

RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW **DEVELOPMENT SERVICES** LEE'S SUMMIT, MISSOURI 01/02/2024 9:38:43

RE: P230913

Roof - Osage Lot 67

MiTek, Inc.

16023 Swingley Ridge Rd. Chesterfield, MO 63017

314.434.1200

Site Information:

Customer: Clover and Hive Project Name: P230913 Lot/Block: 67 Model: Wi Model: Wildflower - Farmhouse

Address: 3832 SW Ravengate PI Subdivision: Osage

City: Lee's Summit State: MO

General Truss Engineering Criteria & Design Loads (Individual Truss Design Drawings Show Special **Loading Conditions):**

Design Code: IRC2018/TPI2014 Design Program: MiTek 20/20 8.6

Wind Code: ASCE 7-16 Wind Speed: 115 mph Floor Load: N/A psf Roof Load: 45.0 psf

This package includes 14 individual, dated Truss Design Drawings and 0 Additional Drawings.

No.	Seal#	Truss Name	Date
1	162263990	A01	11/30/2023
2	162263991	A02	11/30/2023
3	162263992	A03	11/30/2023
4	162263993	A04	11/30/2023
5	162263994	A05	11/30/2023
6	162263995	A06	11/30/2023
7	162263996	A07	11/30/2023
8	162263997	A08	11/30/2023
9	162263998	A09	11/30/2023
10	162263999	A10	11/30/2023
11	162264000	A11	11/30/2023
12	162264001	A12	11/30/2023
13	162264002	PB01	11/30/2023
14	162264003	PB02	11/30/2023

The truss drawing(s) referenced above have been prepared by

MiTek USA, Inc under my direct supervision based on the parameters provided by .

Truss Design Engineer's Name: Nathan Fox

My license renewal date for the state of Missouri is December 31, 2024.

Missouri COA: 001193

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. Any project specific information included is for MiTek customers file reference purpose only, and was not taken into account in the preparation of these designs. MiTek 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.



NOTED ON PLANS REVIEW KEL OPMENT SERVICES 3 Supply (Springhill, KS)

Truss Type Qty Ply Roof - Osage Lot 67 162263990 Common Supported Gable Job Reference (optional)

lills. KS - 66083.

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Wed Nov 29 10:48:18 ID:GqalHBL1d133WfnMY0aTwhzaOSF-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f Page: 1

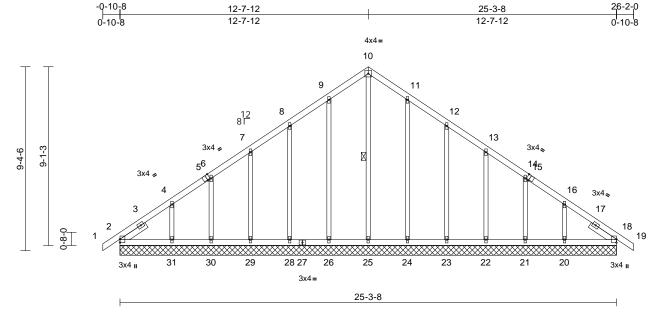


Plate Offsets (X Y):	[5:0-1-12 Edge]	[15:0-1-12 Edge]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.10	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.06	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.21	Horz(CT)	0.01	18	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 135 lb	FT = 20%

LUMBER	
TOP CHORD	2x4 SP No.2
BOT CHORD	2x4 SP No.2
OTHERS	2x3 SPF No.2

SLIDER Left 2x4 SP No.2 -- 1-6-8, Right 2x4 SP No.2 -- 1-6-8

BRACING

Scale = 1:58.7

LIMBER

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins

BOT CHORD Rigid ceiling directly applied or 10-0-0 oc

bracing.

WEBS 1 Row at midpt 10-25 REACTIONS (size)

2=25-3-8, 18=25-3-8, 20=25-3-8, 21=25-3-8, 22=25-3-8, 23=25-3-8,

24=25-3-8, 25=25-3-8, 26=25-3-8, 28=25-3-8, 29=25-3-8, 30=25-3-8, 31=25-3-8

Max Horiz 2=-252 (LC 10)

Max Uplift 2=-62 (LC 8), 18=-6 (LC 9), 20=-132 (LC 13), 21=-64 (LC 13),

22=-80 (LC 13), 23=-83 (LC 13), 24=-69 (LC 13), 26=-73 (LC 12), 28=-82 (LC 12), 29=-81 (LC 12), 30=-62 (LC 12), 31=-142 (LC 12)

Max Grav

2=232 (LC 20), 18=202 (LC 1), 20=250 (LC 20), 21=172 (LC 20), 22=193 (LC 20), 23=189 (LC 20), 24=194 (LC 20), 25=210 (LC 13),

26=198 (LC 19), 28=187 (LC 19), 29=194 (LC 19), 30=169 (LC 19), 31=260 (LC 19)

(lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/16, 2-4=-232/187, 4-6=-173/135 6-7=-159/129, 7-8=-144/154, 8-9=-130/196,

9-10=-164/245, 10-11=-164/245, 11-12=-128/186, 12-13=-89/116, 13-14=-97/59, 14-16=-112/54,

16-18=-179/99, 18-19=0/16 2-31=-85/186, 30-31=-85/186,

29-30=-85/186, 28-29=-85/186, 26-28=-85/186, 25-26=-85/186,

24-25=-85/186, 23-24=-85/186, 22-23=-85/186, 21-22=-85/186, 20-21=-85/186, 18-20=-85/186

10-25=-196/79, 9-26=-157/97, 8-28=-148/106, 7-29=-152/104, 6-30=-136/90, 4-31=-199/162,

11-24=-154/93, 12-23=-149/107 13-22=-151/104, 14-21=-138/90, 16-20=-191/154

NOTES

WEBS

BOT CHORD

- 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=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Corner(3E) -0-10-8 to 4-1-8, Exterior(2N) 4-1-8 to 12-7-12, Corner(3R) 12-7-12 to 17-7-12, Exterior(2N) 17-7-12 to 26-2-0 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
- 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.
- All plates are 1.5x4 MT20 unless otherwise indicated
- Gable requires continuous bottom chord bearing.
- 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.
- All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 62 lb uplift at joint 2, 73 lb uplift at joint 26, 82 lb uplift at joint 28, 81 lb uplift at joint 29, 62 lb uplift at joint 30, 142 lb uplift at joint 31, 69 lb uplift at joint 24, 83 lb uplift at joint 23, 80 Ib uplift at joint 22, 64 lb uplift at joint 21, 132 lb uplift at joint 20 and 6 lb uplift at joint 18.
- 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



November 30,2023

FORCES

NOTED ON PLANS **TEMEW** EXEL QPMENT SER liding Supply (Springhill, KS), Sp. 72024 9:38:43 lills. KS - 66083

Truss Type Qty Ply Roof - Osage Lot 67 162263991 Piggyback Base Structural Gable Job Reference (optional)

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Wed Nov 29 10:48:20 ID:2dalXkejkjCW0VB9WmXKRzzaORs-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

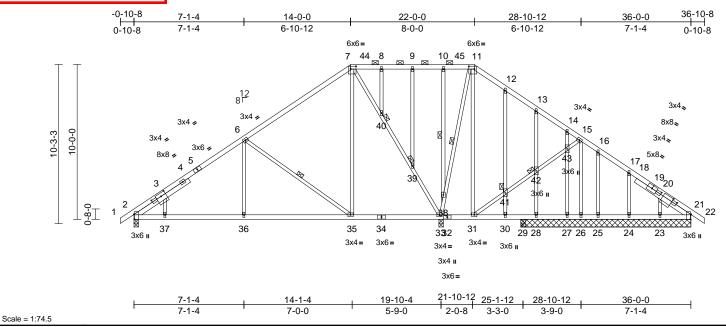


Plate Offsets (X, Y): [2:0-3-13,Edge], [2:1-5-4,0-1-8], [3:0-4-0,0-2-8], [7:0-4-4,0-2-4], [11:0-4-4,0-2-4], [20:1-5-14,0-2-8], [21:0-3-13,Edge], [21:1-1-14,0-1-8], [21:2-4-4,0-1-8]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.66	Vert(LL)	0.08	36-37	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.43	Vert(CT)	-0.11	35-36	>999	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.44	Horz(CT)	0.02	33	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 224 lb	FT = 20%

TOP CHORD 2x4 SP No.2 2x4 SP No.2 **BOT CHORD** 2x3 SPF No.2 WEBS OTHERS 2x3 SPF No 2 SLIDER

LUMBER

BRACING

Left 2x4 SP No.2 -- 4-2-10, Right 2x4 SP

No.2 -- 4-2-10

TOP CHORD Structural wood sheathing directly applied or

5-4-15 oc purlins, except

2-0-0 oc purlins (10-0-0 max.): 7-11. BOT CHORD Rigid ceiling directly applied or 6-0-0 oc

bracing, Except:

10-0-0 oc bracing: 2-37,36-37,35-36,33-35. 6-35, 11-33, 10-38

WEBS 1 Row at midpt

JOINTS 1 Brace at Jt(s): 39,

40, 41, 42

REACTIONS (size)

2=0-3-8 21=11-0-0 23=11-0-0 24=11-0-0, 25=11-0-0, 26=11-0-0,

27=11-0-0, 28=11-0-0, 29=0-3-8, 33=0-3-8

Max Horiz 2=278 (LC 11)

Max Uplift 2=-158 (LC 12), 21=-3 (LC 25), 23=-89 (LC 13), 24=-89 (LC 13), 25=-46 (LC 13), 26=-15 (LC 25),

27=-36 (LC 13), 28=-68 (LC 13), 29=-73 (LC 13), 33=-199 (LC 9)

Max Grav 2=873 (LC 1), 21=120 (LC 26), 23=194 (LC 20), 24=201 (LC 20), 25=152 (LC 20), 26=51 (LC 26),

27=136 (LC 20), 28=128 (LC 20), 29=217 (LC 20), 33=1381 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD

1-2=0/16, 2-3=-1052/95, 3-6=-971/189, 6-7=-480/189, 7-8=-44/229, 8-9=-44/230, 9-10=-44/230, 10-11=-44/230, 11-12=-65/242, 12-13=-53/186,

13-14=-19/164, 14-15=-15/137, 15-16=-6/122, 16-17=-2/123, 17-20=-53/129,

20-21=-129/134, 21-22=0/16

BOT CHORD 2-37=-203/863, 36-37=-199/862,

35-36=-199/862, 33-35=-74/353, 31-33=-134/218, 30-31=-97/141, 29-30=-97/141, 28-29=-97/141, 27-28=-97/141, 26-27=-97/141,

25-26=-97/141, 24-25=-97/141. 23-24=-97/141, 21-23=-94/137

WFBS 6-36=0/281, 6-35=-648/290, 7-35=-83/500, 7-40=-813/171, 39-40=-850/172

33-39=-874/180, 33-38=-529/152 11-38=-243/12, 11-31=-66/77, 31-41=-48/98,

41-42=-43/94, 42-43=-48/96, 15-43=-46/96, 15-26=-49/20, 10-38=-327/170, 9-39=-27/13, 8-40=-44/8, 3-37=-19/96, 12-41=-114/89,

30-41=-103/83, 13-42=-188/122, 28-42=-199/126, 14-43=-93/53, 27-43=-87/52, 16-25=-115/66, 17-24=-161/113, 20-23=-151/113

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=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-10-8 to 4-1-8, Interior (1) 4-1-8 to 14-0-0. Exterior(2R) 14-0-0 to 21-0-14, Interior (1) 21-0-14 to 22-0-0, Exterior(2R) 22-0-0 to 28-10-12. Interior (1) 28-10-12 to 36-10-8 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

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.

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- Provide adequate drainage to prevent water ponding. All plates are 1.5x4 MT20 unless otherwise indicated. 5)
- 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.
- 8) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 158 lb uplift at joint 2, 199 lb uplift at joint 33, 15 lb uplift at joint 26, 3 lb uplift at joint 21, 68 lb uplift at joint 28, 36 lb uplift at joint 27, 46 lb uplift at joint 25, 89 lb uplift at joint 24, 89 lb uplift at joint 23 and 73 lb uplift at joint 29.
- 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



November 30,2023

Continued on page 2

Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not



EASE FOR CONSTRUCTION NOTED ON PLANS REVIEW EXELOPMENT SERVICES Premier Building Supply (Springhill, KS), Spring 01/02/2024 9:38:44 lills, KS - 66083,

Truss Type Piggyback Base Structural Gable Qty

Ply

Roof - Osage Lot 67 Job Reference (optional)

162263991

LOAD CASE(S) Standard

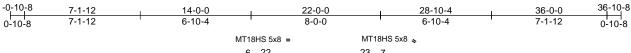
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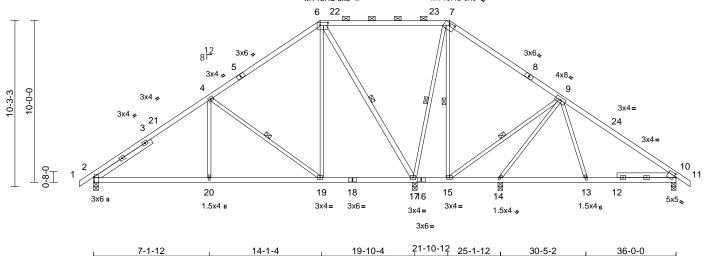
Page: 2

NOTED ON PLANS REVIEW EXELOPMENT SER

Truss Type Qty Ply Roof - Osage Lot 67 162263992 2 Piggyback Base Job Reference (optional)

lills. KS - 66083. Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Wed Nov 29 10:48:21 ID:pA3mDTlkrADOzkoi_SgClfzaORk-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f





Scale = 1:71.2 Plate Offsets (X, Y): [2:0-3-13,Edge], [6:0-5-12,0-2-0], [7:0-4-0,0-1-9], [10:0-1-9,0-2-0]

7-1-12

-			-				•					•
Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defI	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.77	Vert(LL)	-0.06	2-20	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.49	Vert(CT)	-0.13	2-20	>999	180	MT18HS	197/144
BCLL	0.0	Rep Stress Incr	YES	WB	0.56	Horz(CT)	0.02	10	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		·					Weight: 197 lb	FT = 20%

5-9-0

2-0-8

3-3-0

5-3-6

5-6-14

LUMBER

2x4 SP No.2 *Except* 6-7:2x4 SP 1650F TOP CHORD

1.5E

BOT CHORD 2x4 SP No.2

2x3 SPF No.2 *Except* 17-6:2x4 SP No.2 WFBS SLIDER Left 2x4 SP No.2 -- 4-2-15, Right 2x4 SP

No.2 -- 3-7-11

BRACING TOP CHORD

Structural wood sheathing directly applied or

5-3-2 oc purlins, except 2-0-0 oc purlins (10-0-0 max.): 6-7.

BOT CHORD Rigid ceiling directly applied or 10-0-0 oc

bracing, Except:

6-0-0 oc bracing: 15-17,14-15.

WEBS 1 Row at midpt 4-19, 6-17, 7-17, 7-15, 9-15

REACTIONS (size) 2=0-3-8, 10=0-3-8, 14=0-3-8,

17=0-3-8

Max Horiz 2=278 (LC 11)

Max Uplift 2=-164 (LC 12), 10=-135 (LC 13), 14=-123 (LC 13), 17=-133 (LC 12)

Max Grav 2=878 (LC 25), 10=517 (LC 26), 14=556 (LC 26), 17=1490 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension TOP CHORD

1-2=0/16, 2-4=-1040/186, 4-6=-489/203,

6-7=0/284, 7-9=-69/290, 9-10=-504/144,

10-11=0/16

BOT CHORD 2-20=-210/804, 19-20=-210/804,

> 17-19=-143/337, 15-17=-191/212, 14-15=-165/147, 13-14=-12/252

10-13=0/300

WEBS 4-20=0/308, 4-19=-647/288, 6-19=-90/501,

6-17=-949/173, 7-17=-563/121, 7-15=-46/45, 9-15=-67/80, 9-14=-567/232, 9-13=0/261

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=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-10-8 to 4-1-8, Interior (1) 4-1-8 to 14-0-0, Exterior(2R) 14-0-0 to 21-0-14, Interior (1) 21-0-14 to 22-0-0, Exterior(2R) 22-0-0 to 28-11-5, Interior (1) 28-11-5 to 36-10-8 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
- Provide adequate drainage to prevent water ponding.
- All plates are MT20 plates unless otherwise indicated.
- All plates are 3x4 MT20 unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 164 lb uplift at joint 2, 133 lb uplift at joint 17, 123 lb uplift at joint 14 and 135 lb uplift at joint 10.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 10) 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

6-11-8



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NOTED ON PLANS REVIEW YEL OPMENT SER

Truss Type Qty Ply Roof - Osage Lot 67 162263993 5 Piggyback Base Job Reference (optional)

lills. KS - 66083.

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Wed Nov 29 10:48:21 ID:s3TRMbw8Jn6GH1SaM5RkspzaORV-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1

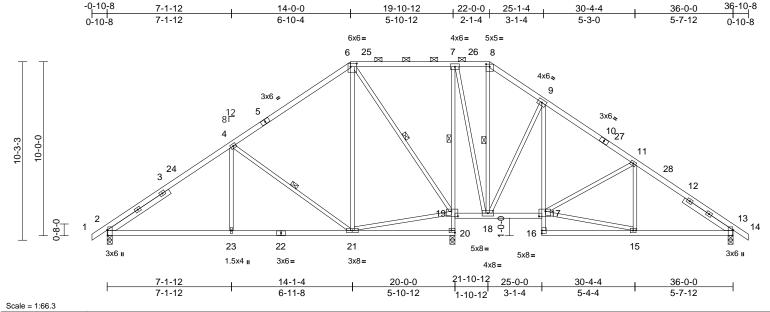


Plate Offsets (X, Y): [2:0-3-13,Edge], [6:0-4-4,0-2-4], [8:0-2-8,0-1-13], [13:0-3-13,Edge], [17:0-4-8,0-3-8], [19:0-4-8,0-3-8], [20:Edge,0-1-8]

												-
Loading	(psf)	Spacing	2-0-0	csı		DEFL	in	(loc)	I/defI	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.67	Vert(LL)	-0.06	2-23	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.50	Vert(CT)	-0.14	2-23	>999	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.82	Horz(CT)	0.03	13	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 207 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2

BOT CHORD 2x4 SP No.2 *Except* 20-7,9-16:2x3 SPF

No.2

WFBS 2x3 SPF No 2

SLIDER Left 2x4 SP No.2 -- 4-2-15, Right 2x4 SP

No.2 -- 3-4-2

BRACING

TOP CHORD Structural wood sheathing directly applied or

5-2-5 oc purlins, except

2-0-0 oc purlins (6-0-0 max.): 6-8. BOT CHORD Rigid ceiling directly applied or 3-8-2 oc

bracing. Except:

1 Row at midpt 7-19

WEBS 1 Row at midpt 4-21, 6-19, 8-18

2=0-3-8, 13=0-3-8, 20=0-3-8 REACTIONS (size)

Max Horiz 2=-277 (LC 10)

Max Uplift 2=-175 (LC 12), 13=-195 (LC 13),

20=-110 (LC 12)

2=920 (LC 25), 13=738 (LC 26), Max Grav

20=1736 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/16, 2-4=-1112/206, 4-6=-560/209,

6-7=-40/218, 7-8=-106/240, 8-9=-160/256, 9-11=-500/240, 11-13=-860/244, 13-14=0/16

BOT CHORD 2-23=-222/880, 21-23=-222/880,

20-21=-12/23, 19-20=-1687/206

7-19=-970/193, 18-19=-172/215,

17-18=0/330, 16-17=0/87, 9-17=-67/398,

15-16=0/30, 13-15=-86/628

WEBS 4-23=0/304, 4-21=-645/288, 6-21=-87/463, 19-21=-117/386, 6-19=-745/153,

7-18=-101/619, 8-18=-98/38, 9-18=-625/248,

15-17=-91/614, 11-17=-385/194,

11-15=-6/170

NOTES

- Unbalanced roof live loads have been considered for
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-10-8 to 4-1-8, Interior (1) 4-1-8 to 14-0-0, Exterior(2R) 14-0-0 to 21-0-14, Interior (1) 21-0-14 to 22-0-0, Exterior(2R) 22-0-0 to 29-0-14. Interior (1) 29-0-14 to 36-10-8 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
- Provide adequate drainage to prevent water ponding.
- All plates are 3x4 MT20 unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 175 lb uplift at joint 2, 110 lb uplift at joint 20 and 195 lb uplift at joint
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 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





RE	LEA	SI	Н	FC	R	-6	30	40	IS	H	RI	JC)	FK	ON	ŀ
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	LEE	''S	S	UI	WH	М	Æ	. 1	И	S	30	H	JF	RI-		li
-	Prem		Sull		n	yu y	Ply	(5	H	ngn)"c	N S	۱)	Sp	ring	ľ

Truss Type Qty Ply Roof - Osage Lot 67 162263994 3 Piggyback Base Job Reference (optional)

IIs KS - 66083

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Wed Nov 29 10:48:22 ID:lqjyCzzfN0chlflLbxWg1fzaORR-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

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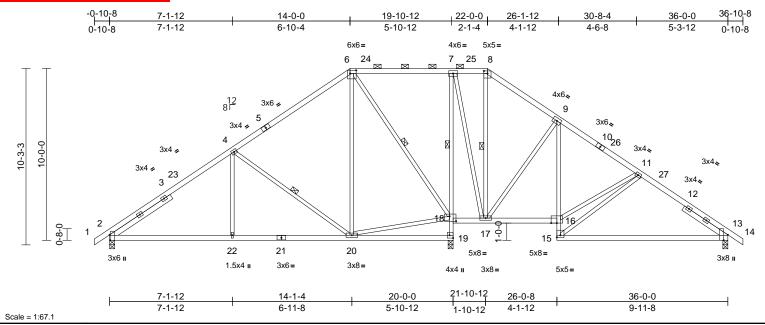


Plate Offsets (X, Y): [2:0-3-13,Edge], [6:0-4-4,0-2-4], [8:0-2-8,0-1-13], [13:0-3-13,Edge], [15:Edge,0-1-8], [18:0-4-8,0-3-8], [19:Edge,0-2-8]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.68	Vert(LL)	-0.30	13-15	>636	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.89	Vert(CT)	-0.62	13-15	>314	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.76	Horz(CT)	0.04	13	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 203 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2

2x4 SP No.2 *Except* 19-7,9-15:2x3 SPF **BOT CHORD**

No.2

WFBS 2x3 SPF No 2

SLIDER Left 2x4 SP No.2 -- 4-2-15, Right 2x4 SP

No.2 -- 3-0-7

BRACING

TOP CHORD Structural wood sheathing directly applied or

5-2-3 oc purlins, except

2-0-0 oc purlins (6-0-0 max.): 6-8 BOT CHORD Rigid ceiling directly applied or 3-7-7 oc

bracing. Except: 1 Row at midpt 7-18

WEBS 1 Row at midpt 4-20, 6-18, 8-17

REACTIONS 2=0-3-8, 13=0-3-8, 19=0-3-8 (size)

Max Horiz 2=-277 (LC 10)

Max Uplift 2=-167 (LC 12), 13=-179 (LC 13),

19=-128 (LC 12)

2=921 (LC 25), 13=708 (LC 26), Max Grav

19=1786 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/16, 2-4=-1114/192, 4-6=-562/189,

> 6-7=-28/206, 7-8=-100/215, 8-9=-125/207 9-11=-513/219, 11-13=-756/258, 13-14=0/16

BOT CHORD 2-22=-210/861, 20-22=-210/861,

19-20=-13/26, 18-19=-1736/222

7-18=-1010/200, 17-18=-217/245 16-17=0/354, 15-16=-57/439, 9-16=-54/357,

13-15=-99/556

WEBS 4-22=0/304, 4-20=-646/289, 6-20=-89/460,

18-20=-117/371, 6-18=-779/165,

7-17=-122/669, 8-17=-109/1, 9-17=-594/247,

11-16=-10/253, 11-15=-544/181

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=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-10-8 to 4-1-8, Interior (1) 4-1-8 to 14-0-0, Exterior(2R) 14-0-0 to 21-0-14, Interior (1) 21-0-14 to 22-0-0, Exterior(2R) 22-0-0 to 29-0-14, Interior (1) 29-0-14 to 36-10-8 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
- 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.
- All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 167 lb uplift at joint 2, 128 lb uplift at joint 19 and 179 lb uplift at joint
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 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



November 30,2023



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not



NOTED ON PLANS REVIEW EXELOPMENT SER

0-10-8

0-10-8

Truss Type Qty Ply Roof - Osage Lot 67 162263995 Piggyback Base Job Reference (optional)

lills. KS - 66083.

7-1-12

7-1-12

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Wed Nov 29 10:48:22 ID:2AebgM32j9Vi5jniWv8Jp8zaORK-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

36-10-8 22-0-0 25-1-4 30-4-4 36-0-0 3-1-4 5-3-0 5-7-12 4-5-8 0-10-8 1-10-12

Page: 1

1-7-12 4x6=

14-0-0

6-10-4

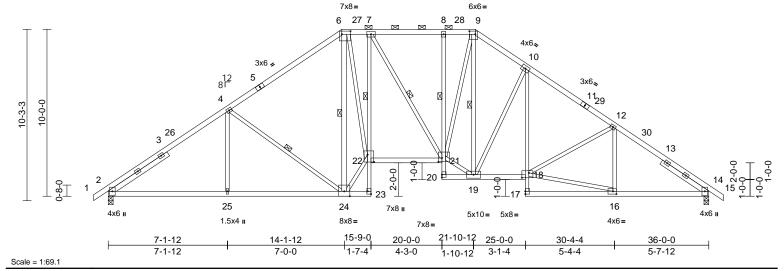


Plate Offsets (X, Y): [2:0-3-5,0-0-15], [6:0-6-4,0-2-4], [9:0-4-4,0-2-4], [14:0-3-5,0-0-15], [16:0-2-8,0-2-0], [18:0-5-0,0-3-8], [21:0-2-8,0-2-1], [22:0-5-4,0-4-8], [23:Edge,0-2-8]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.92	Vert(LL)	-0.19	21-22	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.67	Vert(CT)	-0.36	21-22	>999	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.98	Horz(CT)	0.26	14	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 223 lb	FT = 20%

LUMBER

BRACING

TOP CHORD 2x4 SP No.2

2x4 SP No.2 *Except* 23-7,8-20,10-17:2x3 BOT CHORD

SPF No.2

WFBS 2x3 SPF No.2 *Except* 24-6:2x4 SP No.2 **SLIDER** Left 2x4 SP No.2 -- 4-2-15, Right 2x4 SP

No.2 -- 3-4-2

TOP CHORD Structural wood sheathing directly applied.

except

2-0-0 oc purlins (3-10-3 max.): 6-9. BOT CHORD Rigid ceiling directly applied or 10-0-0 oc

bracing, Except:

6-0-0 oc bracing: 22-23,20-21,19-20.

1 Row at midpt 7-22, 8-21

WEBS 1 Row at midpt 4-24, 6-24, 7-21, 9-19

REACTIONS 2=0-3-8, 14=0-3-8 (size)

Max Horiz 2=-278 (LC 10)

Max Uplift 2=-225 (LC 12), 14=-225 (LC 13)

Max Grav 2=1681 (LC 1), 14=1681 (LC 1) FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD

1-2=0/16, 2-4=-2402/289, 4-6=-1883/325, 6-7=-1850/351, 7-8=-1873/345, 8-9=-1869/345, 9-10=-2002/377

10-12=-2400/341, 12-14=-2433/294

14-15=0/16

BOT CHORD 2-25=-289/1874, 24-25=-289/1874,

23-24=-10/36, 22-23=-74/0, 7-22=-345/256, 21-22=-127/1857, 20-21=-18/6, 8-21=-252/122, 19-20=-18/35, 18-19=-100/1919, 17-18=0/94, 10-18=-73/531, 16-17=-1/93,

14-16=-149/1898

WEBS 4-25=0/295, 4-24=-586/281, 6-24=-1385/147,

22-24=-158/2316, 6-22=-106/2034, 7-21=-128/183, 19-21=-3/1784, 9-21=-202/1152, 9-19=-302/209 10-19=-738/253, 16-18=-151/1849,

12-18=-155/183, 12-16=-296/108

NOTES

- Unbalanced roof live loads have been considered for 1) this design
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-10-8 to 4-1-8, Interior (1) 4-1-8 to 14-0-0. Exterior(2R) 14-0-0 to 21-0-14, Interior (1) 21-0-14 to 22-0-0, Exterior(2R) 22-0-0 to 29-0-14, Interior (1) 29-0-14 to 36-10-8 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
- Provide adequate drainage to prevent water ponding.
- All plates are 3x4 MT20 unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 225 lb uplift at joint 2 and 225 lb uplift at joint 14.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 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



November 30,2023



MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not



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Qty Truss Type Ply Roof - Osage Lot 67 162263996 3 Piggyback Base Job Reference (optional)

ills KS - 66083

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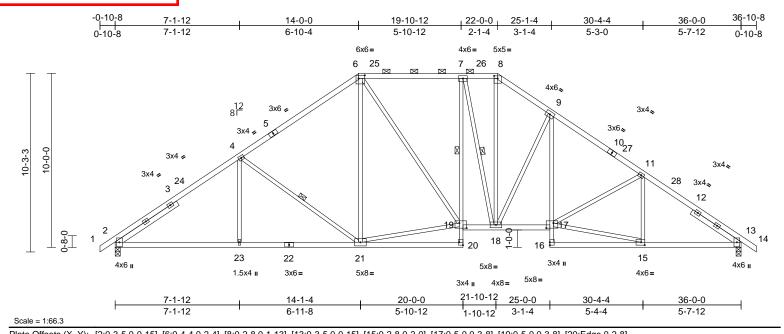


Plate Offsets (X, Y): [2:0-3-5,0-0-15], [6:0-4-4,0-2-4], [8:0-2-8,0-1-13], [13:0-3-5,0-0-15], [15:0-2-8,0-2-0], [17:0-5-0,0-3-8], [19:0-5-0,0-3-8], [20:Edge,0-2-8]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.97	Vert(LL)	-0.13	19	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.62	Vert(CT)	-0.24	20-21	>999	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.98	Horz(CT)	0.14	13	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 207 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2

BOT CHORD 2x4 SP No.2 *Except* 20-7,9-16:2x3 SPF

No.2

WFBS 2x3 SPF No 2

SLIDER Left 2x4 SP No.2 -- 4-2-15, Right 2x4 SP

No.2 -- 3-4-2

BRACING

TOP CHORD Structural wood sheathing directly applied,

except

2-0-0 oc purlins (3-6-12 max.): 6-8 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc

bracing. Except:

1 Row at midpt 7-19

WEBS 1 Row at midpt 4-21, 7-18 REACTIONS (size) 2=0-3-8, 13=0-3-8

Max Horiz 2=-277 (LC 10)

Max Uplift 2=-225 (LC 12), 13=-225 (LC 13) Max Grav 2=1681 (LC 1), 13=1681 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/16, 2-4=-2404/290, 4-6=-1880/325, 6-7=-1695/349, 7-8=-1606/338,

8-9=-1998/375, 9-11=-2400/341, 11-13=-2434/294, 13-14=0/16 **BOT CHORD** 2-23=-290/1875, 21-23=-290/1875, 20-21=0/87, 19-20=0/99, 7-19=-99/221, 18-19=-68/1695, 17-18=-100/1918,

16-17=0/94, 9-17=-72/536, 15-16=-1/92,

13-15=-149/1899

WEBS 4-23=0/296, 4-21=-592/284, 6-21=-71/297, 19-21=-111/1388, 6-19=-131/543,

7-18=-514/223, 8-18=-185/960, 9-18=-735/252, 15-17=-151/1851, 11-17=-156/183. 11-15=-296/108

NOTES

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

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-10-8 to 4-1-8, Interior (1) 4-1-8 to 14-0-0, Exterior(2R) 14-0-0 to 21-0-14, Interior (1) 21-0-14 to 22-0-0, Exterior(2R) 22-0-0 to 29-0-14, Interior (1) 29-0-14 to 36-10-8 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
- Provide adequate drainage to prevent water ponding.
- All plates are 3x4 MT20 unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 225 lb uplift at joint 2 and 225 lb uplift at joint 13.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 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





RELEASE FOR CONSTRUCTION
AS WOTED ON PLANS REVIEW
DEXEL GREEN SUMMIT, MISSOURI
Perpier Building Supply (Springbill KS), Spring to 10 1/0 2/2024 9:38:44

Truss Type Qty Ply Roof - Osage Lot 67
Piggyback Base 2 1 Job Reference (optional)

lills, KS - 66083,

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Wed Nov 29 10:48:23 ID:2RA1EAGijNeHeLbz?_xl?jzaOR3-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

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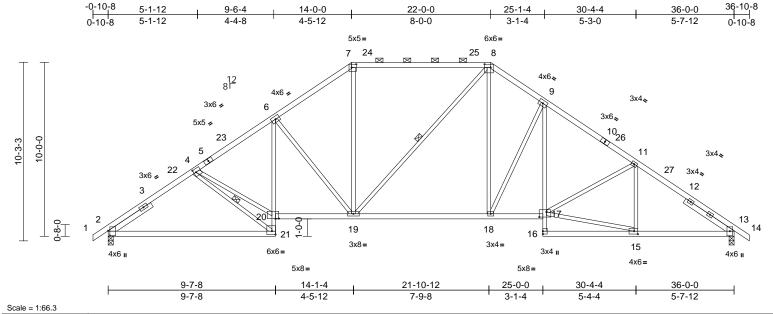


Plate Offsets (X, Y): [2:0-3-5,0-1-3], [4:0-1-8,0-2-4], [7:0-3-4,0-2-4], [8:0-4-4,0-2-4], [13:0-3-5,0-0-15], [15:0-2-8,0-2-0], [17:0-5-0,0-3-8], [20:0-2-4,0-0-4], [21:Edge,0-2-4]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.70	Vert(LL)	-0.28	2-21	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.98	Vert(CT)	-0.58	2-21	>740	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.91	Horz(CT)	0.21	13	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 195 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2 *Except* 7-8:2x4 SP 2400F

2.0E

BOT CHORD 2x4 SP No.2 *Except* 21-6,9-16:2x3 SPF

No.2

WEBS 2x3 SPF No.2

SLIDER Left 2x4 SP No.2 -- 2-11-4, Right 2x4 SP

No.2 -- 3-4-2

BRACING TOP CHORD

TOP CHORD Structural wood sheathing directly applied or

3-1-9 oc purlins, except

2-0-0 oc purlins (4-7-14 max.): 7-8.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc

bracing, Except:

2-2-0 oc bracing: 2-21,20-21.
WEBS 1 Row at midpt 4-21, 8-19

REACTIONS (size) 2=0-3-8, 13=0-3-8

Max Horiz 2=277 (LC 11)

Max Uplift 2=-225 (LC 12), 13=-225 (LC 13)

Max Grav 2=1681 (LC 1), 13=1681 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension
TOP CHORD 1-2=0/16

ORD 1-2=0/16. 2-4=-2405/333. 4-6=-2459/348.

6-7=-2025/355, 7-8=-1624/344, 8-9=-1990/366, 9-11=-2399/341,

11-13=-2435/294, 13-14=0/16 BOT CHORD 2-21=-349/1866, 20-21=-240/1381,

6-20=-76/395, 19-20=-232/1989, 18-19=-20/1622, 17-18=-100/1912, 16-17=0/94, 9-17=-86/532, 15-16=0/92,

13-15=-149/1900

WEBS 4-21=-2046/467, 4-20=-285/1978,

6-19=-638/268, 7-19=-49/632, 8-19=-184/188, 8-18=-151/698, 9-18=-691/255, 15-17=-159/1852, 11-17=-156/183, 11-15=-297/110

NOTES

- Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-10-8 to 4-1-8, Interior (1) 4-1-8 to 14-0-0, Exterior(2R) 14-0-0 to 21-0-14, Interior (1) 21-0-14 to 22-0-0, Exterior(2R) 22-0-0 to 29-0-14, Interior (1) 29-0-14 to 36-10-8 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) 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.
- All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 225 lb uplift at joint 2 and 225 lb uplift at joint 13.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 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





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) E 2/3										
(Premie	er Bui	lding	Supply	(Sp	ringh	ill K	S),	Sp	ring l	ł

Truss Type Qty Ply Roof - Osage Lot 67 162263998 5 Piggyback Base Job Reference (optional)

ills KS - 66083

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Wed Nov 29 10:48:24 ID:tbXIVEKTJDORMG26ME2iE_zaOQz-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1

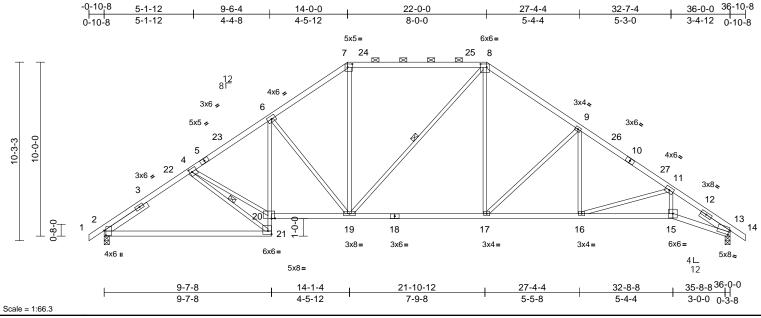


Plate Offsets (X, Y): [2:0-3-5,0-1-3], [4:0-1-8,0-2-4], [7:0-3-4,0-2-4], [8:0-4-4,0-2-4], [13:0-0-11,0-3-3], [20:0-2-4,0-0-4], [21:Edge,0-2-4]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.82	Vert(LL)	-0.28	2-21	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.97	Vert(CT)	-0.59	2-21	>731	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.96	Horz(CT)	0.29	13	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 185 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP 2400F 2.0E *Except* 5-7,8-10:2x4 SP

No.2

BOT CHORD 2x4 SP No.2 *Except* 21-6:2x3 SPF No.2,

15-13:2x4 SP 1650F 1.5E WEBS 2x3 SPF No.2

SLIDER Left 2x4 SP No.2 -- 2-11-4, Right 2x4 SP

No.2 -- 2-0-7

BRACING

TOP CHORD Structural wood sheathing directly applied or

2-2-0 oc purlins, except 2-0-0 oc purlins (4-7-5 max.): 7-8.

BOT CHORD Rigid ceiling directly applied or 10-0-0 oc

bracing, Except:

2-2-0 oc bracing: 2-21,20-21.

WFBS 1 Row at midpt 4-21, 8-19

REACTIONS 2=0-3-8, 13=0-3-8 (size)

Max Horiz 2=278 (LC 11)

Max Uplift 2=-224 (LC 12), 13=-226 (LC 13) Max Grav 2=1677 (LC 1), 13=1684 (LC 1)

(lb) - Maximum Compression/Maximum **FORCES**

Tension

TOP CHORD

1-2=0/16, 2-4=-2400/334, 4-6=-2451/348, 6-7=-2017/354, 7-8=-1618/344,

8-9=-2036/340, 9-11=-2577/327

11-13=-3858/428, 13-14=0/12

BOT CHORD 2-21=-349/1862, 20-21=-240/1378, 6-20=-76/395, 19-20=-231/1982,

17-19=-20/1609, 16-17=-146/2107

15-16=-260/2883, 13-15=-278/3097

4-21=-2040/468, 4-20=-284/1969, 6-19=-637/268, 7-19=-50/626,

8-19=-175/199, 8-17=-96/617,

9-17=-708/262, 9-16=-3/377,

11-16=-812/224, 11-15=-29/992

NOTES

WEBS

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

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-10-8 to 4-1-8, Interior (1) 4-1-8 to 14-0-0, Exterior(2R) 14-0-0 to 21-0-14, Interior (1) 21-0-14 to 22-0-0, Exterior(2R) 22-0-0 to 29-0-14, Interior (1) 29-0-14 to 36-10-8 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
- 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.
- Bearings are assumed to be: Joint 2 SP No.2 crushing capacity of 565 psi, Joint 13 SP 1650F 1.5E crushing capacity of 565 psi.
- Bearing at joint(s) 13 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 224 lb uplift at joint 2 and 226 lb uplift at joint 13.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 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



November 30,2023



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not



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Truss Type Qty Ply Roof - Osage Lot 67 162263999 2 Piggyback Base Job Reference (optional)

ills KS - 66083

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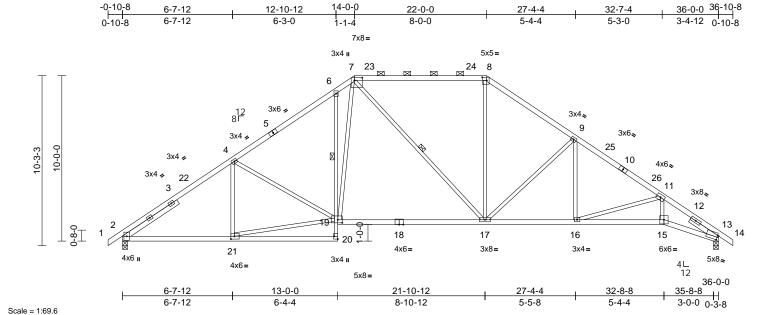


Plate Offsets (X, Y): [2:0-3-5,0-0-15], [7:0-5-12,0-2-0], [8:0-3-4,0-2-4], [13:0-0-11,0-3-3], [19:0-3-4,0-2-4], [20:Edge,0-2-8], [21:0-2-8,0-2-0]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.99	Vert(LL)	-0.24	17-19	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.86	Vert(CT)	-0.54	17-19	>798	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.95	Horz(CT)	0.22	13	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 188 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2 *Except* 7-8:2x4 SP 1650F

1.5E, 10-14:2x4 SP 2400F 2.0E

BOT CHORD 2x4 SP No.2 *Except* 20-6:2x3 SPF No.2, 15-13:2x4 SP 1650F 1.5E

WEBS 2x3 SPF No.2

SLIDER Left 2x4 SP No.2 -- 3-11-5, Right 2x4 SP

No.2 -- 2-0-7

BRACING TOP CHORD Structural wood sheathing directly applied or

> 2-2-0 oc purlins, except 2-0-0 oc purlins (2-2-0 max.): 7-8.

BOT CHORD Rigid ceiling directly applied or 10-0-0 oc

bracing, Except:

6-0-0 oc bracing: 20-21.

1 Row at midpt 6-19 **WEBS**

1 Row at midpt 7-17

REACTIONS 2=0-3-8, 13=0-3-8 (size)

Max Horiz 2=-278 (LC 10)

Max Uplift 2=-224 (LC 12), 13=-226 (LC 13) Max Grav 2=1677 (LC 1), 13=1684 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/16, 2-4=-2408/288, 4-6=-2167/342,

6-7=-2045/460, 7-8=-1617/337 8-9=-2045/337, 9-11=-2573/328 11-13=-3860/427, 13-14=0/12

BOT CHORD 2-21=-294/1878, 20-21=-35/25, 19-20=0/108,

6-19=-336/233, 17-19=-133/1605,

16-17=-147/2104, 15-16=-259/2885,

13-15=-277/3100

WFBS 4-21=-161/125, 19-21=-267/1877,

4-19=-282/213, 7-19=-305/902, 7-17=-169/200, 8-17=-48/622, 9-17=-695/269, 9-16=-10/351,

11-16=-817/221, 11-15=-27/997 NOTES

Unbalanced roof live loads have been considered for

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-10-8 to 4-1-8, Interior (1) 4-1-8 to 14-0-0, Exterior(2R) 14-0-0 to 21-0-14, Interior (1) 21-0-14 to 22-0-0, Exterior(2R) 22-0-0 to 29-0-14. Interior (1) 29-0-14 to 36-10-8 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
- 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.
- Bearings are assumed to be: Joint 2 SP No.2 crushing capacity of 565 psi, Joint 13 SP 1650F 1.5E crushing capacity of 565 psi.
- Bearing at joint(s) 13 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 224 lb uplift at joint 2 and 226 lb uplift at joint 13.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 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







AS	<u>-EASE FOR CONSTRUCTION</u> NOTED ON PLANS REMEW
[DEVELOPMENT SERVICES
ď	Premier Building Supply (Springhill, KS), Spring

Truss Type Qty Ply Roof - Osage Lot 67 162264000 5 Piggyback Base Job Reference (optional)

lills KS - 66083

9-8-6

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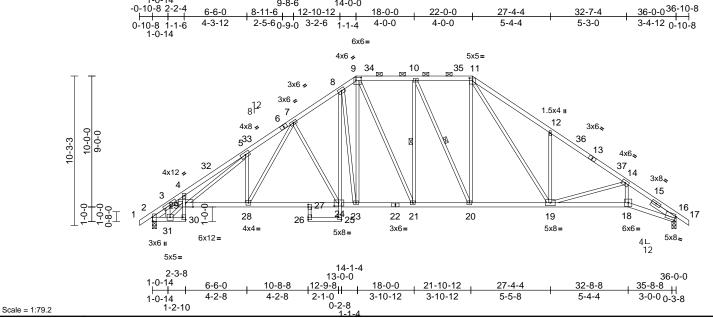


Plate Offsets (X, Y): [2:0-3-4,0-0-3], [9:0-4-4,0-2-4], [11:0-2-8,0-1-13], [16:0-0-11,0-3-3], [24:0-3-8,0-2-12], [25:Edge,0-2-8], [27:0-2-0,Edge], [29:0-6-0,Edge], [30:Edge,0-2-8]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.91	Vert(LL)	-0.22	24-27	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.97	Vert(CT)	-0.42	27-28	>999	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.93	Horz(CT)	0.34	16	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 216 lb	FT = 20%

LUMBER TOP CHORD

2x4 SP No.2 *Except* 13-17:2x4 SP 2400F

2.0E

BOT CHORD 2x4 SP No.2 *Except* 30-4,27-26,25-8:2x3 SPF No.2, 18-16:2x4 SP 1650F 1.5E WEBS 2x3 SPF No.2 *Except* 31-3:2x4 SP No.2

SLIDER Left 2x4 SP No.2 -- 1-1-9, Right 2x4 SP No.2

-- 2-0-7 **BRACING**

TOP CHORD Structural wood sheathing directly applied or 1-8-5 oc purlins, except

2-0-0 oc purlins (4-4-13 max.): 9-11. **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc

bracing, Except: 2-2-0 oc bracing: 28-29.

WFBS 1 Row at midpt 10-20, 10-21 REACTIONS 2=0-3-8, 16=0-3-8 (size)

Max Horiz 2=278 (LC 11)

Max Uplift 2=-224 (LC 12), 16=-226 (LC 13) Max Grav 2=1677 (LC 1), 16=1684 (LC 1)

(lb) - Maximum Compression/Maximum **FORCES**

Tension

TOP CHORD 1-2=0/16, 2-3=-2148/247, 3-4=-4521/756

4-5=-4476/866, 5-7=-2962/528, 7-8=-2085/365, 8-9=-1917/396 9-10=-1675/341, 10-11=-1597/340 11-12=-2660/507, 12-14=-2579/324

14-16=-3856/431, 16-17=0/12 **BOT CHORD** 2-31=-317/1487, 30-31=-51/222, 29-30=-13/100, 4-29=-50/144,

28-29=-352/2398, 27-28=-222/1962, 24-27=-210/1928, 26-27=0/35, 25-26=-12/34,

24-25=0/49, 8-24=-134/516, 23-24=-131/1679, 21-23=-122/1599, 20-21=-92/1674, 19-20=-20/1593, 18-19=-262/2882, 16-18=-281/3096

WEBS

11-20=-113/421, 11-19=-352/990, 12-19=-494/306, 14-19=-807/229, 14-18=-33/991, 5-28=-624/294, 5-29=-526/1739, 10-20=-353/185, 9-23=-232/709, 8-23=-577/219, 9-21=-181/341, 10-21=-244/208, 7-24=-610/255, 7-28=-270/922, 3-31=-1258/280, 29-31=-358/1701, 3-29=-435/2216

NOTES

- Unbalanced roof live loads have been considered for 1) this design
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-10-8 to 4-1-8, Interior (1) 4-1-8 to 14-0-0. Exterior(2R) 14-0-0 to 21-0-14, Interior (1) 21-0-14 to 22-0-0, Exterior(2R) 22-0-0 to 29-0-14, Interior (1) 29-0-14 to 36-10-8 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
- Provide adequate drainage to prevent water ponding.
- All plates are 3x4 MT20 unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Bearings are assumed to be: Joint 2 SP No.2 crushing capacity of 565 psi, Joint 16 SP 1650F 1.5E crushing capacity of 565 psi.
- Bearing at joint(s) 16 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 224 lb uplift at joint 2 and 226 lb uplift at joint 16.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

10) 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



NOTED ON PLANS! TEMEW VELOPMENT SER

Truss Type Piggyback Base Supported Gable Qty

Ply

Roof - Osage Lot 67

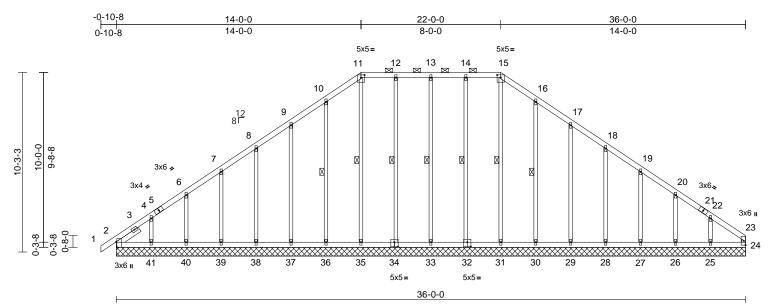
Job Reference (optional)

Page: 1

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Scale = 1:65.9

Plate Offsets (X, Y): [2:0-3-13,Edge], [11:0-2-8,0-1-13], [15:0-2-8,0-1-13], [32:0-2-8,0-3-0], [34:0-2-8,0-3-0]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.09	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.08	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.18	Horz(CT)	0.01	24	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 205 lb	FT = 20%

Max Grav 2=236 (LC 20), 24=130 (LC 22),

41=221 (LC 19)

(lb) - Maximum Compression/Maximum

1-2=0/16, 2-4=-282/250, 4-6=-212/202,

9-10=-156/252, 10-11=-194/298,

11-12=-168/271, 12-13=-168/271,

13-14=-168/271, 14-15=-168/271,

15-16=-194/298, 16-17=-156/233,

17-18=-116/165, 18-19=-79/100,

19-20=-74/43, 20-22=-103/55,

22-23=-170/90, 23-24=-101/22

2-41=-81/146, 40-41=-81/146,

39-40=-81/146, 38-39=-81/146,

37-38=-81/146, 36-37=-81/146,

35-36=-81/146, 33-35=-81/146

31-33=-81/146, 30-31=-81/146,

29-30=-81/146, 28-29=-81/146

27-28=-81/146, 26-27=-81/146,

6-7=-193/188, 7-8=-173/183, 8-9=-155/210,

25=221 (LC 20), 26=181 (LC 20),

27=191 (LC 20), 28=189 (LC 20),

29=189 (LC 20), 30=196 (LC 20),

31=172 (LC 22), 32=187 (LC 25),

33=182 (LC 26), 34=187 (LC 26),

35=191 (LC 22), 36=199 (LC 19),

37=188 (LC 19), 38=189 (LC 19),

39=190 (LC 19), 40=185 (LC 19),

LUMBER TOP CHORD **BOT CHORD**

2x4 SP No.2 2x4 SP No.2

2x3 SPF No.2 WEBS OTHERS 2x3 SPF No 2

SLIDER Left 2x4 SP No.2 -- 1-6-4

BRACING

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins, except end verticals, and

2-0-0 oc purlins (6-0-0 max.): 11-15. Rigid ceiling directly applied or 10-0-0 oc

BOT CHORD bracing.

WEBS 1 Row at midpt

15-31, 14-32, 13-33, 12-34, 11-35, 10-36,

16-30

REACTIONS (size)

2=36-0-0, 24=36-0-0, 25=36-0-0, 26=36-0-0, 27=36-0-0, 28=36-0-0, 29=36-0-0 30=36-0-0 31=36-0-0 32=36-0-0, 33=36-0-0, 34=36-0-0,

35=36-0-0, 36=36-0-0, 37=36-0-0 38=36-0-0, 39=36-0-0, 40=36-0-0,

41=36-0-0 Max Horiz 2=281 (LC 9)

Max Uplift 2=-115 (LC 8), 24=-20 (LC 11), 25=-136 (LC 13), 26=-64 (LC 13), 27=-82 (LC 13), 28=-77 (LC 13),

29=-82 (LC 13), 30=-75 (LC 13), 32=-44 (LC 9), 33=-42 (LC 8), 34=-42 (LC 9), 35=-22 (LC 9),

36=-78 (LC 12), 37=-81 (LC 12), 38=-77 (LC 12), 39=-80 (LC 12), 40=-71 (LC 12), 41=-131 (LC 12)

FORCES

TOP CHORD

BOT CHORD

25-26=-81/146, 24-25=-81/146 WEBS 15-31=-133/18, 14-32=-148/68,

Tension

13-33=-139/67, 12-34=-148/66 11-35=-152/55, 10-36=-159/102, 9-37=-148/105, 8-38=-149/101, 7-39=-149/103, 6-40=-147/96,

4-41=-174/150, 16-30=-155/100, 17-29=-149/106, 18-28=-149/101, 19-27=-150/104, 20-26=-145/95,

22-25=-167/132

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=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Corner(3E) -0-10-8 to 4-0-0, Exterior(2N) 4-0-0 to 14-0-0, Corner(3R) 14-0-0 to 19-0-0, Exterior(2N) 19-0-0 to 22-0-0, Corner(3R) 22-0-0 to 27-0-0, Exterior(2N) 27-0-0 to 35-10-12 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
- 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.
- Provide adequate drainage to prevent water ponding.
- All plates are 1.5x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- 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.



November 30,2023

Continued on page 2

Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not



NOTED ON PLANS REVIEW ϟϝϗϼΡΜΕΝΤ SERΨμΩES mmit, missouri g supply (springhill, ks), spri 024 9:38:44

Truss Type Piggyback Base Supported Gable Qty

Ply

Roof - Osage Lot 67

Job Reference (optional)

162264001

Page: 2

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All bearings are assumed to be SP No.2 crushing capacity of 565 psi.

- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 20 lb uplift at joint 24, 115 lb uplift at joint 2, 44 lb uplift at joint 32, 42 lb uplift at joint 33, 42 lb uplift at joint 34, 22 lb uplift at joint $35,\,78$ lb uplift at joint $36,\,81$ lb uplift at joint $37,\,77$ lb uplift at joint 38, 80 lb uplift at joint 39, 71 lb uplift at joint 40, 131 lb uplift at joint 41, 75 lb uplift at joint 30, 82 lb uplift at joint 29, 77 lb uplift at joint 28, 82 lb uplift at joint 27, 64 lb uplift at joint 26 and 136 lb uplift at joint 25.
- 11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 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



NOTED ON PLANS REVIEW EXELOPMENT SER YEGES

Truss Type Piggyback Ply Roof - Osage Lot 67

Job Reference (optional)

162264002

Page: 1

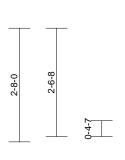
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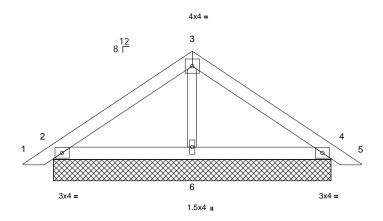
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-0-8-9	3-3-1	6-6-2	7-2-11
0-8-9	3-3-1	3-3-1	0-8-9

Qty

2





6-6-2

Scal	e =	= 1:	27

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.22	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.11	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 25 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2 2x4 SP No.2 **BOT CHORD OTHERS** 2x3 SPF No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins.

BOT CHORD Rigid ceiling directly applied or 10-0-0 oc

bracing.

REACTIONS (size) 2=6-6-2, 4=6-6-2, 6=6-6-2

Max Horiz 2=-69 (LC 10) Max Uplift 2=-55 (LC 12), 4=-64 (LC 13)

Max Grav 2=200 (LC 1), 4=200 (LC 1), 6=251

(LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD

1-2=0/16, 2-3=-106/75, 3-4=-100/76,

4-5=0/16

BOT CHORD 2-6=-13/53, 4-6=-13/53

WEBS 3-6=-170/93

NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 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
- 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.
- Gable requires continuous bottom chord bearing.
- 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.

- 7) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 55 lb uplift at joint 2 and 64 lb uplift at joint 4.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 10) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

LOAD CASE(S) Standard

OF MISSO NATHANIEI FOX UMBER PE-2022042259 SIONAL

November 30,2023





NOTED ON PLANS REVIEW EXELOPMENT SER YEGES lills. KS - 66083.

Truss Type Piggyback Qty Ply

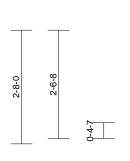
Roof - Osage Lot 67 Job Reference (optional)

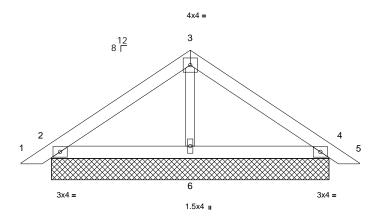
162264003

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Wed Nov 29 10:48:26 ID:wsmPEUHuoVRnQuuOmT_IDezaOSK-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1

-0-8-9	3-3-1	6-6-2	7-2-11
0-8-9	3-3-1	3-3-1	0-8-9

28





6-6-2

Scale = 1:27

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.22	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.11	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 25 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2 2x4 SP No.2 **BOT CHORD OTHERS** 2x3 SPF No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins.

BOT CHORD Rigid ceiling directly applied or 10-0-0 oc

bracing.

REACTIONS (size) 2=6-6-2, 4=6-6-2, 6=6-6-2

Max Horiz 2=-69 (LC 10) Max Uplift 2=-55 (LC 12), 4=-64 (LC 13)

Max Grav 2=200 (LC 1), 4=200 (LC 1), 6=251

(LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD

1-2=0/16, 2-3=-106/75, 3-4=-100/76,

4-5=0/16

BOT CHORD 2-6=-13/53, 4-6=-13/53

WEBS 3-6=-170/93

NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 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
- 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.
- Gable requires continuous bottom chord bearing.
- 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.

- 7) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 55 lb uplift at joint 2 and 64 lb uplift at joint 4.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 10) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

LOAD CASE(S) Standard

OF MISSO NATHANIEL FOX MBER PE-2022042259 SSIONAL

November 30,2023

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not



EVELOPMENT EE'S SUMMITS 1/02/2024 **BEARING** LATERAL BRACING LOCATION PLATE LOCATION AND ORIENTATION PLATE SIZE * Plate location details available in MiTek dustry Standards: 4 × 4 Symbols software or upon request ₹ National Design Specification for Metal Plate Connected Wood Trusses Installing, Restraining & Bracing of Metal Guide to Good Practice for Handling, Building Component Safety Information, Design Standard for Bracing. Plate Connected Wood Truss Construction.

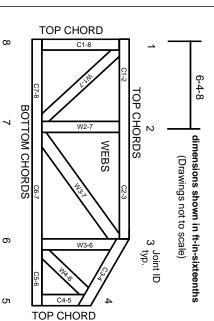
Numbering System

offsets are indicated

Center plate on joint unless x, y

and fully embed teeth

Apply plates to both sides of truss Dimensions are in ft-in-sixteenths



JOINTS ARE GENERALLY NUMBERED/LETTERED CLOCKWISE AROUND THE TRUSS STARTING AT THE JOINT FARTHEST TO THE LEFT.

connector plates.

required direction of slots in This symbol indicates the edge of truss.

plates 0- 1/16" from outside For 4 x 2 orientation, locate

CHORDS AND WEBS ARE IDENTIFIED BY END JOINT NUMBERS/LETTERS.

Product Code Approvals

ICC-ES Reports

to slots. Second dimension is width measured perpendicular The first dimension is the plate

the length parallel to slots.

ESR-1988, ESR-2362, ESR-2685, ESR-3282 ESR-4722, ESL-1388

Design General Notes

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

by text in the bracing section of the output. Use T or I bracing

Indicated by symbol shown and/or

if indicated.

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

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RELEASE FOR CONSTRUCTION

Min size shown is for crushing only number/letter where bearings occur reaction section indicates joint (supports) occur. Icons vary but Indicates location where bearings

MiTek Engineering Reference Sheet: MII-7473 rev. 1/2/2023

General Safety Notes

Damage or Personal Injury Failure to Follow Could Cause Property

- Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI
- Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves may require bracing, or alternative Tor I bracing should be considered.

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Never exceed the design loading shown and never stack materials on inadequately braced trusses.

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- Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
- Cut members to bear tightly against each other

'n

- Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TPI 1.
- Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI 1.
- œ Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
- Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.

9

- 10. Camber is a non-structural consideration and is the camber for dead load deflection responsibility of truss fabricator. General practice is to
- 11. Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
- Lumber used shall be of the species and size, and in all respects, equal to or better than that
- Top chords must be sheathed or purlins provided at spacing indicated on design.
- Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
- 15. Connections not shown are the responsibility of others
- Do not cut or alter truss member or plate without prior approval of an engineer.
- Install and load vertically unless indicated otherwise.
- Use of green or treated lumber may pose unacceptable project engineer before use. environmental, health or performance risks. Consult with
- 19. Review all portions of this design (front, back, words is not sufficient. and pictures) before use. Reviewing pictures alone
- 21. The design does not take into account any dynamic Design assumes manufacture in accordance with ANSI/TPI 1 Quality Criteria.

or other loads other than those expressly stated.