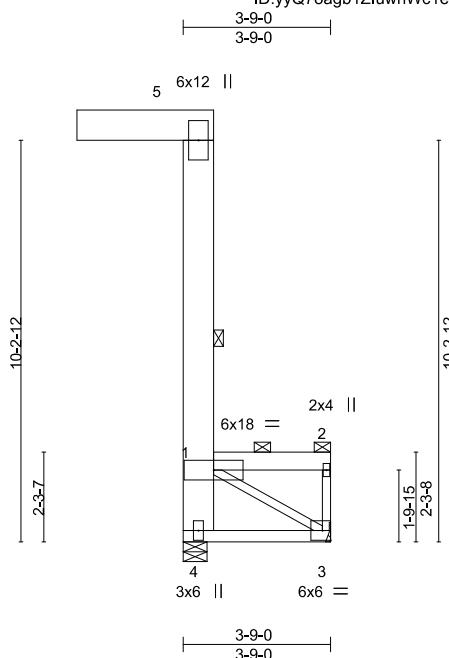


16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Streets of West Pryor	I42113168
B400088	J47	Flat	1	1	Job Reference (optional)	

Wheeler Lumber, Waverly, KS 66871, Mitek

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Scale = 1:58.7

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.39	Vert(LL)	-0.01 3-4	>999	360	MT20	197/144
Snow (Pf/Pg)	20.4/20.0	Lumber DOL	1.15	BC	0.28	Vert(CT)	-0.01 3-4	>999	240		
TCDL	15.0	Rep Stress Incr	NO	WB	0.54	Horz(CT)	-0.01 3	n/a	n/a		
BCLL	0.0 *	Code IBC2018/TPI2014		Matrix-P		Wind(LL)	0.00 4	****	240		
BCDL	10.0									Weight: 66 lb	FT = 10%

LUMBER-
TOP CHORD 2x6 SPF No.2 *Except*
5-6: 2x10 SP DSS
BOT CHORD 2x4 SPF No.2
WEBS 2x3 SPF No.2 *Except*
4-5: 2x10 SP 2400F 2.0E

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
BOT CHORD Rigid ceiling directly applied or 4-3-7 oc bracing.
WEBS 1 Row at midpt 1-5

REACTIONS. (lb/size) 4=272/0-7-4, 3=210/Mechanical
Max Horz 4=-485(LC 10)
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

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; 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 for members; Lumber DOL=1.60 plate grip DOL=1.60
 - 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.
 - 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.
 - All bearings are assumed to be DF No.2 crushing capacity of 625 psi.
 - Refer to girder(s) for truss to truss connections.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 801 lb uplift at joint 4 and 801 lb uplift at joint 3.
 - 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, 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.
 - 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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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Streets of West Pryor	I42113168
B400088	J47	Flat	1	1	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 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

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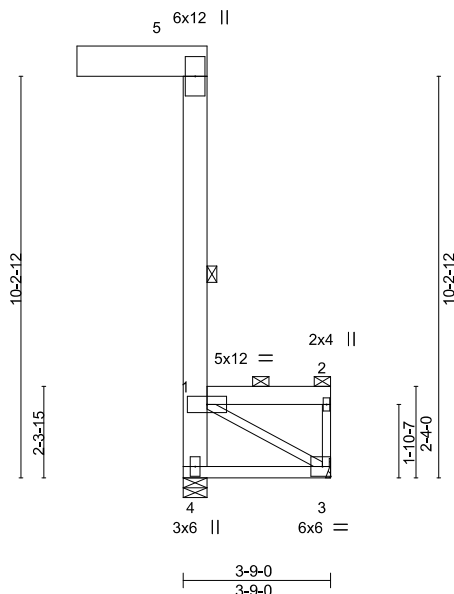


16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Streets of West Pryor	I42113169
B400088	J48	Flat	1	1	Job Reference (optional)	

Wheeler Lumber, Waverly, KS 66871, Mitek

ID:yyQ78agb1ZluwnWc1etTPnz53bT-BzPQSwRKONFMpFxeIYOof20?U9NGoxnvHaBUNaqyvosW
8.410 s May 22 2020 MiTek Industries, Inc. Tue Jul 21 15:15:25 2020 Page 1



Scale = 1:58.7

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.58	Vert(LL)	-0.01	3-4	>999	MT20	197/144
Snow (Pf/Pg)	20.4/20.0	Lumber DOL	1.15	BC	0.28	Vert(CT)	-0.01	3-4	>999		
TCDL	15.0	Rep Stress Incr	NO	WB	0.53	Horz(CT)	-0.01	3	n/a		
BCLL	0.0 *	Code IBC2018/TPI2014		Matrix-P		Wind(LL)	0.00	4	****	Weight: 58 lb	FT = 10%
BCDL	10.0										

LUMBER-
TOP CHORD 2x6 SPF No.2 *Except*
5-6: 2x10 SP DSS
BOT CHORD 2x4 SPF No.2
WEBS 2x3 SPF No.2 *Except*
4-5: 2x8 SP 2400F 2.0E

BRACING-
TOP CHORD 2-0-0 oc purlins: 1-5, 1-2, except end verticals. Except:
6-0-0 oc bracing: 1-4
8-2-0 oc bracing: 1-5
BOT CHORD Rigid ceiling directly applied or 4-3-15 oc bracing.
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

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; 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
 - 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.
 - 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.
 - All bearings are assumed to be DF No.2 crushing capacity of 625 psi.
 - Refer to girder(s) for truss to truss connections.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 781 lb uplift at joint 4 and 781 lb uplift at joint 3.
 - 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, 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.
 - 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



July 21, 2020

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.

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Streets of West Pryor	I42113169
B400088	J48	Flat	1	1	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-BzPQSwRKONFMpFxeIYO20?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

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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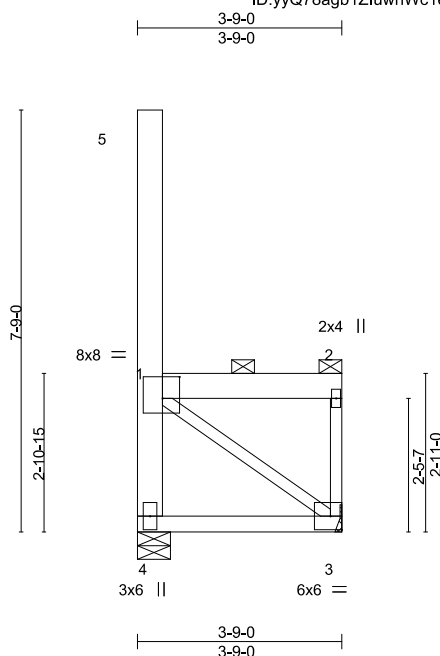
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Streets of West Pryor
B400088	J49	Flat	1	1	142113170
Job Reference (optional)					

Wheeler Lumber, Waverly, KS - 66871,

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ID:yyQ78agb1ZluwnWc1etTPnz53bT-p6lbvZm9M6a5c3JjQI09DJQ9rmLUQDCpLqVHowyvgA6



Scale = 1:42.3

Plate Offsets (X,Y)-- [1:0-3-12,0-4-12]

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 0.80	Vert(LL)	-0.01	3-4	>999	MT20	197/144
Snow (Pf/Pg) 20.4/20.0	Lumber DOL	1.15	BC 0.13	Vert(CT)	-0.02	3-4	>999		
TCDL 15.0	Rep Stress Incr	NO	WB 0.23	Horz(CT)	-0.00	3	n/a		
BCLL 0.0 *	Code IBC2018/TPI2014		Matrix-P	Wind(LL)	0.00	4	****		
BCDL 10.0								Weight: 28 lb	FT = 10%

LUMBER-	BRACING-
TOP CHORD 2x6 SPF No.2	TOP CHORD 2-0-0 oc purlins: 1-5, 1-2, except end verticals.
BOT CHORD 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied or 7-0-10 oc bracing.
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.
TOP CHORD 1-4=-544/486, 2-3=-174/265
BOT CHORD 3-4=-704/460
WEBS 1-3=-561/835

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; 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
- 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.
- 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.
- Refer to girder(s) for truss to truss connections.
- 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.
- 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.
- 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



July 21,2020

Continued on page 2

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Streets of West Pryor
B400088	J49	Flat	1	1	I42113170
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
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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)

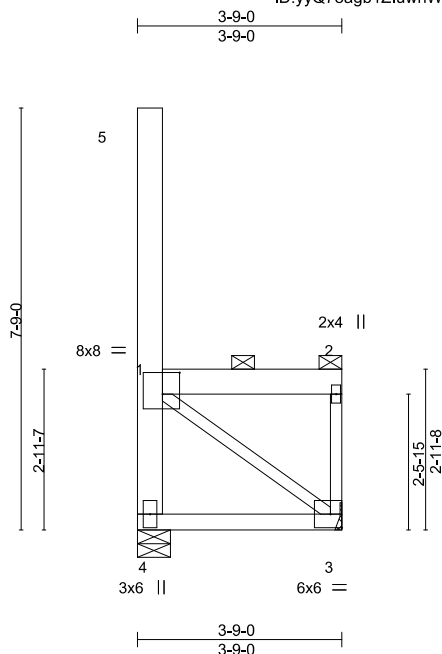
Vert: 1=-130-to-2=-70

Job	Truss	Truss Type	Qty	Ply	Streets of West Pryor
B400088	J50	Flat	1	1	I42113171
Job Reference (optional)					

Wheeler Lumber, Waverly, KS - 66871,

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ID:yyQ78agb1ZluwnWc1etTPnz53bT-JVtLKFoQukqpsNT6XA2dlkVbZ1zu7h5o8?NtpyvqA4



Scale = 1:42.3

Plate Offsets (X,Y)-- [1:0-3-12,0-4-12]

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 0.79	Vert(LL)	-0.01	3-4	>999	MT20	197/144
Snow (Pf/Pg) 20.4/20.0	Lumber DOL	1.15	BC 0.13	Vert(CT)	-0.02	3-4	>999		
TCDL 15.0	Rep Stress Incr	NO	WB 0.23	Horz(CT)	-0.00	3	n/a		
BCLL 0.0 *	Code IBC2018/TPI2014		Matrix-P	Wind(LL)	0.00	4	****		
BCDL 10.0								Weight: 28 lb	FT = 10%

LUMBER-	BRACING-
TOP CHORD 2x6 SPF No.2	TOP CHORD 2-0-0 oc purlins: 1-5, 1-2, except end verticals.
BOT CHORD 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied or 7-1-1 oc bracing.
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

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; 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
- 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.
- 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.
- Refer to girder(s) for truss to truss connections.
- 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.
- 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.
- 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



July 21,2020

Continued on page 2

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Streets of West Pryor
B400088	J50	Flat	1	1	I42113171
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
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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)

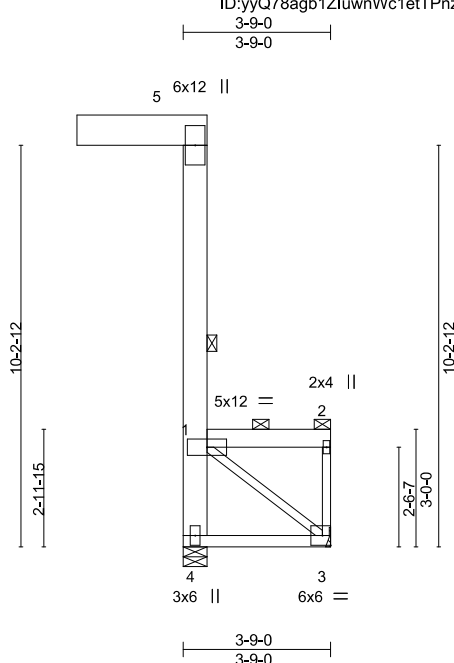
Vert: 1=-130-to-2=-70

Job	Truss	Truss Type	Qty	Ply	Streets of West Pryor	I42113172
B400088	J51	Flat	1	1	Job Reference (optional)	

Wheeler Lumber, Waverly, KS 66871, Mitek

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ID:yyQ78agb1ZluwnWc1etPnz53bT-Frp5c2cks_8E7YbWgC9A9B744QOFyaPU00cgcTyvosH



Scale = 1:58.7

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.47	Vert(LL)	-0.01	3-4	>999	MT20	197/144
Snow (Pf/Pg)	20.4/20.0	Lumber DOL	1.15	BC	0.22	Vert(CT)	-0.01	3-4	>999		
TCDL	15.0	Rep Stress Incr	NO	WB	0.48	Horz(CT)	-0.01	3	n/a		
BCLL	0.0 *	Code IBC2018/TPI2014		Matrix-P		Wind(LL)	0.00	4	****	Weight: 58 lb	FT = 10%
BCDL	10.0										

LUMBER-
TOP CHORD 2x6 SPF No.2 *Except*
5-6: 2x10 SP DSS
BOT CHORD 2x4 SPF No.2
WEBS 2x3 SPF No.2 *Except*
4-5: 2x8 SP 2400F 2.0E

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
BOT CHORD Rigid ceiling directly applied or 4-11-14 oc bracing.
WEBS 1 Row at midpt 1-5

REACTIONS. (lb/size) 4=283/0-7-4, 3=217/Mechanical
Max Horz 4=-474(LC 10)
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

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; 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
 - 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.
 - 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.
 - All bearings are assumed to be DF No.2 crushing capacity of 625 psi.
 - Refer to girder(s) for truss to truss connections.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 775 lb uplift at joint 4 and 775 lb uplift at joint 3.
 - 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, 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.
 - 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

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.

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Streets of West Pryor	I42113172
B400088	J51	Flat	1	1	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 2
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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

 **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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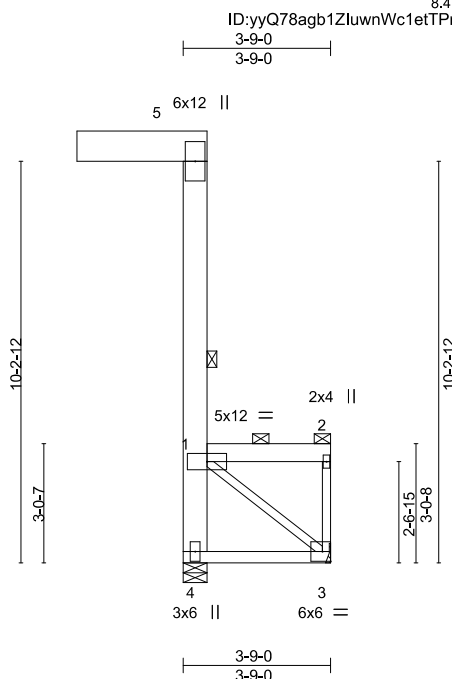


16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Streets of West Pryor	I42113173
B400088	J52	Flat	1	1	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
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Scale = 1:58.7

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.47	Vert(LL)	-0.01	3-4	>999	MT20	197/144
Snow (Pf/Pg)	20.4/20.0	Lumber DOL	1.15	BC	0.22	Vert(CT)	-0.01	3-4	>999		
TCDL	15.0	Rep Stress Incr	NO	WB	0.48	Horz(CT)	-0.01	3	n/a		
BCLL	0.0 *	Code IBC2018/TPI2014		Matrix-P		Wind(LL)	0.00	4	****	Weight: 58 lb	FT = 10%
BCDL	10.0										

LUMBER-
TOP CHORD 2x6 SPF No.2 *Except*
5-6: 2x10 SP DSS
BOT CHORD 2x4 SPF No.2
WEBS 2x3 SPF No.2 *Except*
4-5: 2x8 SP 2400F 2.0E

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
BOT CHORD Rigid ceiling directly applied or 5-0-6 oc bracing.
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

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; 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
 - 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.
 - 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.
 - All bearings are assumed to be DF No.2 crushing capacity of 625 psi.
 - Refer to girder(s) for truss to truss connections.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 774 lb uplift at joint 4 and 774 lb uplift at joint 3.
 - 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, 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.
 - 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



July 21, 2020

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.

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Streets of West Pryor	I42113173
B400088	J52	Flat	1	1	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 2
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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

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Streets of West Pryor	I42113174
B400088	J53	Flat	1	1	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 2
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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

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

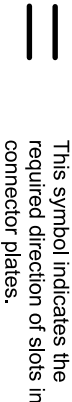
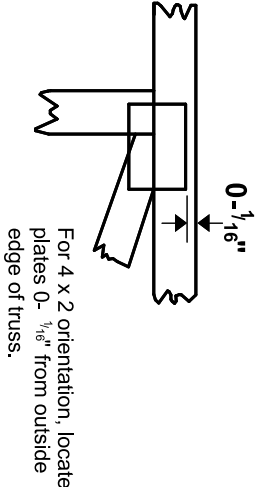
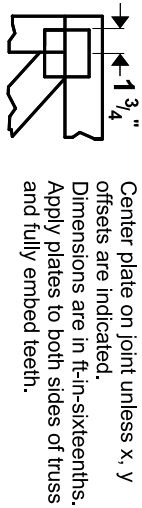
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall 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 **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

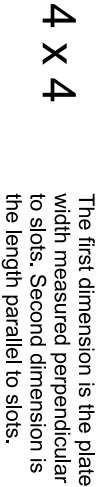
Symbols

PLATE LOCATION AND ORIENTATION

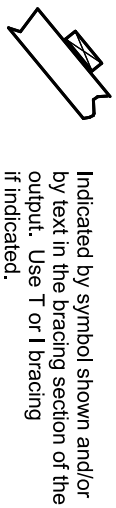


* Plate location details available in **MiTtek 20/20 software** or upon request.

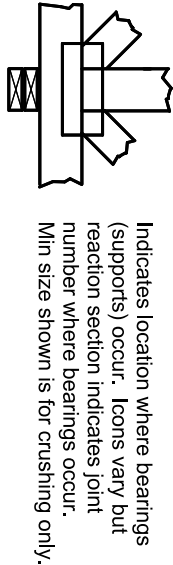
PLATE SIZE



LATERAL BRACING LOCATION

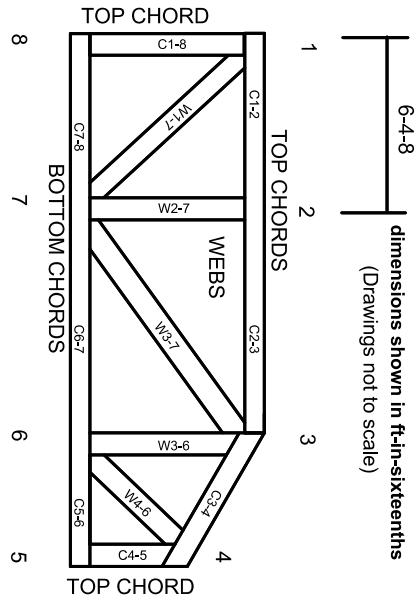


BEARING



Industry Standards:
ANSI/TPI 1: National Design Specification for Metal Plate Connected Wood Truss Construction.
DSB-89: Design Standard for Bracing.
BCSI: Building Component Safety Information, Guide to Good Practice for Handling, 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

Trusses are designed for wind loads in the plane of the truss unless otherwise shown.

Lumber design values are in accordance with ANSI/TPI 1 section 6.3 These truss designs rely on lumber values established by others.

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MiTtek Engineering Reference Sheet: Mill-7473 rev. 5/19/2020

General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

1. Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI.
2. Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves may require bracing, or alternative Tor I bracing should be considered.
3. Never exceed the design loading shown and never stack materials on inadequately braced trusses.
4. Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
5. Cut members to bear tightly against each other.
6. Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TPI 1.
7. Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI 1.
8. Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
9. Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
10. Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
11. Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
12. Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
13. Top chords must be sheathed or purlins provided at spacing indicated on design.
14. Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
15. Connections not shown are the responsibility of others.
16. Do not cut or alter truss member or plate without prior approval of an engineer.
17. Install and load vertically unless indicated otherwise.
18. Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use.
19. Review all portions of this design (front, back, words and pictures) before use. Reviewing pictures alone is not sufficient.
20. Design assumes manufacture in accordance with ANSI/TPI 1 Quality Criteria.
21. The design does not take into account any dynamic or other loads other than those expressly stated.