05/02/2024

MiTek, Inc.

314.434.1200

16023 Swingley Ridge Rd.

Chesterfield, MO 63017



RE: B240069 - Lot 183 HT

Site Information:

Project Customer: Summit Homes Project Name:

Lot/Block: 183 Subdivision: Hawthorn Ridge

Model: Carbondale - Craftsman Address: 1613 SW Arborway Terr

City: Lee's Summit State: MO

General Truss Engineering Criteria & Design Loads (Individual Truss Design

Drawings Show Special Loading Conditions):

Design Code: IRC2021/TPI2014 Design Program: MiTek 20/20 8.7

Wind Code: ASCE 7-16 [Noting R.Specjed: 115 mph Design Method: MWFRS (Envelope) ASCE 7-16 [Low Rise]

Roof Load: 45.0 psf Floor Load: N/A psf

Mean Roof Height (feet): 25 Exposure Category: C

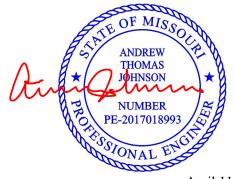
No.	Seal#	Truss Name	Date	No.	Seal#	Truss Name	Date
1	164799572	A1	4/11/24	35	164799606	J1	4/11/24
2	164799573	A2	4/11/24	36	164799607	J2	4/11/24
2 3 4 5 6 7	164799574 164799575	A3 A4	4/11/24 4/11/24	37 38	164799608 164799609	J3 J4	4/11/24 4/11/24
5	164799576	A5	4/11/24	39	164799610	J5	4/11/24
6	164799577	A6	4/11/24	40	164799611	J6	4/11/24
7	164799578	A7	4/11/24	41	164799612	J7	4/11/24
8 9	164799579 164799580	A8 A9	4/11/24 4/11/24	42 43	164799613 164799614	J8 J9	4/11/24 4/11/24
Ĭ0	164799581	A10	4/11/24	44	164799615	J10	4/11/24
11	164799582	A11	4/11/24	45	164799616	J11	4/11/24
12	164799583	A12	4/11/24	46	164799617	J12 J13	4/11/24
13 14	164799584 164799585	A13 A14	4/11/24 4/11/24	47 48	164799618 164799619	J13 J14	4/11/24 4/11/24
15	164799586	A15	4/11/24	49	164799620	J15	4/11/24
<u> 16</u>	164799587	A16	4/11/24	50	164799621	J <u>16</u>	4/11/24
17 18	164799588 164799589	A17 B1	4/11/24 4/11/24	51 52	164799622 164799623	J17 J18	4/11/24 4/11/24
19	164799590	B2	4/11/24	53	164799624	J19	4/11/24
20	164799591	B3	4/11/24	54	164799625	J20	4/11/24
21	164799592	B4	4/11/24	55	164799626	J21	4/11/24
22 23	164799593 164799594	B5 B6	4/11/24 4/11/24	56 57	164799627 164799628	J22 J23	4/11/24 4/11/24
24	164799595	B7	4/11/24	58	164799629	J24	4/11/24
25	164799596	B8	4/11/24	59	164799630	J25	4/11/24
26 27	164799597	B9 C1	4/11/24 4/11/24	60 61	164799631 164799632	J26 J27	4/11/24 4/11/24
27 28	164799598 164799599	C1 C2	4/11/24 4/11/24	62	164799633	J27 J28	4/11/24
29	164799600	Č3	4/11/24	63	164799634	J <u>2</u> 9	4/11/24
30 31	164799601	C4	4/11/24	64	164799635	J30	4/11/24
31 32	164799602 164799603	D1 D2	4/11/24 4/11/24	65 66	164799636 164799637	LAY1 LAY2	4/11/24 4/11/24
33	164799604	D3	4/11/24 4/11/24	67	164799638	LAY3	4/11/24
34	164799605	D4	4/11/24	68	164799639	LAY4	4/11/24

The truss drawing(s) referenced above have been prepared by MiTek USA, Inc. under my direct supervision based on the parameters provided by Wheeler - Waverly.

Truss Design Engineer's Name: Johnson, Andrew
My license renewal date for the state of Missouri is December 31

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

IMPORTANT NOTE: The seal on these truss component designs is a certification that the engineer named is licensed in the jurisdiction(s) identified and that the designs comply with ANSI/TPI 1. These designs are based upon parameters shown (e.g., loads, supports, dimensions, shapes and design codes), which were given to MiTek or TRENCO. Any project specific information included is for MiTek's or TRENCO's customers file reference purpose only, and was not taken into account in the preparation of these designs. MiTek or TRENCO has not independently verified the applicability of the design parameters or the designs for any particular building. Before use, the building designer should verify applicability of design parameters and properly incorporate these designs into the overall building design per ANSI/TPI 1, Chapter 2.



April 11,2024





RE: B240069 - Lot 183 HT

MiTek, Inc. 16023 Swingley Ridge Rd. Chesterfield, MO 63017 314.434.1200

No.	Seal#	Truss Name	Date
69	164799640	LAY5	4/11/24
7 0	164799641	LAY6	4/11/24
71	164799642	LAY7	4/11/24
72	164799643	R1	4/11/24
73	164799644	V1	4/11/24
74	164799645	V2	4/11/24
<u>75</u>	164799646	V3	4/11/24
<u>76</u>	164799647	V <u>4</u>	4/11/24
77	164799648	V5	4/11/24
78	164799649	V <u>6</u>	4/11/24
79 80	164799650	V7	4/11/24
οU	164799651	V8	4/11/24

Job	Truss	Truss Type	Qty	Ply	Lot 183 HT
B240069	A1	Hip Girder	1	4	Job Reference (optional)

Run: 8.73 S Mar 21 2024 Print: 8.730 S Mar 21 2024 MiTek Industries, Inc. ue Apr 19 544:58 ID:xtkJ_ecVQwTrluO9vs_d4czX58I-RfC?PsB70Hq3NSgPqnL8w3uITXbGKW

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 164799572 LEE'S SUMMIT. MISSOURI

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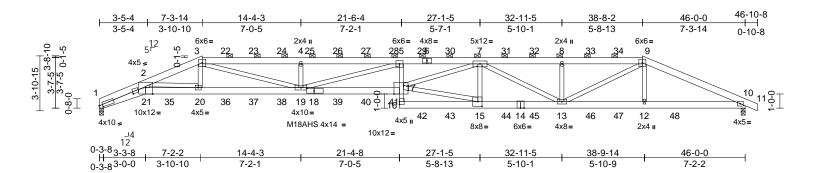


Plate Offsets (X, Y): [1:0-2-13,0-1-13], [1:2-6-9,0-0-7], [15:0-3-8,0-4-0], [17:0-8-4,Edge], [18:0-6-5,0-2-0], [21:0-6-2,Edge]

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	0.66	Vert(LL)	-0.69	17-19	>791	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.84	Vert(CT)	-1.24	17-19	>441	240	M18AHS	186/179
BCLL	0.0*	Rep Stress Incr	NO	WB	0.92	Horz(CT)	0.33	10	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-S		Wind(LL)	0.62	17-19	>882	240	Weight: 980 lb	FT = 10%

LUMBER

TOP CHORD 2x6 SPF No.2

2x6 SP 2400F 2.0E *Except* 5-16:2x4 SPF BOT CHORD

No.2. 16-14.14-10:2x6 SPF No.2

2x4 SPF No.2 WFBS

BRACING

Structural wood sheathing directly applied or TOP CHORD

6-0-0 oc purlins, except

2-0-0 oc purlins (6-0-0 max.): 3-9.

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

bracing

REACTIONS 1=0-3-8, 10=0-3-8 (size)

Max Horiz 1=-62 (LC 13)

Max Uplift 1=-875 (LC 4), 10=-901 (LC 5)

Max Grav 1=3953 (LC 1), 10=4022 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

1-2=-17603/3980, 2-3=-12784/2959, TOP CHORD

3-4=-18216/4317, 4-5=-18213/4316, 5-7=-22969/5475, 7-8=-11917/2840,

8-9=-11919/2841, 9-10=-8811/2024

10-11=0/12

BOT CHORD 1-21=-3624/16107. 20-21=-3247/14428.

19-20=-2701/11894, 17-19=-5510/23526,

16-17=0/247, 5-17=-35/1038,

15-16=-415/1739, 13-15=-3294/14218,

12-13=-1777/7946, 10-12=-1781/7984

WEBS 2-21=-972/4396, 2-20=-2447/625, 3-20=-305/1835, 3-19=-1611/6742,

4-19=-1055/524, 5-19=-5571/1339,

15-17=-2950/12788, 7-17=-2210/9242, 7-15=-2655/821, 7-13=-2660/625,

8-13=-791/401, 9-13=-1111/4645,

9-12=-95/835

NOTES

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

Top chords connected as follows: 2x6 - 2 rows

staggered at 0-9-0 oc.

Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc, 2x4 - 1 row at 0-9-0 oc. Web connected as follows: 2x4 - 1 row at 0-9-0 oc. Attach BC w/ 1/2" diam. bolts (ASTM A-307) in the center of the member w/washers at 4-0-0 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; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Bearings are assumed to be: Joint 1 SP 2400F 2.0E , Joint 10 SPF No.2 .
- 10) Bearing at joint(s) 1 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 901 lb uplift at joint 10 and 875 lb uplift at joint 1.

12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



April 11,2024

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



Job	Truss	Truss Type	Qty	Ply	Lot 183 HT	
B240069	A1	Hip Girder	1	4	Job Reference (optional)	

Run: 8.73 S Mar 21 2024 Print: 8.730 S Mar 21 2024 MiTek Industries, Inc. Tue Apr 45.750 2 / 2024 MiTek Industries, Inc

AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 164799572 LEE'S SUMMIT, MISSOURI

RELEASE FOR CONSTRUCTION

13) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 138 lb down and 93 lb up at 9-0-0, 138 lb down and 93 lb up at 11-0-0, 138 lb down and 93 lb up at 13-0-0, 138 lb down and 93 lb up at 15-0-0, 138 lb down and 93 lb up at 17-0-0, 138 lb down and 93 lb up at 19-0-0, 138 lb down and 93 lb up at 21-0-0, 137 lb down and 92 lb up at 23-0-0, 137 lb down and 92 lb up at 25-0-0, 137 lb down and 92 lb up at 27-0-0, 137 lb down and 92 lb up at 29-0-0, 137 lb down and 92 lb up at 31-0-0, 137 lb down and 92 lb up at 33-0-0, and 137 lb down and 92 lb up at 35-0-0, and 137 lb down and 92 lb up at 37-0-0 on top chord, and 456 lb down and 132 lb up at 5-0-0, 232 lb down and 76 lb up at 7-0-0, 68 lb down at 9-0-0, 68 lb down at 11-0-0, 68 lb down at 13-0-0, 68 lb down at 15-0-0, 68 lb down at 17-0-0, 68 lb down at 19-0-0, 68 lb down at 21-0-0, 68 lb down at 23-0-0, 68 lb down at 25-0-0, 68 lb down at 27-0-0, 68 lb down at 29-0-0, 68 lb down at 31-0-0, 68 lb down at 33-0-0, 68 lb down at 35-0-0, 68 lb down at 37-0-0, and 230 lb down and 73 lb up at 39-0-0, and 451 lb down and 132 lb up at 41-0-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (lb/ft) Vert: 1-3=-70, 3-9=-70, 9-11=-70, 1-21=-20, 17-21=-20. 10-16=-20 Concentrated Loads (lb) Vert: 18=-51 (F), 20=-232 (F), 15=-52 (F), 7=-110 (F), 8=-110 (F), 13=-52 (F), 12=-230 (F), 22=-110 (F), 23=-110 (F), 24=-110 (F), 25=-110 (F), 26=-110 (F), 27=-110 (F), 28=-110 (F), 29=-110 (F), 30=-110 (F), 31=-110 (F), 32=-110 (F), 33=-110 (F), 34=-110 (F), 35=-456 (F), 36=-51 (F), 37=-51 (F), 38=-51 (F), 39=-51 (F), 40=-51 (F), 41=-51 (F), 42=-52 (F), 43=-52 (F), 44=-52 (F), 45=-52 (F), 46=-52 (F), 47=-52 (F), 48=-451 (F)

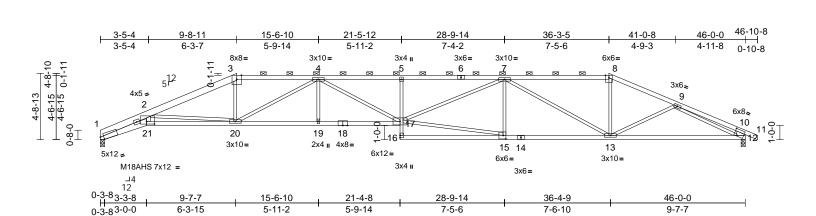


Job	Truss	Truss Type	Qty	Ply	Lot 183 HT
B240069	A2	Hip	1	2	Job Reference (optional)

Run: 8.73 S Mar 21 2024 Print: 8.730 S Mar 21 2024 MiTek Industries, Inc. ue Apr 19 544:59 ID:K0gbVLoPlqa7lqwK6LIR?zzX5Ae-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKVrCDoi7

S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 164799573 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION



Scale = 1:82.2

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)	-0.54	17-19	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.87	Vert(CT)	-0.99	17-19	>553	240	M18AHS	142/136
BCLL	0.0*	Rep Stress Incr	YES	WB	0.84	Horz(CT)	0.38	12	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-S		Wind(LL)	0.41	17-19	>999	240	Weight: 353 lb	FT = 10%

LUMBER

WEBS

TOP CHORD 2x4 SPF No.2 *Except* 1-3:2x6 SPF No.2 BOT CHORD

2x4 SPF No.2 *Except* 1-21:2x6 SPF No.2,

21-18:2x4 SPF 2100F 1.8E, 5-16:2x3 SPF

No.2

2x3 SPF No.2 *Except* 21-2:2x4 SPF No.2, 12-10:2x8 SP 2400F 2.0E

BRACING

TOP CHORD Structural wood sheathing directly applied or

4-1-14 oc purlins, except end verticals, and 2-0-0 oc purlins (4-0-6 max.): 3-8

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

bracing.

REACTIONS 1=0-3-8, 12=0-3-8 (size)

Max Horiz 1=-68 (LC 9)

Max Uplift 1=-271 (LC 4), 12=-309 (LC 5)

Max Grav 1=2049 (LC 1), 12=2133 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension 1-2=-9096/1230, 2-3=-5208/789,

TOP CHORD 3-4=-4770/759, 4-5=-7102/1206,

5-7=-7055/1204. 7-8=-3551/582.

8-9=-3896/608, 9-10=-986/103, 10-11=0/32,

10-12=-653/116

BOT CHORD 1-21=-1105/8314, 20-21=-996/7376

19-20=-948/6407, 17-19=-948/6407, 16-17=0/143, 5-17=-452/184, 15-16=-37/348,

13-15=-774/5168, 12-13=-490/3467

2-21=-268/2581, 2-20=-2581/420,

3-20=-142/1367, 4-20=-2003/370,

4-19=0/246, 4-17=-165/891,

15-17=-744/4865, 7-17=-340/2079,

7-15=-525/194, 7-13=-1961/376, 8-13=-87/1044, 9-13=0/356, 9-12=-2979/524

NOTES

WEBS

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 0-9-0 oc, 2x4 - 1 row at 0-9-0 oc, 2x8 - 2 rows staggered at 0-9-0 oc.

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

Web 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; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding. All plates are MT20 plates unless otherwise indicated. 6)
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Bearings are assumed to be: Joint 1 SPF No.2 , Joint 12 SPF No.2.
- 10) Bearing at joint(s) 1 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 271 lb uplift at joint 1 and 309 lb uplift at joint 12.

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



April 11,2024

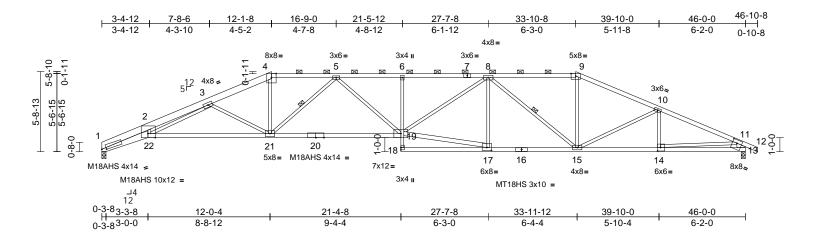




Job	Truss	Truss Type	Qty	Ply	Lot 183 HT
B240069	A3	Hip	1	1	Job Reference (option

Run: 8.73 S Mar 21 2024 Print: 8.730 S Mar 21 2024 MiTek Industries, Inc. ue Apr 1544:55 ID:kzBAjVbJ3P5ANdslp30EV5zX5CB-RfC?PsB70Hq3NSgPqnL8w3uITXbGk WrCDoi734z36?

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 164799574 LEE'S SUMMIT. MISSOURI



Scale = 1:82.4

Plata Officate (V	V۱۰	[1.0 2 12 0 1 5]	, [13:0-3-12,0-2-12],	[14.0 2 0 0 2 0]	[17:0 4 0 0 2 9]	[22:0 6 4 Edgo]
Plate Ulisets (A.	, T).	11.0-3-13,0-1-31	, 13.0-3-12,0-2-12 ,	114.0-2-0,0-3-01,	117.0-4-0,0-2-01,	122.0-0-4,Eugel

				I								
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	0.81	Vert(LL)	-0.60	19-21	>916	360	M18AHS	186/179
TCDL	10.0	Lumber DOL	1.15	BC	0.81	Vert(CT)	-1.18	19-21	>462	240	MT20	197/144
BCLL	0.0*	Rep Stress Incr	YES	WB	0.90	Horz(CT)	0.48	13	n/a	n/a	MT18HS	197/144
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-S		Wind(LL)	0.43	19-21	>999	240	Weight: 194 lb	FT = 10%

LUMBER

TOP CHORD 2x4 SPF 2100F 1.8E *Except* 1-4:2x6 SP

2400F 2.0E

BOT CHORD 2x4 SPF 2100F 1.8E *Except* 1-22:2x6 SP

2400F 2.0E, 6-18:2x3 SPF No.2

WEBS 2x3 SPF No.2 *Except* 17-19:2x4 SPF

2100F 1.8E, 13-11:2x8 SP 2400F 2.0E

BRACING

TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals, and

2-0-0 oc purlins (2-11-10 max.): 4-9.

BOT CHORD Rigid ceiling directly applied or 9-5-14 oc

bracing.

WEBS 1 Row at midpt 5-21, 8-15

REACTIONS (size) 1=0-3-8, 13=0-3-8

Max Horiz 1=-86 (LC 9)

Max Uplift 1=-242 (LC 4), 13=-280 (LC 5)

Max Grav 1=2049 (LC 1), 13=2133 (LC 1)

FORCES

TOP CHORD

(lb) - Maximum Compression/Maximum

Tension

1-2=-8701/1016, 2-3=-7766/977,

3-4=-4719/662, 4-5=-4249/624,

5-6=-5450/865, 6-8=-5435/867, 8-9=-3372/541, 9-10=-3736/563,

10-11=-3991/513, 11-12=0/32,

11-13=-2046/308

BOT CHORD 1-22=-903/7898, 21-22=-665/5404,

19-21=-672/5039, 18-19=0/111, 6-19=-369/151, 17-18=-40/119, 15-17=-554/4278, 14-15=-410/3596,

13-14=-119/978

2-22=-103/1485, 3-22=-248/2145, **WEBS**

3-21=-1265/298, 4-21=-154/1525, 5-21=-1187/279, 5-19=-71/674, 17-19=-521/4213, 8-19=-201/1430,

8-17=-559/169, 8-15=-1307/232, 9-15=-84/1002, 10-15=-253/178, 10-14=-146/105, 11-14=-302/2627

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=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Bearings are assumed to be: Joint 1 SP 2400F 2.0E, Joint 13 SPF 2100F 1.8E
- Bearing at joint(s) 1 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 242 lb uplift at joint 1 and 280 lb uplift at joint 13.
- 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



April 11,2024



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



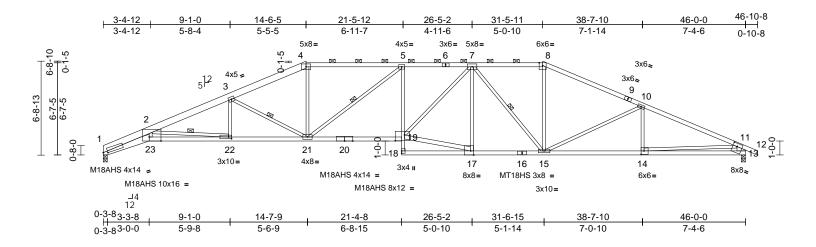
Job	Truss	Truss Type	Qty	Ply	Lot 183 HT
B240069	A4	Hip	1	1	Job Reference (option

S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 164799575 LEE'S SUMMIT. MISSOURI

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.73 S Mar 21 2024 Print: 8.730 S Mar 21 2024 MiTek Industries, Inc. ue Apr 19 544:59 ID:i?OUUZK06yYjRu3MMHANPfzX5F6-RfC?PsB70Hq3NSgPqnL8w3ulTXb(KWrCDoirJ42

RELEASE FOR CONSTRUCTION



Scale = 1:82.5

Plate Offsets (X, Y): [1:0-3-13,0-1-5], [13:0-3-8,0-2-12], [14:0-2-8,0-3-0], [17:0-2-8,Edge], [19:0-8-0,0-5-0], [22:0-2-8,0-1-8], [23:0-10-2,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	0.79	Vert(LL)	-0.54	19-21	>999	360	M18AHS	186/179
TCDL	10.0	Lumber DOL	1.15	BC	0.97	Vert(CT)	-0.97	19-21	>565	240	MT20	197/144
BCLL	0.0*	Rep Stress Incr	YES	WB	0.89	Horz(CT)	0.50	13	n/a	n/a	MT18HS	197/144
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-S		Wind(LL)	0.37	19-21	>999	240	Weight: 203 lb	FT = 10%

LUMBER

TOP CHORD 2x4 SPF 2100F 1.8E *Except* 1-4:2x6 SP

2400F 2.0E, 6-8:2x4 SPF No.2

2x4 SPF No.2 *Except* 1-23:2x6 SP 2400F **BOT CHORD** 2.0E, 23-20:2x4 SPF 2400F 2.0E, 5-18:2x3

SPF No.2, 20-19:2x4 SPF 2100F 1.8E

WFBS 2x3 SPF No.2 *Except* 17-19:2x4 SPF No.2,

13-11:2x8 SP 2400F 2.0E

BRACING

BOT CHORD

TOP CHORD

TOP CHORD Structural wood sheathing directly applied or

2-2-0 oc purlins, except end verticals, and 2-0-0 oc purlins (2-5-13 max.): 4-8.

Rigid ceiling directly applied or 2-2-0 oc

bracing

2-22, 3-21, 5-21, 7-15 1 Row at midpt

WFBS REACTIONS (size)

1=0-3-8, 13=0-3-8

Max Horiz 1=-104 (LC 9) Max Uplift 1=-213 (LC 4), 13=-250 (LC 5)

Max Grav 1=2049 (LC 1), 13=2133 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension 1-2=-8605/908, 2-3=-5380/629,

3-4=-4206/570, 4-5=-3820/548,

5-7=-4531/676, 7-8=-3171/482,

8-10=-3542/496, 10-11=-4043/463, 11-12=0/32, 11-13=-2050/286

BOT CHORD 1-23=-815/7812, 22-23=-745/7062

21-22=-504/5010, 19-21=-500/4544 18-19=0/93, 5-19=-10/229, 17-18=-26/138,

15-17=-381/3627, 14-15=-356/3635,

13-14=-171/1057

WEBS 2-23=-185/2422, 2-22=-2067/351,

3-22=0/420, 3-21=-1386/289, 4-21=-78/1218,

5-21=-1078/183, 17-19=-365/3584, 7-19=-169/1307, 7-17=-735/148, 7-15=-882/148, 8-15=-62/917,

10-15=-527/223, 10-14=-54/166,

11-14=-239/2584

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=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- 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.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Bearings are assumed to be: Joint 1 SP 2400F 2.0E, Joint 13 SPF No.2 .
- Bearing at joint(s) 1 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 213 lb uplift at joint 1 and 250 lb uplift at joint 13.
- 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



April 11,2024



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



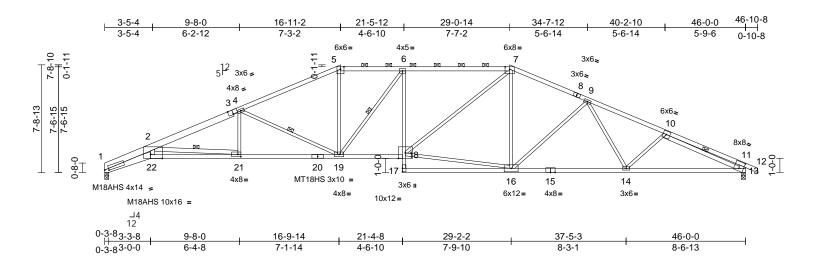
Job	Truss	Truss Type	Qty	Ply	Lot 183 HT
B240069	A5	Hip	1	1	Job Reference (option

S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 164799576 LEE'S SUMMIT. MISSOURI

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.73 S Mar 21 2024 Print: 8.730 S Mar 21 2024 MiTek Industries, Inc. ue Apr 19 545:00 ID:g0bnEc4j8V_FW8GQvWJWKDzX5I1-RfC?PsB70Hq3NSgPqnL8w3ulTXb6KWrCDbi7J4zJC?

RELEASE FOR CONSTRUCTION



Scale = 1:82.7

Plate Offsets (X, Y): [1:0-3-9,0-1-5], [3:0-4-0,Edge], [11:0-3-9,0-5-11], [21:0-2-8,0-2-0], [22:0-10-2,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	0.88	Vert(LL)	-0.50	18-19	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.97	Vert(CT)	-0.92	21-22	>597	240	M18AHS	186/179
BCLL	0.0*	Rep Stress Incr	YES	WB	0.99	Horz(CT)	0.51	13	n/a	n/a	MT18HS	197/144
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-S		Wind(LL)	0.34	21-22	>999	240	Weight: 199 lb	FT = 10%

TOP CHORD 2x4 SPF No.2 *Except* 3-5:2x4 SPF 2100F

1.8E, 5-7:2x4 SPF 2400F 2.0E, 3-1:2x6 SP

2400F 2 0F

BOT CHORD 2x4 SPF 2100F 1.8E *Except* 1-22:2x6 SP 2400F 2.0E, 22-20:2x4 SPF 2400F 2.0E,

6-17:2x3 SPF No.2, 17-15:2x4 SPF No.2 2x3 SPF No.2 *Except* 22-2,21-2,13-10:2x4

SPF No.2, 13-11:2x6 SP 2400F 2.0E

BRACING

WEBS

TOP CHORD Structural wood sheathing directly applied or 2-3-12 oc purlins, except end verticals, and

2-0-0 oc purlins (2-2-0 max.): 5-7. **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc

bracing, Except:

8-9-13 oc bracing: 21-22

2-2-0 oc bracing: 14-16. WEBS 1 Row at midpt 2-21, 4-19, 6-19, 10-13

1=0-3-8, 13=0-3-8 REACTIONS (size)

Max Horiz 1=122 (LC 12)

Max Uplift 1=-212 (LC 8), 13=-237 (LC 9)

Max Grav 1=2052 (LC 1), 13=2131 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

TOP CHORD

Tension 1-2=-8905/988, 2-4=-5119/517,

4-5=-3855/468, 5-6=-3451/455,

6-7=-3835/530, 7-9=-3309/430,

9-10=-3900/408, 10-11=-1024/174, 11-12=0/30, 11-13=-665/167

BOT CHORD 1-22=-996/8114, 21-22=-894/7183,

19-21=-454/4720, 18-19=-324/3836,

17-18=0/137, 6-18=-210/128, 16-17=0/154, 14-16=-274/3409, 13-14=-323/3613

bottom chord.

WEBS

2-22=-244/2561, 2-21=-2479/443,

4-21=0/481, 4-19=-1387/326, 5-19=-78/1128,

6-19=-829/143, 16-18=-219/2870, 7-18=-159/1188, 7-16=-65/280,

9-16=-586/229, 9-14=-17/333,

10-14=-135/177, 10-13=-3075/321

NOTES

- 1) Unbalanced roof live loads have been considered for this design
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Bearings are assumed to be: Joint 1 SP 2400F 2.0E, Joint 13 SPF 2100F 1.8E
- Bearing at joint(s) 1 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 212 lb uplift at joint 1 and 237 lb uplift at joint 13.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or

LOAD CASE(S) Standard



April 11,2024



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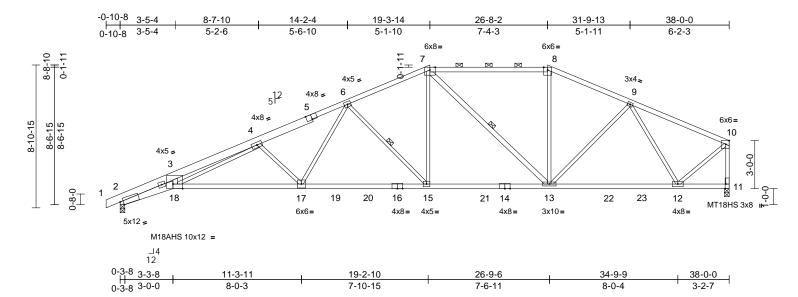


Job	Truss	Truss Type	Qty	Ply	Lot 183 HT
B240069	A6	Hip	1	1	Job Reference (optio

Run: 8.73 S Mar 21 2024 Print: 8.730 S Mar 21 2024 MiTek Industries, Inc. Tue Apr 0 545:00 ID:05ihlehC?TdQqdYWEZGojBzX5Jp-RfC?PsB70Hq3NSgPqnL8w3ulTXbGl WrCDoi 342367

S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 164799577 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION



Scale = 1:71.9

Plate Offsets (X, Y): [2:0-2-5,0-2-13], [5:0-4-0,Edge], [10:0-2-8,Edge	e], [11:0-3-8,Edge], [18:0-7-4,Edge]
--	--------------------------------------

Loading	(psf)	Spacing	2-0-0	csı		DEFL	in	(loc)	l/defl	I /d	PLATES	GRIP
-	\ ,	-						(/			_	
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.72	Vert(LL)	-0.46	17-18	>993	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.99	Vert(CT)	-0.82	17-18	>549	240	MT18HS	197/144
BCLL	0.0*	Rep Stress Incr	YES	WB	0.93	Horz(CT)	0.32	11	n/a	n/a	M18AHS	142/136
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-S		Wind(LL)	0.29	17-18	>999	240	Weight: 170 lb	FT = 10%

LUMBER

TOP CHORD 2x4 SPF No.2 *Except* 7-8:2x4 SPF 2100F

1.8E, 1-5:2x6 SP 2400F 2.0E

2x4 SPF 2100F 1.8E *Except* 2-18:2x6 SP **BOT CHORD** 2400F 2.0E, 16-14:2x4 SPF No.2

WEBS 2x3 SPF No.2 *Except* 18-3,13-7:2x4 SPF

No 2

BRACING TOP CHORD

Structural wood sheathing directly applied or 2-7-14 oc purlins, except end verticals, and

2-0-0 oc purlins (4-3-4 max.): 7-8.

BOT CHORD Rigid ceiling directly applied or 2-2-0 oc

bracing.

WEBS 1 Row at midpt 6-15, 7-13

REACTIONS (size) 2=0-3-8, 11=0-3-8 Max Horiz 2=182 (LC 8)

Max Uplift 2=-243 (LC 8), 11=-147 (LC 5)

Max Grav 2=1854 (LC 2), 11=1812 (LC 2)

FORCES (lb) - Maximum Compression/Maximum

Tension

1-2=0/10, 2-3=-7487/1008, 3-4=-6620/992, TOP CHORD

4-6=-4003/498. 6-7=-2635/316.

7-8=-1993/272, 8-9=-2216/274,

9-10=-1449/145, 10-11=-1801/145

BOT CHORD 2-18=-1062/6799, 17-18=-640/4296

15-17=-348/3037, 13-15=-199/2385,

12-13=-186/1773, 11-12=-41/30 3-18=-63/1284, 4-18=-402/2136

4-17=-1018/317, 6-17=-137/1158,

6-15=-925/270, 7-15=-106/975,

7-13=-643/147, 8-13=-16/463, 9-13=0/442,

9-12=-1020/169, 10-12=-93/1679

NOTES

WEBS

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=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- All plates are MT20 plates unless otherwise indicated. 4)
- 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Bearings are assumed to be: Joint 2 SP 2400F 2.0E, Joint 11 SPF 2100F 1.8E
- Bearing at joint(s) 2 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 243 lb uplift at joint 2 and 147 lb uplift at joint 11.
- 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



April 11,2024



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Job	Truss	Truss Type	Qty	Ply	Lot 183 HT
B240069	A7	Hip	1	1	Job Reference (optional

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 164799578 LEE'S SUMMIT. MISSOURI

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.73 S Mar 21 2024 Print: 8.730 S Mar 21 2024 MiTek Industries, Inc. 1ue Apr 19 545:00 ID:hPLDIEJCilT?sljuOTmMvLzX5OA-RfC?PsB70Hq3NSgPqnL8w3ulTXbGK

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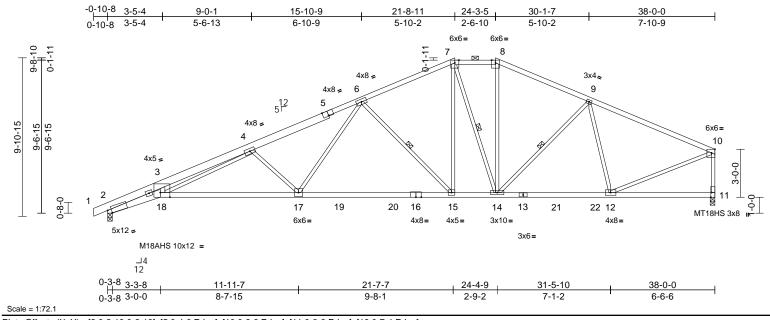


Plate Offsets (X, Y): [2:0-2-13,0-2-13], [5:0-4-0,Edge], [10:0-2-8,Edge], [11:0-3-8,Edge], [18:0-7-4,Edge]

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	0.73	Vert(LL)	-0.49	15-17	>934	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	1.00	Vert(CT)	-0.85	17-18	>533	240	MT18HS	197/144
BCLL	0.0*	Rep Stress Incr	YES	WB	0.75	Horz(CT)	0.32	11	n/a	n/a	M18AHS	142/136
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-S		Wind(LL)	0.31	17-18	>999	240	Weight: 175 lb	FT = 10%

LUMBER

TOP CHORD 2x4 SPF No.2 *Except* 8-10:2x4 SPF 2100F

1.8E, 1-5:2x6 SP 2400F 2.0E

BOT CHORD 2x4 SPF No.2 *Except* 2-18:2x6 SP 2400F

2.0E. 18-16:2x4 SPF 2100F 1.8E

WEBS 2x3 SPF No.2 *Except* 18-3:2x4 SPF No.2

BRACING

TOP CHORD

TOP CHORD Structural wood sheathing directly applied or

2-7-9 oc purlins, except end verticals, and

2-0-0 oc purlins (4-2-1 max.): 7-8. **BOT CHORD** Rigid ceiling directly applied or 2-2-0 oc

bracing.

WFBS 6-15, 7-14, 9-14 1 Row at midpt

REACTIONS (size) 2=0-3-8, 11=0-3-8

Max Horiz 2=200 (LC 8)

Max Uplift 2=-259 (LC 8), 11=-171 (LC 9)

Max Grav 2=1843 (LC 2), 11=1795 (LC 2)

FORCES (lb) - Maximum Compression/Maximum

Tension

1-2=0/10, 2-3=-7422/1095, 3-4=-6571/1071,

4-6=-3877/529, 6-7=-2266/319,

7-8=-1891/287. 8-9=-2128/299. 9-10=-2037/193. 10-11=-1702/199

BOT CHORD 2-18=-1159/6738, 17-18=-700/4199,

15-17=-359/2762, 14-15=-141/2026, 12-14=-163/1915, 11-12=-36/52

WEBS 3-18=-79/1256, 4-18=-434/2179,

4-17=-1050/357, 6-17=-148/1293 6-15=-1045/312, 7-15=-138/1007,

7-14=-550/129, 8-14=-84/584

9-14=-192/184, 10-12=-104/1916,

9-12=-569/141

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=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- 4) All plates are MT20 plates unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom 5) 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Bearings are assumed to be: Joint 2 SP 2400F 2.0E , Joint 11 SPF No.2.
- Bearing at joint(s) 2 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 259 lb uplift at joint 2 and 171 lb uplift at joint 11.
- 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



April 11,2024



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Job Truss Truss Type Qty Ply Lot 183 HT B240069 **A8** Roof Special 2 Job Reference (optiona RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 164799579 LEE'S SUMMIT. MISSOUR

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.73 S Mar 21 2024 Print: 8.730 S Mar 21 2024 MiTek Industries, Inc. ID:c5BiUoHpG8IrixtbYBIz5wzX5Qo-RfC?PsB70Hq3NSgPqnL8w3uITXbGKW

ue Apr 0**9 \5**45:

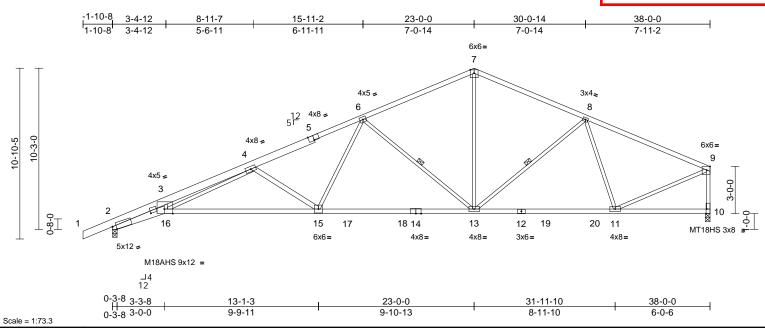


Plate Offsets (X, Y): [2:0-2-13,0-2-13], [2:2-7-0,0-0-7], [5:0-4-0,Edge], [9:0-2-8,Edge], [10:0-3-8,Edge], [16:0-6-8,Edge]

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	0.92	Vert(LL)	-0.52	15-16	>874	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.88	Vert(CT)	-0.99	15-16	>458	240	MT18HS	197/144
BCLL	0.0*	Rep Stress Incr	YES	WB	0.96	Horz(CT)	0.31	10	n/a	n/a	M18AHS	142/136
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-S		Wind(LL)	0.31	15-16	>999	240	Weight: 167 lb	FT = 10%

LUMBER

TOP CHORD 2x4 SPF No.2 *Except* 1-5:2x6 SP 2400F

2.0E, 7-9:2x4 SPF 2100F 1.8E

2x4 SPF 2100F 1.8E *Except* 2-16:2x6 SP **BOT CHORD** 2400F 2.0E, 12-10:2x4 SPF No.2

WEBS 2x3 SPF No.2 *Except* 15-4:2x4 SPF No.2

BRACING

Structural wood sheathing directly applied, TOP CHORD

except end verticals.

BOT CHORD Rigid ceiling directly applied or 9-1-1 oc

bracing WEBS

1 Row at midpt 6-13 8-13

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

Max Horiz 2=225 (LC 8)

Max Uplift 2=-289 (LC 8), 10=-182 (LC 9) Max Grav 2=1906 (LC 2), 10=1802 (LC 2)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/38 2-3=-7355/1078 3-4=-6572/1056

4-6=-3640/496, 6-7=-2109/306,

9-10=-1727/205, 7-8=-2117/331

8-9=-1989/202

BOT CHORD 2-16=-1147/6665, 15-16=-738/4158,

13-15=-385/2785, 11-13=-184/1922,

10-11=-37/48

WFBS 3-16=-79/1238, 4-16=-388/2226,

4-15=-1126/377, 6-15=-91/1109,

6-13=-1198/341, 7-13=-105/1187,

8-13=-274/196, 8-11=-607/153,

9-11=-111/1900

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=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60

- All plates are MT20 plates unless otherwise indicated.
- 4) 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Bearings are assumed to be: Joint 2 SP 2400F 2.0E, Joint 10 SPF No.2 .
- Bearing at joint(s) 2 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 289 lb uplift at joint 2 and 182 lb uplift at joint 10.

LOAD CASE(S) Standard



April 11,2024



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



Job	Truss	Truss Type	Qty	Ply	Lot 183 HT
B240069	A9	Roof Special	1	1	Job Reference (optional)

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 164799580 LEE'S SUMMIT. MISSOURI

Wheeler Lumber, Waverly, KS - 66871,

ue Apr 09 5 45:00 Run: 8.73 S Mar 21 2024 Print: 8.730 S Mar 21 2024 MiTek Industries, Inc. ID:5mcDU?MaZbUpq86KZ8x_zbzX5Vs-RfC?PsB70Hq3NSgPqnL8w3ulTXb(KWrCDoir J42

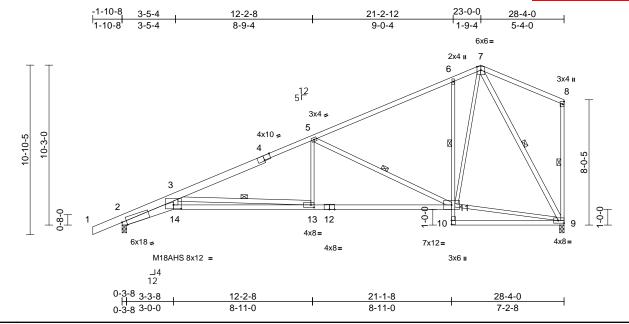


Plate Offsets (X, Y): [2:0-3-9,Edge], [4:0-5-0,Edge], [9:Edge,0-2-0], [13:0-2-8,0-2-0], [14:0-6-0,0-3-0]

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	0.90	Vert(LL)	-0.39	13-14	>872	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.96	Vert(CT)	-0.78	13-14	>433	240	M18AHS	142/136
BCLL	0.0*	Rep Stress Incr	YES	WB	0.87	Horz(CT)	0.33	9	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-S		Wind(LL)	0.34	13-14	>978	240	Weight: 144 lb	FT = 10%

LUMBER

Scale = 1:73.8

2x6 SPF No.2 *Except* 7-8:2x4 SPF No.2, TOP CHORD

4-7:2x4 SPF 2100F 1.8E

BOT CHORD 2x4 SPF No.2 *Except* 2-14:2x6 SPF No.2.

14-12:2x4 SPF 2100F 1.8E, 6-10:2x3 SPF

No.2

WFBS 2x4 SPF No.2 *Except*

5-13,11-7,9-8,9-11:2x3 SPF No.2

BRACING TOP CHORD

Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.

BOT CHORD Rigid ceiling directly applied or 2-2-0 oc

bracing. Except: 1 Row at midpt 6-11

WEBS 1 Row at midpt 3-13, 5-11, 8-9, 7-9

REACTIONS (size) 2=0-3-8, 9=0-3-8 Max Horiz 2=345 (LC 7)

Max Uplift 2=-241 (LC 8), 9=-185 (LC 8)

Max Grav 2=1410 (LC 1), 9=1259 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension TOP CHORD

1-2=0/38, 2-3=-5510/1063, 3-5=-2350/372,

5-6=-1051/208, 6-7=-977/321, 7-8=-140/139

8-9=-172/96

BOT CHORD 2-14=-1153/5034, 13-14=-1047/4450,

11-13=-388/2114, 10-11=0/149, 6-11=-502/279, 9-10=-21/46

WEBS 3-14=-260/1622, 3-13=-2343/660,

5-13=0/542, 5-11=-1412/354,

7-11=-356/1362, 9-11=-136/543,

7-9=-1241/168

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; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Bearings are assumed to be: Joint 2 SPF No.2 , Joint 9 SPF No.2
- Bearing at joint(s) 2 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 241 lb uplift at joint 2 and 185 lb uplift at joint 9.

LOAD CASE(S) Standard



April 11,2024



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



Job	Truss	Truss Type	Qty	Ply	Lot 183 HT
B240069	A10	Hip	1	1	Job Reference (option

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 164799581 LEE'S SUMMIT. MISSOURI

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.73 S Mar 21 2024 Print: 8.730 S Mar 21 2024 MiTek Industries, Inc. 1 ue Apr (1) 475:00 ID:dEKiM5o6Ll_J6CntzTgaB5zX5bl-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKV rCDoi7J4zJC?

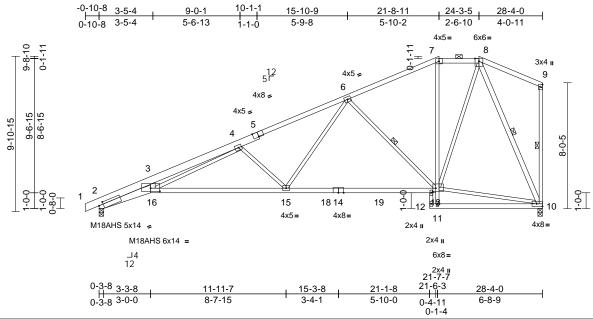


Plate Offsets (X, Y): [2:0-3-5,0-1-12], [5:0-4-0,Edge], [10:Edge,0-2-0], [13:0-2-4,0-2-12], [16:0-7-0,0-2-8]

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	0.60	Vert(LL)	-0.38	13-15	>882	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.91	Vert(CT)	-0.67	13-15	>502	240	M18AHS	142/136
BCLL	0.0*	Rep Stress Incr	YES	WB	0.67	Horz(CT)	0.24	10	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-S		Wind(LL)	0.23	15-16	>999	240	Weight: 144 lb	FT = 10%

LUMBER

Scale = 1:73.6

TOP CHORD 2x4 SPF No.2 *Except* 5-1:2x6 SP 2400F

2.0E

BOT CHORD 2x6 SPF No.2 *Except* 14-13:2x4 SPF

2400F 2.0E, 17-12:2x3 SPF No.2, 12-10:2x4 SPF No.2, 14-16:2x4 SPF 2100F 1.8E

WFBS 2x3 SPF No.2 *Except*

16-3,0-0,0-0,0-0,10-8:2x4 SPF No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or 2-11-10 oc purlins, except end verticals, and

2-0-0 oc purlins (6-0-0 max.): 7-8.

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

bracing, Except:

7-7-1 oc bracing: 2-16.

WFBS 1 Row at midpt 9-10. 8-10. 6-13

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

Max Horiz 2=338 (LC 7)

Max Uplift 2=-215 (LC 8), 10=-161 (LC 8)

Max Grav 2=1384 (LC 2), 10=1337 (LC 2)

FORCES (lb) - Maximum Compression/Maximum

Tension

1-2=0/10, 2-3=-5274/874, 3-4=-4689/871,

4-6=-2486/395, 6-7=-974/207, 7-8=-835/224,

8-9=-133/128, 9-10=-135/87

BOT CHORD 2-16=-949/4775, 15-16=-563/2793, 13-15=-247/1551, 11-12=0/0, 10-11=0/21

WEBS 3-16=-45/817, 8-10=-1280/194,

10-13=-144/489, 8-13=-172/1069 11-13=0/149, 7-13=0/143, 6-13=-1039/303,

6-15=-128/1181, 4-15=-886/347,

4-16=-372/1767

NOTES

TOP CHORD

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=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- All plates are MT20 plates unless otherwise indicated. 4)
- 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Bearings are assumed to be: Joint 2 SPF No.2, Joint 10 SPF No.2.
- Bearing at joint(s) 2 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 215 lb uplift at joint 2 and 161 lb uplift at joint 10.
- 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



April 11,2024



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



Job Truss Truss Type Qty Ply Lot 183 HT B240069 A11 Hip Job Reference (optiona RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 164799582 LEE'S SUMMIT. MISSOURI

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.73 S Mar 21 2024 Print: 8.730 S Mar 21 2024 MiTek Industries, Inc. 7 ID:i2YfATeKM3e7qLUmqDVvFYzX5h7-RfC?PsB70Hq3NSgPqnL8w3ulTXbG

ue Apr 09 5/45:01 KWrCDol7

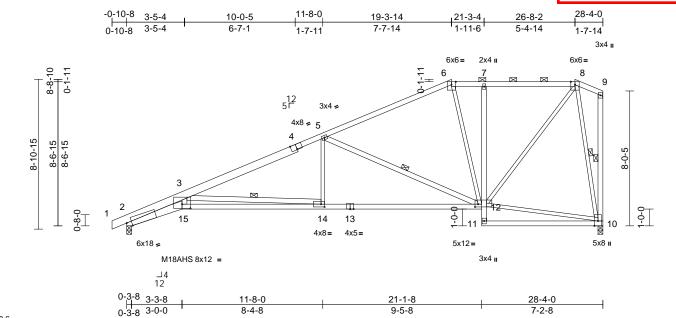


Plate Offsets (X, Y): [2:0-3-9,Edge], [4:0-4-0,Edge], [12:0-2-3,0-2-0], [14:0-2-8,0-2-0], [15:0-6-0,0-3-0]

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	0.85	Vert(LL)	-0.38	14-15	>893	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.98	Vert(CT)	-0.73	14-15	>463	240	M18AHS	142/136
BCLL	0.0*	Rep Stress Incr	YES	WB	0.77	Horz(CT)	0.32	10	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-S		Wind(LL)	0.32	14-15	>999	240	Weight: 145 lb	FT = 10%

LUMBER

Scale = 1:68.6

TOP CHORD 2x4 SPF No.2 *Except* 1-4:2x6 SPF No.2,

4-6:2x4 SPF 2100F 1.8E

2x4 SPF No.2 *Except* 2-15:2x6 SPF No.2. **BOT CHORD** 15-13:2x4 SPF 2100F 1.8E

WEBS 2x3 SPF No.2 *Except*

10-9,15-3,14-3,12-5:2x4 SPF No.2

BRACING

Structural wood sheathing directly applied or TOP CHORD 2-2-0 oc purlins, except end verticals, and

2-0-0 oc purlins (5-4-2 max.): 6-8.

BOT CHORD Rigid ceiling directly applied or 2-2-0 oc

bracing.

WEBS 1 Row at midpt 9-10, 3-14, 8-10, 5-12

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

Max Horiz 2=342 (LC 7)

Max Uplift 2=-210 (LC 8), 10=-175 (LC 5) Max Grav 2=1335 (LC 1), 10=1261 (LC 1)

(lb) - Maximum Compression/Maximum FORCES

Tension

6-7=-928/193, 7-8=-930/198, 8-9=-157/113, TOP CHORD

9-10=-121/76, 1-2=0/10, 2-3=-5565/1023, 3-5=-2422/355, 5-6=-1088/184

BOT CHORD 2-15=-1089/5090, 14-15=-985/4497,

12-14=-349/2186, 11-12=0/145,

7-12=-361/129, 10-11=-13/17 WEBS 3-15=-255/1640, 5-14=0/545,

3-14=-2319/638, 6-12=0/184,

10-12=-110/208, 8-10=-1222/297,

5-12=-1408/334, 8-12=-159/1194

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; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60

- 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Bearings are assumed to be: Joint 2 SPF No.2 , Joint 10 SPF No.2.
- Bearing at joint(s) 2 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 210 lb uplift at joint 2 and 175 lb uplift at joint 10.
- 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



April 11,2024



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



 Job
 Truss
 Truss Type
 Qty
 Ply
 Lot 183 HT

 B240069
 A12
 Half Hip
 1
 1
 Job Reference (optional popular)

RELEASE FOR CONSTRUCTION

AS NOTED FOR PLAN REVIEW

DEVELOPMENT SERVICES
164799583

LEE'S SUMMIT, MISSOURI

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.73 S Mar 21 2024 Print: 8.730 S Mar 21 2024 MiTek Industries, Inc. ue Apr 1955:0102/2991

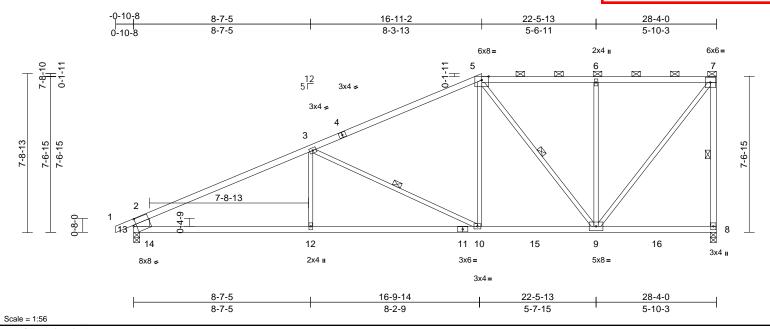


Plate Offsets (X, Y): [13:0-1-10,0-3-13]

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	0.88	Vert(LL)	-0.23	10-12	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.82	Vert(CT)	-0.43	10-12	>780	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.63	Horz(CT)	0.05	8	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-S		Wind(LL)	0.11	10-12	>999	240	Weight: 113 lb	FT = 10%

LUMBER

TOP CHORD 2x4 SPF 2100F 1.8E *Except* 5-7:2x4 SPF

No.2

BOT CHORD 2x4 SPF 2100F 1.8E *Except* 11-8:2x4 SPF

No.2

WEBS 2x3 SPF No.2 *Except* 7-8:2x4 SPF No.2,

13-2:2x10 SP 2400F 2.0E

BRACING

WEBS

TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals, and

2-0-0 oc purlins (5-9-15 max.): 5-7.

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

bracing.

1 Row at midpt 7-8, 3-10, 5-9

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

Max Horiz 13=326 (LC 5)

Max Uplift 8=-207 (LC 5), 13=-203 (LC 8)

Max Grav 8=1349 (LC 2), 13=1371 (LC 2)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/34, 2-3=-2277/302, 3-5=-1454/205,

5-6=-864/194, 6-7=-863/192, 7-8=-1229/228,

2-13=-1226/248

12-13=-327/1996, 10-12=-327/1996,

9-10=-234/1249, 8-9=-102/77

WEBS 3-12=0/320, 3-10=-818/271, 5-10=-34/647,

5-9=-641/133, 6-9=-460/194, 7-9=-212/1379

NOTES

BOT CHORD

- Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Bearings are assumed to be: Joint 13 SPF 2100F 1.8E, Joint 8 SPF No.2.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 207 lb uplift at joint 8 and 203 lb uplift at joint 13.
- 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



April 11,2024





Job	Truss	Truss Type	Qty	Ply	Lot 183 HT
B240069	A13	Half Hip	1	1	Job Reference (option

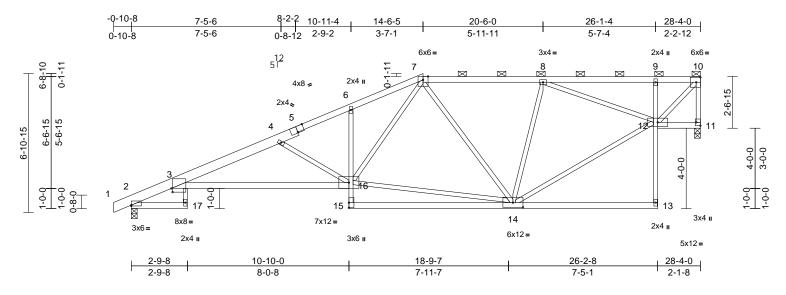
AS NOTED FOR PLAN REVIEW
DEVELOPMENT SERVICES
1647/99584
LEE'S SUMMIT, MISSOURI

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.73 S Mar 21 2024 Print: 8.730 S Mar 21 2024 MiTek Industries, Inc. ue Apr (9) 575:01
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ue Apr 055:002/20:24

RELEASE FOR CONSTRUCTION



Scale = 1:57.4

Plate Offsets (X, Y): [2:Edge,0-0-8], [3:0-0-11,0-2-3], [5:0-4-0,Edge], [11:Edge,0-2-8], [14:0-6-0,0-2-12]

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	0.93	Vert(LL)	-0.34	3-16	>988	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.64	Vert(CT)	-0.78	3-16	>430	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.71	Horz(CT)	0.26	11	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-S		Wind(LL)	0.29	3-16	>999	240	Weight: 130 lb	FT = 10%

LUMBER

TOP CHORD 2x4 SPF No.2 *Except* 5-1:2x6 SP 2400F

2.0E

BOT CHORD 2x4 SPF No.2 *Except* 17-3,6-15,13-9:2x3

SPF No.2, 3-16:2x4 SPF 2100F 1.8E

WEBS 2x3 SPF No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or

2-2-0 oc purlins, except end verticals, and 2-0-0 oc purlins (4-8-9 max.): 7-10.

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

bracing, Except:

6-0-0 oc bracing: 2-17.

REACTIONS (size) 2=0-3-8, 11=0-3-8

Max Horiz 2=215 (LC 8)

Max Uplift 2=-172 (LC 8), 11=-210 (LC 5)

Max Grav 2=1351 (LC 1), 11=1264 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/6, 2-3=-634/0, 3-4=-3183/475,

4-6=-2450/310, 6-7=-2317/364, 7-8=-1258/212, 8-9=-1121/218.

9-10=-1105/212, 10-11=-1216/217

BOT CHORD 2-17=-41/0, 3-17=0/82, 3-16=-580/3027,

15-16=0/141, 6-16=-11/94, 14-15=-19/50, 13-14=0/15, 12-13=0/111, 9-12=-284/123,

11-12=-30/23

WEBS 14-16=-228/1490, 7-16=-226/1082,

7-14=-476/168, 8-14=-422/189,

12-14=-265/1528, 8-12=-241/52, 10-12=-282/1606, 4-16=-1034/318

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; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 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.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 6) All bearings are assumed to be SPF No.2.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 210 lb uplift at joint 11 and 172 lb uplift at joint 2.
- 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



April 11,2024

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



Job	Truss	Truss Type	Qty	Ply	Lot 183 HT
B240069	A14	Half Hip	1	1	Job Reference (option

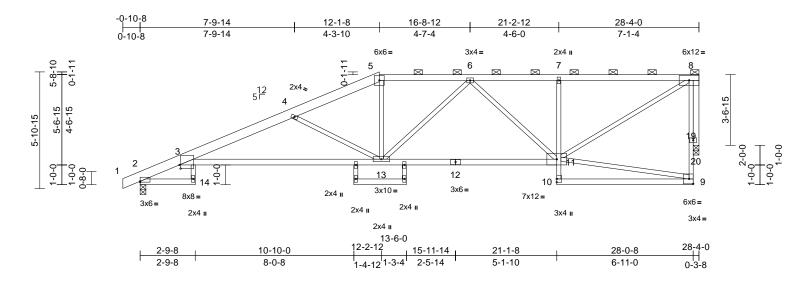
HT AS NOTED FOR PLAN REVIEW
DEVELOPMENT SERVICES
164799585
LEE'S SUMMIT, MISSOURI

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.73 S Mar 21 2024 Print: 8.730 S Mar 21 2024 MiTek Industries, Inc. Tue Apr 0 575:010 ID:vicEt9X?PJBnPvBctGZxrAzX5y2-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKV rCDoi7Jug057

ue Apr **05:**/02/2024

RELEASE FOR CONSTRUCTION



Scale = 1:58.4

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	0.94	Vert(LL)	-0.34	3-13	>991	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.67	Vert(CT)	-0.80	3-13	>422	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.71	Horz(CT)	0.41	20	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-S		Wind(LL)	0.27	14	>999	240	Weight: 130 lb	FT = 10%

LUMBER

TOP CHORD 2x6 SP 2400F 2.0E *Except* 5-8:2x4 SPF

No.2

BOT CHORD 2x4 SPF No.2 *Except*

14-3,15-16,17-18,7-10:2x3 SPF No.2,

12-3:2x4 SPF 2100F 1.8E

WEBS 2x3 SPF No.2

OTHERS 2x4 SPF No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or 1-11-14 oc purlins, except end verticals, and

2-0-0 oc purlins (3-3-3 max.): 5-8.

BOT CHORD Rigid ceiling directly applied or 6-0-0 oc

bracing.

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

Max Horiz 2=182 (LC 8)

Max Uplift 2=-150 (LC 8), 20=-214 (LC 4)

Max Grav 2=1349 (LC 1), 20=1239 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/6, 2-3=-633/0, 3-4=-3190/414,

4-5=-2337/299, 5-6=-2080/290,

6-7=-1600/273, 7-8=-1602/279, 9-19=0/129,

8-19=0/129

BOT CHORD 2-14=-41/0, 3-14=0/82, 3-13=-484/3035,

11-13=-366/2000, 10-11=0/133, 7-11=-447/186, 9-10=0/19

WEBS 9-11=-48/78, 8-11=-311/1793, 5-13=-21/667,

6-13=-75/201, 6-11=-553/105,

4-13=-1099/346, 8-20=-1244/215

NOTES

- Unbalanced roof live loads have been considered for this design.
- 2) Wind: AŠCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60

- s) 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.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 6) All bearings are assumed to be SPF No.2.
- Bearing at joint(s) 20 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 150 lb uplift at joint 2 and 214 lb uplift at joint 20.
- 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



April 11,2024





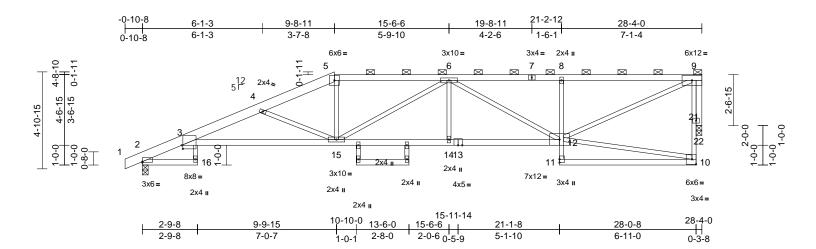
Job	Truss	Truss Type	Qty	Ply	Lot 183 HT
B240069	A15	Half Hip	1	1	Job Reference (option

S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 164799586 LEE'S SUMMIT. MISSOURI

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.73 S Mar 21 2024 Print: 8.730 S Mar 21 2024 MiTek Industries, Inc. ue Apr 📭 🕰:🎷 ID:I3JDLGTEX4sS5GV2CiY9EJzX61I-RfC?PsB70Hq3NSgPqnL8w3uITXbGl WrCDoi7y4z3c?

RELEASE FOR CONSTRUCTION



Scale = 1:58.3

Plate Offsets (X, Y): [2:Edge,0-0-8], [3:0-0-11,0-2-3]

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	0.89	Vert(LL)	-0.29	3-15	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.76	Vert(CT)	-0.61	3-15	>552	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.79	Horz(CT)	0.38	22	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-S		Wind(LL)	0.23	3-15	>999	240	Weight: 125 lb	FT = 10%

LUMBER

TOP CHORD 2x4 SPF No.2 *Except* 1-5:2x6 SP 2400F

2.0E

BOT CHORD 2x4 SPF No.2 *Except*

16-3,17-18,19-20,8-11:2x3 SPF No.2, 13-3:2x4 SPF 2100F 1.8E

WFBS 2x3 SPF No 2

2x4 SPF No.2 **OTHERS**

BRACING

TOP CHORD Structural wood sheathing directly applied or

2-2-0 oc purlins, except end verticals, and 2-0-0 oc purlins (2-7-13 max.): 5-9. Rigid ceiling directly applied or 6-0-0 oc

BOT CHORD

bracing.

REACTIONS (size) 2=0-3-8, 22=0-3-8

Max Horiz 2=148 (LC 5)

Max Uplift 2=-160 (LC 4), 22=-220 (LC 4)

Max Grav 2=1349 (LC 1), 22=1239 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

1-2=0/6, 2-3=-633/21, 3-4=-3622/510, 4-5=-2728/394, 5-6=-2481/380, TOP CHORD

6-8=-2085/375, 8-9=-2083/380, 10-21=0/135,

9-21=0/135

BOT CHORD 2-16=-41/0, 3-16=0/82, 3-15=-579/3497, 14-15=-490/2728, 12-14=-490/2728,

11-12=0/133, 8-12=-472/196, 10-11=0/68

WEBS 5-15=-39/748, 6-12=-742/104, 10-12=-62/70,

9-12=-406/2195, 6-14=0/216, 6-15=-450/101, 4-15=-1134/291, 9-22=-1250/222

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=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60

- Provide adequate drainage to prevent water ponding.
- All plates are 2x4 MT20 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SPF No.2 .
- Bearing at joint(s) 22 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 160 lb uplift at joint 2 and 220 lb uplift at joint 22.
- 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



April 11,2024

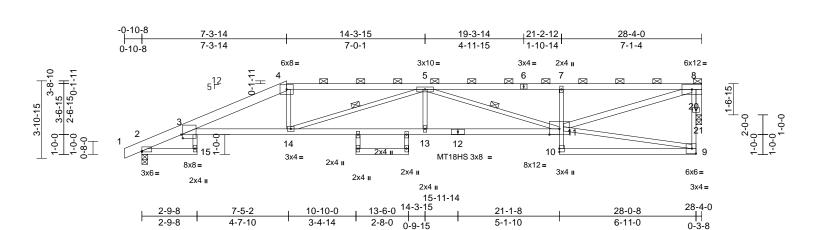




Job	Truss	Truss Type	Qty	Ply	Lot 183 HT
B240069	A16	Half Hip	1	1	Job Reference (optional)

Run: 8.73 S Mar 21 2024 Print: 8.730 S Mar 21 2024 MiTek Industries, Inc. ue Apr 🕫 🕫 🗥 ID:NrACUox8lsX6W91tSJI8GEzX64Z-RfC?PsB70Hq3NSgPqnL8w3ulTXbGk WrCDoi794z36?

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 164799587 LEE'S SUMMIT. MISSOURI



Scale = 1:58.3

Plate Offsets	(X, Y):	[2:Edge,0-0-8],	[3:0-0-15,0-2-3]
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Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.85	Vert(LL)	-0.39	13-14	>870	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.68	Vert(CT)	-0.70	13-14	>481	240	MT18HS	197/144
BCLL	0.0*	Rep Stress Incr	YES	WB	0.74	Horz(CT)	0.40	21	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-S		Wind(LL)	0.31	13-14	>999	240	Weight: 117 lb	FT = 10%

TOP CHORD 2x4 SPF 2100F 1.8E *Except* 1-4:2x6 SP

2400F 2.0E

2x3 SPF No.2 *Except* 2-15,17-18,10-9:2x4 **BOT CHORD** SPF No.2, 12-11,12-3:2x4 SPF 2100F 1.8E

WEBS 2x3 SPF No.2 *Except* 11-8:2x4 SPF No.2 **OTHERS** 2x4 SPF No.2

BRACING

TOP CHORD

Structural wood sheathing directly applied or 2-3-3 oc purlins, except end verticals, and

2-0-0 oc purlins (3-10-11 max.): 4-8.

BOT CHORD Rigid ceiling directly applied or 6-0-0 oc

bracing.

WEBS 1 Row at midpt 5-11. 5-14

REACTIONS (size) 2=0-3-8, 21=0-3-8

Max Horiz 2=121 (LC 5)

Max Uplift 2=-183 (LC 4), 21=-224 (LC 5)

Max Grav 2=1349 (LC 1), 21=1239 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/6, 2-3=-633/58, 3-4=-3253/497,

4-5=-3095/500, 5-7=-3025/561,

7-8=-2995/565, 9-20=0/134, 8-20=0/134

BOT CHORD 2-15=-41/0, 3-15=0/82, 3-14=-531/3073,

13-14=-730/3981, 11-13=-730/3981, 10-11=0/132, 7-11=-519/213, 9-10=0/75

4-14=0/505, 5-11=-1007/148, 9-11=-54/74,

8-11=-581/3019, 5-13=0/284

5-14=-1101/213, 8-21=-1267/231

NOTES

WEBS

- 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=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SPF No.2.
- Bearing at joint(s) 21 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 183 lb uplift at joint 2 and 224 lb uplift at joint 21.
- 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



April 11,2024



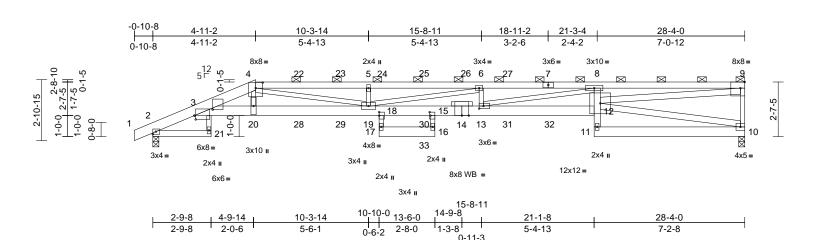


Job	Truss	Truss Type	Qty	Ply	Lot 183 HT	
B240069	A17	Half Hip Girder	1	2	Job Reference (optional)	

Run: 8.73 S Mar 21 2024 Print: 8.730 S Mar 21 2024 MiTek Industries, Inc. Tue Apr (8) \$45.02 ID:gPRZAFt?fwKeqgwUKSnaBbzX69o-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoFd4250?f

S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 164799588 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION



Scale = 1:55.1

Plate Offsets (X, Y): [3:0-0-12,0-2-3], [3:0-10-7,0-3-7], [4:0-4-0,0-3-3], [9:0-2-8,Edge], [13:0-2-8,0-1-8], [15:0-2-0,0-0-8], [18:0-2-0,Edge]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.Ó	Plate Grip DOL	1.15	TC	1.00	Vert(LL)	-0.64	13-15	>523	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.82	Vert(CT)	-1.16	13-15	>291	240		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.91	Horz(CT)	0.37	10	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-S		Wind(LL)	0.61	13-15	>555	240	Weight: 288 lb	FT = 10%

LUMBER

TOP CHORD 2x6 SP 2400F 2.0E *Except* 4-7:2x4 SPF

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

BOT CHORD 2x3 SPF No.2 *Except* 2-21,8-11:2x4 SPF

No.2, 14-12,14-3:2x6 SP 2400F 2.0E, 17-16,11-10:2x6 SPF No.2

WFBS 2x3 SPF No.2 *Except* 10-12,12-9:2x4 SPF

No.2

2x3 SPF No.2 **OTHERS**

BRACING

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (2-8-10 max.): 4-9.

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

bracing, Except:

6-0-0 oc bracing: 2-21.

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

Max Horiz 2=102 (LC 5)

Max Uplift 2=-458 (LC 4), 10=-413 (LC 5)

Max Grav 2=1919 (LC 1), 10=1730 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension TOP CHORD

1-2=0/6, 2-3=-927/231, 3-4=-7121/1876,

4-5=-9162/2406, 5-6=-9162/2406,

6-8=-10080/2575, 8-9=-7397/1890, 9-10=-1546/428

BOT CHORD 2-21=-44/0, 3-21=0/94, 3-20=-1846/6787,

19-20=-1820/6685, 18-19=-2612/10080, 15-18=-2569/9896, 13-15=-2612/10080, 12-13=-2087/8082, 17-18=0/49,

16-17=-43/184, 15-16=0/49, 11-12=0/144,

8-12=-939/340, 10-11=-200/884 **WEBS** 10-12=-789/195, 9-12=-1912/7408,

4-20=-305/1215, 5-19=-448/218, 6-13=-270/221, 4-19=-654/2630,

6-19=-1001/186, 8-13=-538/2047

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 0-9-0 oc, 2x4 - 1 row at 0-9-0 oc, 2x3 - 1 row at 0-9-0 oc.

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

Web 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; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Bearings are assumed to be: Joint 2 SPF No.2 , Joint 10 SPF No.2.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 413 lb uplift at joint 10 and 458 lb uplift at joint 2.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

11) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 71 lb down and 39 lb up at 4-11-2, 76 lb down and 38 lb up at 7-0-0, 76 lb down and 38 lb up at 9-0-0, 86 lb down and 67 lb up at 11-0-0, 86 lb down and 67 lb up at 13-0-0, 86 lb down and 66 lb up at 15-0-0, and 86 lb down and 66 lb up at 17-0-0, and 86 lb down and 66 lb up at 19-0-0 on top chord, and 269 lb down and 111 lb up at 4-11-2, 55 lb down and 37 lb up at 7-0-0, 55 lb down and 37 lb up at 9-0-0, 32 lb down at 10-11-4, 32 lb down at 13-0-0, 30 lb down at 15-0-0, 30 lb down at 17-0-0, and 30 lb down at 19-0-0, and 262 lb down and 79 lb up at 21-3-4 on bottom chord. The design/ selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (lb/ft)

Vert: 1-3=-70, 3-4=-70, 4-9=-70, 2-21=-20, 3-18=-20, 12-15=-20, 16-17=-20, 10-11=-20 Concentrated Loads (lb)



April 11,2024

NOTES

Continued on page 2 neters 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



Ply Qty Job Truss Truss Type Lot 183 HT 2 B240069 A17 Half Hip Girder Job Reference (optional Wheeler Lumber, Waverly, KS - 66871,

AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 164799588 LEE'S SUMMIT, MISSOURI

RELEASE FOR CONSTRUCTION

Run: 8.73 S Mar 21 2024 Print: 8.730 S Mar 21 2024 MiTek Industries, Inc. Tue Apr 0545:0202/29:24 ID:gPRZAFt?fwKeqgwUKSnaBbzX69o-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDow342-07f

Vert: 4=-17 (B), 7=-45 (B), 14=-23 (B), 18=-23 (B), 12=-262 (B), 20=-269 (B), 22=-17 (B), 23=-17 (B), 24=-48 (B), 25=-48 (B), 26=-45 (B), 27=-45 (B), 28=-54 (B), 29=-54 (B), 30=-23 (B), 31=-23 (B), 32=-23 (B)

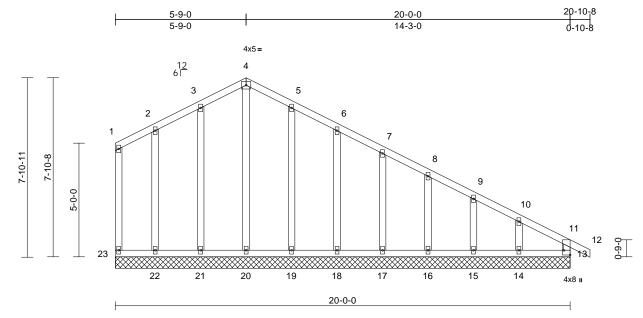


Job Truss Truss Type Qty Ply Lot 183 HT B240069 В1 Common Supported Gable Job Reference (optiona

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.73 S Mar 21 2024 Print: 8.730 S Mar 21 2024 MiTek Industries, Inc. ue Apr 1545:02 ID:p6BPZ7Ybm_3YaxR7zAJGq9zX7L6-RfC?PsB70Hq3NSgPqnL8w3uITXb0KWrCDd7J4z

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 164799589 LEE'S SUMMIT. MISSOURI



Scale = 1:50.7 Plate Offsets (X, Y): [13:Edge,0-3-8]

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	0.10	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.09	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.13	Horz(CT)	0.01	13	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-R							Weight: 103 lb	FT = 10%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins, except end verticals. BOT CHORD Rigid ceiling directly applied or 10-0-0 oc

bracing.

REACTIONS (size)

13=20-0-0, 14=20-0-0, 15=20-0-0, 16=20-0-0, 17=20-0-0, 18=20-0-0, 19=20-0-0, 20=20-0-0, 21=20-0-0,

22=20-0-0, 23=20-0-0

Max Horiz 23=-242 (LC 4)

Max Uplift 13=-38 (LC 5), 14=-125 (LC 9), 15=-35 (LC 9), 16=-59 (LC 9),

17=-53 (LC 9), 18=-55 (LC 9), 19=-55 (LC 9), 21=-59 (LC 8), 22=-47 (LC 8), 23=-31 (LC 9)

Max Grav 13=210 (LC 15), 14=182 (LC 22), 15=179 (LC 1), 16=180 (LC 22), 17=180 (LC 22), 18=178 (LC 1),

19=190 (LC 22), 20=174 (LC 16), 21=192 (LC 21), 22=173 (LC 1),

23=67 (LC 15)

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

Tension

1-23=-74/51, 1-2=-86/76, 2-3=-81/97, TOP CHORD 3-4=-83/126, 4-5=-87/131, 5-6=-104/119

> 6-7=-118/106, 7-8=-133/92, 8-9=-148/79 9-10=-159/72, 10-11=-207/78, 11-12=0/32,

11-13=-175/44

BOT CHORD 22-23=-68/200, 21-22=-68/200, 20-21=-68/200, 19-20=-68/200,

18-19=-68/200, 17-18=-68/200, 16-17=-68/200, 15-16=-68/200, 14-15=-68/200, 13-14=-68/200

WEBS

4-20=-134/41, 3-21=-152/80, 2-22=-134/86, 5-19=-150/79, 6-18=-138/79, 7-17=-140/77 8-16=-140/81, 9-15=-140/67, 10-14=-139/121

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=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable. or consult qualified building designer as per ANSI/TPI 1.
- All plates are 2x4 MT20 unless otherwise indicated.
- 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 10) All bearings are assumed to be SPF No.2.
- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 31 lb uplift at joint 23, 38 lb uplift at joint 13, 59 lb uplift at joint 21, 47 lb uplift at joint 22, 55 lb uplift at joint 19, 55 lb uplift at joint 18, 53 lb uplift at joint 17, 59 lb uplift at joint 16, 35 lb uplift at joint 15 and 125 lb uplift at joint 14.

LOAD CASE(S) Standard



April 11,2024

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



 Job
 Truss
 Truss Type
 Qty
 Ply
 Lot 183 HT

 B240069
 B2
 Common
 1
 1
 1
 Job Reference (optional)

AS NOTED FOR PLAN REVIEW

DEVELOPMENT SERVICES
164799590

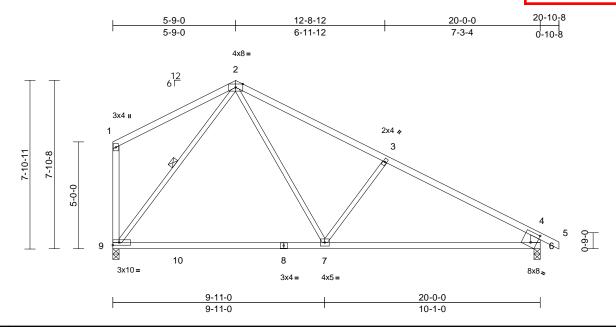
LEE'S SUMMIT, MISSOURI

RELEASE FOR CONSTRUCTION

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.73 S Mar 21 2024 Print: 8.730 S Mar 21 2024 MiTek Industries, Inc. ID:3TPMs4uDd52oO?QSz_olqZzX7JN-RfC?PsB70Hq3NSgPqnL8w3uITXb0

ue Apr **15.75**:002/29:24



Scale = 1:53.9

Plate Offsets (X, Y): [6:0-3-5,0-5-12]

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	0.77	Vert(LL)	-0.32	7-9	>732	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.51	Vert(CT)	-0.49	7-9	>477	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.62	Horz(CT)	0.02	6	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-S		Wind(LL)	0.03	7-9	>999	240	Weight: 74 lb	FT = 10%

LUMBER

TOP CHORD 2x4 SPF No.2 BOT CHORD 2x4 SPF 2400F 2.0E

2x3 SPF No.2 *Except* 9-1:2x4 SPF No.2,

6-4:2x6 SP 2400F 2.0E

BRACING

WEBS

TOP CHORD Structural wood sheathing directly applied or 3-11-13 oc purlins, except end verticals.

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

bracing.

WEBS 1 Row at midpt 2-9 **REACTIONS** (size) 6=0-3-8, 9=0-3-8

Max Horiz 9=-243 (LC 4)

Max Uplift 6=-149 (LC 9), 9=-107 (LC 9) Max Grav 6=993 (LC 2), 9=960 (LC 2)

FORCES (lb) - Maximum Compression/Maximum

Top CHORD 1-2=-174

RD 1-2=-174/110, 2-3=-1080/202,

3-4=-1314/207, 4-5=0/35, 1-9=-210/89,

4-6=-862/202

BOT CHORD 7-9=0/546, 6-7=-90/1084

WEBS 2-9=-769/118, 2-7=-102/817, 3-7=-450/274

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; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 5) All bearings are assumed to be SPF 2400F 2.0E .

6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 149 lb uplift at joint 6 and 107 lb uplift at joint 9.

LOAD CASE(S) Standard



April 11,2024





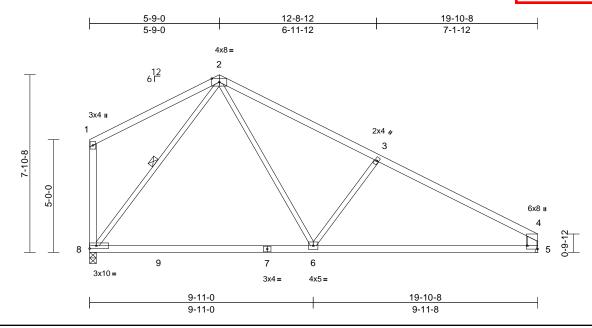
Qty Job Truss Truss Type Ply Lot 183 HT B240069 В3 Common 2 Job Reference (optiona

S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 164799591 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.73 S Mar 21 2024 Print: 8.730 S Mar 21 2024 MiTek Industries, Inc. 1 ue Apr (9) 545:02 ID:rvaNWVQtj62n7Wesv9a4ULzX7HO-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDolf442dC4f



Scale = 1:51.1

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

Loading	(psf)	Spacing	2-0-0	csı		DEFL	in	(loc)	I/defl	I /d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.61	Vert(LL)	-0.33	6-8	>705		MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.50	Vert(CT)	-0.53	6-8	>444	240	· -	
BCLL	0.0*	Rep Stress Incr	YES	WB	0.61	Horz(CT)	0.02	5	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-S		Wind(LL)	0.07	6-8	>999	240	Weight: 73 lb	FT = 10%

LUMBER

TOP CHORD 2x4 SPF No.2 **BOT CHORD** 2x4 SPF 2400F 2.0E

2x3 SPF No.2 *Except* 8-1:2x4 SPF No.2, WEBS

5-4:2x6 SP 2400F 2.0E

BRACING

TOP CHORD Structural wood sheathing directly applied or 4-2-9 oc purlins, except end verticals.

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

bracing

WEBS 1 Row at midpt 2-8

REACTIONS (size) 5= Mechanical, 8=0-3-8

Max Horiz 8=-232 (LC 6)

Max Uplift 5=-122 (LC 9), 8=-106 (LC 9)

Max Grav 5=922 (LC 2), 8=954 (LC 2) (lb) - Maximum Compression/Maximum

FORCES Tension

TOP CHORD 1-2=-176/110, 2-3=-1061/199,

3-4=-1293/205, 1-8=-211/89, 4-5=-762/170

BOT CHORD 6-8=0/532. 5-6=-112/1071

WEBS 2-8=-756/116, 2-6=-99/797, 3-6=-459/276

NOTES

- 1) 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=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Bearings are assumed to be: Joint 8 SPF 2400F 2.0E, Joint 5 SPF No.2
- Refer to girder(s) for truss to truss connections.

Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 106 lb uplift at joint 8 and 122 lb uplift at joint 5.

LOAD CASE(S) Standard



April 11,2024





Job Truss Truss Type Qty Ply Lot 183 HT B240069 **B**4 Roof Special Girder 2 Job Reference (optiona

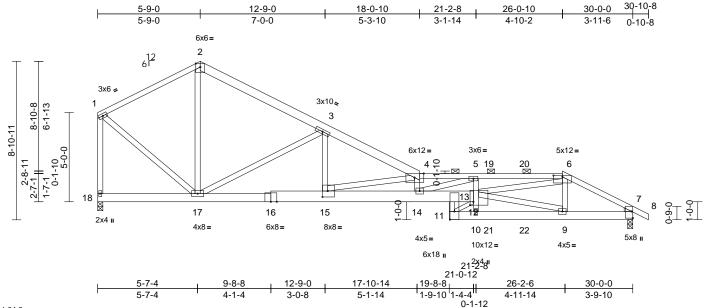
S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 164799592 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.73 S Mar 21 2024 Print: 8.730 S Mar 21 2024 MiTek Industries, Inc. 7 ID:nMoVswEWIrgwz4XecUXWKDzX6Q7-RfC?PsB70Hq3NSgPqnL8w3ulTX

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Scale = 1:64.6

Plate Offsets (X, Y): [4:0-6-4,Edge], [6:0-6-0,0-0-15], [7:Edge,0-0-13], [12:0-2-4,0-2-4], [15:0-3-8,0-4-0]

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	0.55	Vert(LL)	-0.47	13-14	>763	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.80	Vert(CT)	-0.83	13-14	>427	240		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.96	Horz(CT)	0.14	7	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-S		Wind(LL)	0.36	13-14	>997	240	Weight: 359 lb	FT = 10%

LUMBER

2x4 SPF No.2 *Except* 2-4:2x6 SPF No.2, TOP CHORD

4-6:2x4 SPF 2100F 1.8E

BOT CHORD 2x6 SPF No.2 *Except* 13-11:2x4 SPF No.2,

16-12:2x8 SP 2400F 2.0E

WEBS 2x4 SPF No.2 *Except* 11-12:2x3 SPF No.2 Right: 2x3 SPF No.2 WEDGE

BRACING

TOP CHORD

BOT CHORD

Structural wood sheathing directly applied or 5-9-11 oc purlins, except end verticals, and

2-0-0 oc purlins (4-2-11 max.): 4-6.

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

bracing.

REACTIONS (size) 7=0-3-8, 18=0-3-8

Max Horiz 18=-257 (LC 4)

Max Uplift 7=-468 (LC 9), 18=-247 (LC 9)

Max Grav 7=2477 (LC 1), 18=1732 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension TOP CHORD

1-2=-1319/272, 2-3=-1354/241, 3-4=-4515/721, 4-5=-12157/1987.

5-6=-9732/1668, 6-7=-4626/841, 7-8=0/6,

1-18=-1663/272

17-18=-51/236, 15-17=-500/4022,

14-15=-1886/12118, 13-14=-1601/9972,

12-13=-1494/9356, 11-13=-529/2933,

10-11=-600/3480, 9-10=-646/3858,

7-9=-670/3946

WEBS 1-17=-200/1433, 2-17=-95/741,

3-17=-3326/666, 3-15=-308/2483,

4-14=-307/299, 5-14=-310/2311,

9-12=-51/85, 6-12=-929/5968, 6-9=-6/495,

10-12=-305/169, 5-12=-1219/315,

4-15=-8288/1418, 11-12=-3826/659

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

Top chords connected as follows: 2x4 - 1 row at 0-6-0

oc, 2x6 - 2 rows staggered at 0-9-0 oc.

Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc, 2x8 - 2 rows staggered at 0-9-0 oc, 2x4 - 1 row at 0-9-0 oc.

Web 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; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60

- 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SPF No.2.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 247 lb uplift at joint 18 and 468 lb uplift at joint 7.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

11) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 131 lb down and 73 lb up at 30-2-4, and 131 lb down and 73 lb up at 32-2-4, and 131 lb down and 75 lb up at 34-3-10 on top chord, and 958 lb down and 127 lb up at 28-1-4, 51 lb down at 30-2-4, and 51 lb down at 32-2-4, and 258 lb down and 53 lb up at 34-2-4 on bottom chord. The design/selection of such connection device (s) is the responsibility of others.

LOAD CASE(S) Standard

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

Uniform Loads (lb/ft)

Vert: 1-2=-70, 2-4=-70, 4-6=-70, 6-8=-70, 13-18=-20, 7-11=-20

Concentrated Loads (lb)

Vert: 6=-81 (F), 13=-889 (F), 9=-258 (F), 19=-81 (F), 20=-81 (F), 21=-37 (F), 22=-37 (F)



April 11,2024

NOTES



Truss Type Job Truss Qty Ply Lot 183 HT B240069 В5 Roof Special Job Reference (optiona RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 164799593 LEE'S SUMMIT. MISSOURI

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.73 S Mar 21 2024 Print: 8.730 S Mar 21 2024 MiTek Industries. Inc. ID:LpJgzyxKVTktAt?7Ua7zd9zX6T5-RfC?PsB70Hq3NSgPqnL8w3uITXbGK

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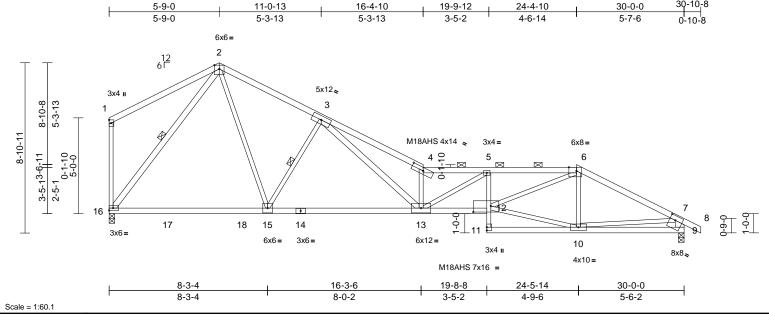


Plate Offsets (X, Y): [4:0-7-8,0-2-0], [6:0-4-12,Edge], [9:0-3-8,0-2-12], [12:0-11-0,0-3-12]

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	0.84	Vert(LL)	-0.42	13	>842	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.97	Vert(CT)	-0.75	13-15	>477	240	M18AHS	142/136
BCLL	0.0*	Rep Stress Incr	YES	WB	1.00	Horz(CT)	0.15	9	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-S		Wind(LL)	0.30	12-13	>999	240	Weight: 127 lb	FT = 10%

LUMBER

TOP CHORD 2x4 SPF No.2 *Except* 2-4:2x4 SPF 2100F

1.8E

BOT CHORD 2x4 SPF No 2 *Except* 5-11:2x3 SPF No 2

14-12:2x4 SPF 2100F 1.8E

2x3 SPF No.2 *Except* 13-3,16-2:2x4 SPF **WEBS**

No.2. 9-7:2x6 SPF No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or 3-0-5 oc purlins, except end verticals, and

2-0-0 oc purlins (2-2-0 max.): 4-6.

BOT CHORD Rigid ceiling directly applied or 2-2-0 oc

bracing.

WEBS 1 Row at midpt 3-15, 2-16

REACTIONS (size) 9=0-3-8, 16=0-3-8 Max Horiz 16=-267 (LC 4)

Max Uplift 9=-248 (LC 9), 16=-177 (LC 9)

Max Grav 9=1446 (LC 2), 16=1419 (LC 2)

FORCES (lb) - Maximum Compression/Maximum

Tension TOP CHORD

1-2=-153/112, 2-3=-1590/293, 3-4=-5154/818, 4-5=-4674/689,

5-6=-4607/739, 6-7=-2242/360, 7-8=0/35,

1-16=-198/86, 7-9=-1354/275

BOT CHORD 15-16=0/894, 13-15=-143/1992

12-13=-627/4661, 11-12=0/84, 5-12=-421/106, 10-11=-13/170,

9-10=-151/496

WEBS 2-15=-230/1578, 3-15=-1312/371,

3-13=-558/3519, 4-13=-2447/462, 5-13=-49/147, 10-12=-239/1840,

6-12=-411/2897, 6-10=-486/138,

2-16=-1393/188, 7-10=-90/1460

NOTES

1) 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=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- All plates are MT20 plates unless otherwise indicated. 4)
- 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- All bearings are assumed to be SPF No.2
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 248 lb uplift at joint 9 and 177 lb uplift at joint 16.
- 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



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



Truss Type Job Truss Qty Ply Lot 183 HT B240069 B6 Roof Special 2 Job Reference (optiona RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 164799594 LEE'S SUMMIT. MISSOURI

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.73 S Mar 21 2024 Print: 8.730 S Mar 21 2024 MiTek Industries, Inc. ID:Z6cEljB?PEaJul?S2LYCoozX6VL-RfC?PsB70Hq3NSgPqnL8w3ulTXbGK

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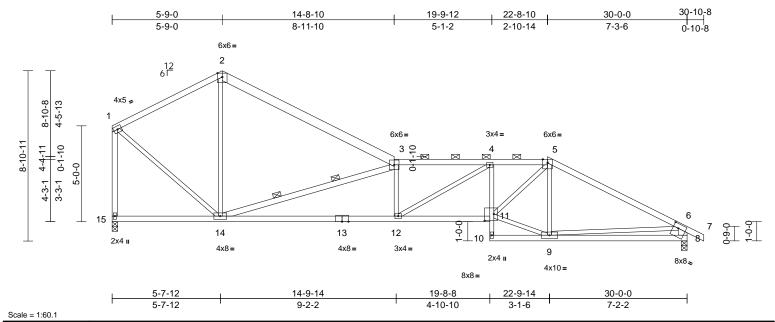


Plate Offsets (X, Y): [8:0-3-4,0-2-12], [11:0-5-12,0-4-4]

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	0.75	Vert(LL)	-0.25	11-12	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.94	Vert(CT)	-0.48	12-14	>734	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.89	Horz(CT)	0.13	8	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-S		Wind(LL)	0.19	11-12	>999	240	Weight: 133 lb	FT = 10%

LUMBER

TOP CHORD 2x4 SPF No.2 *Except* 2-3:2x6 SPF No.2 **BOT CHORD** 2x4 SPF No.2 *Except* 15-13:2x4 SPF

2100F 1.8E. 4-10:2x3 SPF No.2

WFBS 2x3 SPF No.2 *Except* 14-3:2x4 SPF No.2, 15-1:2x4 SP No.2, 8-6:2x6 SPF No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or

2-2-0 oc purlins, except end verticals, and 2-0-0 oc purlins (2-9-2 max.): 3-5.

BOT CHORD Rigid ceiling directly applied or 2-2-0 oc

bracing.

WFBS 2 Rows at 1/3 pts 3-14 REACTIONS (size) 8=0-3-8, 15=0-3-8

Max Horiz 15=-267 (LC 4)

Max Uplift 8=-248 (LC 9), 15=-177 (LC 9) Max Grav 8=1412 (LC 1), 15=1332 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-1012/214, 2-3=-1077/162,

3-4=-3379/542, 4-5=-3156/546.

5-6=-2145/357, 6-7=0/35, 1-15=-1297/200,

6-8=-1340/288

BOT CHORD 14-15=-69/228, 12-14=-394/3381,

11-12=-401/3184, 10-11=0/20, 4-11=-438/96,

9-10=-15/73, 8-9=-254/763

2-14=0/413, 3-14=-2678/543, 3-12=-80/140,

4-12=0/240, 9-11=-219/1886, 5-11=-245/1854, 5-9=-666/155, 1-14=-136/1091, 6-9=-42/1051

NOTES

WEBS

- 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=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60

- 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Bearings are assumed to be: Joint 15 SPF 2100F 1.8E, Joint 8 SPF No.2 .
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 177 lb uplift at joint 15 and 248 lb uplift at joint 8.
- 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



April 11,2024

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



Truss Type Job Truss Qty Ply Lot 183 HT B240069 B7 Roof Special 2 Job Reference (optiona RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 164799595 LEE'S SUMMIT. MISSOURI

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.73 S Mar 21 2024 Print: 8.730 S Mar 21 2024 MiTek Industries. Inc. ID:J0xi1a22YLkeclpOYbs9_zzX6Wp-RfC?PsB70Hq3NSgPqnL8w3uITXbGk

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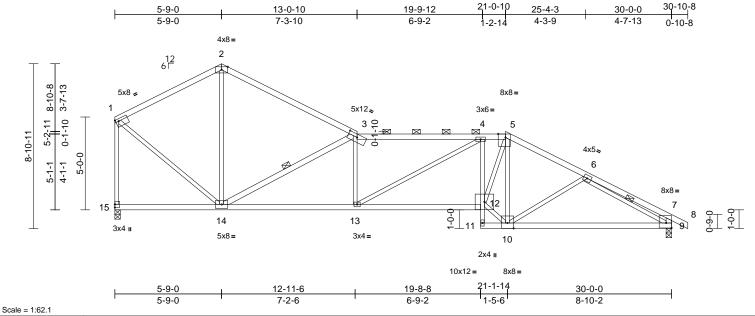


Plate Offsets (X, Y): [1:0-2-0,0-1-8], [3:0-6-0,0-2-1], [5:0-4-12,Edge], [7:Edge,0-3-4]

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	0.92	Vert(LL)	-0.19	12-13	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.75	Vert(CT)	-0.39	12-13	>921	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.80	Horz(CT)	0.14	9	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-S		Wind(LL)	0.14	12-13	>999	240	Weight: 126 lb	FT = 10%

LUMBER

BRACING

WEBS

TOP CHORD 2x4 SPF No.2 *Except* 3-5:2x4 SPF 2100F

1.8E

BOT CHORD 2x4 SPF No.2 *Except* 4-11:2x3 SPF No.2 **WEBS**

2x3 SPF No.2 *Except* 14-3,9-7:2x4 SPF No.2

TOP CHORD Structural wood sheathing directly applied,

except end verticals, and 2-0-0 oc purlins

(4-1-11 max.): 3-5.

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

bracing, Except:

6-0-0 oc bracing: 10-11. 1 Row at midpt 3-14, 6-9

REACTIONS (size) 9=0-3-8, 15=0-3-8

Max Horiz 15=-267 (LC 4)

Max Uplift 9=-247 (LC 9), 15=-177 (LC 9)

Max Grav 9=1411 (LC 1), 15=1338 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension TOP CHORD

1-2=-1002/222, 2-3=-1061/185,

3-4=-2607/440, 4-5=-2533/472, 5-6=-2014/362. 6-7=-601/110. 7-8=0/32.

1-15=-1291/207, 7-9=-481/130

BOT CHORD 14-15=-67/228, 13-14=-251/2606, 12-13=-289/2556, 11-12=-182/0,

4-12=-528/204, 10-11=-33/58,

9-10=-296/1840

WEBS 2-14=-24/435, 3-14=-1994/417, 3-13=0/213,

4-13=-7/82, 10-12=-189/2336, 5-12=-343/2308, 5-10=-1334/186,

1-14=-142/1085, 6-9=-1614/309,

6-10=-115/151

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=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SPF No.2.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 177 lb uplift at joint 15 and 247 lb uplift at joint 9.
- 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





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



Truss Type Job Truss Qty Ply Lot 183 HT B240069 В8 Roof Special 2 Job Reference (optiona S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 164799596 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.73 S Mar 21 2024 Print: 8.730 S Mar 21 2024 MiTek Industries. Inc. ID:?Woe0hKLDPjxyKNvf3ndhpzX6Z2-RfC?PsB70Hq3NSgPqnL8w3uITXbG

ue Apr 09 545:03 WrCDoi734z36

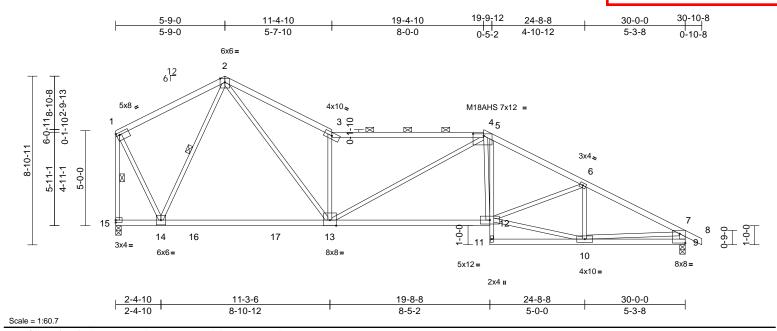


Plate Offsets (X, Y): [1:0-2-0,0-1-8], [4:0-6-12,0-1-4], [9:Edge,0-5-13]

Loading	(psf)	Spacing	2-0-0	csı		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.82	Vert(LL)	-0.26	(/	>999		MT20	197/144
TCDL	10.0	Lumber DOL	1.15	вс	0.98	Vert(CT)	-0.47	12-13	>758	240	M18AHS	142/136
BCLL	0.0*	Rep Stress Incr	YES	WB	0.87	Horz(CT)	0.08	9	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-S		Wind(LL)	0.13	12-13	>999	240	Weight: 128 lb	FT = 10%

LUMBER

TOP CHORD 2x4 SPF No.2 *Except* 3-4:2x4 SPF 2100F

1.8E

BOT CHORD 2x4 SPF No.2 *Except* 5-11:2x3 SPF No.2 WEBS 2x3 SPF No.2 *Except* 9-7:2x4 SPF No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or 3-1-3 oc purlins, except end verticals, and

> 2-0-0 oc purlins (3-4-13 max.): 3-4. Rigid ceiling directly applied or 2-2-0 oc

BOT CHORD

bracing. WEBS 1 Row at midpt 2-14, 1-15

REACTIONS (size)

9=0-3-8, 15=0-3-8 Max Horiz 15=-267 (LC 4)

Max Uplift 9=-247 (LC 9), 15=-177 (LC 9) Max Grav 9=1449 (LC 2), 15=1426 (LC 2)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-657/151, 2-3=-2498/474

3-4=-2191/357, 4-5=-2148/406,

5-6=-2377/409, 6-7=-2261/371, 7-8=0/32,

1-15=-1489/175, 7-9=-1352/271

BOT CHORD 14-15=-69/226, 13-14=0/898,

12-13=-188/2063, 11-12=0/90

5-12=-153/330, 10-11=-29/44, 9-10=-115/471 2-14=-868/180, 2-13=-400/2201,

3-13=-1507/409, 4-13=-3/185, 4-12=0/366,

10-12=-233/1964, 6-12=-53/153,

6-10=-432/135, 1-14=-95/1195, 7-10=-142/1491

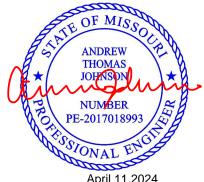
NOTES

WEBS

- 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=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60

- 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- All bearings are assumed to be SPF No.2.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 177 lb uplift at joint 15 and 247 lb uplift at joint 9.
- 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



April 11,2024

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 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/TP11 Quality Criteria, and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcscomponents.com)



Truss Type Job Truss Qty Ply Lot 183 HT B240069 В9 Roof Special Job Reference (optiona RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 164799597 LEE'S SUMMIT. MISSOURI

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.73 S Mar 21 2024 Print: 8.730 S Mar 21 2024 MiTek Industries, Inc. 7 ID:xHgqy_b4IHTPYE_mFSHxLMzX6f9-RfC?PsB70Hq3NSgPqnL8w3uITXbG

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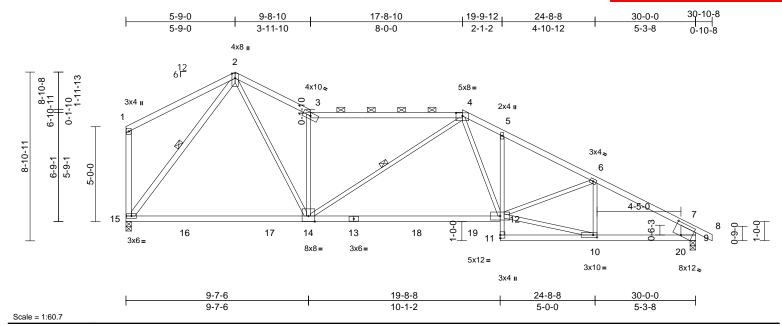


Plate Offsets (X, Y): [4:0-4-0,0-1-15], [9:0-5-6,0-7-6], [10:0-2-8,0-1-8]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.96	Vert(LL)	-0.38	12-14	>925	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.90	Vert(CT)	-0.72	12-14	>488	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.97	Horz(CT)	0.08	9	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-S		Wind(LL)	0.12	12-14	>999	240	Weight: 130 lb	FT = 10%

LUMBER

BOT CHORD

2x4 SPF No.2 *Except* 3-4:2x4 SPF 2100F TOP CHORD

1.8E, 4-8:2x4 SPF 2400F 2.0E

2x4 SPF 2100F 1.8E *Except* 13-12:2x4 SPF No.2, 5-11:2x3 SPF No.2

WEBS 2x3 SPF No.2 *Except* 15-2:2x4 SPF No.2,

15-1:2x4 SP No.2, 9-7:2x10 SP 2400F 2.0E

BRACING TOP CHORD

Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins

(3-11-15 max.): 3-4.

BOT CHORD

Rigid ceiling directly applied or 10-0-0 oc

bracing, Except:

6-0-0 oc bracing: 10-11. WFBS 1 Row at midpt 2-15, 4-14

REACTIONS (size) 9=0-3-8, 15=0-3-8

Max Horiz 15=-269 (LC 4)

Max Uplift 9=-250 (LC 9), 15=-176 (LC 9)

Max Grav 9=1468 (LC 2), 15=1436 (LC 2) (lb) - Maximum Compression/Maximum

FORCES Tension

TOP CHORD 1-2=-173/113, 2-3=-2018/381,

3-4=-1767/290, 4-5=-2327/443,

5-6=-2357/392, 6-7=-2136/349, 7-8=0/39,

1-15=-210/91, 7-9=-1288/263

BOT CHORD 14-15=0/894, 12-14=-137/1828, 11-12=0/117,

5-12=-201/99, 10-11=-67/33, 9-10=-230/1780 **WEBS** 2-15=-1364/188, 2-14=-315/1962,

3-14=-1244/349, 4-14=-180/121,

4-12=-96/781, 10-12=-192/1835,

6-12=-28/343, 6-10=-371/125

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; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom 4) 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- All bearings are assumed to be SPF 2100F 1.8E
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 250 lb uplift at joint 9 and 176 lb uplift at joint 15.
- 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



April 11,2024



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

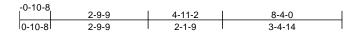


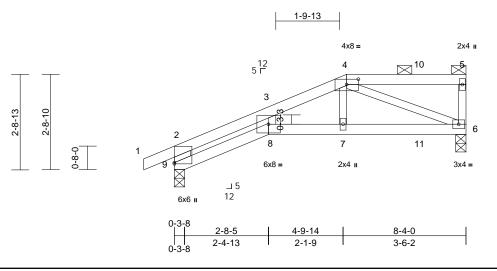
Job Truss Truss Type Qty Ply Lot 183 HT B240069 C1 Half Hip Girder Job Reference (optiona S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 164799598 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.73 S Mar 21 2024 Print: 8.730 S Mar 21 2024 MiTek Industries, Inc. ue Apr 📭 🛵 ID:9JRz9xe5DpAGkUBpK8uAJPzX6hg-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDork





Scale = 1:32.9

Plate Offsets (X, Y): [4:0-4-0,0-1-13]

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	0.84	Vert(LL)	-0.09	8	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.64	Vert(CT)	-0.15	7-8	>632	240		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.36	Horz(CT)	0.08	6	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-S		Wind(LL)	0.08	8	>999	240	Weight: 27 lb	FT = 10%

LUMBER

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

2x3 SPF No.2 *Except* 9-2:2x6 SP 2400F WEBS

BRACING TOP CHORD

Structural wood sheathing directly applied or

3-11-13 oc purlins, except end verticals, and

2-0-0 oc purlins (6-0-0 max.): 4-5.

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

bracing

REACTIONS 6=0-3-8, 9=0-3-8 (size) Max Horiz 9=97 (LC 22)

Max Uplift 6=-150 (LC 5), 9=-128 (LC 8)

Max Grav 6=575 (LC 1), 9=573 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension TOP CHORD

2-9=-845/220, 1-2=0/30, 2-3=-1251/278, 3-4=-1034/272, 4-5=-49/25, 5-6=-134/70

BOT CHORD 8-9=-299/1080, 7-8=-270/984, 6-7=-267/955

WEBS 3-8=-53/265, 4-7=-50/388, 4-6=-1000/281

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SPF No.2 .
- Bearing at joint(s) 9 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 128 lb uplift at joint 9 and 150 lb uplift at joint 6.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 81 lb down and 67 lb up at 4-11-2, and 86 lb down and 66 lb up at 7-0-0 on top chord, and 237 lb down and 64 lb up at 4-11-2, and 30 lb down at 7-0-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 10) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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

Uniform Loads (lb/ft)

Vert: 1-2=-70, 2-4=-70, 4-5=-70, 8-9=-20, 6-8=-20

Concentrated Loads (lb)

Vert: 7=-237 (B), 4=-45 (B), 10=-45 (B), 11=-23 (B)



April 11,2024

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



Job Truss Truss Type Qty Ply Lot 183 HT B240069 C2 Half Hip Job Reference (optiona

S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 164799599 LEE'S SUMMIT. MISSOURI

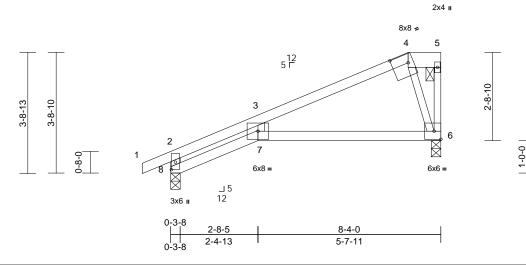
Wheeler Lumber, Waverly, KS - 66871,

Run: 8.73 S Mar 21 2024 Print: 8.730 S Mar 21 2024 MiTek Industries, Inc. ID:rkE4u8Aubywnf_WXxfVKTczX73W-RfC?PsB70Hq3NSgPqnL8w3uITXbGl<mark>(</mark>WrCDoi

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RELEASE FOR CONSTRUCTION





Scale = 1:35.5

Plate Offsets (X, Y): [4:0-6-0,0-3-4], [8:0-2-12,0-1-8]

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	0.76	Vert(LL)	-0.20	6-7	>486	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.45	Vert(CT)	-0.37	6-7	>262	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.11	Horz(CT)	0.15	6	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-S		Wind(LL)	0.20	6-7	>478	240	Weight: 26 lb	FT = 10%

LUMBER

TOP CHORD 2x4 SPF No.2 *Except* 4-5:2x6 SPF No.2

BOT CHORD 2x4 SPF No.2

2x3 SPF No.2 *Except* 8-2:2x4 SPF No.2 WEBS

BRACING

Structural wood sheathing directly applied or TOP CHORD

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

2-0-0 oc purlins (6-0-0 max.): 4-5. **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc

bracing.

REACTIONS (size) 6=0-3-8, 8=0-3-8

Max Horiz 8=137 (LC 5)

Max Uplift 6=-68 (LC 8), 8=-76 (LC 8) Max Grav 6=359 (LC 1), 8=440 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 2-8=-439/83, 1-2=0/27, 2-3=-359/0, 3-4=-241/58, 4-5=-49/25, 5-6=-83/223

BOT CHORD 7-8=-63/237, 6-7=-66/223

WEBS 3-7=0/172, 4-6=-518/182

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; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SPF No.2 .

- 7) Bearing at joint(s) 8 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 76 lb uplift at joint 8 and 68 lb uplift at joint 6.
- 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

OF MISSO ANDREW **THOMAS JOHNSON** NUMBER PE-2017018993 NESSIONAL . April 11,2024

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



Ply Job Truss Truss Type Qty Lot 183 HT B240069 C3 Monopitch Job Reference (optiona

S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 164799600 LEE'S SUMMIT. MISSOURI

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.73 S Mar 21 2024 Print: 8.730 S Mar 21 2024 MiTek Industries, Inc. ID:sAzw?S1sZyC4WUjxOHlCAtzX717-RfC?PsB70Hq3NSgPqnL8w3ulTXbG (WrCDoi) 4236 ff

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RELEASE FOR CONSTRUCTION



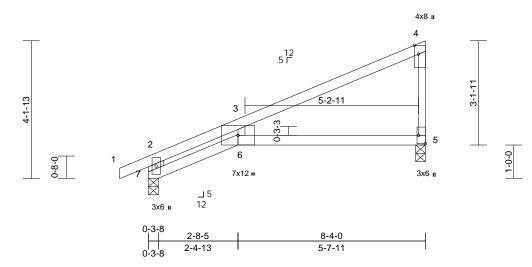


Plate Offsets (X, Y): [4:0-3-3,Edge], [5:Edge,0-2-8]

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	0.63	Vert(LL)	-0.22	5-6	>437	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.37	Vert(CT)	-0.39	5-6	>246	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.04	Horz(CT)	0.16	5	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-R		Wind(LL)	0.22	5-6	>429	240	Weight: 24 lb	FT = 10%

LOAD CASE(S) Standard

TOP CHORD 2x4 SPF 2100F 1.8E **BOT CHORD** 2x4 SPF 2100F 1.8E

2x3 SPF No.2 *Except* 7-2:2x6 SPF No.2 WEBS

BRACING

LUMBER

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.

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

bracing.

REACTIONS 5=0-3-8, 7=0-3-8 (size)

Max Horiz 7=157 (LC 5)

Max Uplift 5=-85 (LC 8), 7=-74 (LC 8) Max Grav 5=355 (LC 1), 7=443 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 2-7=-347/45, 1-2=0/30, 2-3=-192/0,

3-4=-131/17, 4-5=-238/97 6-7=-28/82, 5-6=-36/80

BOT CHORD WEBS 3-6=-54/116

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SPF 2100F 1.8E .
- Bearing at joint(s) 7 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 74 lb uplift at joint 7 and 85 lb uplift at joint 5.



April 11,2024



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



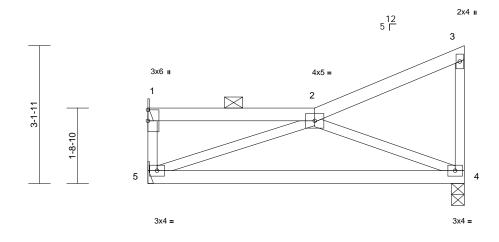
Job Truss Truss Type Qty Ply Lot 183 HT B240069 C4 Roof Special Job Reference (optiona S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 164799601 LEE'S SUMMIT. MISSOURI

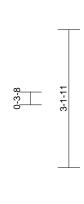
RELEASE FOR CONSTRUCTION

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.73 S Mar 21 2024 Print: 8.730 S Mar 21 2024 MiTek Industries, Inc. ue Apr 45:046 ID:OK2gdB2Ynmn9bP84JwGvaazX7?p-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoirJ4zdQ?f







Scale = 1:26.3

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	0.26	Vert(LL)	-0.14	4-5	>583	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.56	Vert(CT)	-0.29	4-5	>292	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.14	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-P							Weight: 26 lb	FT = 10%

7-2-8

LUMBER

TOP CHORD 2x4 SPF No.2 **BOT CHORD** 2x4 SPF No.2 2x3 SPF No.2 WEBS

BRACING

TOP CHORD Structural wood sheathing directly applied or

7-2-8 oc purlins, except end verticals, and

2-0-0 oc purlins: 1-2.

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

bracing.

REACTIONS (size) 1= Mechanical, 4=0-3-8, 5= Mechanical

Max Horiz 5=114 (LC 5)

Max Uplift 1=-53 (LC 4), 4=-62 (LC 8), 5=-2

(LC 8)

Max Grav 1=129 (LC 1), 4=315 (LC 1), 5=186

(LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-5=0/0, 1-2=-20/15, 2-3=-70/35, 3-4=-116/48

BOT CHORD 4-5=-104/301

WEBS 2-5=-322/122, 2-4=-328/144

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SPF No.2
- Refer to girder(s) for truss to truss connections.

- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 2 lb uplift at joint 5, 53 lb uplift at joint 1 and 62 lb uplift at joint 4.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or
- Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.

LOAD CASE(S) Standard



April 11,2024





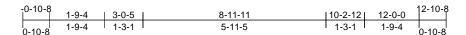
Job	Truss	Truss Type	Qty	Ply	Lot 183 HT
B240069	D1	Hip Girder	1	1	Job Reference (optional)

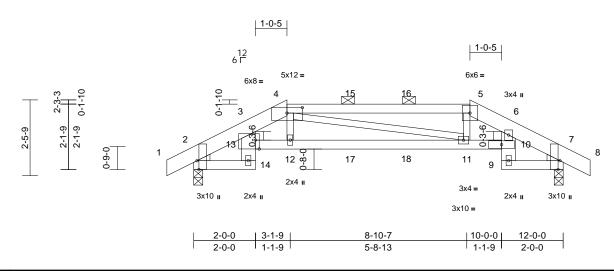
RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 164799602 LEE'S SUMMIT. MISSOURI

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.73 S Mar 21 2024 Print: 8.730 S Mar 21 2024 MiTek Industries, Inc. ID:9mO61JEmDMu4fGaHK?HCxEzX6iC-RfC?PsB70Hq3NSgPqnL8w3ulTXt<mark>-</mark>GKWrCDol

ue Apr 00 5/45:04/





Scale = 1:37.4

Plate Offsets (X, Y): [2:0-3-8,Edge], [3:0-1-8,0-3-7], [4:0-6-0,0-2-2], [7:0-3-8,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	0.80	Vert(LL)	-0.06	11-12	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.61	Vert(CT)	-0.12	11-12	>999	240		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.10	Horz(CT)	0.06	7	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-S		Wind(LL)	0.06	11-12	>999	240	Weight: 48 lb	FT = 10%

LUMBER

2x6 SPF No.2 *Except* 4-5:2x4 SPF No.2 TOP CHORD **BOT CHORD** 2x4 SPF No.2 *Except* 14-3,6-9:2x6 SP

2400F 2.0E

WFBS 2x3 SPF No 2 WEDGE Left: 2x3 SPF No.2 Right: 2x3 SPF No.2

BRACING

Structural wood sheathing directly applied or TOP CHORD

5-6-9 oc purlins, except

2-0-0 oc purlins (3-4-2 max.): 4-5. BOT CHORD Rigid ceiling directly applied or 9-3-13 oc

bracing.

REACTIONS (size) 2=0-3-8, 7=0-3-8

Max Horiz 2=-34 (LC 9)

Max Uplift 2=-188 (LC 8), 7=-185 (LC 9) Max Grav 2=789 (LC 1), 7=779 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/6, 2-3=-982/229, 3-4=-1698/440,

4-5=-1572/404, 5-6=-1664/417,

6-7=-967/227, 7-8=0/6

BOT CHORD 2-14=-169/690, 13-14=0/42, 3-13=-28/6,

12-13=-403/1583, 11-12=-403/1605,

10-11=-361/1549, 9-10=0/42, 6-10=-33/6,

7-9=-146/679

WEBS 4-12=-9/295, 4-11=-115/56, 5-11=-16/310

NOTES

- Unbalanced roof live loads have been considered for 1)
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SPF No.2.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 188 lb uplift at joint 2 and 185 lb uplift at joint 7.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 159 lb down and 93 lb up at 3-0-5, 81 lb down and 46 lb up at 5-1-1, and 81 lb down and 46 lb up at 6-10-15, and 74 lb down and 47 lb up at 8-11-11 on top chord, and 78 lb down and 43 lb up at 3-0-5, 33 lb down and 17 lb up at 5-1-1, and 33 lb down and 17 lb up at 6-10-15, and 78 lb down and 43 lb up at 8-10-3 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 10) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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

Plate Increase=1.15

Uniform Loads (lb/ft)

Vert: 1-4=-70, 4-5=-70, 5-8=-70, 2-14=-20,

10-13=-20, 7-9=-20 Concentrated Loads (lb)

Vert: 4=-51 (B), 5=-33 (B), 12=-78 (B), 11=-78 (B), 15=-33 (B), 16=-33 (B), 17=-33 (B), 18=-33 (B)



April 11,2024



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



Ply Job Truss Truss Type Qty Lot 183 HT B240069 D2 Hip Job Reference (optiona RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 164799603 LEE'S SUMMIT. MISSOURI

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.73 S Mar 21 2024 Print: 8.730 S Mar 21 2024 MiTek Industries, Inc. 7 ID:vQA9kMu8MGvqrCbyKBnAxqzX6jx-RfC?PsB70Hq3NSgPqnL8w3uITXbG<mark>K</mark>WrCDol**X**

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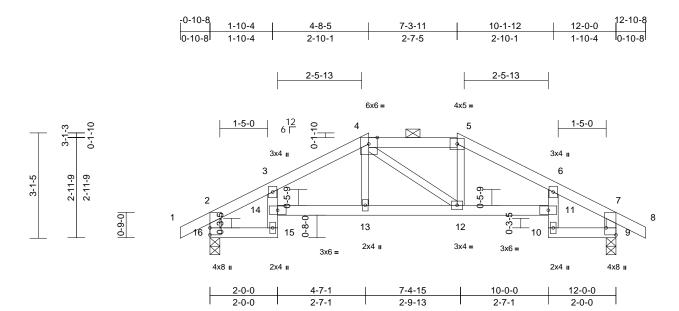


Plate Offsets (X, Y): [9:Edge,0-3-8]

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	0.33	Vert(LL)	-0.05	13-14	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.48	Vert(CT)	-0.08	13-14	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.05	Horz(CT)	0.07	9	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-S		Wind(LL)	0.04	13-14	>999	240	Weight: 40 lb	FT = 10%

LUMBER

BRACING

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

2x3 SPF No.2 *Except* 16-2,9-7:2x4 SPF WEBS

TOP CHORD

Structural wood sheathing directly applied or 5-11-9 oc purlins, except end verticals, and

2-0-0 oc purlins (6-0-0 max.): 4-5.

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

bracing

REACTIONS 9=0-3-8, 16=0-3-8 (size)

Max Horiz 16=-55 (LC 6)

Max Uplift 9=-79 (LC 9), 16=-79 (LC 8)

Max Grav 9=598 (LC 1), 16=598 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/32, 2-3=-585/62, 3-4=-838/77,

4-5=-741/86, 5-6=-838/65, 6-7=-585/62, 7-8=0/32, 2-16=-546/89, 7-9=-546/85

15-16=-48/417, 14-15=-19/15, 3-14=-48/45,

13-14=-27/746. 12-13=-28/740. 11-12=0/746.

10-11=-19/14. 6-11=-48/44. 9-10=-19/418

WEBS 4-13=0/151, 4-12=-106/107, 5-12=0/152

NOTES

BOT CHORD

- 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=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SPF No.2.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 79 lb uplift at joint 16 and 79 lb uplift at joint 9.
- 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



April 11,2024





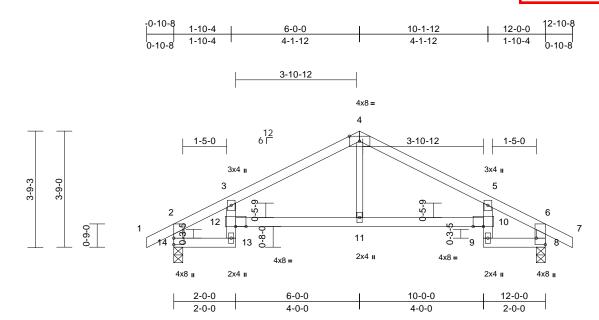


Ply Job Truss Truss Type Qty Lot 183 HT B240069 D3 Roof Special 2 Job Reference (optiona RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 164799604 LEE'S SUMMIT. MISSOURI

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.73 S Mar 21 2024 Print: 8.730 S Mar 21 2024 MiTek Industries. Inc. ID:JBH?fxJ1gWse4qwjW6ww?izX6kh-RfC?PsB70Hq3NSgPqnL8w3uITXbGh

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Scale = 1:37.2

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

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	0.42	Vert(LL)	-0.08	10-11	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.50	Vert(CT)	-0.14	10-11	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.09	Horz(CT)	0.11	8	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-R		Wind(LL)	0.08	11-12	>999	240	Weight: 37 lb	FT = 10%

LUMBER

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

2x4 SPF No.2 *Except* 11-4:2x3 SPF No.2 WEBS

BRACING

TOP CHORD Structural wood sheathing directly applied or 5-10-1 oc purlins, except end verticals. **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc

bracing.

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

Max Horiz 14=-64 (LC 6)

Max Uplift 8=-88 (LC 9), 14=-88 (LC 8) Max Grav 8=598 (LC 1), 14=598 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension 1-2=0/32, 2-3=-584/75, 3-4=-753/91,

TOP CHORD 4-5=-753/105, 5-6=-584/76, 6-7=0/32,

2-14=-544/97, 6-8=-544/93

BOT CHORD 13-14=-71/416, 12-13=-20/18, 3-12=-55/55,

11-12=-24/653, 10-11=-24/653, 9-10=-20/16,

5-10=-55/56, 8-9=-30/416

WEBS 4-11=0/276

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; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SPF No.2.

Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 88 lb uplift at joint 14 and 88 lb uplift at joint 8.

LOAD CASE(S) Standard

OF MISSO **ANDREW THOMAS** JOHNSON NUMBER ROLLESSIONAL ... PE-2017018993



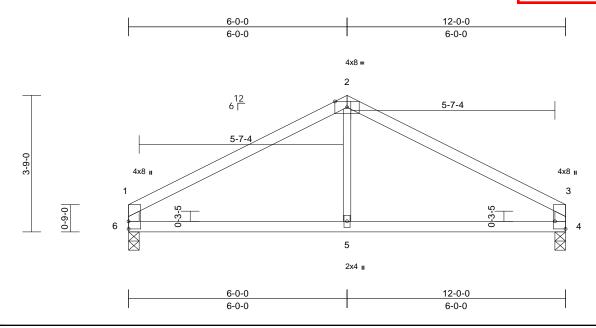


Ply Job Truss Truss Type Qty Lot 183 HT B240069 D4 Common Job Reference (optiona RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 164799605 LEE'S SUMMIT. MISSOURI

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.73 S Mar 21 2024 Print: 8.730 S Mar 21 2024 MiTek Industries, Inc. ue Apr 0 5/45:04

ID:IfFhA9xatGi7AKrnbwwbrMzX6Db-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J42J59



Scale = 1:31.6

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

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	0.47	Vert(LL)	-0.03	4-5	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.26	Vert(CT)	-0.06	4-5	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.07	Horz(CT)	0.01	4	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-R		Wind(LL)	0.01	5-6	>999	240	Weight: 33 lb	FT = 10%

LUMBER

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

2x4 SPF No.2 *Except* 5-2:2x3 SPF No.2 WEBS

BRACING

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.

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

bracing.

REACTIONS (size) 4=0-3-8, 6=0-3-8

Max Horiz 6=-57 (LC 4)

Max Uplift 4=-64 (LC 9), 6=-64 (LC 8) Max Grav 4=527 (LC 1), 6=527 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-642/89, 2-3=-642/89, 1-6=-458/102,

3-4=-458/102

5-6=-24/488, 4-5=-24/488 **BOT CHORD** WFBS 2-5=0/236

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=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SPF No.2 .
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 64 lb uplift at joint 6 and 64 lb uplift at joint 4.

LOAD CASE(S) Standard



April 11,2024



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



Ply Job Truss Truss Type Qty Lot 183 HT B240069 J1 Diagonal Hip Girder Job Reference (optiona

Wheeler Lumber, Waverly, KS - 66871,

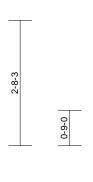
Run: 8.73 S Mar 21 2024 Print: 8.730 S Mar 21 2024 MiTek Industries, Inc. ID:I03b6RfjijkxmxXaYYU1U1zX6mp-RfC?PsB70Hq3NSgPqnL8w3uITXbGK

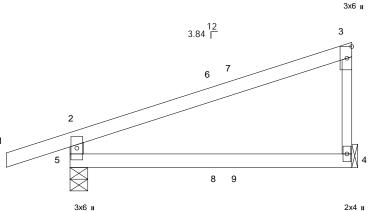
DEVELOPMENT SERVICES 164799606 LEE'S SUMMIT. MISSOURI ue Apr 09 5 45:04

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW

-1-4-6 6-0-7

1-4-6 6-0-7





6-0-7

Scale = 1:24.7

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	0.49	Vert(LL)	-0.04	4-5	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.30	Vert(CT)	-0.09	4-5	>745	240		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.00	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-R		Wind(LL)	0.02	4-5	>999	240	Weight: 18 lb	FT = 10%

LUMBER

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

2x4 SPF No.2 *Except* 3-4:2x3 SPF No.2 WEBS

BRACING

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.

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

bracing.

REACTIONS (size) 4= Mechanical, 5=0-4-9

Max Horiz 5=112 (LC 7)

Max Uplift 4=-54 (LC 8), 5=-112 (LC 4) Max Grav 4=247 (LC 1), 5=381 (LC 1)

FORCES Tension

(lb) - Maximum Compression/Maximum

TOP CHORD 2-5=-335/154, 1-2=0/32, 2-3=-145/15, 3-4=-176/79

BOT CHORD 4-5=-31/53

NOTES

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SPF No.2.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 112 lb uplift at joint 5 and 54 lb uplift at joint 4.

- 7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 78 lb down and 46 lb up at 3-0-14, and 67 lb down and 43 lb up at 3-6-3 on top chord, and 6 lb down at 3-0-14, and 6 lb down at 3-6-3 on bottom chord. The design/ selection of such connection device(s) is the responsibility of others.
- In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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

Plate Increase=1.15

Uniform Loads (lb/ft)

Vert: 1-2=-70, 2-3=-70, 4-5=-20

Concentrated Loads (lb)

Vert: 8=-1 (F), 9=0 (B)







Truss Type Ply Job Truss Qty Lot 183 HT B240069 J2 Jack-Open Job Reference (optiona

Wheeler Lumber, Waverly, KS - 66871,

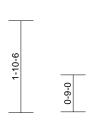
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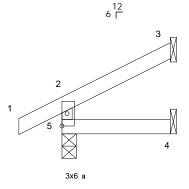
DEVELOPMENT SERVICES 164799607 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW

-0-10-8 2-2-6









Scale = 1:23.4

2-2-6

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.07	Vert(LL)	0.00	4-5	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.03	Vert(CT)	0.00	4-5	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-R		Wind(LL)	0.00	4-5	>999	240	Weight: 7 lb	FT = 10%

LUMBER

TOP CHORD 2x4 SPF No.2 **BOT CHORD** 2x4 SPF No.2 2x3 SPF No.2 WEBS

BRACING

TOP CHORD Structural wood sheathing directly applied or 2-2-6 oc purlins, except end verticals.

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

bracing.

REACTIONS (size) 3= Mechanical, 4= Mechanical,

5=0-3-8 Max Horiz 5=52 (LC 8)

Max Uplift 3=-37 (LC 8), 5=-23 (LC 8) Max Grav

3=56 (LC 1), 4=38 (LC 3), 5=177

(LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 2-5=-155/44, 1-2=0/31, 2-3=-42/19

BOT CHORD 4-5=0/0

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SPF No.2
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 23 lb uplift at joint 5 and 37 lb uplift at joint 3.

LOAD CASE(S) Standard



April 11,2024



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



Truss Type Job Truss Qty Ply Lot 183 HT B240069 J3 Jack-Closed Girder Job Reference (optiona

S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 164799608 LEE'S SUMMIT. MISSOURI

2-8-11

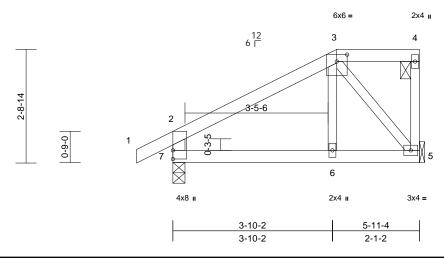
Wheeler Lumber, Waverly, KS - 66871,

Run: 8.73 S Mar 21 2024 Print: 8.730 S Mar 21 2024 MiTek Industries, Inc. ID:t_RJc21AOFeY_hPYtYXIEZzX6mK-RfC?PsB70Hq3NSgPqnL8w3ulTXbG (WrCDoixe

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RELEASE FOR CONSTRUCTION





Scale = 1:27.7

Plate Offsets (X, Y): [3:0-3-0,0-2-0]

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	0.29	Vert(LL)	-0.01	6	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.18	Vert(CT)	-0.01	6-7	>999	240		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.13	Horz(CT)	0.00	5	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-S		Wind(LL)	0.01	6	>999	240	Weight: 21 lb	FT = 10%

LUMBER

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

2x3 SPF No.2 *Except* 7-2:2x4 SPF No.2 WEBS

BRACING

TOP CHORD Structural wood sheathing directly applied or

5-11-4 oc purlins, except end verticals, and

2-0-0 oc purlins: 3-4.

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

bracing.

REACTIONS (size) 5= Mechanical, 7=0-3-8

Max Horiz 7=109 (LC 7)

Max Uplift 5=-120 (LC 5), 7=-95 (LC 8) Max Grav 5=471 (LC 1), 7=451 (LC 1)

(lb) - Maximum Compression/Maximum

Tension

TOP CHORD 2-7=-396/119, 1-2=0/32, 2-3=-426/91, 3-4=-37/28, 4-5=-60/33

BOT CHORD 6-7=-102/314, 5-6=-102/302 **WEBS** 3-6=-18/287, 3-5=-483/137

NOTES

FORCES

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SPF No.2.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 95 lb uplift at joint 7 and 120 lb uplift at joint 5.

- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 101 lb down and 75 lb up at 3-11-6 on top chord, and 258 lb down and 53 lb up at 3-11-6 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 10) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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

Uniform Loads (lb/ft)

Vert: 1-2=-70, 2-3=-70, 3-4=-70, 5-7=-20

Concentrated Loads (lb) Vert: 6=-258 (F), 3=-81 (F)







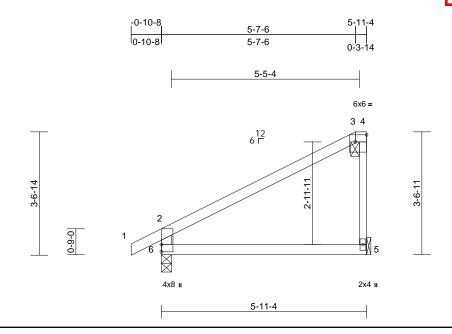
Truss Type Ply Job Truss Qty Lot 183 HT B240069 J4 Jack-Closed Job Reference (optiona S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 164799609 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.73 S Mar 21 2024 Print: 8.730 S Mar 21 2024 MiTek Industries, Inc. 7 ID:hWd0TDty?IY9Tx35FOpnLKzX6nq-RfC?PsB70Hq3NSgPqnL8w3uITXbGi

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Scale = 1:33.3

Plate Offsets (X, Y): [3:Edge,0-2-7]

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	0.44	Vert(LL)	-0.04	5-6	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.27	Vert(CT)	-0.09	5-6	>738	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	5	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-R		Wind(LL)	0.03	5-6	>999	240	Weight: 18 lb	FT = 10%

LUMBER

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

2x4 SPF No.2 *Except* 4-5:2x3 SPF No.2 WEBS

BRACING

TOP CHORD Structural wood sheathing directly applied or

5-11-4 oc purlins, except end verticals, and

2-0-0 oc purlins: 3-4.

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

bracing.

REACTIONS (size) 5= Mechanical, 6=0-3-8

Max Horiz 6=144 (LC 5)

Max Uplift 5=-61 (LC 8), 6=-54 (LC 8) Max Grav 5=250 (LC 1), 6=334 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 2-6=-292/101, 1-2=0/32, 2-3=-153/32,

3-4=-57/47, 4-5=-177/83

BOT CHORD 5-6=-42/43

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=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SPF No.2
- Refer to girder(s) for truss to truss connections.

- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 54 lb uplift at joint 6 and 61 lb uplift at joint 5.
- 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







Truss Type Ply Job Truss Qty Lot 183 HT B240069 J5 Jack-Open 8 Job Reference (optiona

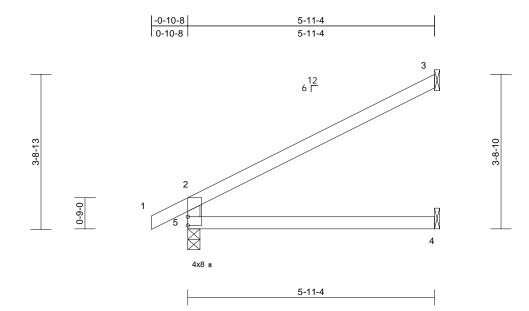
DEVELOPMENT SERVICES 164799610 LEE'S SUMMIT. MISSOURI

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.73 S Mar 21 2024 Print: 8.730 S Mar 21 2024 MiTek Industries, Inc. ID:hRWJCz2I0szpJUs0G6bqb_zX6ou-RfC?PsB70Hq3NSgPqnL8w3uITXbGI

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RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW



Scal	le =	1:27	.7

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	0.52	Vert(LL)	-0.05	4-5	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.31	Vert(CT)	-0.11	4-5	>610	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.04	3	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-R		Wind(LL)	0.06	4-5	>999	240	Weight: 16 lb	FT = 10%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 5-11-4 oc purlins, except end verticals. **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc

bracing.

REACTIONS (size) 3= Mechanical, 4= Mechanical,

5=0-3-8

Max Horiz 5=127 (LC 8)

Max Uplift 3=-99 (LC 8), 5=-33 (LC 8)

3=180 (LC 1), 4=108 (LC 3), 5=336 Max Grav

(LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 2-5=-293/89, 1-2=0/32, 2-3=-112/62

BOT CHORD 4-5=0/0

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SPF No.2
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 33 lb uplift at joint 5 and 99 lb uplift at joint 3.

LOAD CASE(S) Standard



April 11,2024



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



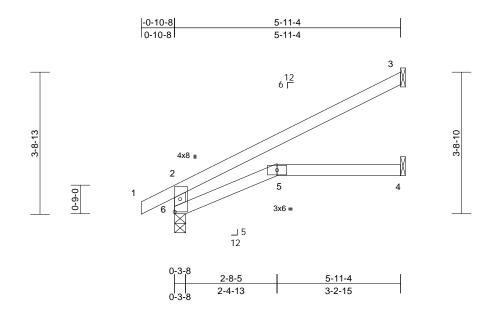
Truss Type Ply Job Truss Qty Lot 183 HT Jack-Open B240069 J6 Job Reference (optiona

S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 164799611 LEE'S SUMMIT. MISSOURI

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.73 S Mar 21 2024 Print: 8.730 S Mar 21 2024 MiTek Industries, Inc. ue Apr 1545:05 ID:sk6BoHZCRZxUWLoKwitSzYzX6pW-RfC?PsB70Hq3NSgPqnL8w3uITXbcKWrCDoirJ4x

RELEASE FOR CONSTRUCTION



Scale = 1:30.3

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	0.53	Vert(LL)	-0.05	4-5	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.29	Vert(CT)	-0.11	4-5	>598	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.05	4	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-R		Wind(LL)	0.06	5-6	>999	240	Weight: 16 lb	FT = 10%

LOAD CASE(S) Standard

LUMBER TOP CHORD

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

2x4 SPF No.2 WEBS

BRACING

TOP CHORD Structural wood sheathing directly applied or 5-11-4 oc purlins, except end verticals. BOT CHORD Rigid ceiling directly applied or 6-0-0 oc

bracing.

REACTIONS (size) 3= Mechanical, 4= Mechanical, 6=0-3-8

Max Horiz 6=127 (LC 8)

Max Uplift 3=-100 (LC 8), 6=-32 (LC 8)

3=180 (LC 1), 4=108 (LC 3), 6=336 Max Grav

(LC 1)

FORCES (lb) - Maximum Compression/Maximum

TOP CHORD 2-6=-292/88, 1-2=0/32, 2-3=-112/63

BOT CHORD 5-6=-46/1, 4-5=0/0

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SPF No.2
- Refer to girder(s) for truss to truss connections.
- Bearing at joint(s) 6 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 100 lb uplift at joint 3 and 32 lb uplift at joint 6.



April 11,2024



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



Job	Truss	Truss Type	Qty	Ply	Lot 183 HT
B240069	J7	Jack-Closed	1	1	Job Reference (optional

RELEASE FOR CONSTRUCTION

AS NOTED FOR PLAN REVIEW

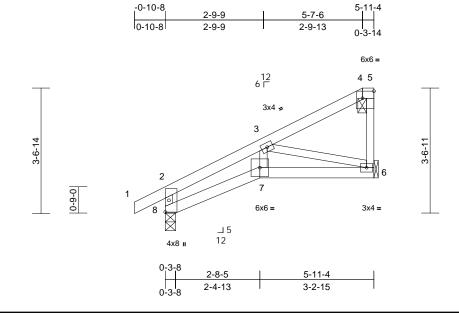
DEVELOPMENT SERVICES
164799612

LEE'S SUMMIT, MISSOURI

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.73 S Mar 21 2024 Print: 8.730 S Mar 21 2024 MiTek Industries, Inc. Tue Apr q 5.75 (6 ID:VVntBmlPdp9ctz76d5UI4vzX6ps-RfC?PsB70Hq3NSgPqnL8w3uITXbGKV rCDoi7J 2004

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Scale = 1:32.8

Plate Offsets (X, Y): [4:Edge,0-2-7]

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	0.39	Vert(LL)	-0.03	7	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.25	Vert(CT)	-0.05	7	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.09	Horz(CT)	0.02	6	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-S		Wind(LL)	0.02	7	>999	240	Weight: 21 lb	FT = 10%

LUMBER

TOP CHORD 2x4 SPF No.2 BOT CHORD 2x4 SPF No.2 WEBS 2x3 SPF No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or

5-11-4 oc purlins, except end verticals, and

2-0-0 oc purlins: 4-5.

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

bracing.

REACTIONS (size) 6= Mechanical, 8=0-3-8

Max Horiz 8=128 (LC 5)

Max Uplift 6=-64 (LC 8), 8=-51 (LC 8) Max Grav 6=252 (LC 1), 8=332 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 2-8=-398/108, 1-2=0/31, 2-3=-452/103,

3-4=-72/25, 4-5=-37/27, 5-6=-118/40

BOT CHORD 7-8=-135/360, 6-7=-123/325 WEBS 3-7=-7/175, 3-6=-317/147

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; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- 4) 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 6) All bearings are assumed to be SPF No.2 .
- Refer to girder(s) for truss to truss connections.

- Bearing at joint(s) 8 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 51 lb uplift at joint 8 and 64 lb uplift at joint 6.
- 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



April 11,2024





Job Truss Truss Type Qty Ply Lot 183 HT B240069 J8 Jack-Closed Girder Job Reference (optiona

S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 164799613 LEE'S SUMMIT. MISSOURI

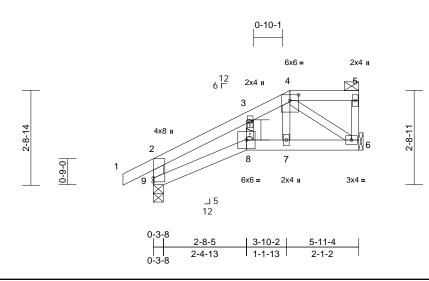
Wheeler Lumber, Waverly, KS - 66871,

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RELEASE FOR CONSTRUCTION





Scale = 1:33.3

Plate Offsets (X, Y): [4:0-3-0,0-2-0]

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	0.54	Vert(LL)	-0.03	8	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.41	Vert(CT)	-0.05	8	>999	240		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.14	Horz(CT)	0.03	6	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-S		Wind(LL)	0.03	8	>999	240	Weight: 20 lb	FT = 10%

LUMBER

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

2x3 SPF No.2 *Except* 9-2:2x4 SPF 2100F WEBS

BRACING

TOP CHORD Structural wood sheathing directly applied or

5-11-4 oc purlins, except end verticals, and

2-0-0 oc purlins: 4-5.

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

bracing

REACTIONS 6= Mechanical, 9=0-3-8 (size)

Max Horiz 9=94 (LC 22)

Max Uplift 6=-120 (LC 5), 9=-93 (LC 8)

Max Grav 6=476 (LC 1), 9=453 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD

2-9=-583/153, 1-2=0/32, 2-3=-730/157, 3-4=-569/170 4-5=-27/19 5-6=-64/33

BOT CHORD 8-9=-175/586, 7-8=-160/543, 6-7=-156/518

WEBS 3-8=-17/148, 4-7=-75/340, 4-6=-632/195

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SPF No.2.
- Refer to girder(s) for truss to truss connections.

- 7) Bearing at joint(s) 9 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 120 lb uplift at joint 6 and 93 lb uplift at joint 9.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 102 lb down and 75 lb up at 3-11-6 on top chord, and 264 lb down and 55 lb up at 3-11-6 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 11) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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

Uniform Loads (lb/ft)

Vert: 1-2=-70, 2-4=-70, 4-5=-70, 8-9=-20, 6-8=-20

Concentrated Loads (lb)

Vert: 7=-264 (B), 4=-82 (B)



April 11,2024



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



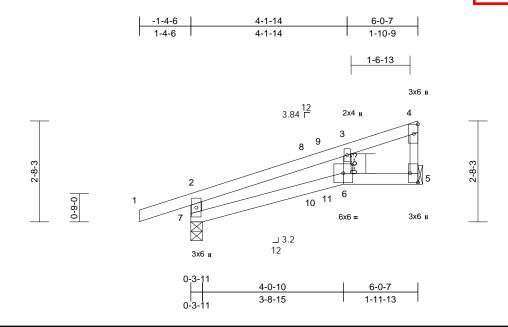
Job Truss Truss Type Qty Ply Lot 183 HT B240069 J9 Diagonal Hip Girder Job Reference (optiona

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 164799614 LEE'S SUMMIT. MISSOURI

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.73 S Mar 21 2024 Print: 8.730 S Mar 21 2024 MiTek Industries, Inc. ID:36eLx9FDUbLZYIjwUh8VOazX74i-RfC?PsB70Hq3NSgPqnL8w3ulTXbGK

ue Apr 09 5 45:05 WrCDoi734z36?



Scale = 1:30.6

Plate Offsets (X, Y): [5: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	0.41	Vert(LL)	-0.05	6-7	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.25	Vert(CT)	-0.09	6-7	>734	240		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.02	Horz(CT)	0.03	5	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-R		Wind(LL)	0.05	6-7	>999	240	Weight: 18 lb	FT = 10%

LUMBER

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

2x3 SPF No.2 *Except* 7-2:2x4 SPF No.2 WEBS

BRACING

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.

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

bracing.

REACTIONS 5= Mechanical, 7=0-3-11 (size)

Max Horiz 7=96 (LC 22)

Max Uplift 5=-56 (LC 8), 7=-110 (LC 4)

Max Grav 5=249 (LC 1), 7=383 (LC 1) (lb) - Maximum Compression/Maximum

FORCES

Tension

TOP CHORD 2-7=-353/134, 1-2=0/32, 2-3=-208/9, 3-4=-126/44 4-5=-140/36

BOT CHORD 6-7=-48/142, 5-6=-47/137

WFBS 3-6=-18/76

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SPF No.2.
- Refer to girder(s) for truss to truss connections.
- Bearing at joint(s) 7 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 110 lb uplift at joint 7 and 56 lb uplift at joint 5.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 80 lb down and 49 lb up at 3-0-14, and 67 lb down and 42 lb up at 3-6-3 on top chord, and 7 lb down at 3-0-14, and 6 lb down and 0 lb up at 3-6-3 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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

Uniform Loads (lb/ft)

Vert: 1-2=-70, 2-4=-70, 6-7=-20, 5-6=-20

Concentrated Loads (lb) Vert: 10=-6 (B), 11=0 (F)



April 11,2024



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

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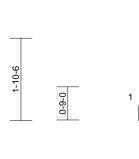
Truss Type Ply Job Truss Qty Lot 183 HT Jack-Open B240069 J10 Job Reference (optiona

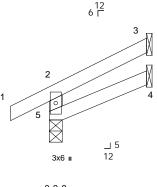
Wheeler Lumber, Waverly, KS - 66871,

Run: 8.73 S Mar 21 2024 Print: 8.730 S Mar 21 2024 MiTek Industries, Inc. ID:Lf_ii6jcs4opGXLTvSMBclzX75O-RfC?PsB70Hq3NSgPqnL8w3uITXbGKW rCDoi7J4z

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 164799615 LEE'S SUMMIT. MISSOURI ue Apr (1) 5/45:05

-0-10-8 2-2-6 0-10-8 2-2-6







0-3-8		
	2-2-6	
0-3-8	1-10-14	

Scale = 1:26.1

Loading	(psf)	Spacing	2-0-0	csı		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.07	Vert(LL)	0.00	4-5	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.03	Vert(CT)	0.00	4-5	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-R		Wind(LL)	0.00	4-5	>999	240	Weight: 7 lb	FT = 10%

LUMBER

LOAD CASE(S) Standard

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 2-2-6 oc purlins, except end verticals.

BOT CHORD Rigid ceiling directly applied or 6-0-0 oc

bracing.

REACTIONS (size) 3= Mechanical, 4= Mechanical,

5=0-3-8

Max Horiz 5=51 (LC 8)

Max Uplift 3=-37 (LC 8), 5=-23 (LC 8)

3=54 (LC 1), 4=36 (LC 3), 5=179 Max Grav

(LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 2-5=-157/44, 1-2=0/32, 2-3=-42/18

BOT CHORD 4-5=-17/11

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SPF No.2
- Refer to girder(s) for truss to truss connections.
- Bearing at joint(s) 5 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 23 lb uplift at joint 5 and 37 lb uplift at joint 3.



April 11,2024

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

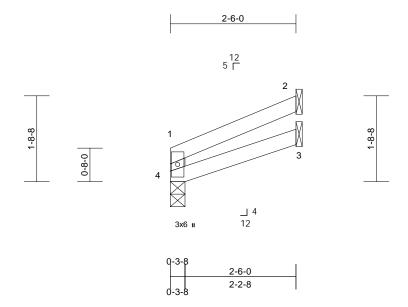


Truss Type Job Truss Qty Ply Lot 183 HT Jack-Open B240069 J11 Job Reference (optiona

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.73 S Mar 21 2024 Print: 8.730 S Mar 21 2024 MiTek Industries, Inc. ID:ekNwbhbLC?YD3?aYJLArCBzX75Y-RfC?PsB70Hq3NSgPqnL8w3uITXbC RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 164799616 LEE'S SUMMIT. MISSOURI

ue Apr (**9)5/45**:05



Scale = 1:22.9

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.08	Vert(LL)	0.00	3-4	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.04	Vert(CT)	0.00	3-4	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	2	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-R		Wind(LL)	0.00	3-4	>999	240	Weight: 7 lb	FT = 10%

LOAD CASE(S) Standard

LUMBER TOP CHORD

2x4 SPF No.2 2x4 SPF No.2

BOT CHORD 2x4 SPF No.2 WEBS

BRACING

TOP CHORD Structural wood sheathing directly applied or 2-6-0 oc purlins, except end verticals.

BOT CHORD Rigid ceiling directly applied or 6-0-0 oc

bracing.

REACTIONS (size) 2= Mechanical, 3= Mechanical,

4=0-3-8

Max Horiz 4=36 (LC 5)

Max Uplift 2=-39 (LC 8), 4=-4 (LC 8)

Max Grav 2=75 (LC 1), 3=44 (LC 3), 4=103

(LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-4=-86/27, 1-2=-38/23

BOT CHORD 3-4=-12/11

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SPF No.2
- Refer to girder(s) for truss to truss connections.
- Bearing at joint(s) 4 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 4 lb uplift at joint 4 and 39 lb uplift at joint 2.





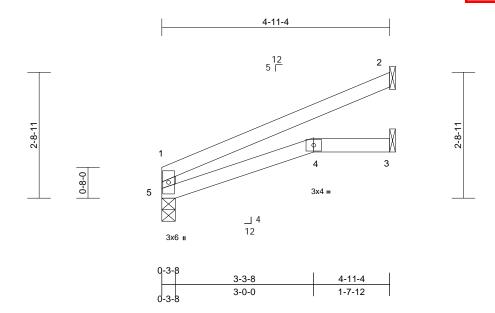
Truss Type Ply Job Truss Qty Lot 183 HT Jack-Open B240069 J12 Job Reference (optiona

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.73 S Mar 21 2024 Print: 8.730 S Mar 21 2024 MiTek Industries, Inc. ID:LNSH7IWyssfDjwYCPNYCQjzX75f-RfC?PsB70Hq3NSgPqnL8w3uITXbGl(WrCDoi 2423e7

DEVELOPMENT SERVICES 164799617 LEE'S SUMMIT. MISSOURI ue Apr 0**9 545**:0**6**

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW



Scale = 1:25

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.36	Vert(LL)	-0.02	4-5	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.22	Vert(CT)	-0.05	4-5	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.02	2	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-R		Wind(LL)	0.03	4-5	>999	240	Weight: 12 lb	FT = 10%

LUMBER LOAD CASE(S) Standard

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 4-11-4 oc purlins, except end verticals. **BOT CHORD** Rigid ceiling directly applied or 6-0-0 oc

bracing.

REACTIONS (size)

2= Mechanical, 3= Mechanical,

5=0-3-8 Max Horiz 5=74 (LC 8)

Max Uplift 2=-76 (LC 8), 5=-15 (LC 8) Max Grav 2=152 (LC 1), 3=90 (LC 3), 5=213

(LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-5=-179/60, 1-2=-78/46

BOT CHORD 4-5=-31/7, 3-4=0/0

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SPF No.2
- Refer to girder(s) for truss to truss connections.
- Bearing at joint(s) 5 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 15 lb uplift at joint 5 and 76 lb uplift at joint 2.



April 11,2024



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



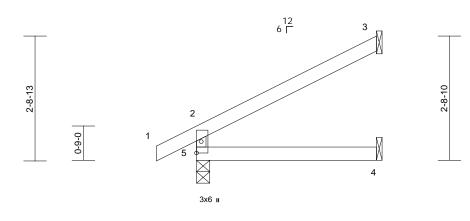
Ply Job Truss Truss Type Qty Lot 183 HT Jack-Open B240069 J13 Job Reference (optiona

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.73 S Mar 21 2024 Print: 8.730 S Mar 21 2024 MiTek Industries, Inc. ID:6fPtFDPJz5XV8YMTN_u4YpzX75o-RfC?PsB70Hq3NSgPqnL8w3ulTXbG (WrCDoi 242324)

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 164799618 LEE'S SUMMIT. MISSOURI ue Apr 0**9 54**5:06

-0-10-8 3-11-4 0-10-8 3-11-4



Scale = 1:25.2

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	0.21	Vert(LL)	-0.01	4-5	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.13	Vert(CT)	-0.02	4-5	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.01	3	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-R		Wind(LL)	0.01	4-5	>999	240	Weight: 11 lb	FT = 10%

3-11-4

LUMBER

TOP CHORD 2x4 SPF No.2 **BOT CHORD** 2x4 SPF No.2 2x3 SPF No.2 WEBS

BRACING

TOP CHORD Structural wood sheathing directly applied or 3-11-4 oc purlins, except end verticals. **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc

bracing.

REACTIONS (size) 3= Mechanical, 4= Mechanical,

5=0-3-8

Max Horiz 5=87 (LC 8)

Max Uplift 3=-68 (LC 8), 5=-27 (LC 8) Max Grav

3=118 (LC 1), 4=72 (LC 3), 5=247

(LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 2-5=-215/63, 1-2=0/31, 2-3=-75/41

BOT CHORD 4-5=0/0

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SPF No.2
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 27 lb uplift at joint 5 and 68 lb uplift at joint 3.

LOAD CASE(S) Standard



April 11,2024



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



Truss Type Job Truss Qty Ply Lot 183 HT B240069 J14 Jack-Closed Girder Job Reference (optiona

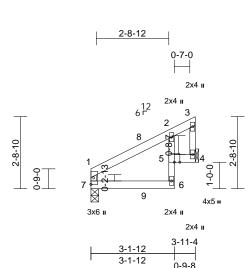
RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 164799619 LEE'S SUMMIT. MISSOURI

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.73 S Mar 21 2024 Print: 8.730 S Mar 21 2024 MiTek Industries, Inc. ID:A5xqBA73KJ9nRi5lH3nsTfzX6ty-RfC?PsB70Hq3NSgPqnL8w3uITXbGKV rCDoi7J4

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Scale = 1:43.5

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	0.26	Vert(LL)	-0.01	6-7	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.41	Vert(CT)	-0.02	6-7	>999	240		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.00	Horz(CT)	0.01	4	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-R		Wind(LL)	0.01	6-7	>999	240	Weight: 12 lb	FT = 10%

LUMBER

TOP CHORD 2x4 SPF No.2

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

2x3 SPF No.2 WEBS

BRACING

TOP CHORD Structural wood sheathing directly applied or 3-11-4 oc purlins, except end verticals.

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

bracing.

REACTIONS (size) 4= Mechanical, 7=0-3-8

Max Horiz 7=80 (LC 22)

Max Uplift 4=-67 (LC 8), 7=-34 (LC 8) Max Grav 4=282 (LC 1), 7=278 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum

Tension

1-7=-217/35, 1-2=-222/28, 2-3=-43/15,

TOP CHORD

3-4=-68/20

6-7=-38/136, 5-6=-33/107, 2-5=-92/26,

4-5=-20/44

NOTES

BOT CHORD

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SPF No.2
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 34 lb uplift at joint 7 and 67 lb uplift at joint 4.

- 7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 153 lb down and 8 lb up at 2-0-0 on top chord, and 109 lb down and 65 lb up at 2-0-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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

Uniform Loads (lb/ft)

Vert: 1-3=-70, 6-7=-20, 4-5=-20

Concentrated Loads (lb)

Vert: 8=-116 (B), 9=-109 (B)







Ply Job Truss Truss Type Qty Lot 183 HT B240069 J15 Diagonal Hip Girder Job Reference (optiona RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 164799620 LEE'S SUMMIT. MISSOURI

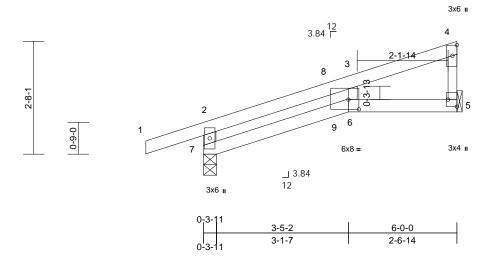
Wheeler Lumber, Waverly, KS - 66871,

Run: 8.73 S Mar 21 2024 Print: 8.730 S Mar 21 2024 MiTek Industries, Inc. ID:W8_Jb?dXH6KjrYu_3rDrQ6zX76p-RfC?PsB70Hq3NSgPqnL8w3uITXbGh

ue Apr 09 5 45:06 WrCDoi734z36?

2-8-2





Scale = 1:27.3

Plate Offsets (X, Y): [5:Edge,0-2-8], [6:0-3-0,0-2-12]

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	0.40	Vert(LL)	-0.06	6	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.27	Vert(CT)	-0.11	6	>604	240		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.03	Horz(CT)	0.04	5	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-R		Wind(LL)	0.06	6	>999	240	Weight: 18 lb	FT = 10%

LUMBER

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

2x3 SPF No.2 *Except* 7-2:2x4 SPF No.2 WEBS

BRACING

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.

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

bracing.

REACTIONS 5= Mechanical, 7=0-3-11 (size)

Max Horiz 7=95 (LC 5)

Max Uplift 5=-55 (LC 8), 7=-109 (LC 4) Max Grav 5=245 (LC 1), 7=379 (LC 1)

(lb) - Maximum Compression/Maximum

Tension

2-7=-348/127, 1-2=0/32, 2-3=-195/0,

3-4=-122/36, 4-5=-149/47

6-7=-41/126, 5-6=-42/123 **BOT CHORD**

WFBS 3-6=-11/80

NOTES

FORCES

TOP CHORD

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SPF No.2
- Refer to girder(s) for truss to truss connections.
- Bearing at joint(s) 7 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 109 lb uplift at joint 7 and 55 lb uplift at joint 5.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 76 lb down and 44 lb up at 2-11-11, and 67 lb down and 42 lb up at 3-6-3 on top chord, and 4 lb down at 2-11-11, and 6 lb down and 0 lb up at 3-5-2 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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

Uniform Loads (lb/ft)

Vert: 1-2=-70, 2-4=-70, 6-7=-20, 5-6=-20

Concentrated Loads (lb) Vert: 6=0 (B), 9=-1 (F)



April 11,2024



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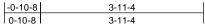
Truss Type Ply Job Truss Qty Lot 183 HT Jack-Open B240069 J16 5 Job Reference (optiona

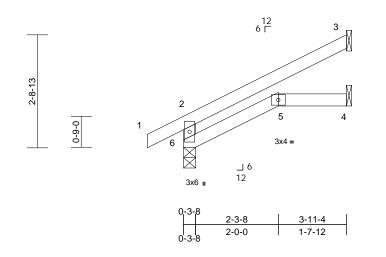
Wheeler Lumber, Waverly, KS - 66871,

Run: 8.73 S Mar 21 2024 Print: 8.730 S Mar 21 2024 MiTek Industries, Inc. 7 ID:GbMd0UuvPhnEeKISZE8m_SzX77I-RfC?PsB70Hq3NSgPqnL8w3ulTXbCKWrCDo774250?f

S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 164799621 LEE'S SUMMIT. MISSOURI ue Apr 🕫 🗸 5:06

RELEASE FOR CONSTRUCTION





Scale = 1:27.9

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	0.20	Vert(LL)	-0.01	5-6	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.11	Vert(CT)	-0.02	5-6	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.01	3	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-R		Wind(LL)	0.01	5-6	>999	240	Weight: 12 lb	FT = 10%

LUMBER

LOAD CASE(S) Standard

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 3-11-4 oc purlins, except end verticals.

BOT CHORD Rigid ceiling directly applied or 6-0-0 oc

bracing.

REACTIONS (size) 3= Mechanical, 4= Mechanical,

6=0-3-8 Max Horiz 6=86 (LC 8)

Max Uplift 3=-67 (LC 8), 6=-26 (LC 8)

3=115 (LC 1), 4=70 (LC 3), 6=249 Max Grav

(LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 2-6=-217/64, 1-2=0/32, 2-3=-74/40

BOT CHORD 5-6=-35/3, 4-5=0/0

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SPF No.2
- Refer to girder(s) for truss to truss connections.
- Bearing at joint(s) 6 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 26 lb uplift at joint 6 and 67 lb uplift at joint 3.



April 11,2024

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

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Truss Type Ply Job Truss Qty Lot 183 HT Jack-Open B240069 J17 Job Reference (optiona

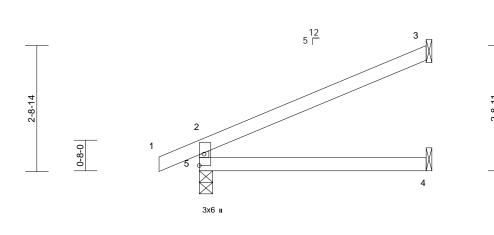
Wheeler Lumber, Waverly, KS - 66871,

Run: 8.73 S Mar 21 2024 Print: 8.730 S Mar 21 2024 MiTek Industries, Inc. ue Apr 1545:06 ID:ea4V_hRVmplpKNRUoA0iO8zX7CD-RfC?PsB70Hq3NSgPqnL8w3uITXbcKWrCDoirJ4z

S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 164799622 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION

-0-10-8 4-11-4 0-10-8 4-11-4



Scale = 1:25.1

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	0.35	Vert(LL)	-0.02	4-5	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.21	Vert(CT)	-0.05	4-5	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.02	3	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-R		Wind(LL)	0.02	4-5	>999	240	Weight: 13 lb	FT = 10%

LUMBER

TOP CHORD 2x4 SPF No.2 **BOT CHORD** 2x4 SPF No.2 2x3 SPF No.2 WEBS

BRACING

TOP CHORD Structural wood sheathing directly applied or 4-11-4 oc purlins, except end verticals. **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc

bracing.

REACTIONS (size) 3= Mechanical, 4= Mechanical,

5=0-3-8

Max Horiz 5=90 (LC 8)

Max Uplift 3=-77 (LC 8), 5=-41 (LC 8) Max Grav

3=151 (LC 1), 4=91 (LC 3), 5=290

(LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 2-5=-252/83, 1-2=0/26, 2-3=-79/45

BOT CHORD 4-5=0/0

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- The Fabrication Tolerance at joint 5 = 2%, joint 5 = 2%
- 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SPF No.2.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 41 lb uplift at joint 5 and 77 lb uplift at joint 3.

LOAD CASE(S) Standard



April 11,2024



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Truss Type Ply Job Truss Qty Lot 183 HT B240069 J18 Jack-Open 3 Job Reference (optiona

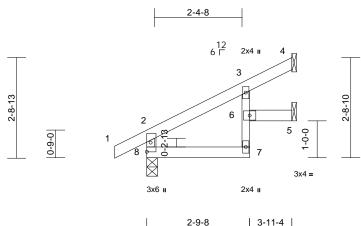
S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 164799623 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.73 S Mar 21 2024 Print: 8.730 S Mar 21 2024 MiTek Industries, Inc. 1 ue Apr (9) 5/45:06 ID:iONTsZoFFW3KUEulCYZHIzzX7D2-RfC?PsB70Hq3NSgPqnL8w3ulTXbCKWrCDo774250?f





Scale = 1:31.3

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)	-0.01	6	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.19	Vert(CT)	-0.02	7	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.01	5	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-R		Wind(LL)	0.01	6	>999	240	Weight: 12 lb	FT = 10%

LUMBER

TOP CHORD 2x4 SPF No.2

2x4 SPF No.2 *Except* 7-3:2x3 SPF No.2 **BOT CHORD**

2x3 SPF No.2 WEBS

BRACING

TOP CHORD Structural wood sheathing directly applied or 3-11-4 oc purlins, except end verticals. **BOT CHORD**

Rigid ceiling directly applied or 10-0-0 oc

bracing.

REACTIONS (size) 4= Mechanical, 5= Mechanical, 8=0-3-8

Max Horiz 8=87 (LC 8)

Max Uplift 4=-34 (LC 8), 5=-25 (LC 8), 8=-27

(LC 8)

Max Grav 4=87 (LC 1), 5=74 (LC 1), 8=247

(LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 2-8=-224/53, 1-2=0/31, 2-3=-129/0,

3-4=-21/35

BOT CHORD 7-8=-37/66, 6-7=0/53, 3-6=-22/45, 5-6=0/0

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) 1) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SPF No.2
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 27 lb uplift at joint 8, 34 lb uplift at joint 4 and 25 lb uplift at joint 5.

LOAD CASE(S) Standard



April 11,2024



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Truss Type Ply Job Truss Qty Lot 183 HT B240069 J19 Jack-Open 2 Job Reference (optiona

Wheeler Lumber, Waverly, KS - 66871,

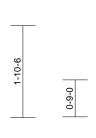
Run: 8.73 S Mar 21 2024 Print: 8.730 S Mar 21 2024 MiTek Industries, Inc. 7 ID:dwwX_6b1Ni6lbovxr4OI7VzX7ML-RfC?PsB70Hq3NSgPqnL8w3uITXbGK VrCDoi7J42J6?f

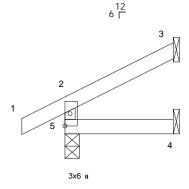
DEVELOPMENT SERVICES 164799624 LEE'S SUMMIT. MISSOURI ue Apr 00 545:060

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW

-0-10-8 2-2-6









Scale = 1:23.4

2-2-6

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	0.07	Vert(LL)	0.00	4-5	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.03	Vert(CT)	0.00	4-5	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-R		Wind(LL)	0.00	4-5	>999	240	Weight: 7 lb	FT = 10%

LUMBER

TOP CHORD 2x4 SPF No.2 **BOT CHORD** 2x4 SPF No.2 2x3 SPF No.2 WEBS

BRACING

TOP CHORD Structural wood sheathing directly applied or 2-2-6 oc purlins, except end verticals. **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc

bracing.

REACTIONS (size) 3= Mechanical, 4= Mechanical,

5=0-3-8 Max Horiz 5=52 (LC 8)

Max Uplift 3=-37 (LC 8), 5=-23 (LC 8)

3=56 (LC 1), 4=38 (LC 3), 5=177 Max Grav

(LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 2-5=-155/44, 1-2=0/31, 2-3=-42/19

BOT CHORD 4-5=0/0

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SPF No.2
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 23 lb uplift at joint 5 and 37 lb uplift at joint 3.

LOAD CASE(S) Standard



April 11,2024







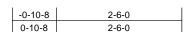
Ply Job Truss Truss Type Qty Lot 183 HT Jack-Open B240069 J20 3 Job Reference (optiona

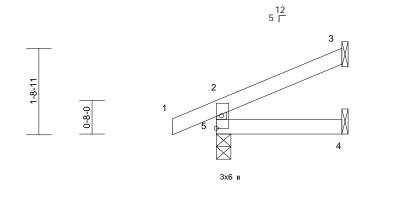
Wheeler Lumber, Waverly, KS - 66871,

Run: 8.73 S Mar 21 2024 Print: 8.730 S Mar 21 2024 MiTek Industries, Inc. ue Apr 19545:06 ID:deO6QIONNUyA2B6gL0amxvzX7Mc-RfC?PsB70Hq3NSgPqnL8w3uITXb GKWrCDG7J4zJC?

S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 164799625 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION





Scale = 1:23

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	0.06	Vert(LL)	0.00	4-5	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.04	Vert(CT)	0.00	4-5	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-R		Wind(LL)	0.00	4-5	>999	240	Weight: 7 lb	FT = 10%

2-6-0

LUMBER

TOP CHORD 2x4 SPF No.2 **BOT CHORD** 2x4 SPF No.2 2x3 SPF No.2 WEBS

BRACING

TOP CHORD Structural wood sheathing directly applied or 2-6-0 oc purlins, except end verticals. **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc

bracing.

REACTIONS (size) 3= Mechanical, 4= Mechanical,

5=0-3-8 Max Horiz 5=48 (LC 8)

Max Uplift 3=-38 (LC 8), 5=-31 (LC 4) Max Grav

3=67 (LC 1), 4=44 (LC 3), 5=188

(LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 2-5=-165/52, 1-2=0/26, 2-3=-40/20

BOT CHORD 4-5=0/0

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SPF No.2
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 31 lb uplift at joint 5 and 38 lb uplift at joint 3.

LOAD CASE(S) Standard



April 11,2024



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Ply Job Truss Truss Type Qty Lot 183 HT B240069 J21 Diagonal Hip Girder Job Reference (optiona

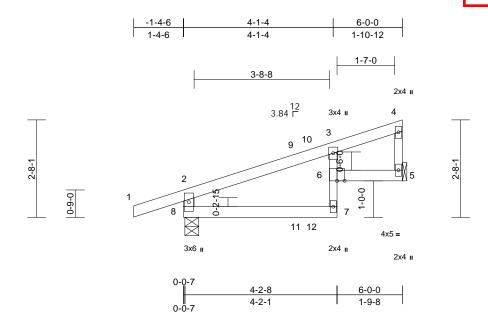
Wheeler Lumber, Waverly, KS - 66871,

Run: 8.73 S Mar 21 2024 Print: 8.730 S Mar 21 2024 MiTek Industries, Inc.

LEE'S SUMMIT. MISSOURI ue Apr 09 5 45:06 ID:poYgJI7lCd88NnBjTU4N0NzX7Dv-RfC?PsB70Hq3NSgPqnL8w3uITXbGK

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW

DEVELOPMENT SERVICES 164799626



Scale = 1:31.6

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	0.30	Vert(LL)	-0.03	7	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.53	Vert(CT)	-0.06	7	>999	240		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.00	Horz(CT)	0.03	5	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-R		Wind(LL)	0.03	6	>999	240	Weight: 18 lb	FT = 10%

LUMBER

TOP CHORD 2x4 SPF No.2

BOT CHORD 2x4 SPF No.2 *Except* 7-3:2x3 SPF No.2 2x4 SPF No.2 *Except* 4-5:2x3 SPF No.2 WEBS

BRACING

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.

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

bracing.

REACTIONS (size) 5= Mechanical, 8=0-4-9

Max Horiz 8=94 (LC 5)

Max Uplift 5=-55 (LC 8), 8=-110 (LC 4) Max Grav 5=246 (LC 1), 8=379 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 2-8=-345/138, 1-2=0/32, 2-3=-242/33, 3-4=-76/20, 4-5=-120/34

BOT CHORD 7-8=-46/167, 6-7=0/81, 3-6=-44/60,

5-6=-24/70

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SPF No.2
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 110 lb uplift at joint 8 and 55 lb uplift at joint 5.

- 7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 78 lb down and 46 lb up at 3-0-14, and 67 lb down and 43 lb up at 3-6-3 on top chord, and 6 lb down at 3-0-14, and 6 lb down at 3-6-3 on bottom chord. The design/ selection of such connection device(s) is the responsibility of others.
- In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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

Plate Increase=1.15 Uniform Loads (lb/ft)

Vert: 1-2=-70, 2-4=-70, 7-8=-20, 5-6=-20

Concentrated Loads (lb)

Vert: 11=-1 (F), 12=0 (B)



April 11,2024



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Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not besign value to use only with recks colline tools. This design is based only upon parameters shown, and is not an individual busining denipolinit, 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/TP11 Quality Criteria, and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcscomponents.com)



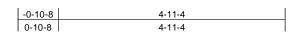
Truss Type Ply Job Truss Qty Lot 183 HT Jack-Open B240069 J22 3 Job Reference (optiona

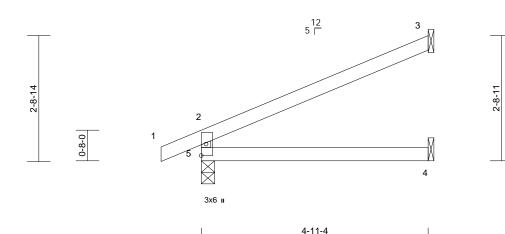
Wheeler Lumber, Waverly, KS - 66871,

Run: 8.73 S Mar 21 2024 Print: 8.730 S Mar 21 2024 MiTek Industries, Inc. ue Apr 1545:47

DEVELOPMENT SERVICES 164799627 LEE'S SUMMIT. MISSOURI ID:GP3oon7aZjBHQoQR3OBb2GzX7My-RfC?PsB70Hq3NSgPqnL8w3uITXtGKWrCDef7342JC

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW





Scale = 1:25.1

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	0.35	Vert(LL)	-0.02	4-5	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.21	Vert(CT)	-0.05	4-5	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.02	3	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-R		Wind(LL)	0.02	4-5	>999	240	Weight: 13 lb	FT = 10%

LUMBER

TOP CHORD 2x4 SPF No.2 **BOT CHORD** 2x4 SPF No.2 2x3 SPF No.2 WEBS

BRACING

TOP CHORD Structural wood sheathing directly applied or 4-11-4 oc purlins, except end verticals. **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc

bracing.

REACTIONS (size)

3= Mechanical, 4= Mechanical,

5=0-3-8 Max Horiz 5=90 (LC 8)

Max Uplift 3=-77 (LC 8), 5=-41 (LC 8) Max Grav

3=151 (LC 1), 4=91 (LC 3), 5=290

(LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 2-5=-252/83, 1-2=0/26, 2-3=-79/45

BOT CHORD 4-5=0/0

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- The Fabrication Tolerance at joint 5 = 2%, joint 5 = 2%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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SPF No.2.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 41 lb uplift at joint 5 and 77 lb uplift at joint 3.

LOAD CASE(S) Standard



April 11,2024



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



 Job
 Truss
 Truss Type
 Qty
 Ply
 Lot 183 HT

 B240069
 J23
 Jack-Closed Girder
 1
 1
 1
 Job Reference (optional)

Wheeler Lumber, Waverly, KS - 66871,

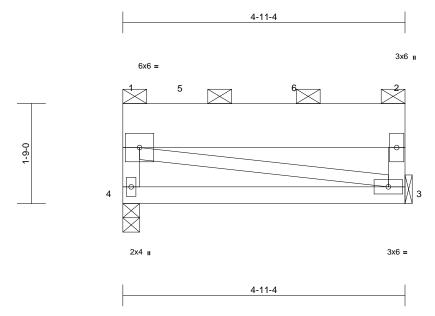
Run: 8.73 S Mar 21 2024 Print: 8.730 S Mar 21 2024 MiTek Industries, Inc. Tue Apr 19 1545:07 ID:OPHG_ITuw1KovU3LJ96jq_zX7EI-RfC?PsB70Hq3NSgPqnL8w3uITXbGr.WrCDoin4439

AS NOTED FOR PLAN REVIEW
DEVELOPMENT SERVICES
164799628
LEE'S SUMMIT, MISSOURI

RELEASE FOR CONSTRUCTION

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9



Scale = 1:20.2

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	0.25	Vert(LL)	-0.03	3-4	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.24	Vert(CT)	-0.06	3-4	>998	240		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.01	Horz(CT)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-P							Weight: 30 lb	FT = 10%

LUMBER

TOP CHORD 2x10 SP 2400F 2.0E BOT CHORD 2x4 SPF No.2

WEBS 2x4 SPF No.2 *Except* 3-1:2x3 SPF No.2

BRACING

TOP CHORD 2-0-0 oc purlins: 1-2, except end verticals. BOT CHORD Rigid ceiling directly applied or 10-0-0 oc

bracing.

REACTIONS (size) 3= Mechanical, 4=0-3-8

Max Horiz 4=-47 (LC 4)

Max Uplift 3=-115 (LC 5), 4=-150 (LC 4) Max Grav 3=941 (LC 15), 4=1349 (LC 16)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-4=-1303/178, 1-2=-17/13, 2-3=-890/137

BOT CHORD 3-4=-41/36 WEBS 1-3=-24/24

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) 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.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 5) All bearings are assumed to be SPF No.2
- 6) Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 150 lb uplift at joint 4 and 115 lb uplift at joint 3.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s). The design/selection of such connection device(s) is the responsibility of others.
- In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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

Plate Increase=1.15 Uniform Loads (lb/ft) Vert: 1-2=-70, 3-4=-20

Concentrated Loads (lb) Vert: 5=-878 (B), 6=-878 (B)

ANDREW THOMAS JOHNSON NUMBER PE-2017018993

April 11,2024





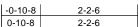
Truss Type Ply Job Truss Qty Lot 183 HT Jack-Open B240069 J24 Job Reference (optiona

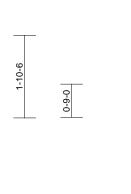
Wheeler Lumber, Waverly, KS - 66871,

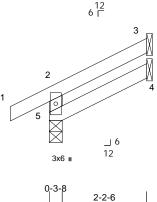
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RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 164799629 LEE'S SUMMIT. MISSOURI

2-2-6









1-10-14

Scale = 1:26

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	0.07	Vert(LL)	0.00	4-5	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.03	Vert(CT)	0.00	4-5	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-R		Wind(LL)	0.00	4-5	>999	240	Weight: 7 lb	FT = 10%

LUMBER

LOAD CASE(S) Standard

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 2-2-6 oc purlins, except end verticals.

BOT CHORD Rigid ceiling directly applied or 6-0-0 oc

bracing.

REACTIONS (size) 3= Mechanical, 4= Mechanical,

5=0-3-8

Max Horiz 5=50 (LC 8)

Max Uplift 3=-37 (LC 8), 5=-23 (LC 8)

3=54 (LC 1), 4=36 (LC 3), 5=179 Max Grav

(LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 2-5=-157/44, 1-2=0/32, 2-3=-42/18

BOT CHORD 4-5=-19/13

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SPF No.2
- Refer to girder(s) for truss to truss connections.
- Bearing at joint(s) 5 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 23 lb uplift at joint 5 and 37 lb uplift at joint 3.



April 11,2024

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



Truss Type Ply Job Truss Qty Lot 183 HT Jack-Open B240069 J25 Job Reference (optiona

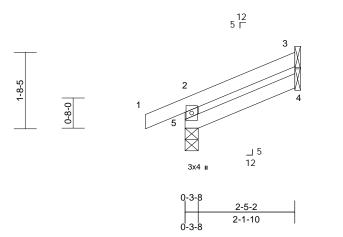
Wheeler Lumber, Waverly, KS - 66871,

Run: 8.73 S Mar 21 2024 Print: 8.730 S Mar 21 2024 MiTek Industries, Inc. ID:Y8qtsIz_wXDmWCfB_x_KiEzX7OR-RfC?PsB70Hq3NSgPqnL8w3uITXbG KWrCDoi75423C?1

S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 164799630 LEE'S SUMMIT. MISSOURI ue Apr 🕫 🗸 5:07

RELEASE FOR CONSTRUCTION

-0-10-8 2-5-2 0-10-8 2-5-2



Scale = 1:25.5

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	0.07	Vert(LL)	0.00	4-5	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.04	Vert(CT)	0.00	4-5	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-R		Wind(LL)	0.00	4-5	>999	240	Weight: 8 lb	FT = 10%

LUMBER

LOAD CASE(S) Standard

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 2-5-2 oc purlins, except end verticals.

BOT CHORD Rigid ceiling directly applied or 6-0-0 oc

bracing.

REACTIONS (size) 3= Mechanical, 4= Mechanical,

5=0-3-8

Max Horiz 5=46 (LC 8)

Max Uplift 3=-36 (LC 8), 5=-32 (LC 4) Max Grav

3=62 (LC 1), 4=40 (LC 3), 5=188

(LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 2-5=-165/52, 1-2=0/27, 2-3=-39/18

BOT CHORD 4-5=-19/12

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SPF No.2
- Refer to girder(s) for truss to truss connections.
- Bearing at joint(s) 5 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 32 lb uplift at joint 5 and 36 lb uplift at joint 3.



April 11,2024



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



Ply Job Truss Truss Type Qty Lot 183 HT B240069 J26 Diagonal Hip Girder Job Reference (optiona

Wheeler Lumber, Waverly, KS - 66871,

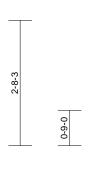
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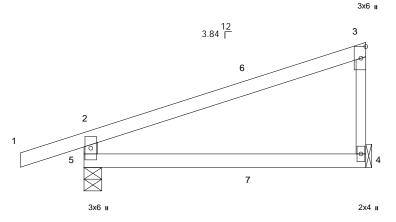
S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 164799631 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION

-1-4-6 6-0-8







6-0-8

Scale = 1:24.7

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	0.49	Vert(LL)	-0.04	4-5	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.30	Vert(CT)	-0.09	4-5	>746	240		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.00	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-R		Wind(LL)	0.02	4-5	>999	240	Weight: 18 lb	FT = 10%

LUMBER

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

2x4 SPF No.2 *Except* 3-4:2x3 SPF No.2 WEBS

BRACING

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.

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

bracing.

REACTIONS (size) 4= Mechanical, 5=0-4-9

Max Horiz 5=112 (LC 5)

Max Uplift 4=-54 (LC 8), 5=-112 (LC 4) Max Grav 4=247 (LC 1), 5=380 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 2-5=-335/155, 1-2=0/32, 2-3=-135/13, 3-4=-176/79

BOT CHORD 4-5=-30/51

NOTES

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SPF No.2.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 112 lb uplift at joint 5 and 54 lb uplift at joint 4.

- 7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 67 lb down and 43 lb up at 3-6-3 on top chord, and 6 lb down at 3-6-3 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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

Uniform Loads (lb/ft)

Vert: 1-2=-70, 2-3=-70, 4-5=-20

Concentrated Loads (lb)

Vert: 7=0 (F)







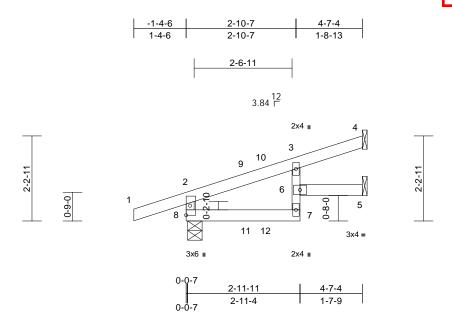
Job Truss Truss Type Qty Ply Lot 183 HT B240069 J27 Diagonal Hip Girder 2 Job Reference (optiona

S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 164799632 LEE'S SUMMIT. MISSOURI

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.73 S Mar 21 2024 Print: 8.730 S Mar 21 2024 MiTek Industries, Inc. ue Apr 0 1445:01 ID:?iDhflldjVV5vhRnaDge6xzX7Q0-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4

RELEASE FOR CONSTRUCTION



Scale = 1:30.1

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	0.21	Vert(LL)	-0.02	6	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.24	Vert(CT)	-0.03	7	>999	240		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.00	Horz(CT)	0.01	5	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-R		Wind(LL)	0.02	6	>999	240	Weight: 14 lb	FT = 10%

LUMBER

TOP CHORD 2x4 SPF No.2

BOT CHORD 2x4 SPF No.2 *Except* 7-3:2x3 SPF No.2

2x3 SPF No.2 WEBS

BRACING

TOP CHORD Structural wood sheathing directly applied or 4-7-4 oc purlins, except end verticals.

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

bracing.

REACTIONS (size) 4= Mechanical, 5= Mechanical, 8=0-4-9

Max Horiz 8=75 (LC 4)

Max Uplift 4=-38 (LC 8), 5=-10 (LC 8), 8=-93 (LC 4)

Max Grav

4=110 (LC 1), 5=70 (LC 1), 8=316

(LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 2-8=-286/114, 1-2=0/31, 2-3=-171/7,

3-4=-17/30

BOT CHORD 7-8=-40/100, 6-7=0/54, 3-6=-17/51, 5-6=0/0

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) 1) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SPF No.2
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 93 lb uplift at joint 8, 38 lb uplift at joint 4 and 10 lb uplift at joint 5.

- 7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 72 lb down and 20 lb up at 1-6-10, and 62 lb down and 20 lb up at 2-0-15 on top chord, and 2 lb down and 3 lb up at 1-6-10, and 3 lb down and 3 lb up at 2-0-15 on bottom chord. The design/selection of such connection device (s) is the responsibility of others.
- In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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

Plate Increase=1.15

Uniform Loads (lb/ft)

Vert: 1-2=-70, 2-4=-70, 7-8=-20, 5-6=-20

Concentrated Loads (lb)

Vert: 11=3 (B), 12=3 (F)







Truss Type Job Truss Qty Ply Lot 183 HT Jack-Open B240069 J28 Job Reference (optiona

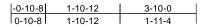
S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 164799633 LEE'S SUMMIT. MISSOURI

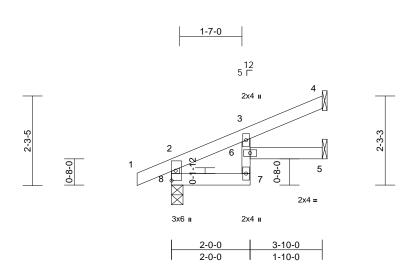
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Scale = 1:29.3

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	0.14	Vert(LL)	-0.01	6	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.17	Vert(CT)	-0.02	7	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.01	5	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-R		Wind(LL)	0.01	6	>999	240	Weight: 11 lb	FT = 10%

LUMBER

TOP CHORD 2x4 SPF No.2

BOT CHORD 2x4 SPF No.2 *Except* 7-3:2x3 SPF No.2

2x3 SPF No.2 WEBS

BRACING

TOP CHORD Structural wood sheathing directly applied or 3-10-0 oc purlins, except end verticals. **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc

bracing.

REACTIONS (size)

4= Mechanical, 5= Mechanical, 8=0-3-8

Max Horiz 8=71 (LC 8)

Max Uplift 4=-43 (LC 8), 5=-5 (LC 8), 8=-36

(LC 8)

Max Grav 4=103 (LC 1), 5=59 (LC 3), 8=243

(LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 2-8=-223/54, 1-2=0/26, 2-3=-134/0,

3-4=-25/34

BOT CHORD 7-8=-41/81, 6-7=0/36, 3-6=0/52, 5-6=0/0

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) 1) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SPF No.2
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 36 lb uplift at joint 8, 43 lb uplift at joint 4 and 5 lb uplift at joint 5.

LOAD CASE(S) Standard



April 11,2024



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



Truss Type Ply Job Truss Qty Lot 183 HT Jack-Open B240069 J29 2 Job Reference (optiona

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.73 S Mar 21 2024 Print: 8.730 S Mar 21 2024 MiTek Industries, Inc. rCDoi7J4zJC+ ID:tftwohA8n3ammSLkJsKci1zX7QI-RfC?PsB70Hq3NSgPqnL8w3uITXbGK\

S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 164799634 LEE'S SUMMIT. MISSOURI ue Apr 0 55:01

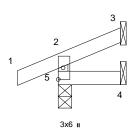
RELEASE FOR CONSTRUCTION

-0-10-8



_12 5 □







Scale = 1:24.8

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	0.06	Vert(LL)	0.00	4-5	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.01	Vert(CT)	0.00	4-5	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-R		Wind(LL)	0.00	5	>999	240	Weight: 5 lb	FT = 10%

LUMBER

TOP CHORD 2x4 SPF No.2 **BOT CHORD** 2x4 SPF No.2 2x3 SPF No.2 WEBS

BRACING

TOP CHORD Structural wood sheathing directly applied or 1-4-0 oc purlins, except end verticals.

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

bracing.

REACTIONS (size) 3= Mechanical, 4= Mechanical,

5=0-3-8

Max Horiz 5=31 (LC 5) Max Uplift 3=-17 (LC 8), 5=-36 (LC 4)

3=20 (LC 1), 4=22 (LC 3), 5=151 Max Grav

(LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 2-5=-134/46, 1-2=0/26, 2-3=-25/4

BOT CHORD 4-5=0/0

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SPF No.2
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 36 lb uplift at joint 5 and 17 lb uplift at joint 3.

LOAD CASE(S) Standard



April 11,2024



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



Job Truss Truss Type Qty Ply Lot 183 HT B240069 J30 Jack-Open Job Reference (optiona

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.73 S Mar 21 2024 Print: 8.730 S Mar 21 2024 MiTek Industries, Inc. ID:LavtRD_6Y9Z1r?7gNV2s3fzX7R?-RfC?PsB70Hq3NSgPqnL8w3uITXbGK WrCDoi734zJC-f

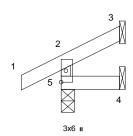
S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 164799635 LEE'S SUMMIT. MISSOURI ue Apr 00545:070

RELEASE FOR CONSTRUCTION

-0-10-	8 1-3-6
0-10-8	1-3-6









1-3-6

Scale = 1:25.3

Loading	(psf)	Spacing	2-0-0	csı		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.07	Vert(LL)	0.00	5	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.01	Vert(CT)	0.00	4-5	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-R		Wind(LL)	0.00	4-5	>999	240	Weight: 5 lb	FT = 10%

LUMBER

TOP CHORD 2x4 SPF No.2 2x4 SPF No.2 **BOT CHORD** 2x3 SPF No.2 WEBS

BRACING

TOP CHORD Structural wood sheathing directly applied or 1-3-6 oc purlins, except end verticals.

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

bracing.

REACTIONS (size) 3= Mechanical, 4= Mechanical,

5=0-3-8 Max Horiz 5=34 (LC 5)

Max Uplift 3=-19 (LC 8), 5=-23 (LC 8) Max Grav

3=16 (LC 1), 4=21 (LC 3), 5=150

(LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 2-5=-134/37, 1-2=0/31, 2-3=-29/4

BOT CHORD 4-5=0/0

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SPF No.2
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 23 lb uplift at joint 5 and 19 lb uplift at joint 3.

LOAD CASE(S) Standard



April 11,2024



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



Job	Truss	Truss Type	Qty	Ply	Lot 183 HT
B240069	LAY1	Lay-In Gable	1	1	Job Reference (optional

LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 164799636

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.73 S Mar 21 2024 Print: 8.730 S Mar 21 2024 MiTek Industries, Inc. 1 ue Apr 49 545:01 ID:mOrqb3swGTrgwrffdRuw__zSPfT-RfC?PsB70Hq3NSgPqnL8w3ulTXbGK_VrCDoi7342JS

31-0-8 7-0-12 23-11-12 30-8-13 7-0-12 16-11-1 6-9-1 0-3-11 3x4 🗸 3x4, 5 6 10 11 12 13 14 15 16 6-3-8 3 11.18 ¹² 2 18 35 34 33 32 31 30 29 2827 26 25 24 23 22 21 20 3x4.

Scale = 1:55.7

6-7-3

Plate Offsets (X, Y): [5	5:0-1-10,Edge], [15:0-1-10,Edge]
--------------------------	----------------------------------

3x4 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	0.05	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.03	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.10	Horiz(TL)	0.01	19	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-S							Weight: 156 lb	FT = 10%

LUMBER TOP CHORD 2x4 SPF No.2 BOT CHORD 2x4 SPF No.2 2x4 SPF No.2 OTHERS **BRACING**

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins, except

2-0-0 oc purlins (6-0-0 max.): 5-15. Rigid ceiling directly applied or 10-0-0 oc

BOT CHORD

bracing.

REACTIONS (size) 1=31-0-8, 19=31-0-8, 20=31-0-8, 21=31-0-8, 22=31-0-8, 23=31-0-8,

24=31-0-8, 25=31-0-8, 26=31-0-8, 28=31-0-8, 29=31-0-8, 30=31-0-8, 31=31-0-8, 32=31-0-8, 33=31-0-8,

34=31-0-8, 35=31-0-8 Max Horiz 1=-165 (LC 4)

Max Uplift 1=-75 (LC 6), 19=-33 (LC 7).

20=-91 (LC 9), 21=-114 (LC 9), 22=-84 (LC 9), 24=-40 (LC 5), 25=-33 (LC 4), 26=-34 (LC 5), 28=-34 (LC 5), 29=-34 (LC 4), 30=-34 (LC 5), 31=-46 (LC 4),

32=-30 (LC 5), 33=-90 (LC 8), 34=-112 (LC 8), 35=-91 (LC 8) Max Grav 1=143 (LC 8), 19=115 (LC 9),

20=174 (LC 16), 21=203 (LC 16), 22=189 (LC 16), 23=169 (LC 22), 24=187 (LC 21), 25=180 (LC 22), 26=180 (LC 21), 28=180 (LC 1), 29=180 (LC 22), 30=180 (LC 21), 31=187 (LC 22), 32=173 (LC 18), 33=195 (LC 15), 34=201 (LC 15),

35=174 (LC 15) (lb) - Maximum Compression/Maximum Tension

TOP CHORD

1-2=-220/148, 2-3=-138/119, 3-4=-118/92, 4-5=-91/132, 5-6=-36/113, 6-7=-36/113, 7-8=-36/113, 8-9=-36/113, 9-10=-36/113, 10-11=-36/113, 11-12=-36/113, 12-13=-36/113, 13-14=-36/113,

3x4 = 31-0-8

14-15=-36/113, 15-16=-78/120, 16-17=-76/48, 17-18=-107/58, 18-19=-179/87

BOT CHORD 1-35=-61/144, 34-35=-61/144, 33-34=-61/144, 32-33=-61/144 31-32=-61/144, 30-31=-61/144

> 29-30=-61/144, 28-29=-61/144, 26-28=-61/144, 25-26=-61/144, 24-25=-61/144, 23-24=-61/144, 22-23=-61/144, 21-22=-61/144,

20-21=-61/144, 19-20=-61/144 **WEBS** 2-35=-137/110, 3-34=-160/137

4-33=-156/114, 6-32=-133/54, 7-31=-147/70, 8-30=-140/58, 9-29=-140/58, 10-28=-140/58, 11-26=-140/58, 12-25=-140/57,

13-24=-147/64, 14-23=-129/22, 16-22=-149/108, 17-21=-163/139, 18-20=-136/109

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; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss 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 2x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 0-0-0 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 10) All bearings are assumed to be SPF No.2.
- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 75 lb uplift at joint 1, 33 lb uplift at joint 19, 91 lb uplift at joint 35, 112 lb uplift at joint 34, 90 lb uplift at joint 33, 30 lb uplift at joint 32, 46 lb uplift at joint 31, 34 lb uplift at joint 30, 34 lb uplift at joint 29, 34 lb uplift at joint 28, 34 lb uplift at joint 26, 33 lb uplift at joint 25, 40 lb uplift at joint 24, 84 lb uplift at joint 22, 114 lb uplift at joint 21 and 91 lb uplift at joint 20.
- 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



April 11,2024



FORCES

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 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/TP11 Quality Criteria, and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcscomponents.com)



 Job
 Truss
 Truss Type
 Qty
 Ply
 Lot 183 HT

 B240069
 LAY2
 Lay-In Gable
 1
 1
 Job Reference (optional)

RELEASE FOR CONSTRUCTION

AS NOTED FOR PLAN REVIEW

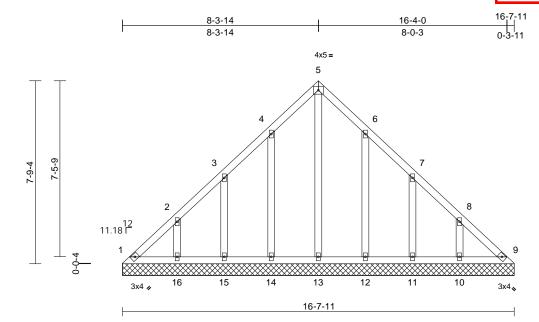
DEVELOPMENT SERVICES
164799637

LEE'S SUMMIT, MISSOURI

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.73 S Mar 21 2024 Print: 8.730 S Mar 21 2024 MiTek Industries, Inc. ID:e94KRRwQKiM6OTyRsHys9qzSPfP-RfC?PsB70Hq3NSgPqnL8w3uITXb0

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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	0.06	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.04	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.14	Horiz(TL)	0.00	9	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-S							Weight: 76 lb	FT = 10%

LUMBER

TOP CHORD 2x4 SPF No.2 BOT CHORD 2x4 SPF No.2 OTHERS 2x4 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) 1=16-7-11, 9=16-7-11, 10=16-7-11,

11=16-7-11, 12=16-7-11, 13=16-7-11, 14=16-7-11, 15=16-7-11, 16=16-7-11

Max Horiz 1=194 (LC 5)

Max Uplift 1=-55 (LC 6), 9=-20 (LC 7),

10=-117 (LC 9), 11=-103 (LC 9), 12=-106 (LC 9), 14=-107 (LC 8),

15=-103 (LC 8), 16=-117 (LC 8)

Max Grav 1=150 (LC 17), 9=132 (LC 18), 10=220 (LC 16), 11=189 (LC 16),

12=206 (LC 16), 13=183 (LC 18), 14=208 (LC 15), 15=188 (LC 15),

16=221 (LC 15)

FORCES (lb) - Maximum Compression/Maximum

Tension
TOP CHORD 1-2=-229

1-2=-229/158, 2-3=-145/115, 3-4=-122/104,

4-5=-101/159, 5-6=-81/141, 6-7=-83/69,

7-8=-109/63, 8-9=-193/106 BOT CHORD 1-16=-77/169, 15-16=-77/169,

14-15=-77/169, 13-14=-77/169, 12-13=-77/169, 11-12=-77/169, 10-11=-77/169, 9-10=-77/169

WEBS 5-13=-152/15, 4-14=-167/131,

3-15=-151/128, 2-16=-170/137, 6-12=-166/130, 7-11=-152/128,

8-10=-170/137

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; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) All plates are 2x4 MT20 unless otherwise indicated.
- 5) Gable requires continuous bottom chord bearing.
- 6) 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) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SPF No.2.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 55 lb uplift at joint 1, 20 lb uplift at joint 9, 107 lb uplift at joint 14, 103 lb uplift at joint 15, 117 lb uplift at joint 16, 106 lb uplift at joint 12, 103 lb uplift at joint 11 and 117 lb uplift at joint

LOAD CASE(S) Standard



April 11,2024

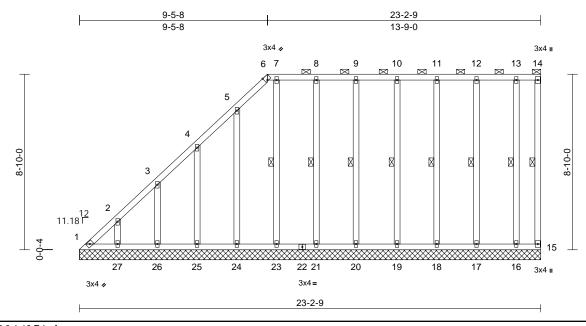




Job Truss Truss Type Qty Ply Lot 183 HT B240069 LAY3 Lay-In Gable Job Reference (optional RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 164799638 LEE'S SUMMIT. MISSOURI

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.73 S Mar 21 2024 Print: 8.730 S Mar 21 2024 MiTek Industries, Inc. ue Apr 45.45:08 ID:ounGgtZ5Luhnhs5_TjwBGmzX7Sr-RfC?PsB70Hq3NSgPqnL8w3uITXbGkWrCDoi794z36?



Scale = 1:58

LUMBER

Plate Offsets (2	X, Y)	: [6:0-	1-10,Edge]
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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	0.32	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.14	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.14	Horiz(TL)	0.00	15	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-S							Weight: 150 lb	FT = 10%

TOP CHORD	2x4 SPF No.2	
BOT CHORD	2x4 SPF No.2	
WEBS	2x4 SPF No.2	
OTHERS	2x4 SPF No.2	
BRACING		BOT CI
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.): 6-14.	
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.	
WEBS	1 Row at midpt 14-15, 7-23, 8-21, 9-20,	WEBS

10-19, 11-18, 12-17, 13-16 REACTIONS (size) 1=23-2-9, 15=23-2-9, 16=23-2-9,

17=23-2-9, 18=23-2-9, 19=23-2-9, 20=23-2-9, 21=23-2-9, 23=23-2-9, 24=23-2-9, 25=23-2-9, 26=23-2-9, 27=23-2-9

Max Horiz 1=340 (LC 5)

Max Uplift 1=-116 (LC 6), 15=-20 (LC 5), 16=-50 (LC 4), 17=-45 (LC 5), 18=-37 (LC 4), 19=-35 (LC 5), 20=-35 (LC 5), 21=-49 (LC 4), 23=-99 (LC 5), 24=-89 (LC 8), 25=-110 (LC 8), 26=-104 (LC 8), 27=-104 (LC 8)

Max Grav 1=239 (LC 5), 15=33 (LC 1), 16=149 (LC 22), 17=188 (LC 1), 18=178 (LC 1), 19=184 (LC 22),

20=184 (LC 1), 21=185 (LC 22), 23=181 (LC 1), 24=203 (LC 15), 25=194 (LC 15), 26=197 (LC 15), 27=194 (LC 15)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=-353/229, 2-3=-300/194, 3-4=-244/156, 4-5=-221/146, 5-6=-175/122, 6-7=-121/92, 7-8=-121/92, 8-9=-121/92, 9-10=-121/92,

10-11=-121/92, 11-12=-121/92, 12-13=-121/92, 13-14=-121/92, 14-15=-94/85

1-27=-122/92, 26-27=-122/92, 25-26=-122/92, 24-25=-122/92,

23-24=-122/92, 21-23=-122/92, 20-21=-122/92, 19-20=-122/92, 18-19=-122/92. 17-18=-122/92 16-17=-122/92, 15-16=-122/92

2-27=-151/122, 3-26=-158/129 4-25=-154/134, 5-24=-163/113 7-23=-141/123, 8-21=-145/73, 9-20=-143/60, 10-19=-143/59, 11-18=-138/58, 12-17=-146/60, 13-16=-114/114

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=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss 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 2x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing. 6) Gable studs spaced at 0-0-0 oc. 7)
- 8) 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members
- 10) All bearings are assumed to be SPF No.2.

11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 116 lb uplift at joint 1, 20 lb uplift at joint 15, 104 lb uplift at joint 27, 104 lb uplift at joint 26, 110 lb uplift at joint 25, 89 lb uplift at joint 24, 99 lb uplift at joint 23, 49 lb uplift at joint 21, 35 lb uplift at joint 20, 35 lb uplift at joint 19, 37 lb uplift at joint 18, 45 lb uplift at joint 17 and 50 lb uplift at joint 16.

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





 Job
 Truss
 Truss Type
 Qty
 Ply
 Lot 183 HT

 B240069
 LAY4
 Lay-In Gable
 1
 1
 Job Reference (optional)

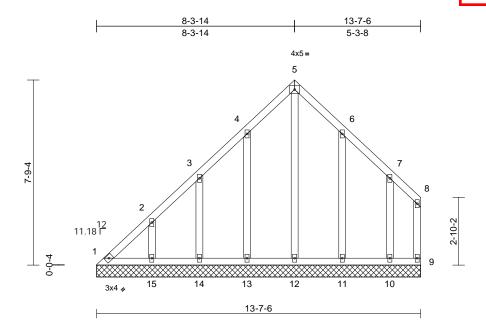
AS NOTED FOR PLAN REVIEW
DEVELOPMENT SERVICES
164799639
LEE'S SUMMIT, MISSOURI

RELEASE FOR CONSTRUCTION

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.73 S Mar 21 2024 Print: 8.730 S Mar 21 2024 MiTek Industries, Inc. ID:hB4efs0wOZUOFi?lihc6pnzX7SF-RfC?PsB70Hq3NSgPqnL8w3uITXbGK

ue Apr 055:002/20:24



Scale = 1:48.4

Loading	(psf)	Spacing	2-0-0	csı		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.07	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.03	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.21	Horiz(TL)	0.00	9	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-S							Weight: 69 lb	FT = 10%

LUMBER

TOP CHORD 2x4 SPF No.2 BOT CHORD 2x4 SPF No.2 WEBS 2x4 SPF No.2 OTHERS 2x4 SPF No.2

BRACING
TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins, except end verticals.
Rigid ceiling directly applied or 10-0-0 oc

bracing.

REACTIONS (size)

BOT CHORD

1=13-7-6, 9=13-7-6, 10=13-7-6, 11=13-7-6, 12=13-7-6, 13=13-7-6,

14=13-7-6, 15=13-7-6

Max Horiz 1=230 (LC 5)

Max Uplift 1=-121 (LC 4), 9=-19 (LC 8), 10=-110 (LC 9), 11=-104 (LC 9),

12=-100 (LC 7), 13=-106 (LC 8),

14=-103 (LC 8), 15=-117 (LC 8)

Max Grav 1=189 (LC 7), 9=51 (LC 18), 10=181 (LC 16), 11=206 (LC 16),

12=246 (LC 4), 13=212 (LC 15), 14=187 (LC 15), 15=221 (LC 15)

FORCES (lb) - Maximum Compression/Maximum

Tension TOP CHORD 1-2=-260

1-2=-260/234, 2-3=-223/206, 3-4=-198/202, 4-5=-163/209, 5-6=-136/192, 6-7=-101/104,

7-8=-55/49, 8-9=-53/34

BOT CHORD 1-15=-43/36, 14-15=-43/36, 13-14=-43/36,

12-13=-43/36, 11-12=-43/36, 10-11=-43/36,

9-10=-43/36

WEBS 5-12=-223/140, 4-13=-171/130,

3-14=-149/128, 2-15=-170/137, 6-11=-167/129, 7-10=-134/126

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; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) All plates are 2x4 MT20 unless otherwise indicated.
- 5) Gable requires continuous bottom chord bearing.
- 6) 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) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SPF No.2 .
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 121 lb uplift at joint 1, 19 lb uplift at joint 9, 100 lb uplift at joint 12, 106 lb uplift at joint 13, 103 lb uplift at joint 14, 117 lb uplift at joint 15, 104 lb uplift at joint 11 and 110 lb uplift at joint

LOAD CASE(S) Standard



April 11,2024

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 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 ANS/TP11 Quality Criteria, and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCS1 Building Component Safety Information available from the Structural Building Component Association (www.sbcscomponents.com)



Job Truss Truss Type Qty Ply Lot 183 HT B240069 LAY5 Lay-In Gable Job Reference (optiona

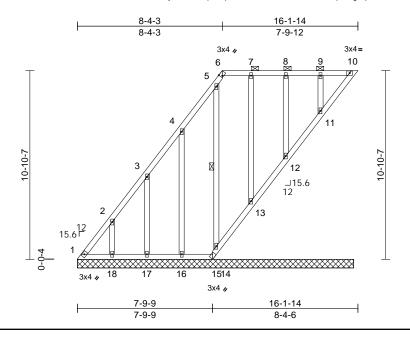
S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 164799640 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.73 S Mar 21 2024 Print: 8.730 S Mar 21 2024 MiTek Industries, Inc. ID:y19kkhQhnpWlape99lmw8fzX7Vb-RfC?PsB70Hq3NSgPqnL8w3uITXbGK

ue Apr 09 5 45:08 WrCDoi7342JC



Scale = 1:66.4

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

Loading	(psf)	Spacing	2-0-0	csı		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.07	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.03	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.18	Horiz(TL)	-0.01	10	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-S							Weight: 92 lb	FT = 10%

LUMBER

TOP CHORD 2x4 SPF No.2 2x4 SPF No.2 BOT CHORD 2x4 SPF No.2 OTHERS

BRACING

BOT CHORD

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins, except

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

bracing.

WFBS 1 Row at midpt 5-14 1=15-10-14, 10=15-10-14,

REACTIONS (size)

11=15-10-14, 12=15-10-14, 13=15-10-14, 14=15-10-14,

15=15-10-14, 16=15-10-14, 17=15-10-14, 18=15-10-14

Max Horiz 1=432 (LC 8)

Max Uplift 1=-140 (LC 6), 10=-94 (LC 8), 11=-36 (LC 4), 12=-37 (LC 5),

13=-38 (LC 4), 14=-54 (LC 8), 15=-50 (LC 15), 16=-188 (LC 8),

17=-168 (LC 8), 18=-178 (LC 8) Max Grav 1=410 (LC 8), 10=86 (LC 1), 11=195 (LC 1), 12=178 (LC 1)

13=181 (LC 22), 14=161 (LC 1), 15=116 (LC 8), 16=235 (LC 15),

17=220 (LC 15), 18=232 (LC 15)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=-532/237, 2-3=-362/164, 3-4=-189/94, 4-5=-84/29, 5-6=-69/63, 6-7=-31/73,

7-8=-31/73, 8-9=-31/73, 9-10=-31/73 **BOT CHORD** 1-18=-73/31, 17-18=-73/31, 16-17=-73/31,

15-16=-73/31, 14-15=-130/76, 13-14=-129/68, 12-13=-129/67 11-12=-129/68, 10-11=-129/60 **WEBS**

2-18=-184/194, 3-17=-182/193, 4-16=-195/214, 5-14=-118/54, 7-13=-140/62,

8-12=-139/61, 9-11=-149/60

NOTES

- 1) 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=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss 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 2x4 MT20 unless otherwise indicated.
- Gable studs spaced at 0-0-0 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SPF No.2.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 140 lb uplift at joint 1, 94 lb uplift at joint 10, 50 lb uplift at joint 15, 178 lb uplift at joint 18, 168 lb uplift at joint 17, 188 lb uplift at joint 16, 54 lb uplift at joint 14, 38 lb uplift at joint 13, 37 Ib uplift at joint 12 and 36 lb uplift at joint 11.
- 11) Non Standard bearing condition. Review required.
- 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



April 11,2024



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



Job	Truss	Truss Type	Qty	Ply	Lot 183 HT
B240069	LAY6	Lay-In Gable	1	1	Job Reference (optio

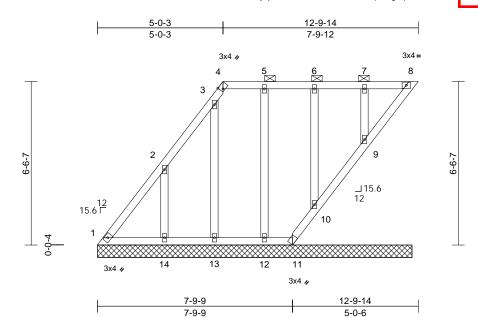
Wheeler Lumber, Waverly, KS - 66871,

Run: 8.73 S Mar 21 2024 Print: 8.730 S Mar 21 2024 MiTek Industries, Inc. ue Apr 10 145:08

S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 164799641 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION

ID:Y3d9WXdoTE_iy1jBS228fXzX7U2-RfC?PsB70Hq3NSgPqnL8w3ulTXbGkWrCDoi794z3e?/



Scale = 1:46.1

Plate Offsets (X, Y): [4:0-1-4,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	0.08	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.04	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.10	Horiz(TL)	0.00	8	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-S							Weight: 60 lb	FT = 10%

LUMBER

TOP CHORD 2x4 SPF No.2 2x4 SPF No.2 BOT CHORD 2x4 SPF No.2 OTHERS

BRACING

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins, except

2-0-0 oc purlins (6-0-0 max.): 4-8.

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

bracing. REACTIONS (size)

1=12-6-14, 8=12-6-14, 9=12-6-14, 10=12-6-14, 11=12-6-14,

12=12-6-14, 13=12-6-14, 14=12-6-14

Max Horiz 1=255 (LC 8)

Max Uplift 1=-39 (LC 6), 8=-48 (LC 8), 9=-36

(LC 4), 10=-41 (LC 5), 11=-18 (LC 15), 12=-38 (LC 4), 13=-56 (LC 8),

14=-233 (LC 8) 1=201 (LC 8), 8=86 (LC 1), 9=196

(LC 22), 10=172 (LC 1), 11=58 (LC

8), 12=177 (LC 22), 13=144 (LC 1),

14=295 (LC 15)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=-275/137, 2-3=-96/37, 3-4=-69/35,

4-5=-20/38, 5-6=-20/38, 6-7=-20/38,

7-8=-20/38

Max Grav

BOT CHORD 1-14=-38/20. 13-14=-38/20. 12-13=-38/20.

11-12=-38/20, 10-11=-65/45, 9-10=-71/50,

8-9=-71/40

7-9=-149/60, 6-10=-139/59, 5-12=-141/60,

3-13=-109/83, 2-14=-234/250

WFBS 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; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss 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 2x4 MT20 unless otherwise indicated.
- 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SPF No.2
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 39 lb uplift at joint 1, 48 lb uplift at joint 8, 18 lb uplift at joint 11, 36 lb uplift at joint 9, 41 lb uplift at joint 10, 38 lb uplift at joint 12, 56 Ib uplift at joint 13 and 233 lb uplift at joint 14.
- 11) Non Standard bearing condition. Review required.
- 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



April 11,2024



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



Truss Type Job Truss Qty Ply Lot 183 HT B240069 LAY7 Lay-In Gable Job Reference (optiona

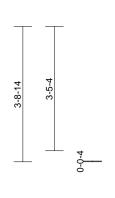
S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 164799642 LEE'S SUMMIT. MISSOURI

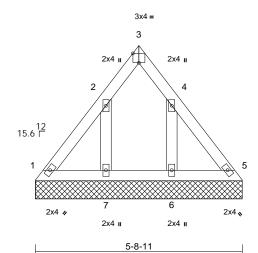
RELEASE FOR CONSTRUCTION

Wheeler Lumber, Waverly, KS - 66871,

ue Apr 09 545:08 Run: 8.73 S Mar 21 2024 Print: 8.730 S Mar 21 2024 MiTek Industries, Inc. ID:aw1XSFiitzIIP5JD?H9P5kzSPgz-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4







Scale = 1:31.9

Plate Offsets (X, Y): [3:Edge,0-3-2], [4:0-0-0,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	0.04	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.02	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.03	Horiz(TL)	0.00	5	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-P							Weight: 21 lb	FT = 10%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or

5-9-1 oc purlins.

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

bracing.

REACTIONS (size) 1=5-8-11, 5=5-8-11, 6=5-8-11,

Max Horiz 1=94 (LC 7)

1=-10 (LC 6), 5=-8 (LC 7), 6=-135 Max Uplift

(LC 9), 7=-136 (LC 8)

1=108 (LC 17), 5=107 (LC 18), Max Grav

6=192 (LC 16), 7=193 (LC 15)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-144/80, 2-3=-57/12, 3-4=-57/12,

4-5=-143/79 **BOT CHORD**

1-7=-52/122, 6-7=-52/122, 5-6=-52/122

WEBS 2-7=-155/159, 4-6=-154/158

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=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss 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 0-0-0 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SPF No.2.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 10 lb uplift at joint 1, 8 lb uplift at joint 5, 136 lb uplift at joint 7 and 135 lb uplift at joint 6.

LOAD CASE(S) Standard

OF MISSO **ANDREW THOMAS JOHNSON** NUMBER PE-2017018993 NESSIONAL

April 11,2024





Ply Job Truss Truss Type Qty Lot 183 HT B240069 R1 Flat Girder 2 Job Reference (optiona

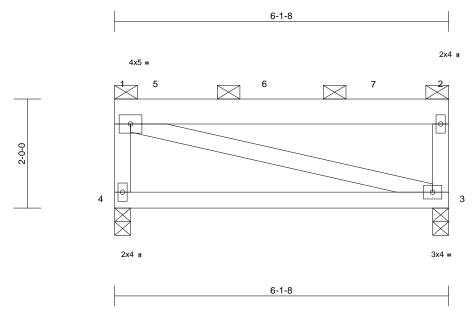
Wheeler Lumber, Waverly, KS - 66871,

Run: 8.73 S Mar 21 2024 Print: 8.730 S Mar 21 2024 MiTek Industries, Inc.

S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 164799643 LEE'S SUMMIT. MISSOURI ue Apr 09 5/45:08

RELEASE FOR CONSTRUCTION

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Scale = 1:21.1

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	0.80	Vert(LL)	-0.03	3-4	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.20	Vert(CT)	-0.07	3-4	>999	240		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.00	Horz(CT)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-P							Weight: 61 lb	FT = 10%

LUMBER

TOP CHORD 2x6 SP 2400F 2.0E 2x4 SPF No.2 **BOT CHORD** 2x4 SPF No.2 WEBS

BRACING

TOP CHORD 2-0-0 oc purlins: 1-2, except end verticals. **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (size) 3=0-3-8, 4=0-3-8

Max Horiz 4=62 (LC 7)

Max Uplift 3=-310 (LC 5), 4=-380 (LC 4) Max Grav 3=1830 (LC 1), 4=2217 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-4=-2159/415, 1-2=-23/18, 2-3=-1772/336

BOT CHORD 3-4=-54/49 WEBS 1-3=-32/32

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

- Web 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; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SPF No.2.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 380 lb uplift at joint 4 and 310 lb uplift at joint 3.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1183 lb down and 198 lb up at 0-9-0, and 1169 lb down and 191 lb up at 2-9-0, and 1169 lb down and 185 lb up at 4-9-0 on top chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

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

Uniform Loads (lb/ft)

Vert: 1-2=-70. 3-4=-20 Concentrated Loads (lb)

Vert: 5=-1183, 6=-1169, 7=-1169



April 11,2024



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



Ply Job Truss Truss Type Qty Lot 183 HT B240069 V1 Valley Job Reference (optiona

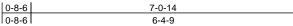
Wheeler Lumber, Waverly, KS - 66871,

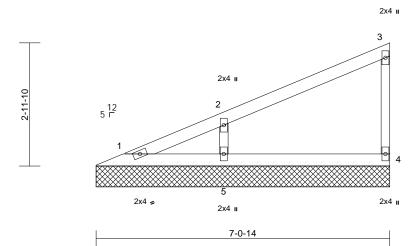
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RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 164799644 LEE'S SUMMIT. MISSOURI

KWrCDol7

0-8-6 7-0-14





Scale = 1:27.8

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	0.19	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.10	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.05	Horiz(TL)	0.00	4	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-P							Weight: 18 lb	FT = 10%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins, except end verticals. **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc

bracing.

REACTIONS (size) 1=7-0-14, 4=7-0-14, 5=7-0-14

Max Horiz 1=115 (LC 7)

Max Uplift 4=-27 (LC 8), 5=-98 (LC 8)

Max Grav 1=61 (LC 16), 4=142 (LC 1), 5=370

(LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-95/49, 2-3=-90/32, 3-4=-111/46

BOT CHORD 1-5=-37/28 4-5=-37/28

2-5=-288/148 WFBS

NOTES

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss 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 4-0-0 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SPF No.2.

8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 27 lb uplift at joint 4 and 98 lb uplift at joint 5.

LOAD CASE(S) Standard

OF MISSO **ANDREW THOMAS** JOAN SO NUMBER PE-2017018993 A STONAL

April 11,2024



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

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Ply Qty Job Truss Truss Type Lot 183 HT B240069 V2 Valley Job Reference (optiona

Wheeler Lumber, Waverly, KS - 66871,

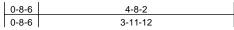
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2x4 II

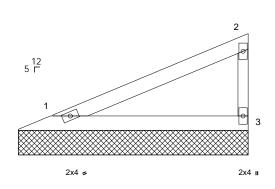
DEVELOPMENT SERVICES 164799645 LEE'S SUMMIT. MISSOURI ue Apr 00 545:09

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW

0-8-6 4-8-2 0-8-6 3-11-12







4-8-2

Scale = 1:23.4

Loading (psf) Spacing 2-0-0 CSI **DEFL** I/defI L/d **PLATES** GRIP (loc) TCLL (roof) 25.0 Plate Grip DOL 1.15 TC 0.28 Vert(LL) n/a n/a 999 MT20 197/144 BC TCDI 10.0 Lumber DOL 1 15 0.15 999 Vert(TL) n/a n/a **BCLL** 0.0* Rep Stress Incr YES WB 0.00 Horiz(TL) 0.00 3 n/a n/a BCDL 10.0 Code IRC2021/TPI2014 Matrix-P Weight: 11 lb FT = 10%

LUMBER

LOAD CASE(S) Standard

TOP CHORD 2x4 SPF No.2 **BOT CHORD** 2x4 SPF No.2 2x3 SPF No.2 WEBS

BRACING

TOP CHORD Structural wood sheathing directly applied or 4-8-11 oc purlins, except end verticals.

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

bracing.

REACTIONS (size) 1=4-8-2, 3=4-8-2

Max Horiz 1=71 (LC 5)

Max Uplift 1=-25 (LC 8), 3=-40 (LC 8) Max Grav 1=174 (LC 1), 3=174 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-63/42, 2-3=-135/63

BOT CHORD 1-3=-23/17

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) 1) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss 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.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SPF No.2 .
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 25 lb uplift at joint 1 and 40 lb uplift at joint 3.



April 11,2024



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

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Truss Type Ply Job Truss Qty Lot 183 HT B240069 V3 Valley Job Reference (optiona

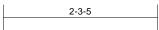
S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 164799646 LEE'S SUMMIT. MISSOURI

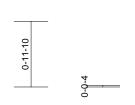
RELEASE FOR CONSTRUCTION

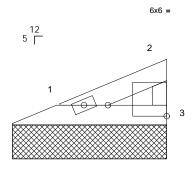
Wheeler Lumber, Waverly, KS - 66871,

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ue Apr 09 545:09 rCDoi7J4







2x4 =

2-3-5

Plate Offsets (X, Y): [2:Edge,0-1-15]

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	0.03	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.02	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horiz(TL)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-P							Weight: 5 lb	FT = 10%

LUMBER

TOP CHORD 2x4 SPF No.2 BOT CHORD 2x4 SPF No.2 2x3 SPF No.2 WEBS

BRACING

TOP CHORD Structural wood sheathing directly applied or 2-3-14 oc purlins, except end verticals.

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

bracing.

REACTIONS 1=2-3-5, 3=2-3-5 (size)

Max Horiz 1=27 (LC 7)

Max Uplift 1=-10 (LC 8), 3=-15 (LC 8) Max Grav 1=66 (LC 1), 3=66 (LC 1) (lb) - Maximum Compression/Maximum

FORCES Tension

TOP CHORD 1-2=-24/16, 2-3=-51/24

BOT CHORD 1-3=-9/7

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss 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.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SPF No.2.

Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 10 lb uplift at joint 1 and 15 lb uplift at joint 3.

LOAD CASE(S) Standard



April 11,2024



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 Job
 Truss
 Truss Type
 Qty
 Ply
 Lot 183 HT

 B240069
 V4
 Valley
 1
 1
 Job Reference (optional)

AS NOTED FOR PLAN REVIEW

DEVELOPMENT SERVICES
164/99647

LEE'S SUMMIT, MISSOURI

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.73 S Mar 21 2024 Print: 8.730 S Mar 21 2024 MiTek Industries, Inc. Tue ID:ofN8ncZbvoK0oolszFY6iOzX7aa-RfC?PsB70Hq3NSgPqnL8w3uITXbGKV rC

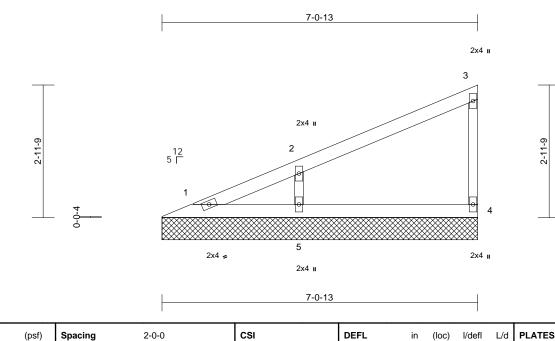
ue Apr **0.5**5:02/20:24

GRIP

197/144

FT = 10%

RELEASE FOR CONSTRUCTION



BCDL LUMBER

Scale = 1:25.8

Loading

TCLL (roof)

TCDI

BCLL

TOP CHORD 2x4 SPF No.2 BOT CHORD 2x4 SPF No.2 WEBS 2x3 SPF No.2 OTHERS 2x3 SPF No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.

25.0

10.0

10.0

0.0*

Plate Grip DOL

Rep Stress Incr

Lumber DOL

Code

1.15

1 15

YES

IRC2021/TPI2014

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

bracing.

REACTIONS (size) 1=7-0-13, 4=7-0-13, 5=7-0-13

Max Horiz 1=114 (LC 5)

Max Uplift 4=-27 (LC 8), 5=-98 (LC 8)

Max Grav 1=61 (LC 16), 4=142 (LC 1), 5=370

(LC 1)

FORCES (Ib) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-95/49, 2-3=-90/32, 3-4=-111/46

BOT CHORD 1-5=-37/28, 4-5=-37/28 WEBS 2-5=-287/148

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss 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.
- 3) Gable requires continuous bottom chord bearing.
- 4) Gable studs spaced at 4-0-0 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 7) All bearings are assumed to be SPF No.2.

8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 27 lb uplift at joint 4 and 98 lb uplift at joint 5.

0.19

0.10

0.05

Vert(LL)

Vert(TL)

Horiz(TL)

n/a

n/a

0.00

n/a 999

n/a 999

n/a n/a

MT20

Weight: 18 lb

LOAD CASE(S) Standard

TC

BC

WB

Matrix-P

ANDREW THOMAS IOHNSON

NUMBER PE-2017018993

April 11,2024





Truss Type Ply Job Truss Qty Lot 183 HT Valley B240069 V5 Job Reference (optiona

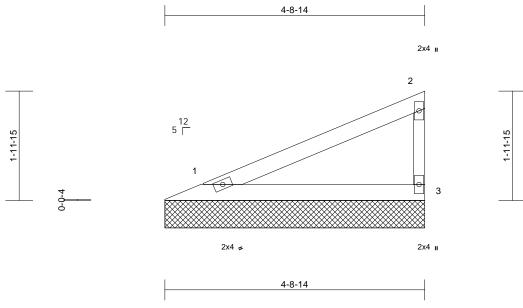
Wheeler Lumber, Waverly, KS - 66871,

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DEVELOPMENT SERVICES 164799648 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW

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Scale = 1:21

Loading	(psf)	Spacing	2-0-0	csı		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.29	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.16	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horiz(TL)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-P							Weight: 12 lb	FT = 10%

LOAD CASE(S) Standard

LUMBER TOP CHORD

2x4 SPF No.2 2x4 SPF No.2

BOT CHORD 2x3 SPF No.2 WEBS

BRACING

TOP CHORD Structural wood sheathing directly applied or 4-9-8 oc purlins, except end verticals.

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

bracing.

REACTIONS (size) 1=4-8-14, 3=4-8-14

Max Horiz 1=72 (LC 7)

Max Uplift 1=-26 (LC 8), 3=-40 (LC 8) Max Grav 1=177 (LC 1), 3=177 (LC 1) (lb) - Maximum Compression/Maximum

FORCES Tension

TOP CHORD 1-2=-64/43, 2-3=-138/64

BOT CHORD 1-3=-23/18

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) 1) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss 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.
- * This truss has been designed for a live load of 20.0psf 6) on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SPF No.2 .
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 26 lb uplift at joint 1 and 40 lb uplift at joint 3.



April 11,2024

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

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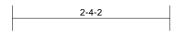
Truss Type Ply Job Truss Qty Lot 183 HT B240069 V6 Valley Job Reference (optional

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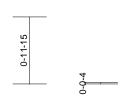
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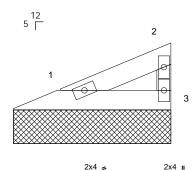
DEVELOPMENT SERVICES 164799649 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW



2x4 u





2-4-2

Scale = 1:17.1

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	0.04	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.02	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horiz(TL)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-P							Weight: 5 lb	FT = 10%

LUMBER

LOAD CASE(S) Standard

TOP CHORD 2x4 SPF No.2 **BOT CHORD** 2x4 SPF No.2 2x3 SPF No.2 WEBS

BRACING

TOP CHORD Structural wood sheathing directly applied or 2-4-11 oc purlins, except end verticals. **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc

bracing.

REACTIONS (size) 1=2-4-2, 3=2-4-2

Max Horiz 1=28 (LC 7)

Max Uplift 1=-10 (LC 8), 3=-16 (LC 8) Max Grav 1=69 (LC 1), 3=69 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=-25/17, 2-3=-54/25

BOT CHORD 1-3=-9/7

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) 1) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss 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.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SPF No.2 .
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 10 lb uplift at joint 1 and 16 lb uplift at joint 3.



April 11,2024



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



Truss Type Ply Job Truss Qty Lot 183 HT B240069 V7 Valley Job Reference (optiona

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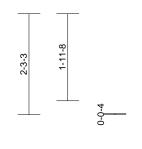
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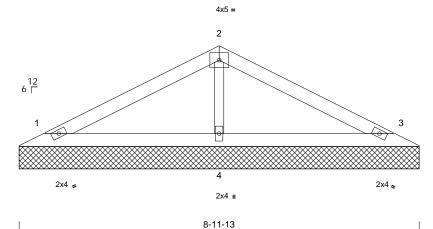
RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW

DEVELOPMENT SERVICES 164799650

4-5-15 8-4-14 4-5-15 3-11-0







Scale = 1:25.9

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	0.28	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.13	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.05	Horiz(TL)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-P							Weight: 22 lb	FT = 10%

LUMBER

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

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) 1=8-11-13, 3=8-11-13, 4=8-11-13

1=35 (LC 8) Max Horiz

Max Uplift 1=-42 (LC 8), 3=-48 (LC 9), 4=-4

(LC 8)

1=183 (LC 1), 3=183 (LC 1), 4=336 Max Grav

(LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-88/49, 2-3=-88/35 **BOT CHORD** 1-4=-1/39, 3-4=-1/39

2-4=-238/63 WEBS

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=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss 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 4-0-0 oc.
- 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SPF No.2.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 42 lb uplift at joint 1, 48 lb uplift at joint 3 and 4 lb uplift at joint 4.

LOAD CASE(S) Standard





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



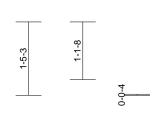
Truss Type Ply Job Truss Qty Lot 183 HT B240069 V8 Valley Job Reference (optiona RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 164799651 LEE'S SUMMIT. MISSOURI

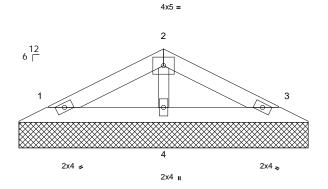
Wheeler Lumber, Waverly, KS - 66871,

Run: 8.73 S Mar 21 2024 Print: 8.730 S Mar 21 2024 MiTek Industries, Inc. ID:8_0TQROII?6nfurCoNJMHwzX7c5-RfC?PsB70Hq3NSgPqnL8w3uITXbGh

ue Apr 09 5 45:09 WrCDoi754z56?







5-7-13

Scale = 1:22.5

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.08	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.04	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.02	Horiz(TL)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-P							Weight: 13 lb	FT = 10%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or

5-8-13 oc purlins.

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

bracing.

REACTIONS (size) 1=5-7-13, 3=5-7-13, 4=5-7-13

Max Horiz 1=-20 (LC 9)

Max Uplift 1=-24 (LC 8), 3=-28 (LC 9), 4=-2

(LC 8)

1=105 (LC 1), 3=105 (LC 1), 4=192 Max Grav

(LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-51/28, 2-3=-51/20 **BOT CHORD** 1-4=-1/22, 3-4=-1/22

2-4=-136/36 WEBS

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=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss 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) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SPF No.2.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 24 lb uplift at joint 1, 28 lb uplift at joint 3 and 2 lb uplift at joint 4.

LOAD CASE(S) Standard



April 11,2024



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RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES LEE'S SUMMILE MISSOURI Offsets are indicated. Dimensions are in ft-in-sixteenths. Apply plates to both sides of truss and fully embed teeth.

connector plates.
*Plate location details available in MiTek

This symbol indicates the required direction of slots in ₹

edge of truss.

For 4 x 2 orientation, locate plates 0- "46" from outside

software or upon request.

PLATE SIZE

4 × 4

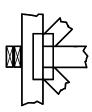
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING LOCATION



Indicated by symbol shown and/or by text in the bracing section of the output. Use T or I bracing if indicated.

BEARING



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

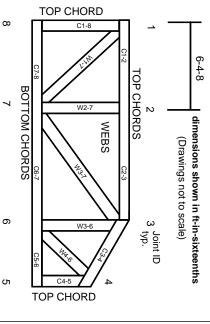
Industry Standards:

National Design Specification for Metal Plate Connected Wood Truss Construction Design Standard for Bracing.

Building Component Safety Information, Guide to Good Practice for Handling, Installing, Restraining & Bracing of Metal Plate Connected Wood Trusses.

ANSI/TPI1: DSB-22:

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

Design General Notes

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

General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

- 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.
- 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.
- 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

- Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
- Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
- Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
- 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 environmental, health or performance risks. Consult with project engineer before use.
- Review all portions of this design (front, back, words and pictures) before use. Reviewing pictures alone is not sufficient.
- Design assumes manufacture in accordance with ANSI/TPI 1 Quality Criteria.
- The design does not take into account any dynamic or other loads other than those expressly stated.