# 05/14/2024



RE: B240098 Lot 198 WO MiTek, Inc. 16023 Swingley Ridge Rd. Chesterfield, MO 63017 314.434.1200

# Site Information:

Customer: Summit Homes Project Name: B240098 Lot/Block: 198 Model: Cl Model: Charleston - Prairie Address: 2213 NW Killarney Ln Subdivision: Woodside Ridge

City: Lee's Summit State: MO

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

Design Code: IRC2018/TPI2014 Design Program: MiTek 20/20 8.7

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

This package includes 72 individual, dated Truss Design Drawings and 0 Additional Drawings.

No.	Seal#	Truss Name	Date	No.	Seal#	Truss Name	Date
1	164360222	A1	3/21/2024	21	164360242	C13	3/21/2024
2	164360223	A2	3/21/2024	22	164360243	C14	3/21/2024
3	164360224	A3	3/21/2024	23	164360244	C15	3/21/2024
4	164360225	B1	3/21/2024	24	164360245	C16	3/21/2024
5	164360226	B2	3/21/2024	25	164360246	C17	3/21/2024
6	164360227	B3	3/21/2024	26	164360247	D1	3/21/2024
7	164360228	B4	3/21/2024	27	164360248	D2	3/21/2024
8	164360229	B5	3/21/2024	28	164360249	J1	3/21/2024
9	164360230	C1	3/21/2024	29	164360250	J2	3/21/2024
10	164360231	C2	3/21/2024	30	164360251	J3	3/21/2024
11	164360232	C3	3/21/2024	31	164360252	J4	3/21/2024
12	164360233	C4	3/21/2024	32	164360253	J5	3/21/2024
13	164360234	C5	3/21/2024	33	164360254	J6	3/21/2024
14	164360235	C6	3/21/2024	34	164360255	J7	3/21/2024
15	164360236	C7	3/21/2024	35	164360256	J8	3/21/2024
16	164360237	C8	3/21/2024	36	164360257	J9	3/21/2024
17	164360238	C9	3/21/2024	37	164360258	J10	3/21/2024
18	164360239	C10	3/21/2024	38	164360259	J11	3/21/2024
19	164360240	C11	3/21/2024	39	164360260	J12	3/21/2024
20	164360241	C12	3/21/2024	40	164360261	J13	3/21/2024

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: Nathan Fox

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

Missouri COA: 001193

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



05/14/2024



RE: B240098 - Lot 198 WO

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

# **Site Information:**

Project Customer: Summit Homes Project Name: B240098

Lot/Block: 198 Subdivision: Woodside Ridge

Lot/Block: 198 Address: 2213 NW Killarney Ln

City, County: Lee's Summit State: MO

No.	Seal#	Truss Name	Date
41	164360262	J14	3/21/2024
42	164360263	J15	3/21/2024
43	164360264	J16	3/21/2024
44	164360265	J17	3/21/2024
45	164360266	J18	3/21/2024
46	164360267	J19	3/21/2024
47	164360268	J20	3/21/2024
48	164360269	J21	3/21/2024
49	164360270	J22	3/21/2024
50	164360271	J23	3/21/2024
51	164360272	J24	3/21/2024
52	164360273	J25	3/21/2024
53	164360274	J26	3/21/2024
54	164360275	J27	3/21/2024
55	164360276	J28	3/21/2024
56	164360277	J29	3/21/2024
57	164360278	J30	3/21/2024
58	164360279	J31	3/21/2024
59	164360280	J32	3/21/2024
60	164360281	J33	3/21/2024
61	164360282	J34	3/21/2024
62	164360283	J35	3/21/2024
63	164360284	J36	3/21/2024
64	164360285	J37	3/21/2024
65	164360286	J38	3/21/2024
66	164360287	J39	3/21/2024
67	164360288	J40	3/21/2024
68	164360289	LAY2	3/21/2024
69	164360290	LAY3	3/21/2024
70	164360291	V3	3/21/2024
71	164360292	V4	3/21/2024
72	164360293	V5	3/21/2024

Job Truss Truss Type Qty Ply Lot 198 WO B240098 A1 Hip Girder Job Reference (optiona RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 164360222 LEE'S SUMMIT. MISSOURI

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.73 S Feb 22 2024 Print: 8.730 S Feb 22 2024 MiTek Industries, Inc. \ ID:cmypGrq7giZqfzVbwl67OrznZlG-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKV

/ed Mar 600 rCDoi7J

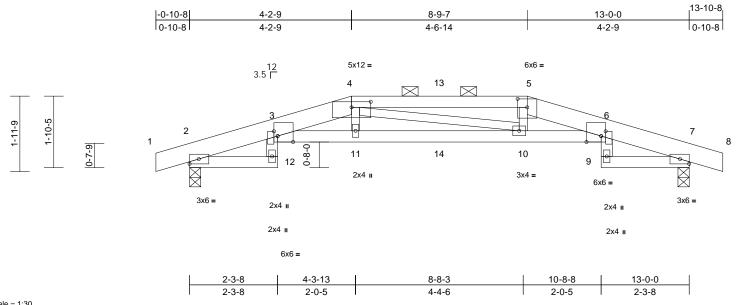


Plate Offsets (X, Y): [3:0-4-13,Edge], [3:0-1-8,0-1-3], [4:0-6-0,0-1-12], [5:0-3-0,0-2-10], [6:0-4-9,Edge], [6:0-1-8,0-1-7]

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	0.70	Vert(LL)	-0.20	10-11	>766	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.55	Vert(CT)	-0.36	10-11	>429	240		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.07	Horz(CT)	0.23	7	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.17	10-11	>897	240	Weight: 51 lb	FT = 10%

LUMBER

TOP CHORD 2x6 SP 2400F 2.0E \*Except\* 4-5:2x4 SPF

No.2

**BOT CHORD** 2x4 SPF No.2 \*Except\* 3-6:2x4 SPF 2100F 1.8E

WEBS 2x3 SPF No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or

4-10-3 oc purlins, except

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

bracing.

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

Max Horiz 2=28 (LC 12)

Max Uplift 2=-236 (LC 4), 7=-236 (LC 5)

Max Grav 2=905 (LC 1), 7=905 (LC 1)

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

Tension

TOP CHORD 1-2=0/1 2-3=-360/101 3-4=-2992/718 4-5=-3110/738, 5-6=-3080/722, 6-7=-360/97,

7-8=0/1

BOT CHORD 2-12=-1/19. 3-12=0/68. 3-11=-698/3020.

10-11=-694/3025, 6-10=-686/3114, 6-9=0/68,

7-9=-1/19

WFBS 4-11=-14/146. 4-10=-61/193. 5-10=-13/113

# NOTES

- Unbalanced roof live loads have been considered for this design
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=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 236 lb uplift at joint 2 and 236 lb uplift at joint 7.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 73 lb down and 38 lb up at 4-2-9, and 73 lb down and 37 lb up at 6-6-0, and 73 lb down and 38 lb up at 8-9-7 on top chord, and 181 lb down and 60 lb up at 4-2-9, 37 lb down and 18 lb up at 4-6-0, 37 lb down and 18 lb up at 6-6-0, and 37 lb down and 18 lb up at 8-6-0, and 181 lb down and 60 lb up at 8-9-7 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: 1-3=-70, 3-4=-70, 4-5=-70, 5-6=-70, 6-8=-70,

2-12=-20, 3-6=-20, 7-9=-20

Concentrated Loads (lb)

Vert: 4=-17 (B), 5=-17 (B), 11=-218 (B), 10=-218 (B), 13=-17 (B), 14=-37 (B)



March 21,2024



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

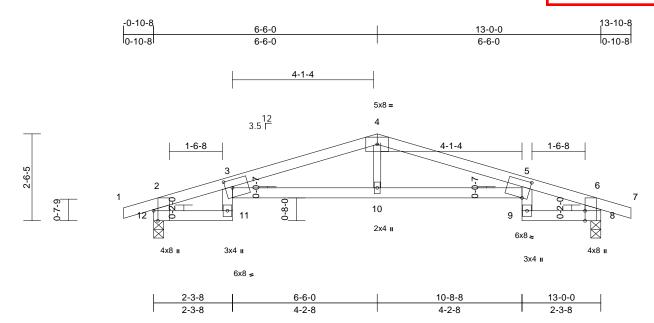


Ply Job Truss Truss Type Qty Lot 198 WO B240098 A2 Roof Special 2 Job Reference (optiona

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 164360223 LEE'S SUMMIT. MISSOURI

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.73 S Feb 22 2024 Print: 8.730 S Feb 22 2024 MiTek Industries, Inc. Ved Mar 2000 909 ID:k9bxGz6KyZ1oJ85UmNrRKbz4Sea-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDorr423C\*



Scale = 1:33.5

Plate Offsets (X, Y): [3:0-2-7,0-2-12], [5:0-1-13,0-6-0], [8:0-3-8,Edge], [12:0-3-8,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	0.89	Vert(LL)	-0.31	3-10	>482	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.93	Vert(CT)	-0.57	3-10	>265	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.06	Horz(CT)	0.52	8	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R		Wind(LL)	0.22	3-10	>679	240	Weight: 36 lb	FT = 10%

LUMBER

TOP CHORD 2x4 SPF 2400F 2.0E

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

2x6 SPF No.2 \*Except\* 10-4:2x3 SPF No.2 WEBS **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.

(size)

REACTIONS 8=0-3-8, 12=0-3-8

Max Horiz 12=24 (LC 8)

Max Uplift 8=-130 (LC 5), 12=-130 (LC 4)

Max Grav 8=642 (LC 1), 12=642 (LC 1) (lb) - Maximum Compression/Maximum

**FORCES** Tension

TOP CHORD 1-2=0/22, 2-3=-231/55, 3-4=-1405/144,

4-5=-1405/155, 5-6=-231/47, 6-7=0/22,

2-12=-709/152, 6-8=-709/148

BOT CHORD 11-12=-7/56, 3-11=-2/106, 3-10=-99/1358,

5-10=-99/1358, 5-9=0/106, 8-9=-3/56

WEBS 4-10=0/194

# 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 130 lb uplift at joint 12 and 130 lb uplift at joint 8.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



March 21,2024



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

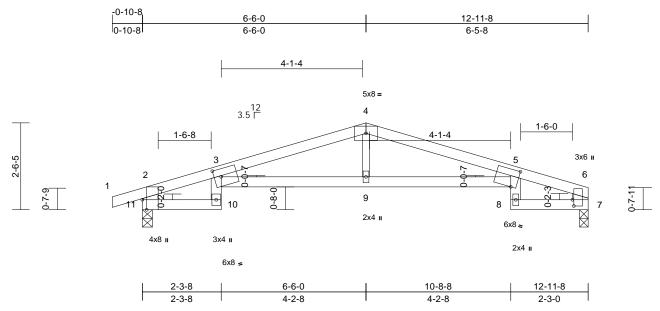


Ply Job Truss Truss Type Qty Lot 198 WO B240098 **A3** Roof Special 2 Job Reference (optiona S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 164360224 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.73 S Feb 22 2024 Print: 8.730 S Feb 22 2024 MiTek Industries, Inc. Ved Mar 2002-09-09 ID:CL9JTJ7yjt9fxlggJ5Mgtpz4SeZ-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4296?



Scale = 1:33.5 Plate Offsets (X, Y): [3:0-2-7,0-2-12], [5:0-1-13,0-6-0], [6:0-2-3,0-0-8], [11:0-3-8,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	0.90	Vert(LL)	-0.32	5-9	>475	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.94	Vert(CT)	-0.57	5-9	>264	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.06	Horz(CT)	0.53	7	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R		Wind(LL)	0.23	5-9	>665	240	Weight: 35 lb	FT = 10%

LUMBER

TOP CHORD 2x4 SPF 2400F 2.0E

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

2x6 SPF No.2 \*Except\* 9-4:2x3 SPF No.2 WEBS

**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.

REACTIONS 7=0-3-0, 11=0-3-8 (size)

Max Horiz 11=30 (LC 8)

Max Uplift 7=-81 (LC 5), 11=-130 (LC 4) Max Grav 7=559 (LC 1), 11=643 (LC 1)

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

Tension

TOP CHORD 1-2=0/22, 2-3=-231/41, 3-4=-1413/161, 4-5=-1413/160, 5-6=-222/35, 6-7=-620/105,

2-11=-711/153

BOT CHORD 10-11=-7/56, 3-10=-4/106, 3-9=-111/1366,

5-9=-111/1366, 5-8=-2/99, 7-8=-6/51

WEBS 4-9=0/194

# 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 130 lb uplift at joint 11 and 81 lb uplift at joint 7.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



March 21,2024



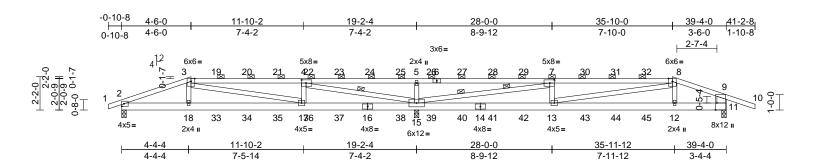


Job	Truss	Truss Type	Qty	Ply	Lot 198 WO	
B240098	B1	Hip Girder	1	1	Job Reference (optional	

Run: 8.73 S Feb 22 2024 Print: 8.730 S Feb 22 2024 MiTek Industries, Inc. Wed Mar 2005 of ID: NSJTn4Fs7FY5I\_0nTv3Fp7z4SeO-RfC?PsB70Hq3NSqPqnL8w3uITXbGr\_WrCDoi x 2007

DEVELOPMENT SERVICES
164360225
LEE'S SUMMIT, MISSOURI
Ved Mar 200509101 4/29:724

RELEASE FOR CONSTRUCTION
AS NOTED FOR PLAN REVIEW



Scale = 1:75

Plate Offsets (X, Y): [4:0-3-8,0-2-8], [7:0-3-8,0-2-8], [11:0-5-6,0-1-2]

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	0.78	Vert(LL)	-0.20	12-13	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.94	Vert(CT)	-0.39	12-13	>606	240		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.97	Horz(CT)	0.07	11	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.20	12-13	>999	240	Weight: 164 lb	FT = 10%

LUMBER

TOP CHORD 2x4 SPF No.2 \*Except\* 3-6,6-8:2x4 SPF

2100F 1.8E 2x6 SPF No.2

BOT CHORD 2x6 SPF No.2
WEBS 2x4 SPF No.2 \*Except\* 11-9:2x8 SP 2400F

2.0E

BRACING TOP CHORD

OP CHORD Structural wood sheathing directly applied or

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

4-15

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

hracing

bracing.

WEBS 1 Row at midpt

WEBS 2 Rows at 1/3 pts 7-15

**REACTIONS** (size) 2=0-3-8, 11=0-3-8, 15=0-3-8

Max Horiz 2=-20 (LC 5)

Max Uplift 2=-243 (LC 4), 11=-310 (LC 5),

15=-519 (LC 4)

Max Grav 2=884 (LC 21), 11=1017 (LC 22),

15=2221 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD

1-2=0/1, 2-3=-1872/450, 3-4=-1585/408,

4-5=-277/1253, 5-7=-277/1253,

7-8=-2062/501, 8-9=-1343/311, 9-10=0/48,

9-11=-711/233

BOT CHORD 2-18=-389/1700. 17-18=-390/1677.

15-17=-350/1585, 13-15=-441/2062, 12-13=-256/1242, 11-12=-248/1234

WEBS 3-18=0/364. 3-17=-117/63. 4-17=0/310.

4-15=-2896/701, 5-15=-643/303, 7-15=-3360/792, 7-13=-47/263

7-15=-3360/792, 7-13=-47/263,

8-13=-198/853, 8-12=-86/156

# 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
- 3) 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 243 lb uplift at joint 2, 519 lb uplift at joint 15 and 310 lb uplift at joint 11.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 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) 70 lb down and 46 lb up at 6-2-0, 70 lb down and 46 lb up at 8-2-0, 70 lb down and 46 lb up at 10-2-0, 70 lb down and 46 lb up at 12-2-0, 70 lb down and 46 lb up at 14-2-0, 70 lb down and 46 lb up at 16-2-0, 70 lb down and 46 lb up at 18-2-0, 70 lb down and 46 lb up at 20-2-0, 70 lb down and 46 lb up at 22-2-0, 70 lb down and 46 lb up at 24-2-0, 70 lb down and 46 lb up at 26-2-0, 70 lb down and 46 lb up at 28-2-0, 70 lb down and 46 lb up at 30-2-0, and 70 lb down and 46 lb up at 32-2-0, and 70 lb down and 46 lb up at 34-2-0 on top chord, and 140 lb down and 63 lb up at 4-6-0, 20 lb down at 6-2-0, 20 lb down at 8-2-0, 20 lb down at 10-2-0, 20 lb down at 12-2-0, 20 lb down at 14-2-0, 20 lb down at 16-2-0, 20 lb down at 18-2-0, 20 lb down at 20-2-0, 20 lb down at 22-2-0, 20 lb down at 24-2-0, 20 lb down at 26-2-0, 20 lb down at 28-2-0, 20 lb down at 30-2-0, 20 lb down at 32-2-0, and 20 lb down at 34-2-0, and 139 lb down and 57 lb up at 35-10-0 on bottom chord. The design/selection of such connection device (s) is the responsibility of others.



March 21,2024

Continued on page 2

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



AS NOTED FOR PLAN REVIEW Job Truss Truss Type Qty Ply Lot 198 WO DEVELOPMENT SERVICES 164360225 B240098 В1 Hip Girder LEE'S SUMMIT, MISSOURI Job Reference (optional

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.73 S Feb 22 2024 Print: 8.730 S Feb 22 2024 MiTek Industries, Inc. Ved Mar 2020 11 4/2 9 2 4 ID:NSJTn4Fs7FY5I\_0nTv3Fp7z4SeO-RfC?PsB70Hq3NSgPqnL8w3ulTxbGrWrCDoi7s4z3e4

RELEASE FOR CONSTRUCTION

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: 1-3=-70, 3-8=-70, 8-9=-70, 9-10=-70, 2-11=-20 Concentrated Loads (lb)

Vert: 16=-4 (B), 18=-95 (B), 7=-10 (B), 13=-4 (B), 12=-80 (B), 19=-10 (B), 20=-10 (B), 21=-10 (B), 22=-10 (B), 23=-10 (B), 24=-10 (B), 25=-10 (B), 26=-10 (B), 27=-10 (B), 28=-10 (B), 29=-10 (B), 30=-10 (B), 31=-10 (B), 32=-10 (B), 33=-4 (B), 34=-4 (B), 35=-4 (B), 36=-4 (B), 37=-4 (B), 38=-4 (B), 39=-4 (B), 40=-4 (B), 41=-4 (B), 42=-4 (B), 43=-4 (B), 44=-4 (B), 45=-4 (B)

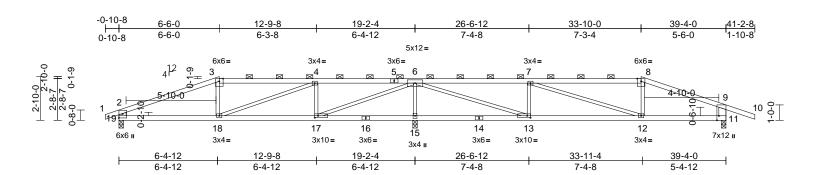


Job	Truss	Truss Type	Qty	Ply	Lot 198 WO
B240098	B2	Hip	1	1	Job Reference (optional)

Run: 8.73 S Feb 22 2024 Print: 8.730 S Feb 22 2024 MiTek Industries, Inc. Ved Mar 2002 10 ID:NSJTn4Fs7FY5I\_0nTv3Fp7z4SeO-RfC?PsB70Hq3NSgPqnL8w3ulTXbGrWrCDoir 34z3c?

S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 164360226 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION



Scale = 1:74.6

Plate Offsets (X, Y): [11:0-3-8,Edge], [13:0-2-8,0-1-8], [17:0-2-8,0-1-8]

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	0.72	Vert(LL)	-0.20	12-13	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.79	Vert(CT)	-0.39	12-13	>605	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.84	Horz(CT)	0.00	11	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.16	12-13	>999	240	Weight: 127 lb	FT = 10%

LUMBER

2x4 SPF 2100F 1.8E \*Except\* 3-5,5-8:2x4 TOP CHORD

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

2x3 SPF No.2 \*Except\* 11-9,19-2:2x6 SP **WEBS** 

2400F 2.0E

**BRACING** 

TOP CHORD Structural wood sheathing directly applied or

5-8-7 oc purlins, except end verticals, and

2-0-0 oc purlins (4-3-12 max.): 3-8. **BOT CHORD** 

Rigid ceiling directly applied or 4-6-13 oc

bracing.

REACTIONS 11=0-3-8, 15=0-3-8, 19=0-3-8 (size)

Max Horiz 19=23 (LC 8)

11=-231 (LC 5), 15=-370 (LC 4), Max Uplift 19=-178 (LC 4)

Max Grav 11=848 (LC 22), 15=2156 (LC 1),

19=728 (LC 21)

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

Tension TOP CHORD

1-2=0/24, 2-3=-1108/227, 3-4=-981/246,

4-6=-541/197, 6-7=-830/237, 7-8=-937/214, 8-9=-1072/202, 9-10=0/47, 9-11=-742/245,

2-19=-659/213

**BOT CHORD** 18-19=-164/977, 17-18=-120/541,

15-17=-1490/256, 13-15=-1490/256, 12-13=-150/830, 11-12=-117/935

WEBS 3-18=-55/123, 4-18=-51/495, 4-17=-635/207,

6-17=-365/2121, 6-15=-1996/448, 6-13=-422/2441, 7-13=-601/223,

7-12=-8/124, 8-12=0/176

# 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 178 lb uplift at joint 19, 370 lb uplift at joint 15 and 231 lb uplift at joint 11.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 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



March 21,2024



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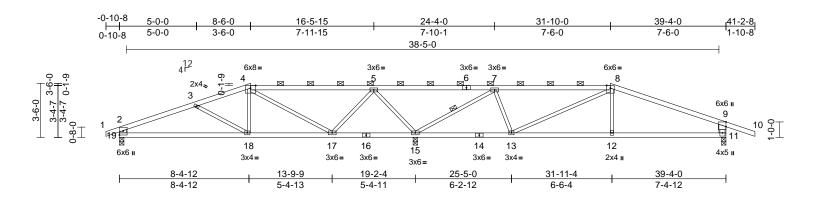


Job	Truss	Truss Type	Qty	Ply	Lot 198 WO	
B240098	B3	Hip	1	1	Job Reference (optional	

Run: 8.73 S Feb 22 2024 Print: 8.730 S Feb 22 2024 MiTek Industries, Inc. Ved Mar 2005 976 ID:rftr\_QGUuZgyN8bz0caUMLz4SeN-RfC?PsB70Hq3NSgPqnL8w3ulTXbGkWrCDoi7s4z3e?

DEVELOPMENT SERVICES 164360227 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW



Scale = 1:74.7

Plate Offsets	(X,	Y):	[9:0-3-	11,Edge]	
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Loading	(psf)	Spacing	2-0-0	csı		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.97	Vert(LL)	-0.11	18-19	>999		MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.48	Vert(CT)	-0.23	18-19	>971	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.96	Horz(CT)	0.02	11	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.07	12-13	>999	240	Weight: 128 lb	FT = 10%

LUMBER

**BOT CHORD** 

2x4 SPF No.2 \*Except\* 4-6,6-8:2x4 SPF TOP CHORD

2100F 1.8E

2x4 SPF No.2 \*Except\* 16-14:2x4 SPF

2100F 1.8E

WEBS 2x3 SPF No.2 \*Except\* 11-9,19-2:2x6 SPF

No.2

BRACING

WEBS

TOP CHORD Structural wood sheathing directly applied,

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

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

bracing.

1 Row at midpt 7-15

REACTIONS (size) 11=0-3-8, 15=0-3-8, 19=0-3-8

Max Horiz 19=34 (LC 12)

Max Uplift 11=-223 (LC 5), 15=-388 (LC 4),

19=-164 (LC 4)

Max Grav 11=792 (LC 22), 15=2325 (LC 1),

19=644 (LC 21) **FORCES** (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/24, 2-3=-895/239, 3-4=-622/165,

4-5=0/336, 5-7=-225/1840, 7-8=-132/136, 8-9=-866/184, 9-10=0/47, 9-11=-700/261,

2-19=-558/207

BOT CHORD 18-19=-196/783, 17-18=-82/565,

15-17=-808/107, 13-15=-191/16, 12-13=-87/728. 11-12=-84/731

WFBS 3-18=-246/150, 4-18=0/336, 4-17=-968/158,

5-17=-39/776, 5-15=-1568/365,

7-15=-1977/386, 7-13=0/498, 8-13=-732/99,

8-12=0/269

# 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.
- Bearings are assumed to be: Joint 19 SPF No.2 , Joint 15 SPF 2100F 1.8E , Joint 11 SPF No.2
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 164 lb uplift at joint 19, 388 lb uplift at joint 15 and 223 lb uplift at joint 11.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 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



March 21,2024



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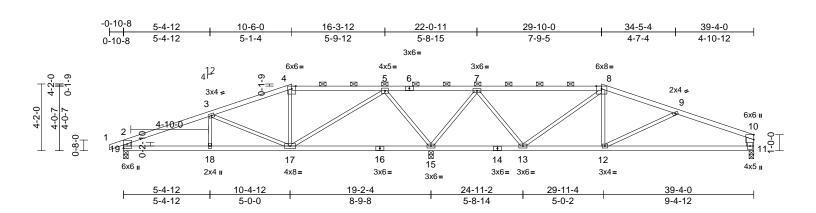


Job	Truss	Truss Type	Qty	Ply	Lot 198 WO
B240098	B4	Hip	1	1	Job Reference (optional)

Run: 8.73 S Feb 22 2024 Print: 8.730 S Feb 22 2024 MiTek Industries, Inc. ID:KrRDCIH6ftop?IAAaK5juYz4SeM-RfC?PsB70Hq3NSgPqnL8w3uITXbGK /rCDoi7J42J69

DEVELOPMENT SERVICES 164360228 LEE'S SUMMIT. MISSOURI /ed Mar 200 0 0 0 0 0 10

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW



Scale = 1:71.9

Plate Offsets (X, Y): [10:0-3-11,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	0.78	Vert(LL)	-0.18	11-12	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.55	Vert(CT)	-0.36	11-12	>664	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.98	Horz(CT)	-0.01	15	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.08	12-13	>999	240	Weight: 131 lb	FT = 10%

LUMBER

**BRACING** 

TOP CHORD 2x4 SPF No.2 \*Except\* 6-8:2x4 SPF 2100F

1.8E

2x4 SPF No.2 \*Except\* 16-14:2x4 SPF **BOT CHORD** 

2100F 1.8E

**WEBS** 2x3 SPF No.2 \*Except\* 11-10,19-2:2x6 SPF

No.2

TOP CHORD Structural wood sheathing directly applied or

5-4-3 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 4-8.

**BOT CHORD** Rigid ceiling directly applied or 5-6-2 oc

bracing.

REACTIONS 11=0-3-8, 15=0-3-8, 19=0-3-8 (size)

> Max Horiz 19=58 (LC 8)

11=-92 (LC 5), 15=-441 (LC 5), Max Uplift

19=-141 (LC 4)

11=570 (LC 22), 15=2496 (LC 1), Max Grav

19=649 (LC 21)

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

Tension

1-2=0/24, 2-3=-941/173, 3-4=-417/167, TOP CHORD

4-5=-354/137, 5-7=-351/1907, 7-8=-54/454,

8-9=-486/77, 9-10=-796/179, 10-11=-463/137, 2-19=-571/169

18-19=-171/827, 17-18=-171/827,

15-17=-1052/274, 13-15=-980/229, 12-13=0/428. 11-12=-138/685

3-18=0/158, 3-17=-583/175, 4-17=-335/134,

5-17=-196/1344, 5-15=-1405/336,

7-15=-1524/378, 7-13=-108/868.

8-13=-997/193, 8-12=0/357, 9-12=-303/189

NOTES

WFBS

**BOT 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.
- 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 19 SPF No.2 , Joint 15 SPF 2100F 1.8E , Joint 11 SPF No.2
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 141 lb uplift at joint 19, 441 lb uplift at joint 15 and 92 lb uplift at joint 11.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 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



March 21,2024



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Job Truss Truss Type Qty Ply Lot 198 WO B240098 **B**5 Roof Special Girder Job Reference (optional

1-10-0

-1-10-8

10-4-0

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 164360229 LEE'S SUMMIT. MISSOURI

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.73 S Feb 22 2024 Print: 8.730 S Feb 22 2024 MiTek Industries, Inc. 1 Ved Mar 20 0 0009 1 € ID:KrRDCIH6ftop?IAAaK5juYz4SeM-RfC?PsB70Hq3NSgPqnL8w3uITXbGK rCDoi7

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Scale = 1:31.5

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	0.67	Vert(LL)	-0.17	6-7	>714	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.67	Vert(CT)	-0.35	6-7	>341	240		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.92	Horz(CT)	0.01	6	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.04	6-7	>999	240	Weight: 38 lb	FT = 10%

# LUMBER

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

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

# **BRACING**

TOP CHORD Structural wood sheathing directly applied or

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

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

bracing.

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

Max Horiz 8=164 (LC 5)

Max Uplift 6=-94 (LC 8), 8=-179 (LC 4)

Max Grav 6=440 (LC 1), 8=612 (LC 1) (lb) - Maximum Compression/Maximum

Tension TOP CHORD

1-2=0/45, 2-3=-503/3, 3-4=-399/8,

4-5=-146/31, 5-6=-203/91, 2-8=-543/130

**BOT CHORD** 7-8=-70/426, 6-7=-221/866

**WEBS** 3-7=0/350, 4-7=-578/244, 4-6=-842/254

# 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 94 lb uplift at joint 6 and 179 lb uplift at joint 8.

- 8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or
- 10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 55 lb down and 34 lb up at 1-10-0 on top chord, and 64 lb down and 33 lb up at 1-10-0 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, 2-3=-70, 3-4=-70, 4-5=-70, 6-8=-20

Concentrated Loads (lb)

Vert: 7=-3 (F)



March 21,2024



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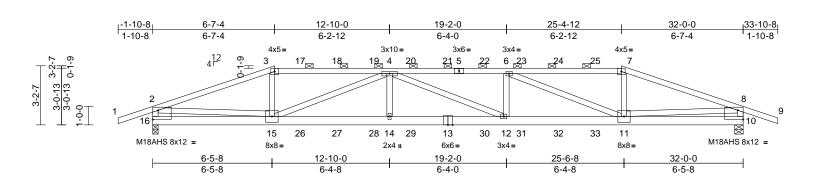


Job	Truss	Truss Type	Qty	Ply	Lot 198 WO	
B240098	C1	Hip Girder	1	2	Job Reference (optional)	

Run: 8.73 S Feb 22 2024 Print: 8.730 S Feb 22 2024 MiTek Industries, Inc. Wed Mar 20 10 10 10 ID:GEZ\_dRINBU2XEbKYhl7Bzzz4SeK-RfC?PsB70Hq3NSgPqnL8w3ulTXbc KWrCDow 42 20 7f

AS NOTED FOR PLAN REVIEW
DEVELOPMENT SERVICES
164360230
LEE'S SUMMIT, MISSOURI

RELEASE FOR CONSTRUCTION



Scale = 1:62.4

								-	-			
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	0.98	Vert(LL)	-0.31	12-14	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.92	Vert(CT)	-0.56	12-14	>674	240	M18AHS	142/136
BCLL	0.0*	Rep Stress Incr	NO	WB	0.60	Horz(CT)	0.09	10	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.27	12-14	>999	240	Weight: 294 lb	FT = 10%

LUMBER

TOP CHORD 2x4 SPF No.2 \*Except\* 5-7:2x4 SPF 2100F

1.8E

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

BRACING

**BOT CHORD** 

TOP CHORD Structural wood sheathing directly applied or

4-3-6 oc purlins, except end verticals, and 2-0-0 oc purlins (3-4-5 max.): 3-7.

Rigid ceiling directly applied or 10-0-0 oc

bracing.

**REACTIONS** (size) 10=0-5-8, 16=0-3-8

Max Horiz 16=-26 (LC 9)

Max Uplift 10=-650 (LC 5), 16=-650 (LC 4)

Max Grav 10=2844 (LC 1), 16=2844 (LC 1)

FORCES (Ib) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/45, 2-3=-5945/1227, 3-4=-5513/1187.

4-6=-8439/1778, 6-7=-5522/1188,

7-8=-5955/1229, 8-9=0/45, 2-16=-2713/662,

8-10=-2719/663

BOT CHORD 15-16=-212/821, 14-15=-1698/8465,

12-14=-1698/8465, 11-12=-1676/8439,

10-11=-188/818

WEBS 3-15=-172/1389, 4-15=-3297/694,

4-14=0/531, 4-12=-98/43, 6-12=0/520, 6-11=-3263/687, 7-11=-174/1394,

2-15=-936/4784, 8-11=-935/4796

# **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.

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

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

- 2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- Unbalanced roof live loads have been considered for this design.
- 4) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; 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.
- 6) All plates are MT20 plates unless otherwise indicated.7) This truss has been designed for a 10.0 psf bottom
- This truss has been designed for a 10.0 pst 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.
- 9) All bearings are assumed to be SPF No.2.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 650 lb uplift at joint 16 and 650 lb uplift at joint 10.
- 11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

13) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 146 lb down and 85 lb up at 8-0-0, 146 lb down and 85 lb up at 10-0-0, 146 lb down and 85 lb up at 12-0-0, 146 lb down and 85 lb up at 14-0-0, 146 lb down and 85 lb up at 16-0-0, 146 lb down and 85 lb up at 18-0-0, 146 lb down and 85 lb up at 20-0-0, and 146 lb down and 85 lb up at 22-0-0, and 146 lb down and 85 lb up at 24-0-0 on top chord, and 486 lb down and 133 lb up at 6-7-4, 79 lb down at 8-0-0, 79 lb down at 10-0-0, 79 lb down at 12-0-0, 79 lb down at 14-0-0, 79 lb down at 16-0-0, 79 lb down at 18-0-0, 79 lb down at 20-0-0, 79 lb down at 22-0-0, and 79 lb down at 24-0-0, and 486 lb down and 133 lb up at 25-4-12 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, 2-3=-70, 3-7=-70, 7-8=-70, 8-9=-70, 10-16=-20

Concentrated Loads (lb)



March 21,2024

Continued on page 2

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



RELEASE FOR CONSTRUCTION Ply Qty Job Truss Truss Type Lot 198 WO C1 2 B240098 Hip Girder Job Reference (optional

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.73 S Feb 22 2024 Print: 8.730 S Feb 22 2024 MiTek Industries, Inc. Ved Mar 2012 10:GEZ\_dRINBU2XEbKYhl7Bzzz4SeK-RfC?PsB70Hq3NSgPqnL8w3ulTXbc KWrCDord4s-07f

AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 164360230 LEE'S SUMMIT, MISSOURI

Vert: 13=-52 (F), 15=-486 (F), 11=-486 (F), 17=-123 (F), 18=-123 (F), 19=-123 (F), 20=-123 (F), 21=-123 (F), 22=-123 (F), 23=-123 (F), 24=-123 (F), 25=-123 (F), 26=-52 (F), 27=-52 (F), 28=-52 (F), 29=-52 (F), 30=-52 (F), 31=-52 (F), 32=-52 (F), 33=-52 (F)



Job	Truss	Truss Type	Qty	Ply	Lot 198 WO
B240098	C2	Hip	1	1	Job Reference (optional)

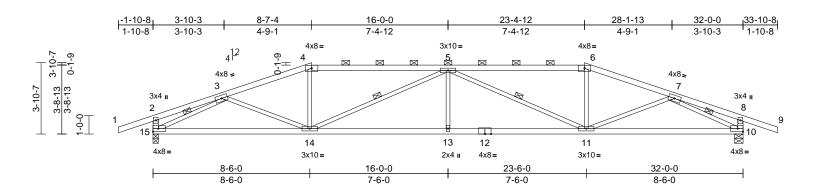
Run: 8.73 S Feb 22 2024 Print: 8.730 S Feb 22 2024 MiTek Industries, Inc. \
ID:8?oUSpLtEjYzjDdKwaC78pz4SeG-RfC?PsB70Hq3NSqPqnL8w3uITXbGk

DEVELOPMENT SERVICES
[6436023]
[6436023]
[LEE'S SUMMIT, MISSOURI

Ved Mar (2005) 1 4/29 24

WYCDOTS-120 N

RELEASE FOR CONSTRUCTION
AS NOTED FOR PLAN REVIEW



Scale = 1:62.5

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	0.51	Vert(LL)	-0.25	13	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.95	Vert(CT)	-0.46	13-14	>825	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.66	Horz(CT)	0.14	10	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.19	13	>999	240	Weight: 115 lb	FT = 10%

# LUMBER

TOP CHORD 2x4 SPF No.2 \*Except\* 4-6:2x4 SPF 2100F

1.8E

BOT CHORD 2x4 SPF No.2

WEBS 2x3 SPF No.2 \*Except\* 15-2,10-8:2x4 SPF

No.2

BRACING TOP CHORD

IORD Structural wood sheathing directly applied or 3-0-14 oc purlins, except end verticals, and

2-0-0 oc purlins (4-2-15 max.): 4-6.

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

bracing.

WEBS 1 Row at midpt 5-14, 5-11, 3-15, 7-10

**REACTIONS** (size) 10=0-5-8, 15=0-3-8

Max Horiz 15=-35 (LC 9)

Max Uplift 10=-337 (LC 5), 15=-337 (LC 4)

Max Grav 10=1568 (LC 1), 15=1568 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/45, 2-3=-268/14, 3-4=-2726/472,

4-5=-2541/474, 5-6=-2541/474,

6-7=-2726/472, 7-8=-268/14, 8-9=0/45, 2-15=-356/132. 8-10=-356/132

BOT CHORD 14-15=-405/2233, 13-14=-517/3366,

11-13=-517/3366, 10-11=-376/2233

WEBS 3-14=-9/499, 4-14=0/450, 5-14=-1042/238,

5-13=0/274, 5-11=-1042/237, 6-11=0/450, 7-11=-9/499, 3-15=-2362/521,

7-11=-3/433, 3-13=-230

# NOTES

- Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; 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.
- 6) All bearings are assumed to be SPF No.2.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 337 lb uplift at joint 15 and 337 lb uplift at joint 10.
- This truss is designed in accordance with the 2018
   International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI.1
- 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



March 21,2024





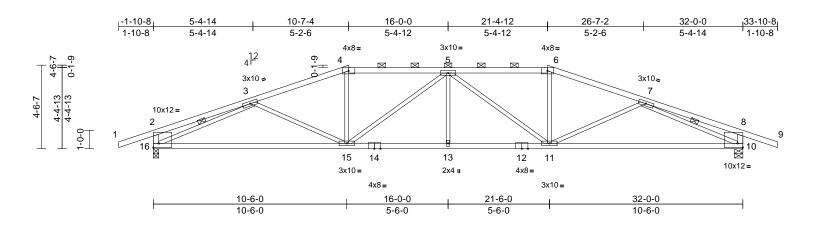
Job	Truss	Truss Type	Qty	Ply	Lot 198 WO
B240098	C3	Hip	1	1	Job Reference (option

S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 164360232 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.73 S Feb 22 2024 Print: 8.730 S Feb 22 2024 MiTek Industries, Inc. Ved Mar 2004 10 ID:5OwFtUN7mKogyWni2?EbDEz4SeE-RfC?PsB70Hq3NSgPqnL8w3uITXb6KWrCDii7J4zJC?f



# Scale = 1:62.5

Plate Offsets (X, Y): [2:Edge,0-2-12], [10:Edge,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	0.59	Vert(LL)	-0.25	15-16	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.68	Vert(CT)	-0.54	15-16	>704	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.81	Horz(CT)	0.11	10	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.15	13-15	>999	240	Weight: 119 lb	FT = 10%

# LUMBER

TOP CHORD 2x4 SPF No.2

BOT CHORD 2x4 SPF 2100F 1.8E \*Except\* 14-12:2x4

SPF No.2

WFBS 2x3 SPF No.2 \*Except\* 16-2,10-8:2x4 SPF

No.2

**BRACING** 

TOP CHORD Structural wood sheathing directly applied or

2-10-9 oc purlins, except end verticals, and 2-0-0 oc purlins (3-4-14 max.): 4-6.

BOT CHORD Rigid ceiling directly applied or 9-5-1 oc

bracing.

WFBS 3-16, 7-10 1 Row at midpt 10=0-5-8, 16=0-3-8 REACTIONS (size)

Max Horiz 16=47 (LC 12)

Max Uplift 10=-328 (LC 5), 16=-328 (LC 4)

Max Grav 10=1568 (LC 1), 16=1568 (LC 1)

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

Tension

TOP CHORD 1-2=0/45, 2-3=-403/20, 3-4=-2603/433,

4-5=-2413/436, 5-6=-2413/435,

6-7=-2603/433. 7-8=-403/20. 8-9=0/45. 2-16=-447/159. 8-10=-447/159

BOT CHORD 15-16=-438/2427, 13-15=-382/2759,

11-13=-382/2759, 10-11=-401/2427 WFBS 3-15=-47/243, 4-15=-7/451, 5-15=-578/171,

5-13=0/97, 5-11=-578/171, 6-11=-7/451,

7-11=-47/243, 3-16=-2350/521,

7-10=-2350/521

# 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 2100F 1.8E.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 328 lb uplift at joint 16 and 328 lb uplift at joint 10.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 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

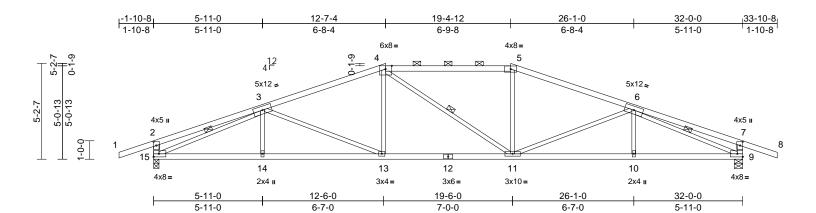


Job	Truss	Truss Type	Qty	Ply	Lot 198 WO
B240098	C4	Hip	1	1	Job Reference (optional

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 164360233 LEE'S SUMMIT. MISSOURI

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.73 S Feb 22 2024 Print: 8.730 S Feb 22 2024 MiTek Industries, Inc. Ved Mar 2002 101 ID:5OwFtUN7mKogyWni2?EbDEz4SeE-RfC?PsB70Hq3NSgPqnL8w3ulTXb6KWrCD6i7J4zJC?f



#### Scale = 1:62.6

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

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)	-0.18	13-14	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.75	Vert(CT)	-0.36	11-13	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.96	Horz(CT)	0.13	9	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.14	13-14	>999	240	Weight: 119 lb	FT = 10%

#### LUMBER

TOP CHORD 2x4 SPF No.2 \*Except\* 4-5:2x4 SPF 2100F

1.8E

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

2x3 SPF No.2 \*Except\* 15-2,9-7:2x4 SPF **WEBS** 

No.2

**BRACING** TOP CHORD

Structural wood sheathing directly applied,

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

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

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

bracing.

WFBS 4-11, 3-15, 6-9 1 Row at midpt

REACTIONS (size) 9=0-5-8, 15=0-3-8

Max Horiz 15=-59 (LC 9)

Max Uplift 9=-318 (LC 5), 15=-318 (LC 4)

Max Grav 9=1568 (LC 1), 15=1568 (LC 1) (lb) - Maximum Compression/Maximum

**FORCES** 

Tension

TOP CHORD 1-2=0/45, 2-3=-388/87, 3-4=-2445/404, 4-5=-2251/416, 5-6=-2446/404, 6-7=-388/87,

7-8=0/45, 2-15=-457/186, 7-9=-457/185

**BOT CHORD** 14-15=-386/2547, 13-14=-386/2547, 11-13=-271/2250, 10-11=-340/2546,

9-10=-340/2546

3-14=0/240, 3-13=-369/175, 4-13=0/357,

4-11=-225/226, 5-11=0/357, 6-11=-368/176,

6-10=0/239, 3-15=-2472/378, 6-9=-2471/379

# NOTES

WFBS

- 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 318 lb uplift at joint 15 and 318 lb uplift at joint 9.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard



March 21,2024



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 198 WO
B240098	C5	Roof Special Girder	1	1	Job Reference (optional)

Run: 8.73 S Feb 22 2024 Print: 8.730 S Feb 22 2024 MiTek Industries, Inc. Ved Mar 2004 10 ID:ZaUd5qOmXewXagMucjlqmSz4SeD-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDorJ4z5C?f

4-4-0

3-0-0

3-10-12

S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 164360234 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION

35-10-8 34-0-0 <u>-1-10-8</u>ı 14-7-4 17-4-12 21-8-4 24-8-12 28-8-12 32-8-12 7-5-0 1-3-4 1-10-8 1-10-8 7-5-0 7-2-4 2-9-8 4-3-8 3-0-8 4-0-0 4-0-0 6x8= 6x12= 5 412 3x4 II 6 3x4 : 8x8= 6x12= 6x6= 3 9 10 5-10-7 4x10 = × 13 15 14 24 6x6= 2x4 II 6x12= 8x8 II 21 20 19 18 3x4 II 4x8= 3x4= 3x6= 10x16= 34-0-0 7-5-0 14-6-0 17-6-0 21-10-0 24-10-0 28-8-12 32-7-8

Scale = 1:66.3

Plate Offsets (X, Y): [5:0-4-8,0-1-0], [15:0-2-8,0-3-0], [16:0-8-0,0-5-4], [21:0-2-8,0-2-0]

7-5-0

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	0.61	Vert(LL)	-0.62	15-16	>653	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.84	Vert(CT)	-1.09	15-16	>370	240		
BCLL	0.0*	Rep Stress Incr	NO	WB	1.00	Horz(CT)	0.21	12	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.43	15-16	>936	240	Weight: 163 lb	FT = 10%

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_	_	_	_			

TOP CHORD 2x4 SPF 2100F 1.8E \*Except\* 4-5:2x4 SPF

No.2, 7-9:2x6 SP 2400F 2.0E, 9-11:2x6 SPF

No.2

BOT CHORD 2x4 SPF No.2 \*Except\* 16-12:2x6 SP 2400F 2.0E

WFBS 2x3 SPF No.2 \*Except\* 16-5,12-10:2x4 SPF

No.2, 22-2:2x6 SPF No.2

# **BRACING**

TOP CHORD Structural wood sheathing directly applied or 2-9-5 oc purlins, except end verticals, and

2-0-0 oc purlins (3-3-0 max.): 4-5, 7-9.

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

bracing, Except:

8-11-13 oc bracing: 20-21 9-5-12 oc bracing: 15-16.

WEBS 1 Row at midpt 8-13

**REACTIONS** (size) 12=0-3-8, 22=0-3-8

Max Horiz 22=117 (LC 8) Max Uplift 12=-354 (LC 5), 22=-313 (LC 4)

Max Grav 12=1524 (LC 1), 22=1651 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/47, 2-3=-2962/420, 3-4=-2449/358.

4-5=-2261/391, 5-6=-5737/901,

6-7=-5864/857, 7-8=-8373/1226 8-9=-2170/338, 9-10=-2248/356, 10-11=0/45,

2-22=-1572/350, 10-12=-1738/385

**BOT CHORD** 21-22=-185/434, 20-21=-424/2730,

18-20=-264/2242, 17-18=-14/143,

16-17=0/87, 6-16=-237/140,

15-16=-1196/8444, 14-15=-839/5776,

13-14=-839/5776, 12-13=-31/304

**WEBS** 

3-21=-114/136, 3-20=-619/210, 4-20=-23/370, 4-18=-217/247,

7-1-0

5-18=-1036/213, 16-18=-256/2345,

3-0-0

5-16=-628/4081, 7-16=-3040/473,

7-15=-956/199, 8-14=0/146, 9-13=-84/435, 2-21=-287/2309, 10-13=-298/2010,

8-15=-445/2792, 8-13=-3716/561

# 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.
- Bearings are assumed to be: Joint 22 SPF No.2 , Joint 12 SP 2400F 2.0E
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 313 lb uplift at joint 22 and 354 lb uplift at joint 12.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 71 lb down and 127 lb up at 29-0-0, and 71 lb down and 127 lb up at 30-8-0, and 71 lb down and 127 lb up at 32-8-12 on top chord, and 16 lb down and 23 lb up at 29-0-0, and 16 lb down and 23 lb up at 30-8-0, and 103 lb down and 177 lb up at 32-8-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

3-10-12

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, 5-7=-70, 7-9=-70, 9-10=-70, 10-11=-70, 17-22=-20, 12-16=-20 Concentrated Loads (lb)

Vert: 9=30 (F), 8=30 (F), 13=52 (F), 23=30 (F)



March 21,2024



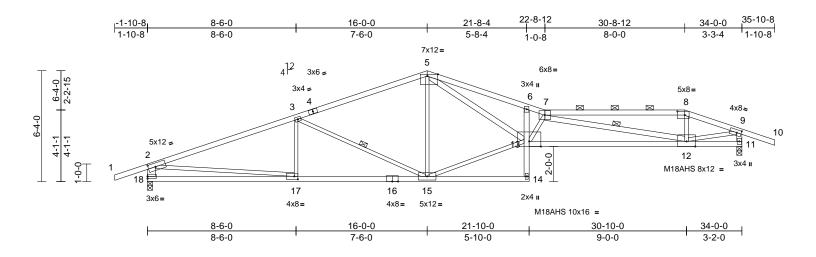
Job	Truss	Truss Type	Qty	Ply	Lot 198 WO
B240098	C6	Roof Special	1	1	Job Reference (optional)

DEVELOPMENT SERVICES 164360235 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.73 S Feb 22 2024 Print: 8.730 S Feb 22 2024 MiTek Industries, Inc. Ved Mar 2004 12 ID:CL9JTJ7yjt9fxlggJ5Mgtpz4SeZ-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J42sC?



Scale = 1:65.9

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

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	0.98	Vert(LL)	-0.54	13	>743	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.84	Vert(CT)	-0.98	12-13	>411	240	M18AHS	142/136
BCLL	0.0*	Rep Stress Incr	YES	WB	0.97	Horz(CT)	0.21	11	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.39	13	>999	240	Weight: 137 lb	FT = 10%

LUMBER

**BOT CHORD** 

2x4 SPF No.2 \*Except\* 5-7,7-8:2x4 SPF TOP CHORD

2100F 1.8E

2x4 SPF No.2 \*Except\* 13-11:2x4 SPF 2100F

1.8E

**WEBS** 2x3 SPF No.2 \*Except\* 13-5,11-9:2x4 SPF

No.2, 12-7:2x4 SPF 2100F 1.8E, 18-2:2x6

SPF No.2

**BRACING** TOP CHORD

Structural wood sheathing directly applied,

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

3-15, 7-12

(2-2-0 max.): 7-8.

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

bracing WFBS 1 Row at midpt

11=0-3-8, 18=0-3-8

REACTIONS (size) Max Horiz 18=125 (LC 8)

Max Uplift 11=-318 (LC 5), 18=-297 (LC 4)

Max Grav 11=1654 (LC 1), 18=1661 (LC 1)

**FORCES** 

TOP CHORD

(lb) - Maximum Compression/Maximum Tension

1-2=0/47. 2-3=-2993/378. 3-5=-2323/336.

5-6=-5673/849, 6-7=-5773/784,

7-8=-2433/339, 8-9=-2617/334, 9-10=0/45, 2-18=-1573/341, 9-11=-1657/304

BOT CHORD 17-18=-241/560, 15-17=-380/2749,

14-15=-22/137, 13-14=0/95, 6-13=-190/102,

12-13=-823/6222, 11-12=-20/49 **WEBS** 3-17=-54/190, 3-15=-784/229,

5-15=-280/122, 13-15=-178/2100,

5-13=-607/3952, 7-13=-1522/321,

7-12=-3881/564, 8-12=0/465

2-17=-197/2199, 9-12=-327/2533

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. 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.
- Bearings are assumed to be: Joint 18 SPF No.2, Joint 11 SPF 2100F 1.8E .
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 297 lb uplift at joint 18 and 318 lb uplift at joint 11.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 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



March 21,2024



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

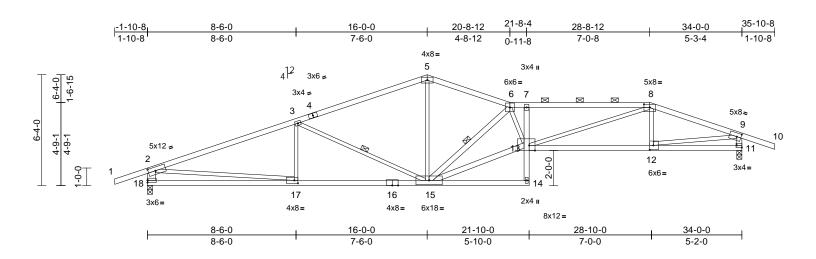


Job	Truss	Truss Type	Qty	Ply	Lot 198 WO
B240098	C7	Roof Special	1	1	Job Reference (options

Run: 8.73 S Feb 22 2024 Print: 8.730 S Feb 22 2024 MiTek Industries, Inc. Ved Mar 2004 12 ID:CL9JTJ7yjt9fxlggJ5Mgtpz4SeZ-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J429

S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 164360236 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION



Scale = 1:65.9

Plate Offsets (X, Y): [2:0-4-15,0-2-8], [8:0-4-0,0-2-3], [9:0-2-14,0-2-8], [11:Edge,0-1-8], [12:0-2-8,0-3-0], [13:0-4-0,Edge], [17:0-2-8,0-2-0]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.98	Vert(LL)	-0.36	13	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.83	Vert(CT)	-0.66	12-13	>610	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.85	Horz(CT)	0.14	11	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.26	13	>999	240	Weight: 137 lb	FT = 10%

LUMBER

TOP CHORD 2x4 SPF No.2 \*Except\* 6-8:2x4 SPF 2400F

2.0E

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

2x3 SPF No.2 \*Except\* 15-6,11-9:2x4 SPF **WEBS** No.2, 15-13:2x4 SPF 2100F 1.8E, 18-2:2x6

SPF No.2

**BRACING** TOP CHORD

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

(2-2-0 max.): 6-8.

**BOT CHORD** Rigid ceiling directly applied or 9-6-0 oc

bracing.

WEBS 1 Row at midpt 3-15, 6-15

REACTIONS (size) 11=0-3-8, 18=0-3-8 Max Horiz 18=125 (LC 8)

Max Uplift 11=-318 (LC 5), 18=-294 (LC 4)

Max Grav 11=1654 (LC 1), 18=1661 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/47, 2-3=-2995/373, 3-5=-2308/336,

5-6=-2281/332. 6-7=-4692/679.

7-8=-4803/694. 8-9=-2879/401. 9-10=0/45. 2-18=-1574/338, 9-11=-1604/337

17-18=-241/557, 15-17=-375/2751,

**BOT CHORD** 14-15=-19/107, 13-14=0/90, 7-13=-392/189,

12-13=-315/2679, 11-12=-46/219

**WEBS** 3-17=-51/195, 3-15=-798/230, 5-15=-80/983,

6-15=-2905/455, 13-15=-519/4362, 6-13=-217/1339, 8-13=-301/2251, 8-12=-234/132, 2-17=-192/2203,

9-12=-309/2477

# 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 .
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 294 lb uplift at joint 18 and 318 lb uplift at joint 11.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 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



March 21,2024





Job	Truss	Truss Type	Qty	Ply	Lot 198 WO
B240098	C8	Roof Special	1	1	Job Reference (optiona

S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 164360237 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION

4-4-0

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.73 S Feb 22 2024 Print: 8.730 S Feb 22 2024 MiTek Industries, Inc. Ved Mar 2004 12 ID:CL9JTJ7yjt9fxlggJ5Mgtpz4SeZ-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4296?

5-10-0

7-10-0

35-10-8 1-10-8 8-6-0 16-0-0 21-6-12 25-8-6 29-6-12 34-0-0 1-10-8 8-6-0 7-6-0 5-6-12 4-1-10 3-10-6 4-5-4 6x12= 5 3x6 = 6x8≥ 3x6= 6x6= 8 ↲ 4x8~ 9 5x12 = × 2 3x4= <u></u> 6x8= 17 15 16 2x4 II 3x6= 4x8= 4x8= 5x12= 8x12= 8-6-0 16-0-0 21-10-0 29-8-0 34-0-0

Scale = 1:67.1

Plate Offsets (X, Y): [2:0-4-15,0-2-8], [5:0-7-4,Edge], [8:0-3-0,0-2-8], [9:0-3-0,0-2-0], [11:Edge,0-1-8], [13:0-4-8,Edge], [17:0-2-8,0-2-0]

8-6-0

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	0.98	Vert(LL)	-0.46	6-13	>882	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.78	Vert(CT)	-0.83	12-13	>487	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.96	Horz(CT)	0.17	11	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.33	6-13	>999	240	Weight: 134 lb	FT = 10%

7-6-0

LUMBER

2x4 SPF No.2 \*Except\* 5-6:2x4 SPF 2100F TOP CHORD

1.8E

**BOT CHORD** 2x4 SPF No.2 \*Except\* 13-11:2x4 SPF 2100F 1.8E

WEBS 2x3 SPF No.2 \*Except\* 13-5,11-9:2x4 SPF

No.2, 18-2:2x6 SPF No.2

BRACING

TOP CHORD Structural wood sheathing directly applied,

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

**BOT CHORD** Rigid ceiling directly applied or 9-5-11 oc

bracing.

WEBS 1 Row at midpt 3-15, 7-12

REACTIONS (size) 11=0-3-8, 18=0-3-8

Max Horiz 18=125 (LC 8)

Max Uplift 11=-318 (LC 5), 18=-295 (LC 4)

Max Grav 11=1654 (LC 1), 18=1661 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension TOP CHORD

1-2=0/47, 2-3=-2993/375, 3-5=-2323/336,

5-6=-5652/837. 6-7=-5316/719. 7-8=-2524/364, 8-9=-2754/367, 9-10=0/45.

2-18=-1573/339, 9-11=-1613/326

**BOT CHORD** 17-18=-241/560, 15-17=-377/2748,

14-15=-19/133, 13-14=0/95, 6-13=-2069/396,

12-13=-571/4188, 11-12=-38/181

3-17=-54/190, 3-15=-784/229 5-15=-281/123, 13-15=-178/2105,

5-13=-594/3932, 8-12=-15/626,

2-17=-194/2198, 9-12=-289/2411,

7-13=-116/1285, 7-12=-1900/330

# NOTES

**WEBS** 

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 18 SPF No.2 , Joint 11 SPF 2100F 1.8E .
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 295 lb uplift at joint 18 and 318 lb uplift at joint 11.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 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



March 21,2024



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

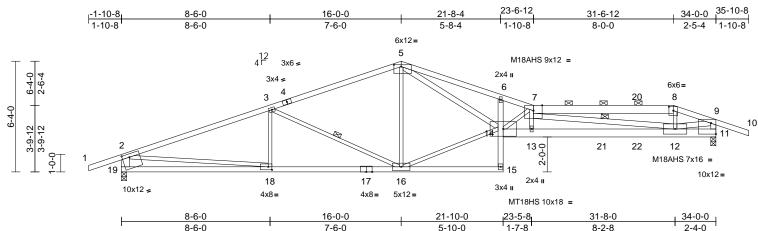


Job	Truss	Truss Type	Qty	Ply	Lot 198 WO
B240098	C9	Roof Special Girder	1	1	Job Reference (optional)

Run: 8.73 S Feb 22 2024 Print: 8.730 S Feb 22 2024 MiTek Industries, Inc. Ved Mar 2005 9/12 ID:CL9JTJ7yjt9fxlggJ5Mgtpz4SeZ-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J429

S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 164360238 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION



Scale = 1:65.9

Plate Offsets (X, Y): [5:0-5-0,0-1-4], [8:0-3-0,0-2-11], [11:Edge,0-7-8], [18:0-2-8,0-2-0], [19:0-5-0,0-2-4]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.89	Vert(LL)	-0.59	14	>684	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.88	Vert(CT)	-1.06	15	>382	240	M18AHS	142/136
BCLL	0.0*	Rep Stress Incr	NO	WB	0.99	Horz(CT)	0.21	11	n/a	n/a	MT18HS	197/144
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.44	14	>920	240	Weight: 157 lb	FT = 10%

LUMBER

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

2400F 2.0E, 7-8:2x6 SPF No.2, 8-10:2x4

SPF No.2

**BOT CHORD** 2x4 SPF No.2 \*Except\* 14-11:2x6 SP 2400F 2.0E

WFBS 2x3 SPF No.2 \*Except\* 14-5,12-7:2x4 SPF

2100F 1.8E, 19-2:2x6 SPF No.2,

11-9,12-9:2x4 SPF No.2

BRACING

Structural wood sheathing directly applied or TOP CHORD

2-5-3 oc purlins, except end verticals, and 2-0-0 oc purlins (2-10-0 max.): 7-8.

**BOT CHORD** Rigid ceiling directly applied or 8-11-5 oc

bracing. WFBS

1 Row at midpt 3-16, 7-12 REACTIONS 11=0-3-8, 19=0-3-8 (size)

Max Horiz 19=127 (LC 8)

Max Uplift 11=-428 (LC 5), 19=-315 (LC 4)

Max Grav 11=1900 (LC 1), 19=1714 (LC 1) **FORCES** (lb) - Maximum Compression/Maximum

Tension

TOP CHORD

**BOT CHORD** 

1-2=0/47, 2-3=-3123/423, 3-5=-2469/384,

5-6=-6441/1068, 6-7=-6473/1000,

7-8=-3080/554, 8-9=-3289/568, 9-10=0/45,

2-19=-1627/359, 9-11=-2123/455

18-19=-244/592, 16-18=-424/2870, 15-16=-16/180, 14-15=0/97, 6-14=-307/144,

13-14=-1202/8051, 12-13=-1209/8050,

11-12=0/106

3-18=-62/186, 3-16=-765/243,

5-16=-348/145, 14-16=-237/2212,

5-14=-800/4641, 7-14=-2387/405, 7-13=-60/277, 7-12=-5048/722,

8-12=-39/563, 2-18=-235/2288,

9-12=-590/3242

**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.
- Bearings are assumed to be: Joint 19 SPF No.2, Joint 11 SP 2400F 2.0E
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 315 lb uplift at joint 19 and 428 lb uplift at joint 11.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 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) 60 lb down and 8 lb up at 29-6-0, and 60 lb down and 9 lb up at 31-6-12 on top chord, and 272 lb down and 62 lb up at 27-6-0, and 16 lb down and 18 lb up at 29-6-0, and 53 lb down and 44 lb up at 31-6-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 12) 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, 2-5=-70, 5-7=-70, 7-8=-70, 8-9=-70,

9-10=-70, 15-19=-20, 11-14=-20

Concentrated Loads (lb)

Vert: 12=-24 (B), 21=-272 (B), 22=-3 (B)



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 198 WO
B240098	C10	Roof Special	1	1	Job Reference (optiona

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 164360239 LEE'S SUMMIT. MISSOURI

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.73 S Feb 22 2024 Print: 8.730 S Feb 22 2024 MiTek Industries, Inc. Ved Mar 2004 12 ID:CL9JTJ7yjt9fxlggJ5Mgtpz4SeZ-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4296?

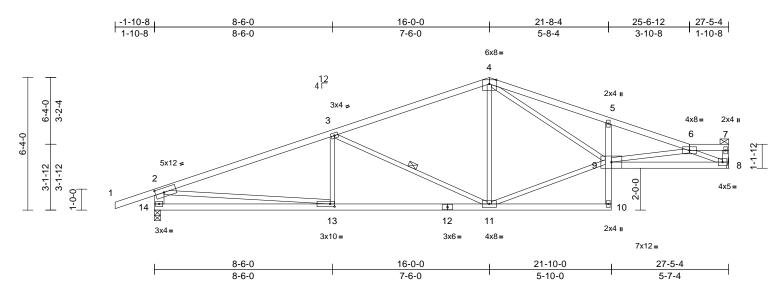


Plate Offsets (X, Y): [2:0-4-15,0-2-8], [13:0-2-8,0-1-8]

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	0.85	Vert(LL)		11-13	>999		MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.66	Vert(CT)	-0.30	11-13	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.54	Horz(CT)	0.07	8	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.11	11-13	>999	240	Weight: 108 lb	FT = 10%

#### LUMBER

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

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

14-2:2x6 SPF No.2

**BRACING** 

WEBS

TOP CHORD Structural wood sheathing directly applied or 2-7-9 oc purlins, except end verticals, and

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

BOT CHORD Rigid ceiling directly applied or 9-9-7 oc

bracing.

WEBS 1 Row at midpt 3-11

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

Max Horiz 14=137 (LC 8)

Max Uplift 8=-166 (LC 5), 14=-278 (LC 4) Max Grav 8=1212 (LC 1), 14=1371 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/47, 2-3=-2285/333, 3-4=-1523/237,

4-5=-2713/449, 5-6=-2732/360, 6-7=-117/0, 7-8=-103/27, 2-14=-1286/322

**BOT CHORD** 13-14=-249/503, 11-13=-353/2078

10-11=-9/83, 9-10=0/94, 5-9=-383/190,

8-9=-342/2227

**WEBS** 3-13=0/232, 3-11=-845/235, 4-11=-34/200,

9-11=-151/1351, 4-9=-281/1421,

6-9=-16/354, 6-8=-2366/387, 2-13=-159/1582

# 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
- 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) Refer to girder(s) for truss to truss connections.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 166 lb uplift at joint 8 and 278 lb uplift at joint 14.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 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



March 21,2024



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 198 WO
B240098	C11	Common	1	1	Job Reference (optional

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 164360240 LEE'S SUMMIT. MISSOURI

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.73 S Feb 22 2024 Print: 8.730 S Feb 22 2024 MiTek Industries, Inc. Ved Mar 2002 1 ID:gXihhf7bUBHWZRFstotvP0z4SeY-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi734z3691

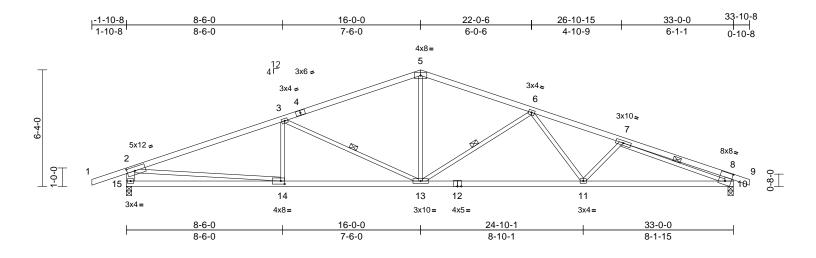


Plate Offsets (X, Y): [2:0-4-15,0-2-8], [8:0-3-15,0-5-10], [14:0-2-8,0-2-0]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.94	Vert(LL)	-0.22	11-13	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.85	Vert(CT)	-0.49	11-13	>792	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.83	Horz(CT)	0.12	10	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.16	11-13	>999	240	Weight: 119 lb	FT = 10%

#### LUMBER

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

2x3 SPF No.2 \*Except\* 15-2:2x6 SPF No.2, WEBS

10-8:2x6 SP 2400F 2.0E

**BRACING** 

Structural wood sheathing directly applied, TOP CHORD

except end verticals.

**BOT CHORD** Rigid ceiling directly applied or 9-4-3 oc

bracing.

WEBS 3-13, 7-10, 6-13 1 Row at midpt

REACTIONS (size) 10=0-3-8, 15=0-3-8

Max Horiz 15=-85 (LC 9)

Max Uplift 10=-264 (LC 5), 15=-302 (LC 4) Max Grav 10=1538 (LC 1), 15=1615 (LC 1)

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

Tension

TOP CHORD

1-2=0/47, 2-3=-2879/393, 3-5=-2202/326,

5-6=-2179/317, 6-7=-3023/438,

7-8=-1066/218, 8-9=0/24, 2-15=-1526/347, 8-10=-639/201

**BOT CHORD** 

14-15=-199/553, 13-14=-343/2641, 11-13=-285/2630, 10-11=-386/2928

**WEBS** 3-14=-52/184, 3-13=-789/235, 5-13=-62/895,

2-14=-209/2097, 7-10=-2153/269,

6-13=-801/243, 6-11=-4/396, 7-11=-189/155

# 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 302 lb uplift at joint 15 and 264 lb uplift at joint 10.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



March 21,2024



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 besign value for see only with recks confined in the segment of 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 198 WO
B240098	C12	Common	1	1	Job Reference (optional

RELEASE FOR CONSTRUCTION

AS NOTED FOR PLAN REVIEW

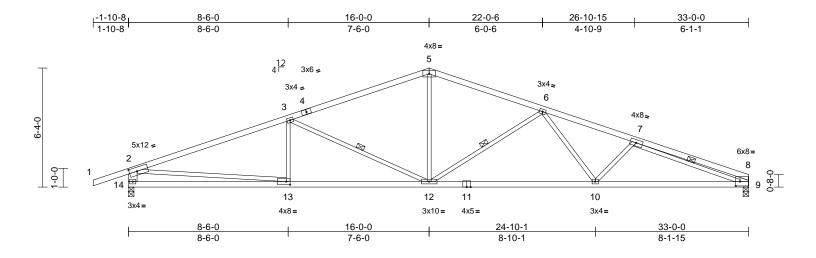
DEVELOPMENT SERVICES
164360241

LEE'S SUMMIT, MISSOURI

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.73 S Feb 22 2024 Print: 8.730 S Feb 22 2024 MiTek Industries, Inc. Ved Mar 2005 1D:1m2?IAOOIx2OBqx59QG3lfz4SeC-RfC?PsB70Hq3NSgPqnL8w3uITXbG WrCDoix4296 1

ved Mar 2005 9/13 4/2 9:24



# Scale = 1:61.3

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.94	Vert(LL)	-0.23	10-12	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.87	Vert(CT)	-0.50	10-12	>775	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.93	Horz(CT)	0.12	9	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.16	10-12	>999	240	Weight: 118 lb	FT = 10%

#### LUMBER

WEBS

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

2x3 SPF No.2 \*Except\* 14-2,9-8:2x6 SPF

BRACING No

TOP CHORD Structural wood sheathing directly applied,

except end verticals.

BOT CHORD Rigid ceiling directly applied or 8-11-13 oc

bracing.

WEBS 1 Row at midpt 3-12, 6-12, 7-9

**REACTIONS** (size) 9=0-3-8, 14=0-3-8

Max Horiz 14=90 (LC 8)

Max Uplift 9=-216 (LC 5), 14=-302 (LC 4)

Max Grav 9=1460 (LC 1), 14=1616 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/47. 2

1-2=0/47, 2-3=-2882/394, 3-5=-2206/328,

5-6=-2183/318, 6-7=-3041/446,

7-8=-844/154, 2-14=-1528/347, 8-9=-463/126

BOT CHORD 13-14=-205/553, 12-13=-352/2644, 10-12=-307/2634, 9-10=-418/2959

WEBS 3-13=-53/184, 3-12=-788/235, 5-12=-63/895,

6-12=-802/243, 6-10=-9/402, 7-10=-212/162,

2-13=-210/2100, 7-9=-2404/339

# 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 302 lb uplift at joint 14 and 216 lb uplift at joint 9.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



March 21,2024



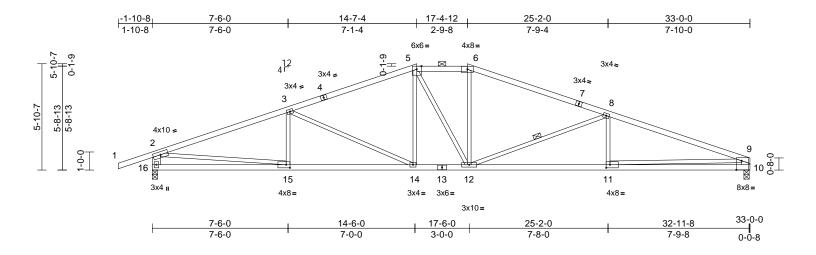


Job	Truss	Truss Type	Qty	Ply	Lot 198 WO
B240098	C13	Hip	1	1	Job Reference (optional

Run: 8.73 S Feb 22 2024 Print: 8.730 S Feb 22 2024 MiTek Industries, Inc. Wed Mar 2005 9913 ID:1m2?IAOOIx2OBqx59QG3lfz4SeC-RfC?PsB70Hq3NSgPqnL8w3uITXbG\_WrCDoix423291

AS NOTED FOR PLAN REVIEW
DEVELOPMENT SERVICES
164360242
LEE'S SUMMIT, MISSOURI

RELEASE FOR CONSTRUCTION



Scale = 1:63.6

Plate Offsets (X, Y): [10:0-3-8,0-6-0], [11:0-2-8,0-2-0], [15:0-2-8,0-2-0]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.89	Vert(LL)	-0.21	11-12	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.86	Vert(CT)	-0.44	11-12	>893	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.91	Horz(CT)	0.09	10	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.15	11-12	>999	240	Weight: 123 lb	FT = 10%

LUMBER

TOP CHORD 2x4 SPF No.2 \*Except\* 6-7,7-9:2x4 SPF

2100F 1.8E 2x4 SPF No.2

BOT CHORD 2x4 SPF No.2 WEBS 2x3 SPF No.2 \*Except\* 16-2,10-9:2x6 SPF

No.2

BRACING TOP CHORD

CHORD Structural wood sheathing directly applied,

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

(3-8-12 max.): 5-6

BOT CHORD Rigid ceiling directly applied or 9-0-6 oc

bracing.
WEBS 1 Row a

WEBS 1 Row at midpt 8-12 **REACTIONS** (size) 10=0-3-8, 16=0-3-8

Max Horiz 16=80 (LC 8)

Max Uplift 10=-226 (LC 5), 16=-312 (LC 4)

Max Grav 10=1460 (LC 1), 16=1616 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/47. 2-3=-2879/416. 3-5=-2351/356.

5-6=-2183/387, 6-8=-2398/373, 8-9=-3237/496, 2-16=-1537/349,

9-10=-1375/264

9-10=-13/5/264 BOT CHORD 15-16=-155/424, 14-15=-375/2651,

12-14=-217/2148, 11-12=-417/2995,

10-11=-152/849

WEBS 3-15=-101/145, 3-14=-618/198,

5-14=-31/348, 5-12=-172/285, 6-12=-21/378, 8-12=-909/259, 8-11=0/236, 2-15=-276/2240,

9-11=-266/2149

# 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

- B) 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.
- 6) All bearings are assumed to be SPF No.2 .
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 312 lb uplift at joint 16 and 226 lb uplift at joint 10.
- 8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard



March 21,2024





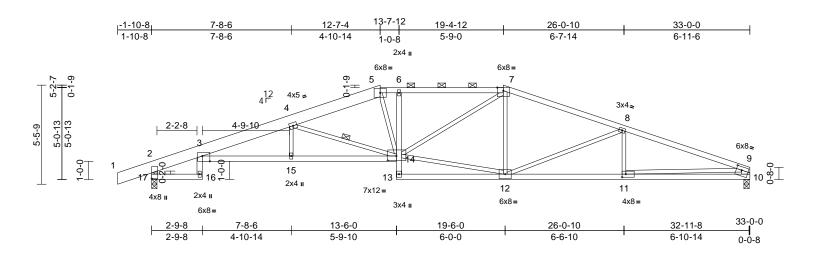
Job	Truss	Truss Type	Qty	Ply	Lot 198 WO
B240098	C14	Hip	1	1	Job Reference (optional

S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 164360243 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.73 S Feb 22 2024 Print: 8.730 S Feb 22 2024 MiTek Industries, Inc. Ved Mar 2005 9/18 ID:kQ6MqnJ?yoAOslvlFSeQWBz4SeJ-RfC?PsB70Hq3NSgPqnL8w3ulTXbG (WrCDoly-42)-2.ft



Scale = 1:63.6

Plate Offsets (X, Y): [3:0-5-0,Edge], [9:0-3-8,0-2-4], [11:0-2-8,0-2-0], [14:0-5-12,0-3-0]

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	0.80	Vert(LL)	-0.39	14-15	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.83	Vert(CT)	-0.72	14-15	>544	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.83	Horz(CT)	0.41	10	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.29	14-15	>999	240	Weight: 152 lb	FT = 10%

LUMBER

2x4 SPF No.2 \*Except\* 1-5:2x8 SP 2400F TOP CHORD

2.0E

**BOT CHORD** 2x4 SPF No.2 \*Except\* 3-14:2x4 SPF 2100F

1.8E

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

10-9:2x6 SPF No.2

BRACING

TOP CHORD Structural wood sheathing directly applied,

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

(2-5-7 max.): 5-7.

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

bracing, Except:

8-8-0 oc bracing: 11-12.

WFBS 1 Row at midpt 4-14

REACTIONS (size) 10=0-3-8, 17=0-3-8

Max Horiz 17=77 (LC 8) Max Uplift 10=-238 (LC 5), 17=-322 (LC 4)

Max Grav 10=1464 (LC 1), 17=1614 (LC 1)

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

Tension

TOP CHORD 1-2=0/45, 2-3=-483/109, 3-4=-4225/648,

> 4-5=-3086/486, 5-6=-3083/516, 6-7=-3060/521, 7-8=-2633/443,

8-9=-3249/531, 2-17=-1615/345 9-10=-1381/272

**BOT CHORD** 16-17=-2/18, 3-16=0/68, 3-15=-617/4168,

14-15=-613/4154, 13-14=0/106, 6-14=-327/148, 12-13=-16/190,

11-12=-457/3014, 10-11=-138/752 **WEBS** 

4-15=-176/119, 4-14=-1373/275, 5-14=-142/837, 12-14=-266/2273,

7-14=-171/856, 7-12=-98/158, 8-12=-669/220, 8-11=-40/162,

9-11=-320/2267

# 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 322 lb uplift at joint 17 and 238 lb uplift at joint 10.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 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



March 21,2024



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



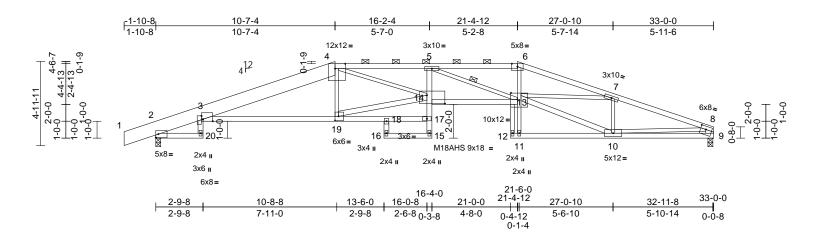
Job	Truss	Truss Type	Qty	Ply	Lot 198 WO
B240098	C15	Hip	1	1	Job Reference (optional

DEVELOPMENT SERVICES 164360244 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.73 S Feb 22 2024 Print: 8.730 S Feb 22 2024 MiTek Industries, Inc. Ved Mar 2000 13 ID:Ccgk17Kdj5IFTvUxp9Af3Oz4SeI-RfC?PsB70Hq3NSgPqnL8w3uITXbGKV



Scale = 1:68.2

Plate Offsets (X, Y): [3:0-6-14,Edge], [3:0-2-7,0-1-2], [4:0-7-4,Edge], [8:0-3-12,0-2-4], [13:0-4-12,0-4-8], [14:1-0-12,0-6-0], [19:0-2-8,0-3-0]

Loading	(psf)	Spacing	2.0.0	csı		DEFL	in	(loc)	l/defl	I /d	PLATES	GRIP
Loading	(psi)	Spacing	2-0-0	l coi		DELL	in	(IOC)	i/deli	L/u	PLATES	GRIF
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.69	Vert(LL)	-0.64	13-14	>609	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.79	Vert(CT)	-1.16	13-14	>337	240	M18AHS	142/136
BCLL	0.0*	Rep Stress Incr	YES	WB	1.00	Horz(CT)	0.57	9	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.48	13-14	>820	240	Weight: 165 lb	FT = 10%

#### LUMBER

**BOT CHORD** 

TOP CHORD 2x4 SPF 2100F 1.8E \*Except\* 1-4:2x10 SP

2400F 2.0E

2x4 SPF No.2 \*Except\* 3-17,14-13:2x4 SPF

2100F 1.8E, 13-12:2x3 SPF No.2 2x3 SPF No.2 \*Except\* 19-14,10-13:2x4 SPF WEBS

No.2, 9-8:2x6 SPF No.2

**BRACING** 

TOP CHORD

TOP CHORD Structural wood sheathing directly applied or

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

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

bracing, Except:

6-0-0 oc bracing: 15-16

8-4-8 oc bracing: 13-14. WFBS 1 Row at midpt 5-13

REACTIONS 2=0-3-8, 9=0-3-8 (size)

Max Horiz 2=79 (LC 12)

Max Uplift 2=-333 (LC 4), 9=-248 (LC 5)

Max Grav 2=1615 (LC 1), 9=1465 (LC 1)

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

Tension

1-2=0/12, 2-3=-686/122, 3-4=-3646/561,

4-5=-6260/985, 5-6=-5056/833,

6-7=-5221/838, 7-8=-3238/552

8-9=-1386/274

**BOT CHORD** 2-20=0/10, 3-20=0/60, 3-19=-488/3501,

18-19=-72/433, 17-18=-94/512, 16-18=0/41, 15-16=-78/22, 15-17=0/60, 14-17=0/90,

5-14=0/321, 13-14=-890/6468, 12-13=-251/0, 11-12=-3/30, 10-11=-1/94, 9-10=-131/704

WEBS 4-19=-702/211, 14-19=-417/3120,

5-13=-1659/325, 11-13=0/388, 6-13=-124/1289, 7-10=-1102/275, 8-10=-355/2314, 10-13=-511/3082,

7-13=-258/1900, 4-14=-499/2923

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)
- The Fabrication Tolerance at joint 13 = 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.
- All bearings are assumed to be SPF No.2 .
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 333 lb uplift at joint 2 and 248 lb uplift at joint 9.
- 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard



March 21,2024



**NOTES** 



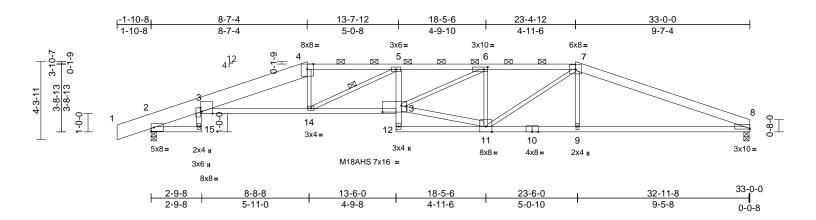
Job	Truss	Truss Type	Qty	Ply	Lot 198 WO
B240098	C16	Hip	1	1	Job Reference (optional

S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 164360245 LEE'S SUMMIT. MISSOURI

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.73 S Feb 22 2024 Print: 8.730 S Feb 22 2024 MiTek Industries, Inc. Ved Mar 2004 3 ID:Ccgk17Kdj5IFTvUxp9Af3Oz4SeI-RfC?PsB70Hq3NSgPqnL8w3uITXbGKV rCDoi7J

RELEASE FOR CONSTRUCTION



Scale = 1:63.5

Plate Offsets (X, Y): [3:0-7-2,Edge], [3:0-2-7,0-0-14], [6:0-2-8,0-1-8], [8:Edge,0-0-6], [13:1-0-8,0-4-4]

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	0.82	Vert(LL)	-0.45	`12	>880	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.68	Vert(CT)	-0.80	13-14	>488	240	M18AHS	142/136
BCLL	0.0*	Rep Stress Incr	YES	WB	0.80	Horz(CT)	0.35	8	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.35	12	>999	240	Weight: 153 lb	FT = 10%

LUMBER

TOP CHORD 2x10 SP 2400F 2.0E \*Except\* 4-7:2x4 SPF

No.2, 7-8:2x6 SP 2400F 2.0E

2x4 SPF No.2 \*Except\* 3-13,10-8:2x4 SPF **BOT CHORD** 

2100F 1.8E

WEBS 2x3 SPF No.2 \*Except\* 11-13:2x4 SPF No.2

**BRACING** 

TOP CHORD Structural wood sheathing directly applied or

4-9-15 oc purlins, except

2-0-0 oc purlins (2-2-0 max.): 4-7. **BOT CHORD** Rigid ceiling directly applied or 8-10-5 oc

bracing.

WFBS 1 Row at midpt 5-14 REACTIONS (size) 2=0-3-8, 8=0-3-8

Max Horiz 2=66 (LC 8)

Max Uplift 2=-343 (LC 4), 8=-258 (LC 5)

Max Grav 2=1618 (LC 1), 8=1468 (LC 1)

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

Tension

TOP CHORD 1-2=0/12, 2-3=-688/145, 3-4=-4032/664,

4-5=-3938/689, 5-6=-5005/872,

6-7=-3463/651, 7-8=-3214/538

2-15=0/10, 3-15=0/60, 3-14=-598/3926, 13-14=-795/5114, 12-13=0/105, 5-13=0/338,

11-12=-40/296, 9-11=-419/2932,

8-9=-416/2938

**WEBS** 4-14=-14/445, 5-14=-1419/300,

11-13=-486/3260, 6-13=-294/1706,

6-11=-1096/272, 7-9=0/352, 7-11=-184/808

# NOTES

**BOT 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.
- 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 8 SPF 2100F 1.8E
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 258 lb uplift at joint 8 and 343 lb uplift at joint 2.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard



March 21,2024



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



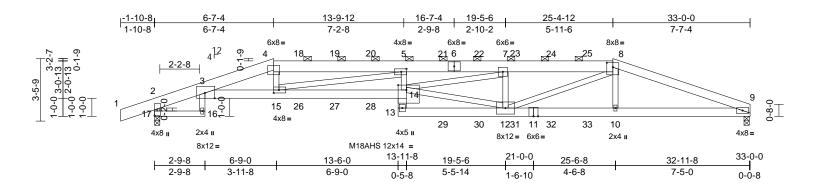
Job	Truss	Truss Type	Qty	Ply	Lot 198 WO	
B240098	C17	Hip Girder	1	2	Job Reference (optional)	

S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 164360246 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.73 S Feb 22 2024 Print: 8.730 S Feb 22 2024 MiTek Industries, Inc. Ved Mar 2004 Print: 8.730 S Feb 22 2024 MiTek Industries, Inc. Ved Mar ID:8?oUSpLtEjYzjDdKwaC78pz4SeG-RfC?PsB70Hq3NSgPqnL8w3ulTXbGl WrCDoi734z36?/



Scale = 1:63.8

Plate Offsets (X, Y): [3:0-6-8,Edge], [4:Edge,0-0-0], [5:0-3-8,0-2-0], [8:0-4-0,0-3-0], [14:0-5-8,0-3-4], [15:0-3-8,0-2-0]

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	0.84	Vert(LL)	-0.52	14-15	>755	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.98	Vert(CT)	-0.95	14-15	>415	240	M18AHS	142/136
BCLL	0.0*	Rep Stress Incr	NO	WB	0.68	Horz(CT)	0.40	9	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.44	14	>897	240	Weight: 403 lb	FT = 10%

TOP CHORD 2x8 SP 2400F 2.0E \*Except\* 8-9:2x6 SPF

No.2

**BOT CHORD** 2x6 SPF No 2 \*Except\* 17-16 16-3:2x4 SPF

No.2. 3-14:2x6 SP 2400F 2.0E

2x4 SPF No.2 \*Except\* 12-14:2x4 SPF WEBS

2100F 1 8F

BRACING

TOP CHORD Structural wood sheathing directly applied or

5-4-1 oc purlins, except end verticals, and 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) 9=0-3-8, 17=0-3-8

Max Horiz 17=41 (LC 8)

Max Uplift 9=-557 (LC 5), 17=-641 (LC 4) Max Grav 9=2760 (LC 1), 17=2955 (LC 1)

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

Tension

TOP CHORD 1-2=0/45, 2-3=-926/219, 3-4=-11106/2140, 4-5=-11093/2155. 5-7=-14313/2827.

7-8=-9680/1966, 8-9=-7406/1495,

2-17=-2984/668

16-17=-5/34, 3-16=0/88, 3-15=-2079/10986, **BOT CHORD** 

> 14-15=-2751/14334, 13-14=0/210, 12-13=-286/1306, 10-12=-1341/6877,

9-10=-1343/6920

WFBS 12-14=-1597/8491, 7-14=-946/4807,

7-12=-2522/705, 8-12=-636/3219, 8-10=-32/771, 4-15=-125/1242, 5-15=-3482/774, 5-14=0/528

NOTES

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

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

Bottom chords connected as follows: 2x4 - 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.

- 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 17 SPF No.2, Joint 9 SPF No.2.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 557 lb uplift at joint 9 and 641 lb uplift at joint 17.
- 11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord

13) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 136 lb down and 70 lb up at 8-0-0, 136 lb down and 70 lb up at 10-0-0, 136 lb down and 70 lb up at 12-0-0, 146 lb down and 85 lb up at 14-0-0, 146 lb down and 85 lb up at 16-0-0, 146 lb down and 85 lb up at 18-0-0, 146 lb down and 85 lb up at 20-0-0, and 146 lb down and 85 lb up at 22-0-0, and 146 lb down and 85 lb up at 24-0-0 on top chord, and 500 lb down and 137 lb up at 6-7-4, 63 lb down at 8-0-0, 63 lb down at 10-0-0, 63 lb down at 12-0-0, 79 lb down at 13-8-12, 79 lb down at 16-0-0. 79 lb down at 18-0-0, 79 lb down at 20-0-0, 79 lb down at 22-0-0, and 79 lb down at 24-0-0, and 550 lb down and 141 lb up at 25-4-12 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, 2-3=-70, 3-4=-70, 4-8=-70, 8-9=-70,

16-17=-20, 3-14=-20, 9-13=-20 Concentrated Loads (lb)



March 21,2024

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



RELEASE FOR CONSTRUCTION Ply Qty Job Truss Truss Type Lot 198 WO C17 2 B240098 Hip Girder Job Reference (optional

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.73 S Feb 22 2024 Print: 8.730 S Feb 22 2024 MiTek Industries, Inc. Ved Mar 2005, 10:870USpLtEjYzjDdKwaC78pz4SeG-RfC?PsB70Hq3NSgPqnL8w3uITXbGrWrCDoi N42300 ID:8?oUSpLtEjYzjDdKwaC78pz4SeG-RfC?PsB70Hq3NSgPqnL8w3uITXbGh

DEVELOPMENT SERVICES 164360246 LEE'S SUMMIT, MISSOURI

AS NOTED FOR PLAN REVIEW

Vert: 14=-52 (B), 10=-550 (B), 15=-500 (B), 5=-123 (B), 18=-113 (B), 19=-113 (B), 20=-113 (B), 21=-123 (B), 22=-123 (B), 23=-123 (B), 24=-123 (B), 25=-123 (B), 26=-63 (B), 27=-63 (B), 28=-63 (B), 29=-52 (B), 30=-52 (B), 31=-52 (B), 32=-52 (B), 33=-52 (B)

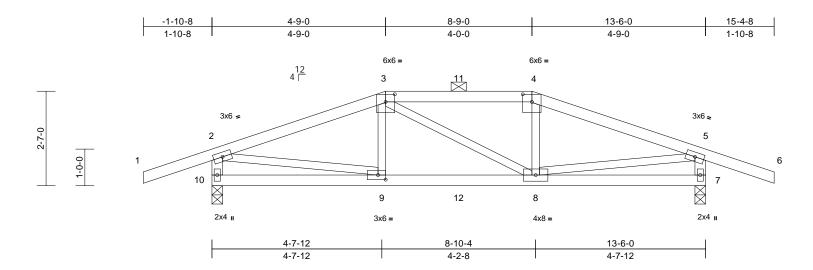


Job	Truss	Truss Type	Qty	Ply	Lot 198 WO
B240098	D1	Hip Girder	1	1	Job Reference (optional

Run: 8.73 S Feb 22 2024 Print: 8.730 S Feb 22 2024 MiTek Industries, Inc. Ved Mar 2004 Print: 8.730 S Feb 22 2024 MiTek Industries, Inc. ID:VybNWWP03FAFp\_WHj7oIrtz4SeB-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDor74250?f

S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 164360247 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION



Scale = 1:31.5

Plate Offsets (X, Y): [3:0-3-0,0-2-8], [4:0-3-0,0-2-8], [9:0-2-8,0-1-8]

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	0.45	Vert(LL)	-0.05	8-9	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.47	Vert(CT)	-0.09	8-9	>999	240		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.44	Horz(CT)	0.01	7	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.04	8-9	>999	240	Weight: 51 lb	FT = 10%

#### LUMBER

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

2x3 SPF No.2 \*Except\* 10-2,7-5:2x4 SPF WEBS

**BRACING** TOP CHORD

Structural wood sheathing directly applied or 4-5-4 oc purlins, except end verticals, and

2-0-0 oc purlins (4-5-4 max.): 3-4.

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

bracing

REACTIONS (size)

7=0-3-8, 10=0-3-8 Max Horiz 10=-16 (LC 19)

Max Uplift 7=-289 (LC 5), 10=-289 (LC 4)

Max Grav 7=1063 (LC 1), 10=1063 (LC 1)

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

Tension

1-2=0/45, 2-3=-1536/333, 3-4=-1395/338, TOP CHORD

4-5=-1536/333, 5-6=0/45, 2-10=-1011/309,

5-7=-1011/309

**BOT CHORD** 9-10=-42/133, 8-9=-264/1394, 7-8=-29/126 WEBS

3-9=0/220, 3-8=-61/62, 4-8=0/220,

2-9=-266/1290, 5-8=-265/1291

# 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
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 289 lb uplift at joint 10 and 289 lb uplift at joint 7.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 90 lb down and 64 lb up at 4-9-0, and 90 lb down and 62 lb up at 6-9-0, and 90 lb down and 64 lb up at 8-9-0 on top chord, and 227 lb down and 50 lb up at 4-9-0, and 43 lb down at 6-9-0, and 227 lb down and 50 lb up at 8-8-4 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, 2-3=-70, 3-4=-70, 4-5=-70, 5-6=-70,

Concentrated Loads (lb)

Vert: 4=-59 (F), 9=-227 (F), 8=-227 (F), 3=-59 (F), 11=-59 (F), 12=-24 (F)



March 21,2024



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 198 WO

 B240098
 D2
 Common
 2
 1
 Job Reference (optional

WO AS NOTED FOR PLAN REVIEW
DEVELOPMENT SERVICES
64360248
EFFORCE (Optional LEE'S SUMMIT, MISSOURI

RELEASE FOR CONSTRUCTION

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.73 S Feb 22 2024 Print: 8.730 S Feb 22 2024 MiTek Industries, Inc. Ved Mar 600 Feb 21 (10:gXihhf7bUBHWZRFstotvP0z4SeY-RfC?PsB70Hq3NSgPqnL8w3ulTXbGk WrCDoi743)

-1-10-8 6-9-0 13-6-0 15-4-8 1-10-8 6-9-0 6-9-0 1-10-8 4x5 =3 12 4 | 6-4-4 2 1-0-0 7 M18AHS 7x12 II M18AHS 7x12 2x4 II 6-9-0 13-6-0 6-9-0 6-9-0

Scale = 1:31.5

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	0.81	Vert(LL)	-0.09	7	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.42	Vert(CT)	-0.17	7	>932	240	M18AHS	142/136
BCLL	0.0*	Rep Stress Incr	YES	WB	0.08	Horz(CT)	0.01	6	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R		Wind(LL)	0.04	7-8	>999	240	Weight: 40 lb	FT = 10%

LUMBER

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

WEBS 2x4 SPF 2100F 1.8E \*Except\* 7-3:2x3 SPF

No

BRACING

**BOT CHORD** 

TOP CHORD Structural wood sheathing directly applied or

5-1-14 oc purlins, except end verticals. Rigid ceiling directly applied or 10-0-0 oc

bracing.

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

Max Horiz 8=25 (LC 8)

Max Uplift 6=-176 (LC 5), 8=-176 (LC 4) Max Grav 6=736 (LC 1), 8=736 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension
TOP CHORD 1-2=0/45, 2-3=-757/98, 3-4=-75

DP CHORD 1-2=0/45, 2-3=-757/98, 3-4=-757/98, 4-5=0/45, 2-8=-644/214, 4-6=-644/214

BOT CHORD 7-8=-22/631, 6-7=-22/631

WEBS 3-7=0/245

# NOTES

- Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; 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
- 3) 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.
- 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.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 176 lb uplift at joint 8 and 176 lb uplift at joint 6.

 This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard





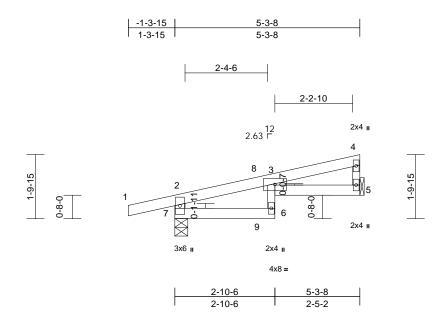


Job Truss Truss Type Qty Ply Lot 198 WO B240098 J1 Diagonal Hip Girder 2 Job Reference (optional

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 164360249 LEE'S SUMMIT. MISSOURI

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.73 S Feb 22 2024 Print: 8.730 S Feb 22 2024 MiTek Industries, Inc. \ /ed Mar 200 0 0 0 0 0 1 € ID:cEuy8DQogFHfalv3w9V90gznZlo-RfC?PsB70Hq3NSgPqnL8w3uITXbGK VrCDoi7J42J691



Scale = 1:33

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	0.56	Vert(LL)	-0.06	6	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.24	Vert(CT)	-0.11	6	>556	240		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.00	Horz(CT)	0.06	5	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R		Wind(LL)	0.06	6	>999	240	Weight: 15 lb	FT = 10%

# LUMBER

TOP CHORD 2x4 SPF No.2

**BOT CHORD** 2x4 SPF No.2 \*Except\* 6-3:2x3 SPF No.2 2x4 SPF No.2 \*Except\* 4-5:2x3 SPF No.2 WEBS

**BRACING** 

TOP CHORD Structural wood sheathing directly applied or 5-3-8 oc purlins, except end verticals.

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

bracing.

REACTIONS (size) 5= Mechanical, 7=0-4-7

Max Horiz 7=58 (LC 5)

Max Uplift 5=-42 (LC 8), 7=-108 (LC 4) Max Grav 5=212 (LC 1), 7=344 (LC 1)

**FORCES** Tension

(lb) - Maximum Compression/Maximum

TOP CHORD 2-7=-335/126, 1-2=0/22, 2-3=-86/0, 3-4=-79/13, 4-5=-145/45

BOT CHORD 6-7=-2/20, 3-6=0/67, 3-5=-13/72

# 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 108 lb uplift at joint 7 and 42 lb uplift at joint 5.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

- 8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 69 lb down and 25 lb up at 2-4-3, and 79 lb down and 30 lb up at 3-0-6 on top chord, and 4 lb down and 4 lb up at 2-4-3 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, 3-4=-70, 6-7=-20, 3-5=-20

Concentrated Loads (lb) Vert: 3=-3 (B), 9=4 (F)



March 21,2024



 Job
 Truss
 Truss Type
 Qty
 Ply
 Lot 198 WO

 B240098
 J2
 Jack-Open
 3
 1
 Job Reference (optional)

RELEASE FOR CONSTRUCTION

AS NOTED FOR PLAN REVIEW

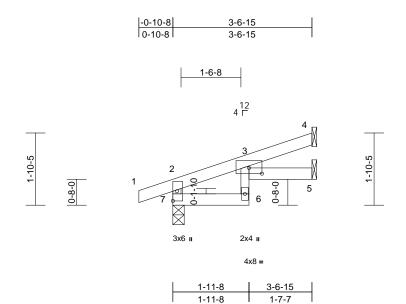
DEVELOPMENT SERVICES

164360250

LEE'S SUMMIT, MISSOURI

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.73 S Feb 22 2024 Print: 8.730 S Feb 22 2024 MiTek Industries, Inc. Ved Mar 2015 914 4/2 9 24 ID:B12G5K8xP?2YUcNuHb6XGXznZnR-RfC?PsB70Hq3NSgPqnL8w3ulTXbSKWrCDb702C?f



Scale = 1:29.6

Plate Offsets	(X, Y):	[3:0-4-0,0-1	-12]
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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	0.21	Vert(LL)	-0.01	6	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.13	Vert(CT)	-0.02	6	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.02	5	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R		Wind(LL)	0.01	6	>999	240	Weight: 10 lb	FT = 10%

LUMBER

TOP CHORD 2x4 SPF No.2

BOT CHORD 2x4 SPF No.2 \*Except\* 6-3:2x3 SPF No.2

WEBS 2x3 SPF No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or 3-6-15 oc purlins, except end verticals.

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

bracing.

**REACTIONS** (size) 4= Mechanical, 5= Mechanical,

7=0-3-8 Max Horiz 7=57 (LC 4)

Max Uplift 4=-33 (LC 8), 5=-6 (LC 8), 7=-62

(LC 4)

Max Grav 4=87 (LC 1), 5=57 (LC 1), 7=232

(LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 2-7=-225/83, 1-2=0/22, 2-3=-58/0, 3-4=-16/24

BOT CHORD 6-7=-5/10, 3-6=-2/44, 3-5=-10/5

# 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.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 62 lb uplift at joint 7, 33 lb uplift at joint 4 and 6 lb uplift at joint 5.

 This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



March 21,2024





Truss Type Ply Job Truss Qty Lot 198 WO B240098 J3 Jack-Open 2 Job Reference (optional

AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 164360251 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION

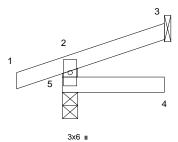
Wheeler Lumber, Waverly, KS - 66871,

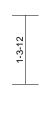
Run: 8.73 S Feb 22 2024 Print: 8.730 S Feb 22 2024 MiTek Industries, Inc. Ved Mar 2004 5 ID:UeVK8XR?IN49MICVheY9EbznZn3-RfC?PsB70Hq3NSgPqnL8w3ulTXbCKWrCDor74250?f

	-0-10-8	1-11-5
ı	0-10-8	1-11-5









1-11-5

Scale = 1:21.9

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	0.11	Vert(LL)	-0.02	4	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.11	Vert(CT)	-0.04	4	>547	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.01	3	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R		Wind(LL)	0.00	4	>999	240	Weight: 6 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 1-11-5 oc purlins, except end verticals. BOT CHORD Rigid ceiling directly applied or 10-0-0 oc

bracing.

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

Max Horiz 5=36 (LC 4)

Max Uplift 3=-19 (LC 8), 5=-59 (LC 4) Max Grav 3=60 (LC 1), 5=172 (LC 1)

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

Tension

TOP CHORD 2-5=-136/81, 1-2=0/23, 2-3=-18/15

BOT CHORD 4-5=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 59 lb uplift at joint 5 and 19 lb uplift at joint 3.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



March 21,2024



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 198 WO B240098 J4 Jack-Open 2 Job Reference (optional

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.73 S Feb 22 2024 Print: 8.730 S Feb 22 2024 MiTek Industries, Inc. Ved Mar 2004 5 ID:nGyPAkj26l5lF\_265hzoCeznZmh-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKV/rCDoi7J42J547

RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW

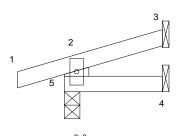
DEVELOPMENT SERVICES 164360252

LEE'S SUMMIT. MISSOURI

-0-10-8	1-10-0
0-10-8	1-10-0

12 3.5 □





3x6 II

Scale = 1:21.6

1-10-0	l

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	4-5	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.02	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	IRC2018/TPI2014	Matrix-R		Wind(LL)	0.00	4-5	>999	240	Weight: 6 lb	FT = 10%

LUMBER

LOAD CASE(S) Standard

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

**BRACING** 

TOP CHORD Structural wood sheathing directly applied or 1-10-0 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=30 (LC 4)

Max Uplift 3=-20 (LC 8), 5=-67 (LC 4) Max Grav

3=37 (LC 1), 4=27 (LC 3), 5=176

(LC 1)

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

Tension

TOP CHORD 2-5=-152/76, 1-2=0/22, 2-3=-21/7

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 67 lb uplift at joint 5 and 20 lb uplift at joint 3.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



March 21,2024



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 198 WO B240098 J5 Jack-Closed Supported Gable Job Reference (optional

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 164360253 LEE'S SUMMIT. MISSOURI

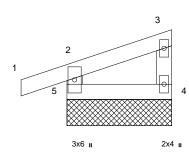
Wheeler Lumber, Waverly, KS - 66871,

Run: 8.73 S Feb 22 2024 Print: 8.730 S Feb 22 2024 MiTek Industries, Inc. Ved Mar 2004 5 ID:cwqR5L9r0oXEoIPF?DwNURz4SeW-RfC?PsB70Hq3NSgPqnL8w3uITXb6KWrCDb7J4zJ6?f

-0-10-8	2-0-0
0-10-8	2-0-0









2-0-0

Scale = 1:22

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)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.02	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R							Weight: 7 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 2-0-0 oc purlins, except end verticals.

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

bracing.

REACTIONS (size) 4=2-0-0, 5=2-0-0

Max Horiz 5=49 (LC 7)

Max Uplift 4=-14 (LC 5), 5=-65 (LC 4) Max Grav 4=56 (LC 1), 5=170 (LC 1)

**FORCES** 

(lb) - Maximum Compression/Maximum Tension

TOP CHORD 2-5=-150/76, 1-2=0/23, 2-3=-35/6, 3-4=-41/21

BOT CHORD 4-5=-15/10

### 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.
- 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.
- All bearings are assumed to be SPF No.2 .

- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 65 lb uplift at joint 5 and 14 lb uplift at joint 4.
- 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard





Truss Type Ply Job Truss Qty Lot 198 WO B240098 J6 Jack-Closed 5 Job Reference (optional

AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 164360254 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION

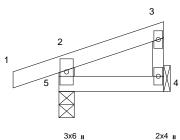
Wheeler Lumber, Waverly, KS - 66871,

Run: 8.73 S Feb 22 2024 Print: 8.730 S Feb 22 2024 MiTek Industries, Inc. Ved Mar 2004 5 ID:cwqR5L9r0oXEoIPF?DwNURz4SeW-RfC?PsB70Hq3NSgPqnL8w3uITXb\$KWrCDoirJ4zde?f

-0-10-8	2-0-0
0-10-8	2-0-0







2-0-0



Scale = 1:22

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	0.02	Vert(CT)	0.00	4-5	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code	IRC2018/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

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

**BRACING** 

TOP CHORD Structural wood sheathing directly applied or 2-0-0 oc purlins, except end verticals. BOT CHORD Rigid ceiling directly applied or 10-0-0 oc

bracing.

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

Max Horiz 5=49 (LC 5)

Max Uplift 4=-14 (LC 5), 5=-65 (LC 4) Max Grav 4=58 (LC 1), 5=171 (LC 1)

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

Tension

TOP CHORD 2-5=-151/76, 1-2=0/23, 2-3=-35/7, 3-4=-43/21

BOT CHORD 4-5=-15/10

### 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 65 lb uplift at joint 5 and 14 lb uplift at joint 4.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



March 21,2024



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



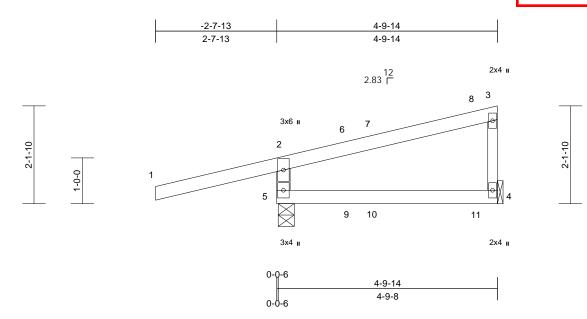
Job Truss Truss Type Qty Ply Lot 198 WO B240098 J7 Diagonal Hip Girder Job Reference (optional

S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 164360255 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.73 S Feb 22 2024 Print: 8.730 S Feb 22 2024 MiTek Industries, Inc. Ved Mar 2004 9/15 lD:1VWakMBjljvpfD8qgMT464z4SeT-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi734zJS/f



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	0.63	Vert(LL)	-0.02	4-5	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.14	Vert(CT)	-0.02	4-5	>999	240		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.00	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R		Wind(LL)	-0.02	4-5	>999	240	Weight: 16 lb	FT = 10%

### LUMBER

2x4 SPF No.2 TOP CHORD **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 4-9-14 oc purlins, except end verticals.

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

bracing.

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

Max Horiz 5=88 (LC 5)

Max Uplift 4=-46 (LC 5), 5=-196 (LC 4) Max Grav 4=156 (LC 15), 5=410 (LC 1)

**FORCES** Tension

(lb) - Maximum Compression/Maximum

TOP CHORD 2-5=-373/204, 1-2=0/45, 2-3=-90/34, 3-4=-110/63

BOT CHORD 4-5=-28/61

### 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 196 lb uplift at joint 5 and 46 lb uplift at joint 4.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

- 8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 106 lb down and 198 lb up at 1-6-5, and 70 lb down and 39 lb up at 2-1-0, and 58 lb down and 39 lb up at 4-4-4 on top chord, and 0 lb down and 57 lb up at 1-6-5, and 5 lb down at 2-1-0, and 17 lb down and 2 lb up at 4-4-4 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: 6=45 (B), 8=-1 (B), 9=30 (B), 10=-1 (F), 11=2







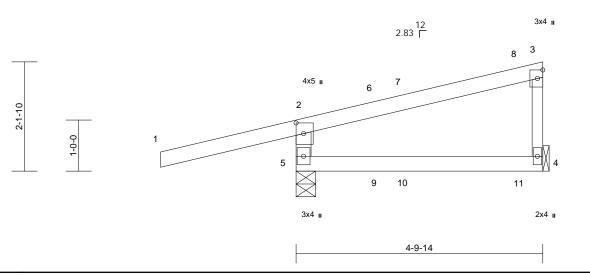
Truss Type Job Truss Qty Ply Lot 198 WO B240098 J8 Diagonal Hip Girder Job Reference (optiona

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 164360256 LEE'S SUMMIT. MISSOURI

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.73 S Feb 22 2024 Print: 8.730 S Feb 22 2024 MiTek Industries, Inc. Ved Mar 200209/18 ID:1VWakMBjljvpfD8qgMT464z4SeT-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi734z36/f

-2-7-13	4-9-14
2-7-13	4-9-14



Scale = 1:22.5

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

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	0.63	Vert(LL)	0.02	4-5	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.17	Vert(CT)	-0.02	4-5	>999	240		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.00	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R		Wind(LL)	-0.02	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 \*Except\* 3-4:2x3 SPF No.2 WEBS

**BRACING** 

TOP CHORD Structural wood sheathing directly applied or 4-9-14 oc purlins, except end verticals.

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

bracing.

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

Max Horiz 5=88 (LC 5)

Max Uplift 4=-41 (LC 5), 5=-180 (LC 4)

Max Grav 4=155 (LC 15), 5=389 (LC 1) (lb) - Maximum Compression/Maximum

**FORCES** Tension

TOP CHORD 2-5=-351/188, 1-2=0/45, 2-3=-88/82,

3-4=-106/59 **BOT CHORD** 4-5=-55/63

### 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.
- 4) 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 180 lb uplift at joint 5 and 41 lb uplift at joint 4.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

- 8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 106 lb down and 198 lb up at 1-6-5, and 75 lb down and 140 lb up at 2-1-0, and 58 lb down and 39 lb up at 4-4-4 on top chord, and 0 lb down and 57 lb up at 1-6-5, and 15 Ib down and 21 lb up at 2-1-0, and 17 lb down and 2 lb up at 4-4-4 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: 6=45 (F), 7=35 (B), 8=-1 (F), 9=30 (F), 11=2 (F)





Truss Type Ply Job Truss Qty Lot 198 WO Jack-Open B240098 J9

Job Reference (optiona Run: 8.73 S Feb 22 2024 Print: 8.730 S Feb 22 2024 MiTek Industries, Inc. Ved Mar 2005 15

3-0-3

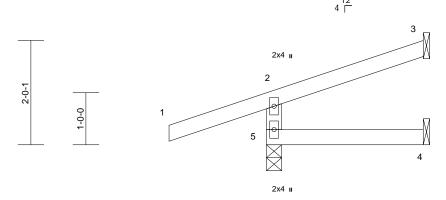
S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 164360257 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION

Wheeler Lumber, Waverly, KS - 66871,

ID:cwqR5L9r0oXEoIPF?DwNURz4SeW-RfC?PsB70Hq3NSgPqnL8w3uITXb6KWrCDoi7J4zJ6?f

-1-10-8	3-0-3
1-10-8	3-0-3



Scale = 1:22.2

	( 0		0.00	001	-	DEE:		<i>(</i> 1 )	1/1 0		DI 4750	
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)	0.00	4-5	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.06	Vert(CT)	-0.01	4-5	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	3	n/a	n/a		
BCDI	10.0	Code	IRC2018/TPI2014	Matrix-R		Wind(LL)	0.00	4-5	>999	240	Weight: 10 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 3-0-3 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=62 (LC 4)

Max Uplift 3=-36 (LC 8), 5=-120 (LC 4) 3=60 (LC 1), 4=48 (LC 3), 5=319 Max Grav

(LC 1)

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

Tension

TOP CHORD 2-5=-278/139, 1-2=0/45, 2-3=-43/13

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 120 lb uplift at joint 5 and 36 lb uplift at joint 3.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



March 21,2024



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 198 WO Jack-Open B240098 J10 15

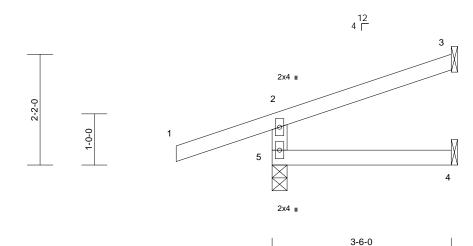
Job Reference (optional

RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 164360258 LEE'S SUMMIT. MISSOURI

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.73 S Feb 22 2024 Print: 8.730 S Feb 22 2024 MiTek Industries, Inc. \ /ed Mar 200 0 € 09 15 ID:gXihhf7bUBHWZRFstotvP0z4SeY-RfC?PsB70Hq3NSgPqnL8w3uITXbGk WrCDoi734z36?f

-1-10-8	3-6-0
1-10-8	3-6-0



LOAD CASE(S) Standard

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	0.28	Vert(LL)	-0.01	4-5	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.08	Vert(CT)	-0.01	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	IRC2018/TPI2014	Matrix-R		Wind(LL)	0.00	4-5	>999	240	Weight: 11 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

3-6-0 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=69 (LC 4)

Max Uplift 3=-45 (LC 8), 5=-119 (LC 4) Max Grav

3=80 (LC 1), 4=58 (LC 3), 5=333

(LC 1)

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

Tension

TOP CHORD 2-5=-291/143, 1-2=0/45, 2-3=-48/18

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 119 lb uplift at joint 5 and 45 lb uplift at joint 3.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



March 21,2024



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 198 WO Jack-Open B240098 J11 2 Job Reference (optional

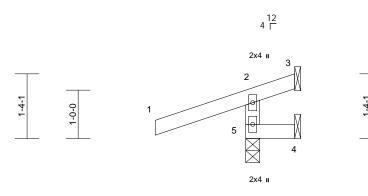
AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 164360259 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.73 S Feb 22 2024 Print: 8.730 S Feb 22 2024 MiTek Industries, Inc. Ved Mar 2004 5 ID:gXihhf7bUBHWZRFstotvP0z4SeY-RfC?PsB70Hq3NSgPqnL8w3uITXbGK WrCDoi734zJO?1

a contract of the contract of	
-1-10-8	1-0-3
1-10-8	1-0-3



1-0-3

Scale = 1:23.9

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)	0.00	4-5	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.06	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	IRC2018/TPI2014	Matrix-R		Wind(LL)	0.00	4-5	>999	240	Weight: 5 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 1-0-3 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=39 (LC 5)

Max Uplift 3=-99 (LC 1), 4=-29 (LC 1), 5=-169

(LC 4)

Max Grav 3=56 (LC 4), 4=13 (LC 4), 5=347

(LC 1)

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

Tension

TOP CHORD 2-5=-300/167, 1-2=0/45, 2-3=-50/18

**BOT CHORD** 4-5=0/0

### 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 169 lb uplift at joint 5, 29 lb uplift at joint 4 and 99 lb uplift at joint 3.

7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



March 21,2024



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 198 WO Jack-Open B240098 J12 Job Reference (optional

Wheeler Lumber, Waverly, KS - 66871,

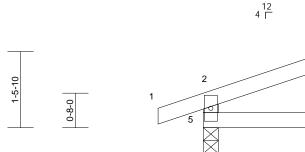
Run: 8.73 S Feb 22 2024 Print: 8.730 S Feb 22 2024 MiTek Industries, Inc. Ved Mar 2004 of ID:gXihhf7bUBHWZRFstotvP0z4SeY-RfC?PsB70Hq3NSgPqnL8w3uITXbGK WrCDoi734zJC?f

RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW

DEVELOPMENT SERVICES 164360260

LEE'S SUMMIT. MISSOURI

-0-10-8	2-4-15
0-10-8	2-4-15



2-4-15

Scale = 1:22.3

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	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	IRC2018/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 2-4-15 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=42 (LC 4)

Max Uplift 3=-32 (LC 8), 5=-60 (LC 4) Max Grav

3=62 (LC 1), 4=40 (LC 3), 5=187

(LC 1)

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

Tension

TOP CHORD 2-5=-164/78, 1-2=0/23, 2-3=-31/15

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 60 lb uplift at joint 5 and 32 lb uplift at joint 3.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



March 21,2024



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



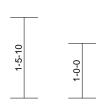
Truss Type Job Truss Qty Ply Lot 198 WO Jack-Open B240098 J13 Job Reference (optional

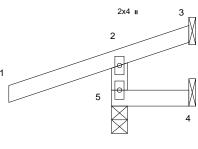
RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 164360261 LEE'S SUMMIT. MISSOURI

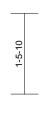
Wheeler Lumber, Waverly, KS - 66871,

Run: 8.73 S Feb 22 2024 Print: 8.730 S Feb 22 2024 MiTek Industries, Inc. Ved Mar 2004 of ID:gXihhf7bUBHWZRFstotvP0z4SeY-RfC?PsB70Hq3NSgPqnL8w3uITXbGK WrCDoi734z36?f

i i	
-1-10-8	1-4-15
1-10-8	1-4-15







1-4-15

Scale = 1:21

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)	0.00	4-5	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.07	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	IRC2018/TPI2014	Matrix-R		Wind(LL)	0.00	4-5	>999	240	Weight: 6 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 1-4-15 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=43 (LC 5)

Max Uplift 3=-41 (LC 1), 4=-17 (LC 1), 5=-144 (LC 4)

Max Grav 3=24 (LC 4), 4=15 (LC 3), 5=312

(LC 1)

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

Tension

TOP CHORD 2-5=-270/145, 1-2=0/45, 2-3=-41/7

**BOT CHORD** 4-5=0/0

### 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 144 lb uplift at joint 5, 17 lb uplift at joint 4 and 41 lb uplift at joint 3.

7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



March 21,2024



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 Qty Job Truss Truss Type Lot 198 WO B240098 J14 Diagonal Hip Girder Job Reference (optional

AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 164360262 LEE'S SUMMIT. MISSOURI

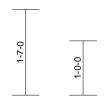
RELEASE FOR CONSTRUCTION

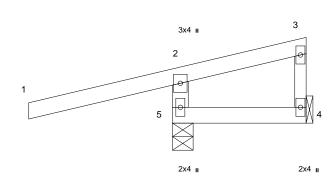
Wheeler Lumber, Waverly, KS - 66871,

Run: 8.73 S Feb 22 2024 Print: 8.730 S Feb 22 2024 MiTek Industries, Inc. Ved Mar 2010 100 ID:gXihhf7bUBHWZRFstotvP0z4SeY-RfC?PsB70Hq3NSgPqnL8w3uITXbGK WrCDoi734z36?f

-2-7-13	2-5-10
2-7-13	2-5-10







2-5-10



Scale = 1:21.3

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	0.63	Vert(LL)	0.00	4-5	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.10	Vert(CT)	0.00	4-5	>999	240		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.00	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R		Wind(LL)	0.00	4-5	>999	240	Weight: 10 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 2-5-10 oc purlins, except end verticals. BOT CHORD Rigid ceiling directly applied or 6-0-0 oc

bracing.

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

Max Horiz 5=78 (LC 7)

Max Uplift 4=-24 (LC 1), 5=-206 (LC 4) Max Grav 4=50 (LC 4), 5=419 (LC 1)

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

Tension

TOP CHORD 2-5=-367/205, 1-2=0/45, 2-3=-25/34, 3-4=-22/16

BOT CHORD 4-5=-41/38

### 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.
- 4) 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 206 lb uplift at joint 5 and 24 lb uplift at joint 4.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



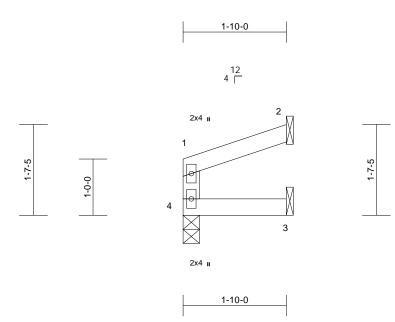


Truss Type Ply Job Truss Qty Lot 198 WO Jack-Open B240098 J15 Job Reference (optional

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 164360263 LEE'S SUMMIT. MISSOURI

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.73 S Feb 22 2024 Print: 8.730 S Feb 22 2024 MiTek Industries, Inc. Ved Mar 2000 100 ID:8kG3u?8DFUPNAbq2RWO8yEz4SeX-RfC?PsB70Hq3NSgPqnL8w3uITXI GKWrCDef7542JC?f



Scale = 1:20.5

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	0.04	Vert(LL)	0.00	3-4	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.02	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	IRC2018/TPI2014	Matrix-R		Wind(LL)	0.00	3-4	>999	240	Weight: 5 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 1-10-0 oc purlins, except end verticals. BOT CHORD Rigid ceiling directly applied or 10-0-0 oc

bracing.

REACTIONS (size) 2= Mechanical, 3= Mechanical,

4=0-3-8 Max Horiz 4=32 (LC 5)

Max Uplift 2=-29 (LC 8), 4=-3 (LC 4)

Max Grav 2=55 (LC 1), 3=32 (LC 3), 4=75

(LC 1)

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

Tension

TOP CHORD 1-4=-62/19, 1-2=-22/14

BOT CHORD 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 3 lb uplift at joint 4 and 29 lb uplift at joint 2.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



March 21,2024



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



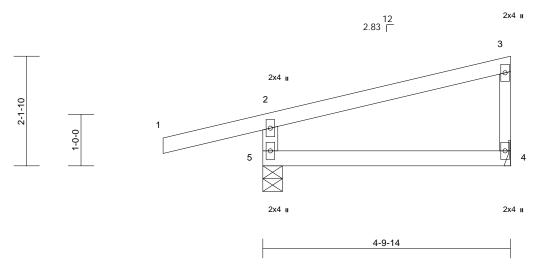
Ply Qty Job Truss Truss Type Lot 198 WO B240098 J16 Diagonal Hip Girder Job Reference (optional

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 164360264 LEE'S SUMMIT. MISSOURI

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.73 S Feb 22 2024 Print: 8.730 S Feb 22 2024 MiTek Industries, Inc. Ved Mar 2010 100 ID:gXihhf7bUBHWZRFstotvP0z4SeY-RfC?PsB70Hq3NSgPqnL8w3uITXbGK WrCDoi734z36?f





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	0.34	Vert(LL)	-0.02	4-5	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.17	Vert(CT)	-0.03	4-5	>999	240		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.00	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R		Wind(LL)	0.00	4-5	>999	240	Weight: 15 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 4-9-14 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=84 (LC 7)

Max Uplift 4=-34 (LC 8), 5=-141 (LC 4) Max Grav 4=172 (LC 1), 5=386 (LC 1) (lb) - Maximum Compression/Maximum

**FORCES** Tension

2-5=-340/169, 1-2=0/34, 2-3=-79/13,

TOP CHORD 3-4=-126/57

BOT CHORD 4-5=-22/28

### 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.
- 4) 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 141 lb uplift at joint 5 and 34 lb uplift at joint 4.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



March 21,2024



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

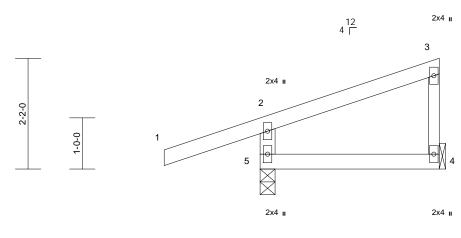


Truss Type Ply Job Truss Qty Lot 198 WO B240098 J17 Jack-Closed Job Reference (optional

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 164360265 LEE'S SUMMIT. MISSOURI

Run: 8.73 S Feb 22 2024 Print: 8.730 S Feb 22 2024 MiTek Industries, Inc. Ved Mar 2005 100 Page 100 Pa Wheeler Lumber, Waverly, KS - 66871, ID:gXihhf7bUBHWZRFstotvP0z4SeY-RfC?PsB70Hq3NSgPqnL8w3uITXbGK WrCDoi734z36?f

-1-10-8	3-6-0
1-10-8	3-6-0



3-6-0 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	0.28	Vert(LL)	0.00	4-5	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.08	Vert(CT)	-0.01	4-5	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R		Wind(LL)	0.00	4-5	>999	240	Weight: 12 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 3-6-0 oc purlins, except end verticals. BOT CHORD Rigid ceiling directly applied or 10-0-0 oc

bracing.

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

Max Horiz 5=92 (LC 5)

Max Uplift 4=-24 (LC 5), 5=-130 (LC 4) Max Grav 4=102 (LC 1), 5=332 (LC 1)

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

Tension

TOP CHORD 2-5=-293/149, 1-2=0/45, 2-3=-65/13, 3-4=-76/39

BOT CHORD 4-5=-27/21

### 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.
- 4) 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 130 lb uplift at joint 5 and 24 lb uplift at joint 4.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



March 21,2024



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



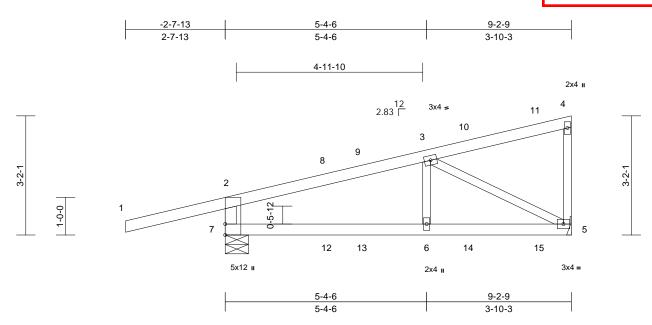
Ply Job Truss Truss Type Qty Lot 198 WO B240098 J18 Diagonal Hip Girder 2 Job Reference (optional

S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 164360266 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.73 S Feb 22 2024 Print: 8.730 S Feb 22 2024 MiTek Industries, Inc. Ved Mar 2005 9/16 ID:ZJyCW0A5XPny13Zd6eyrZsz4SeU-RfC?PsB70Hq3NSgPqnL8w3ulTXbGkWrCDoir-423Cff



Scale = 1:30.7

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	0.85	Vert(LL)	-0.05	5-6	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.43	Vert(CT)	-0.09	5-6	>999	240		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.21	Horz(CT)	0.01	5	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.05	5-6	>999	240	Weight: 32 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 (size) 5= Mechanical, 7=0-7-6

Max Horiz 7=132 (LC 7)

Max Uplift 5=-116 (LC 8), 7=-212 (LC 4)

Max Grav 5=514 (LC 1), 7=645 (LC 1)

**FORCES** 

(lb) - Maximum Compression/Maximum

Tension

TOP CHORD 2-7=-555/229, 1-2=0/45, 2-3=-542/90,

3-4=-88/34, 4-5=-210/92

BOT CHORD 6-7=-119/452, 5-6=-119/452

WFBS 3-6=0/202 3-5=-477/120

### 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 212 lb uplift at joint 7 and 116 lb uplift at joint 5.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

- 8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 73 lb down and 73 lb up at 2-8-7, 70 lb down and 28 lb up at 3-7-12, 87 lb down and 58 lb up at 5-6-6, and 98 lb down and 67 lb up at 6-5-11, and 119 lb down and 79 lb up at 8-4-5 on top chord, and 12 lb down and 16 lb up at 2-8-7, 8 lb down and 10 lb up at 3-7-12, 19 lb down at 5-6-6, and 26 lb down at 6-5-11, and 61 lb down at 8-4-5 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, 5-7=-20

Concentrated Loads (lb)

Vert: 3=-1 (B), 6=-2 (B), 10=-21 (F), 11=-92 (B),

13=10 (F), 14=-12 (F), 15=-39 (B)





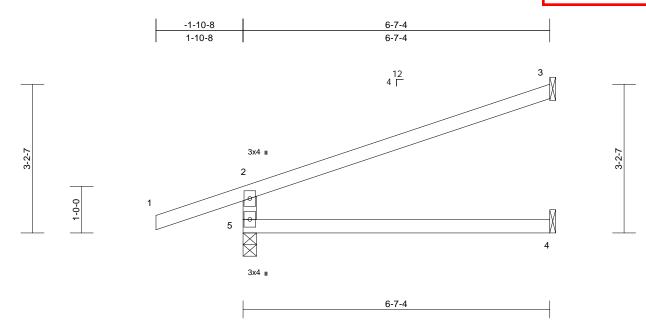
Truss Type Ply Job Truss Qty Lot 198 WO Jack-Open B240098 J19 15 Job Reference (optional

S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 164360267 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.73 S Feb 22 2024 Print: 8.730 S Feb 22 2024 MiTek Industries, Inc. Ved Mar 2002-09/16 ID:8kG3u?8DFUPNAbq2RWO8yEz4SeX-RfC?PsB70Hq3NSgPqnL8w3uITXI GKWrCDef7342JC?f



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	0.61	Vert(LL)	-0.08	4-5	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.38	Vert(CT)	-0.17	4-5	>461	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.06	3	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R		Wind(LL)	0.06	4-5	>999	240	Weight: 18 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 6-0-0 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=111 (LC 4)

Max Uplift 3=-92 (LC 8), 5=-127 (LC 4)

3=193 (LC 1), 4=119 (LC 3), 5=452 Max Grav

(LC 1)

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

Tension

TOP CHORD 2-5=-396/181, 1-2=0/45, 2-3=-87/47

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 127 lb uplift at joint 5 and 92 lb uplift at joint 3.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.





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



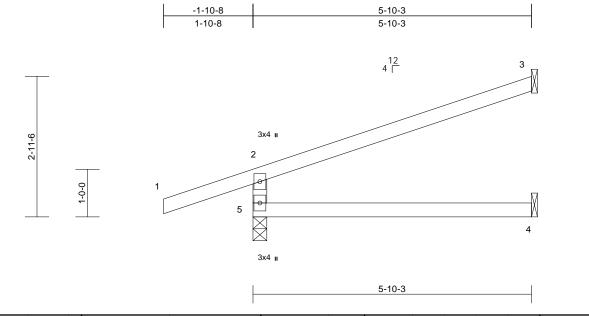
Ply Truss Type Job Truss Qty Lot 198 WO Jack-Open B240098 J20 3

Job Reference (optional

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 164360268 LEE'S SUMMIT. MISSOURI

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.73 S Feb 22 2024 Print: 8.730 S Feb 22 2024 MiTek Industries, Inc. Ved Mar 2010 100 ID:8kG3u?8DFUPNAbq2RWO8yEz4SeX-RfC?PsB70Hq3NSgPqnL8w3uITXI GKWrCDef7342JC?f



Scale = 1:24.2

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	0.45	Vert(LL)	-0.05	4-5	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.29	Vert(CT)	-0.10	4-5	>681	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.04	3	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R		Wind(LL)	0.04	4-5	>999	240	Weight: 17 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 5-10-3 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=101 (LC 4)

Max Uplift 3=-81 (LC 8), 5=-123 (LC 4) Max Grav

3=168 (LC 1), 4=104 (LC 3), 5=421

(LC 1)

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

Tension

TOP CHORD 2-5=-369/171, 1-2=0/45, 2-3=-77/40

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 123 lb uplift at joint 5 and 81 lb uplift at joint 3.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



March 21,2024



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 198 WO Jack-Open B240098 J21 3 Job Reference (optional

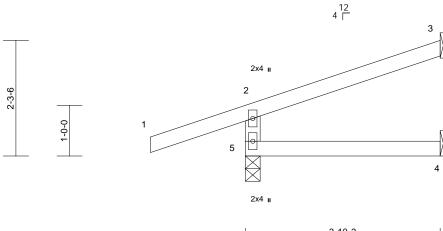
S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 164360269 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.73 S Feb 22 2024 Print: 8.730 S Feb 22 2024 MiTek Industries, Inc. Ved Mar 2005 ID:8kG3u?8DFUPNAbq2RWO8yEz4SeX-RfC?PsB70Hq3NSgPqnL8w3uITXI GKWrCDef7342JC?f

_	
-1-10-8	3-10-3
1-10-8	3-10-3



LOAD CASE(S) Standard

3-10-3

Scale = 1:22.8

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	0.28	Vert(LL)	-0.01	4-5	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.11	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	IRC2018/TPI2014	Matrix-R		Wind(LL)	0.00	4-5	>999	240	Weight: 12 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 3-10-3 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=74 (LC 4)

Max Uplift 3=-50 (LC 8), 5=-119 (LC 4) 3=95 (LC 1), 4=65 (LC 3), 5=345 Max Grav

(LC 1)

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

Tension

TOP CHORD 2-5=-302/146, 1-2=0/45, 2-3=-52/22

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 119 lb uplift at joint 5 and 50 lb uplift at joint 3.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



March 21,2024

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 198 WO Jack-Open B240098 J22 Job Reference (optional

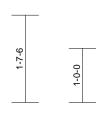
S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 164360270 LEE'S SUMMIT. MISSOURI

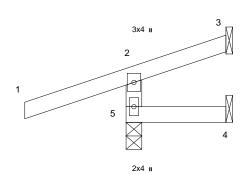
RELEASE FOR CONSTRUCTION

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.73 S Feb 22 2024 Print: 8.730 S Feb 22 2024 MiTek Industries, Inc. Ved Mar 2005 ID:8kG3u?8DFUPNAbq2RWO8yEz4SeX-RfC?PsB70Hq3NSgPqnL8w3uITXI GKWrCDef7342JC?f

-1-10-8	1-10-3
1-10-8	1-10-3







1-10-3

Scale = 1:21.3

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	0.28	Vert(LL)	0.00	4-5	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.07	Vert(CT)	0.00	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	IRC2018/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 2x4 SPF No.2 WEBS

### **BRACING**

TOP CHORD Structural wood sheathing directly applied or 1-10-3 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=47 (LC 4)

Max Uplift 3=-12 (LC 8), 4=-6 (LC 1), 5=-131 (LC 4)

Max Grav 3=4 (LC 19), 4=25 (LC 3), 5=302

(LC 1)

(lb) - Maximum Compression/Maximum Tension

TOP CHORD 2-5=-262/137, 1-2=0/45, 2-3=-38/1

BOT CHORD 4-5=0/0

### 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
- 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 131 lb uplift at joint 5, 6 lb uplift at joint 4 and 12 lb uplift at joint 3.

7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

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



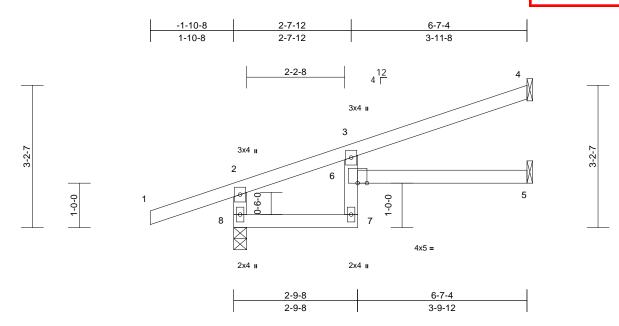
Truss Type Ply Job Truss Qty Lot 198 WO Jack-Open B240098 J23 3 Job Reference (optional

S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 164360271 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.73 S Feb 22 2024 Print: 8.730 S Feb 22 2024 MiTek Industries, Inc. Ved Mar 2005 179 ID:8kG3u?8DFUPNAbq2RWO8yEz4SeX-RfC?PsB70Hq3NSgPqnL8w3uITXI GKWrCDef7342JC?f



Scale = 1:25.9

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	0.50	Vert(LL)	-0.10	5-6	>782	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.37	Vert(CT)	-0.18	5-6	>420	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.07	5	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R		Wind(LL)	0.11	5-6	>719	240	Weight: 20 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 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= Mechanical,

8=0-3-8 Max Horiz 8=111 (LC 4)

Max Uplift 4=-75 (LC 8), 8=-127 (LC 4)

Max Grav

4=183 (LC 1), 5=103 (LC 3), 8=452

(LC 1)

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

Tension

TOP CHORD 2-8=-404/145, 1-2=0/45, 2-3=-211/11,

3-4=-37/49

**BOT CHORD** 7-8=-70/135, 6-7=0/41, 3-6=-3/94, 5-6=0/0

### 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 127 lb uplift at joint 8 and 75 lb uplift at joint 4.

7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



March 21,2024



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



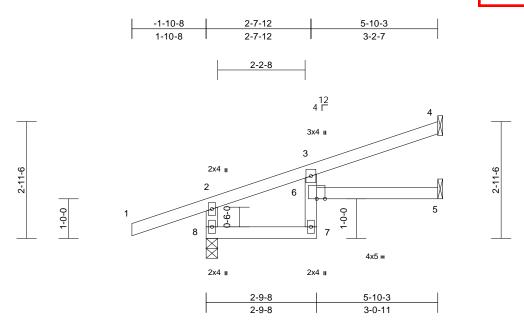
Truss Type Job Truss Qty Ply Lot 198 WO Jack-Open B240098 J24 Job Reference (optional

S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 164360272 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.73 S Feb 22 2024 Print: 8.730 S Feb 22 2024 MiTek Industries, Inc. Ved Mar 2005 17 ID:8kG3u?8DFUPNAbq2RWO8yEz4SeX-RfC?PsB70Hq3NSgPqnL8w3uITXI GKWrCDef7342JC?f



Scale = 1:29.1

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)	-0.06	6	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.27	Vert(CT)	-0.10	5-6	>654	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.04	5	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R		Wind(LL)	0.06	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 WEBS

**BRACING** TOP CHORD Structural wood sheathing directly applied or 5-10-3 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=101 (LC 4)

Max Uplift 4=-63 (LC 8), 8=-123 (LC 4) Max Grav

4=156 (LC 1), 5=88 (LC 3), 8=421

(LC 1)

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

Tension

TOP CHORD 2-8=-376/142, 1-2=0/45, 2-3=-171/6,

3-4=-31/42

**BOT CHORD** 7-8=-56/102, 6-7=0/42, 3-6=-5/79, 5-6=0/0

### 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 123 lb uplift at joint 8 and 63 lb uplift at joint 4.

7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



March 21,2024



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

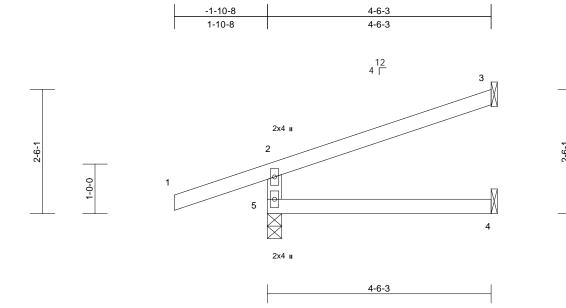


Ply Job Truss Truss Type Qty Lot 198 WO Jack-Open B240098 J25 Job Reference (optional

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 164360273 LEE'S SUMMIT. MISSOURI

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.73 S Feb 22 2024 Print: 8.730 S Feb 22 2024 MiTek Industries, Inc. Ved Mar 2005 179 ID:8kG3u?8DFUPNAbq2RWO8yEz4SeX-RfC?PsB70Hq3NSgPqnL8w3uITXI GKWrCDef7342JC?f



Scale = 1:23.2

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	0.28	Vert(LL)	-0.02	4-5	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.16	Vert(CT)	-0.03	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	IRC2018/TPI2014	Matrix-R		Wind(LL)	0.01	4-5	>999	240	Weight: 14 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 4-6-3 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=83 (LC 4)

Max Uplift 3=-61 (LC 8), 5=-119 (LC 4) Max Grav

3=120 (LC 1), 4=78 (LC 3), 5=368

(LC 1)

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

Tension

TOP CHORD 2-5=-323/154, 1-2=0/45, 2-3=-60/28

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 119 lb uplift at joint 5 and 61 lb uplift at joint 3.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



March 21,2024



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 Truss Type Job Truss Qty Lot 198 WO Jack-Open B240098 J26 3 Job Reference (optional

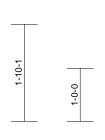
RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 164360274 LEE'S SUMMIT. MISSOURI

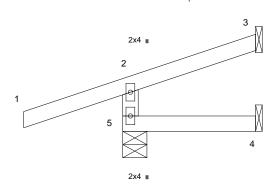
Wheeler Lumber, Waverly, KS - 66871,

Run: 8.73 S Feb 22 2024 Print: 8.730 S Feb 22 2024 MiTek Industries, Inc. Ved Mar 2005 179 ID:8kG3u?8DFUPNAbq2RWO8yEz4SeX-RfC?PsB70Hq3NSgPqnL8w3uITXI GKWrCDe/7342JC?f

-1-10-8	2-6-3
1-10-8	2-6-3









Scale = 1:21.8

2-6-3

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	0.28	Vert(LL)	0.00	4-5	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.07	Vert(CT)	0.00	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	IRC2018/TPI2014	Matrix-R		Wind(LL)	0.00	4-5	>999	240	Weight: 9 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 2-6-3 oc purlins, except end verticals.

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

bracing.

REACTIONS (size) 3= Mechanical, 4= Mechanical,

5=0-5-8 Max Horiz 5=56 (LC 4)

Max Uplift 3=-27 (LC 8), 5=-123 (LC 4) Max Grav

3=35 (LC 1), 4=38 (LC 3), 5=307

(LC 1)

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

Tension

TOP CHORD 2-5=-268/136, 1-2=0/45, 2-3=-40/6

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 123 lb uplift at joint 5 and 27 lb uplift at joint 3.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



March 21,2024



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 198 WO B240098 J27 Diagonal Hip Girder Job Reference (optional S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 164360275 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.73 S Feb 22 2024 Print: 8.730 S Feb 22 2024 MiTek Industries, Inc. Ved Mar 2004 (1997) ID:ZJyCW0A5XPny13Zd6eyrZsz4SeU-RfC?PsB70Hq3NSgPqnL8w3uITXbG (WrCDoir J425C)

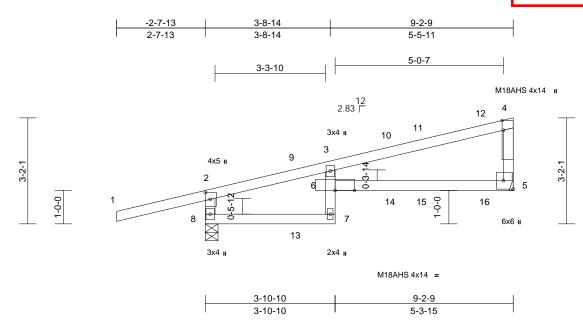


Plate Offsets (X, Y): [2:0-2-8,0-1-12], [4:0-3-8,Edge], [5:Edge,0-3-8]

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	0.65	Vert(LL)	-0.24	5-6	>455	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.49	Vert(CT)	-0.44	5-6	>242	240	M18AHS	142/136
BCLL	0.0*	Rep Stress Incr	NO	WB	0.00	Horz(CT)	0.11	5	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R		Wind(LL)	0.25	5-6	>435	240	Weight: 28 lb	FT = 10%

### LUMBER

TOP CHORD 2x4 SPF 2100F 1.8E 2x4 SPF 2100F 1.8E **BOT CHORD** 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, 8=0-4-9 (size)

Max Horiz 8=115 (LC 5)

Max Uplift 5=-120 (LC 8), 8=-218 (LC 4) Max Grav 5=528 (LC 1), 8=651 (LC 1)

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

Tension

2-8=-580/231, 1-2=0/45, 2-3=-447/75, TOP CHORD

3-4=-298/59, 4-5=-320/119

BOT CHORD 7-8=-96/351, 6-7=-11/54, 3-6=-21/101,

5-6=-73/262

### 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
- 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 8 SPF 2100F 1.8E, 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 218 lb uplift at joint 8 and 120 lb uplift at joint 5.

- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 73 lb down and 73 lb up at 2-8-7, 70 lb down and 28 lb up at 3-7-12, 86 lb down and 40 lb up at 5-6-6, and 98 lb down and 50 lb up at 6-5-11, and 110 lb down and 63 lb up at 8-4-5 on top chord, and 12 lb down and 16 lb up at 2-8-7. 8 lb down and 10 lb up at 3-8-14. 21 lb down and 27 lb up at 5-6-6, and 27 lb down and 23 lb up at 6-5-11, and 51 lb down at 8-4-5 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, 7-8=-20, 5-6=-20

Concentrated Loads (lb)

Vert: 7=10 (F), 10=-5 (B), 11=-13 (F), 12=-81 (B), 14=-14 (B), 15=-25 (F), 16=-51 (B)



March 21,2024

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



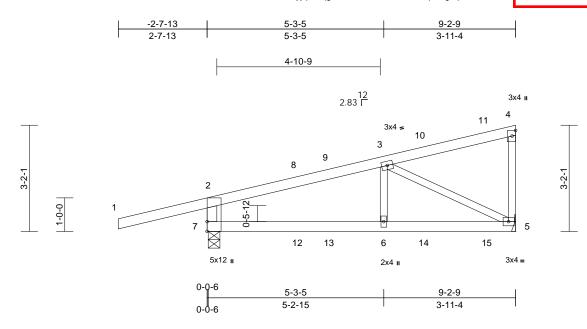
Ply Job Truss Truss Type Qty Lot 198 WO B240098 J28 Diagonal Hip Girder

DEVELOPMENT SERVICES 164360276 LEE'S SUMMIT. MISSOURI Job Reference (optional

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.73 S Feb 22 2024 Print: 8.730 S Feb 22 2024 MiTek Industries, Inc. Ved Mar 200 2009 ID:1VWakMBjljvpfD8qgMT464z4SeT-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi734zJS/f



Scale = 1:34.4

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	0.91	Vert(LL)	-0.06	5-6	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.50	Vert(CT)	-0.11	5-6	>978	240		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.25	Horz(CT)	0.01	5	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.05	5-6	>999	240	Weight: 32 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 5-9-9 oc purlins, except end verticals.

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

bracing.

REACTIONS (size) 5= Mechanical, 7=0-4-3

Max Horiz 7=132 (LC 5)

Max Uplift 5=-124 (LC 5), 7=-218 (LC 4)

Max Grav 5=578 (LC 1), 7=682 (LC 1)

**FORCES** Tension

(lb) - Maximum Compression/Maximum

TOP CHORD 2-7=-580/232, 1-2=0/45, 2-3=-612/100,

3-4=-99/34, 4-5=-232/98 BOT CHORD 6-7=-149/520, 5-6=-149/520

WFBS 3-6=0/217, 3-5=-545/136

### 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 218 lb uplift at joint 7 and 124 lb uplift at joint 5.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

- 8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 73 lb down and 73 lb up at 2-8-7, 87 lb down and 58 lb up at 3-7-12, 87 lb down and 58 lb up at 5-6-6, and 116 lb down and 81 lb up at 6-5-11, and 119 lb down and 79 lb up at 8-4-5 on top chord, and 12 lb down and 16 lb up at 2-8-7, 18 lb down at 3-7-12, 19 lb down at 5-6-6, and 44 lb down at 6-5-11, and 61 lb down at 8-4-5 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, 5-7=-20

Concentrated Loads (lb)

Vert: 3=-1 (F), 6=-2 (F), 9=-3 (B), 10=-71 (B), 11=-92

(F), 13=-9 (B), 14=-40 (B), 15=-39 (F)





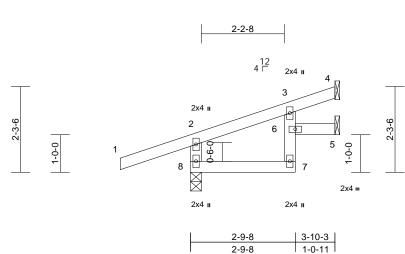
Truss Type Job Truss Qty Ply Lot 198 WO Jack-Open B240098 J29

DEVELOPMENT SERVICES 164360277 LEE'S SUMMIT. MISSOURI Job Reference (optional Run: 8.73 S Feb 22 2024 Print: 8.730 S Feb 22 2024 MiTek Industries, Inc. Ved Mar 2005 18 ID:8kG3u?8DFUPNAbq2RWO8yEz4SeX-RfC?PsB70Hq3NSgPqnL8w3uITXI GKWrCDef7342JC?f

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW

Wheeler Lumber, Waverly, KS - 66871,

ı	-1-10-8	2-7-12	3-10-3
	1-10-8	2-7-12	1-2-7



Scale = 1:30.7

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	0.28	Vert(LL)	-0.01	6	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.06	Vert(CT)	-0.01	7	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R		Wind(LL)	0.00	6	>999	240	Weight: 13 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 3-10-3 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=74 (LC 4)

Max Uplift 4=-28 (LC 8), 5=-10 (LC 8), 8=-119 (LC 4)

Max Grav 4=82 (LC 1), 5=50 (LC 3), 8=345 (LC 1)

(lb) - Maximum Compression/Maximum

Tension TOP CHORD 2-8=-306/136, 1-2=0/45, 2-3=-74/0,

3-4=-13/23 **BOT CHORD** 7-8=-22/34, 6-7=0/45, 3-6=-8/41, 5-6=0/0

NOTES

**FORCES** 

- 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 119 lb uplift at joint 8, 28 lb uplift at joint 4 and 10 lb uplift at joint 5.

7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

OF MISSO NATHANIEL FOX **UBER** PE-2022042259 SSIONAL







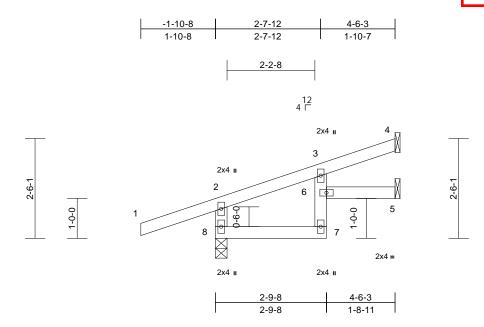
Truss Type Job Truss Qty Ply Lot 198 WO Jack-Open B240098 J30 Job Reference (optional

S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 164360278 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.73 S Feb 22 2024 Print: 8.730 S Feb 22 2024 MiTek Industries, Inc. Ved Mar 2005 18 ID:8kG3u?8DFUPNAbq2RWO8yEz4SeX-RfC?PsB70Hq3NSgPqnL8w3uITXI GKWrCDef7342JC?f



Scale = 1:29

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)	-0.01	6	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.12	Vert(CT)	-0.03	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	IRC2018/TPI2014	Matrix-R		Wind(LL)	0.02	6	>999	240	Weight: 15 lb	FT = 10%

### LUMBER

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

**BRACING** 

TOP CHORD Structural wood sheathing directly applied or 4-6-3 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=83 (LC 4)

Max Uplift 4=-41 (LC 8), 5=-6 (LC 8), 8=-119

(LC 4)

Max Grav 4=107 (LC 1), 5=63 (LC 3), 8=368

(LC 1)

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

Tension

TOP CHORD 2-8=-327/136, 1-2=0/45, 2-3=-104/0,

3-4=-19/30

**BOT CHORD** 7-8=-32/52, 6-7=0/44, 3-6=-9/53, 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 119 lb uplift at joint 8, 41 lb uplift at joint 4 and 6 lb uplift at joint 5.

7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

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



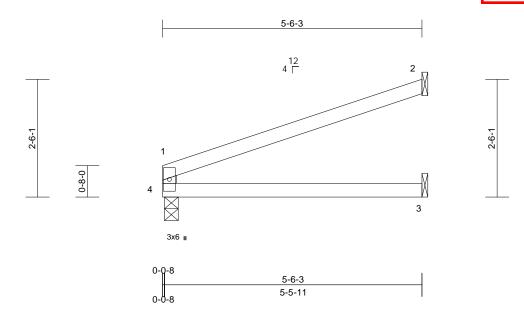
Ply Truss Type Job Truss Qty Lot 198 WO B240098 J31 Jack-Open Job Reference (optiona

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.73 S Feb 22 2024 Print: 8.730 S Feb 22 2024 MiTek Industries, Inc. Ved Mar 2004 918 ID:46OpJgATn6f5Qv\_RYxRc1fz4SeV-RfC?PsB70Hq3NSgPqnL8w3ulTXbGl<mark>-</mark>WrCDoi*r*94z3e?

DEVELOPMENT SERVICES 164360279 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW



Scale = 1:24.5

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	0.46	Vert(LL)	-0.04	3-4	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.27	Vert(CT)	-0.08	3-4	>764	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.03	2	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R		Wind(LL)	0.04	3-4	>999	240	Weight: 13 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 5-6-3 oc purlins, except end verticals. BOT CHORD Rigid ceiling directly applied or 10-0-0 oc

bracing.

REACTIONS (size) 2= Mechanical, 3= Mechanical,

4=0-3-8 Max Horiz 4=66 (LC 8)

Max Uplift 2=-77 (LC 8), 4=-27 (LC 4)

Max Grav 2=170 (LC 1), 3=101 (LC 3), 4=239

(LC 1)

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

Tension

TOP CHORD 1-4=-201/75, 1-2=-70/42

BOT CHORD 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 27 lb uplift at joint 4 and 77 lb uplift at joint 2.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.





Truss Type Ply Job Truss Qty Lot 198 WO B240098 J32 Jack-Open Job Reference (optional

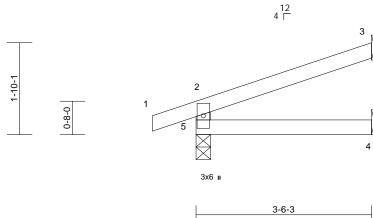
S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 164360280 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.73 S Feb 22 2024 Print: 8.730 S Feb 22 2024 MiTek Industries, Inc. Ved Mar 2000 15 ID:8kG3u?8DFUPNAbq2RWO8yEz4SeX-RfC?PsB70Hq3NSgPqnL8w3uITXI GKWrCDef7542JC?f

-0-10-8	3-6-3
0-10-8	3-6-3



Scale = 1:23.1

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	0.15	Vert(LL)	-0.01	4-5	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.09	Vert(CT)	-0.01	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	IRC2018/TPI2014	Matrix-R		Wind(LL)	0.00	4-5	>999	240	Weight: 10 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 3-6-3 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=57 (LC 4)

Max Uplift 3=-48 (LC 8), 5=-64 (LC 4) Max Grav

3=100 (LC 1), 4=62 (LC 3), 5=231

(LC 1)

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

Tension

TOP CHORD 2-5=-203/92, 1-2=0/23, 2-3=-45/24

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 64 lb uplift at joint 5 and 48 lb uplift at joint 3.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



March 21,2024



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 198 WO B240098 J33 Diagonal Hip Girder 2 Job Reference (optional

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 164360281 LEE'S SUMMIT. MISSOURI

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.73 S Feb 22 2024 Print: 8.730 S Feb 22 2024 MiTek Industries, Inc. Ved Mar 2004 18 ID:1VWakMBjljvpfD8qgMT464z4SeT-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi734zJe?i

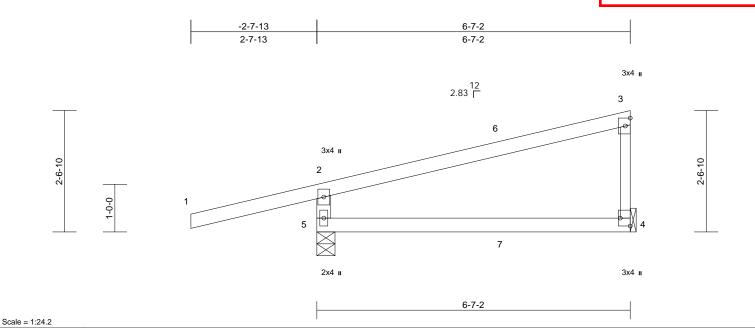


Plate Offsets (X, Y): [4:Edge,0-2-8]

	-		-		-	-	-	-				
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	0.63	Vert(LL)	-0.06	4-5	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.35	Vert(CT)	-0.12	4-5	>613	240		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.00	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R		Wind(LL)	-0.02	4-5	>999	240	Weight: 21 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 4= Mechanical, 5=0-4-9 (size)

Max Horiz 5=105 (LC 5)

Max Uplift 4=-46 (LC 8), 5=-190 (LC 4) Max Grav 4=231 (LC 1), 5=517 (LC 1)

(lb) - Maximum Compression/Maximum

**FORCES** Tension

TOP CHORD 2-5=-463/230, 1-2=0/45, 2-3=-130/16,

3-4=-177/79 BOT CHORD 4-5=-27/56

### 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 190 lb uplift at joint 5 and 46 lb uplift at joint 4.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 70 lb down and 32 lb up at 3-10-4, and 70 lb down and 32 lb up at 3-10-4 on top chord, and 9 lb down and 9 lb up at 3-10-4, and 9 lb down and 9 lb up at 3-10-4 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=19 (F=9, B=9)



March 21,2024



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 Truss Type Job Truss Qty Lot 198 WO Jack-Open B240098 J34 3 Job Reference (optional

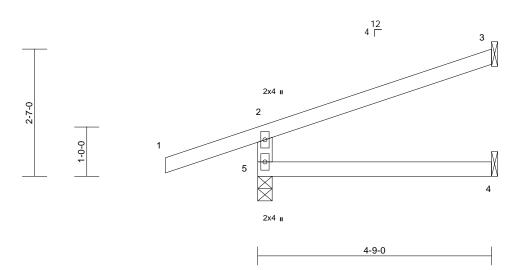
S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 164360282 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.73 S Feb 22 2024 Print: 8.730 S Feb 22 2024 MiTek Industries, Inc. Ved Mar 2005 18 ID:8kG3u?8DFUPNAbq2RWO8yEz4SeX-RfC?PsB70Hq3NSgPqnL8w3uITXI GKWrCDef7342JC?f





LOAD CASE(S) Standard

Scale = 1:23.4

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	0.28	Vert(LL)	-0.02	4-5	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.18	Vert(CT)	-0.04	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	IRC2018/TPI2014	Matrix-R		Wind(LL)	0.01	4-5	>999	240	Weight: 14 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 4-9-0 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=86 (LC 4)

Max Uplift 3=-65 (LC 8), 5=-120 (LC 4) Max Grav

3=129 (LC 1), 4=83 (LC 3), 5=377

(LC 1)

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

Tension

TOP CHORD 2-5=-331/156, 1-2=0/45, 2-3=-63/31

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 120 lb uplift at joint 5 and 65 lb uplift at joint 3.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



March 21,2024



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 Truss Type Job Truss Qty Lot 198 WO Jack-Open B240098 J35 Job Reference (optional

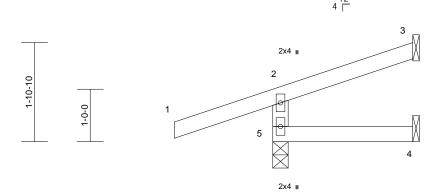
AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 164360283 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.73 S Feb 22 2024 Print: 8.730 S Feb 22 2024 MiTek Industries, Inc. Ved Mar 2005 18 ID:8kG3u?8DFUPNAbq2RWO8yEz4SeX-RfC?PsB70Hq3NSgPqnL8w3uITXI GKWrCDef7342JC?f

-1-10-8	2-7-15
1-10-8	2-7-15



2-7-15 Scale = 1:21.9

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)	0.00	4-5	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.07	Vert(CT)	0.00	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	IRC2018/TPI2014	Matrix-R		Wind(LL)	0.00	4-5	>999	240	Weight: 9 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 2-7-15 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=58 (LC 4)

Max Uplift 3=-29 (LC 8), 5=-121 (LC 4) Max Grav

3=43 (LC 1), 4=41 (LC 3), 5=310

(LC 1)

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

Tension

TOP CHORD 2-5=-270/137, 1-2=0/45, 2-3=-41/8

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 121 lb uplift at joint 5 and 29 lb uplift at joint 3.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



March 21,2024



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 198 WO B240098 J36 Diagonal Hip Girder Job Reference (optional

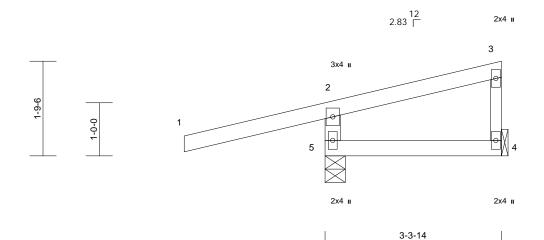
AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 164360284 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.73 S Feb 22 2024 Print: 8.730 S Feb 22 2024 MiTek Industries, Inc. Ved Mar 2004 81 ID:iYnn2sU?e8DQ7E\_XAKwKMpz\_kTB-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoirJ42de?f

-2-7-13	3-3-14
2-7-13	3-3-14



Scale = 1:21.7

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	0.63	Vert(LL)	0.00	4-5	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.10	Vert(CT)	-0.01	4-5	>999	240		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.00	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R		Wind(LL)	0.00	4-5	>999	240	Weight: 12 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 3-3-14 oc purlins, except end verticals. BOT CHORD Rigid ceiling directly applied or 6-0-0 oc

bracing.

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

Max Horiz 5=72 (LC 5)

Max Uplift 4=-9 (LC 5), 5=-192 (LC 4) Max Grav 4=67 (LC 3), 5=423 (LC 1) (lb) - Maximum Compression/Maximum

**FORCES** 

Tension

TOP CHORD 2-5=-372/200, 1-2=0/45, 2-3=-36/25, 3-4=-39/24

BOT CHORD 4-5=-31/34

### 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.
- 4) 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 192 lb uplift at joint 5 and 9 lb uplift at joint 4.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



March 21,2024



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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



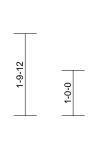
Truss Type Job Truss Qty Ply Lot 198 WO Jack-Open B240098 J37 2

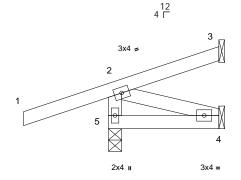
DEVELOPMENT SERVICES 164360285 LEE'S SUMMIT. MISSOURI Job Reference (optional Run: 8.73 S Feb 22 2024 Print: 8.730 S Feb 22 2024 MiTek Industries, Inc. Ved Mar 2005 18

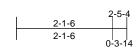
Wheeler Lumber, Waverly, KS - 66871,

ID:AkL9FCVdPSLHkOZjk2RZv0z\_kTA-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDolfd2d2ff

١	-1-10-8	2-5-4
	1-10-8	2-5-4







Scale = 1:25.4

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	0.28	Vert(LL)	0.00	4-5	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.05	Vert(CT)	0.00	4-5	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.01	Horz(CT)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 11 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 2-5-4 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=54 (LC 4)

Max Uplift

3=-13 (LC 8), 4=-6 (LC 4), 5=-123 (LC 4)

Max Grav 3=14 (LC 18), 4=46 (LC 3), 5=307

(LC 1)

(lb) - Maximum Compression/Maximum

Tension

TOP CHORD 2-5=-284/137, 1-2=0/45, 2-3=-45/1

**BOT CHORD** 4-5=-61/8 **WEBS** 2-4=-8/64

### NOTES

**FORCES** 

- 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 123 lb uplift at joint 5, 13 lb uplift at joint 3 and 6 lb uplift at joint 4.

7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



March 21,2024

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW



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 198 WO B240098 J38 Jack-Closed Girder Job Reference (optiona

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 164360286 LEE'S SUMMIT. MISSOURI

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.73 S Feb 22 2024 Print: 8.730 S Feb 22 2024 MiTek Industries, Inc. Ved Mar 2001-09/18 ID:AkL9FCVdPSLHkOZjk2RZv0z\_kTA-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDolf6429Cff

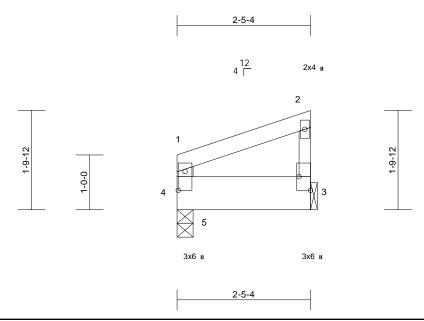


Plate Offsets (X, Y): [3:Edge,0-2-8], [4:0-4-2,0-1-8]

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	0.06	Vert(LL)	0.00	3-4	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.08	Vert(CT)	0.00	3-4	>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	IRC2018/TPI2014	Matrix-R		Wind(LL)	0.00	3-4	>999	240	Weight: 11 lb	FT = 10%

### LUMBER

TOP CHORD 2x4 SPF No.2 **BOT CHORD** 2x8 SP 2400F 2.0E

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

**BRACING** 

TOP CHORD Structural wood sheathing directly applied or 2-5-4 oc purlins, except end verticals.

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

bracing.

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

Max Horiz 4=55 (LC 7)

Max Uplift 3=-50 (LC 8), 4=-161 (LC 4)

Max Grav 3=292 (LC 1), 4=1103 (LC 1)

(lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-4=-80/33, 1-2=-52/9, 2-3=-73/31

**BOT CHORD** 3-4=-18/19

### NOTES

**FORCES** 

- 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.
- Bearings are assumed to be: Joint 4 SP 2400F 2.0E, Joint 3 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 161 lb uplift at joint 4 and 50 lb uplift at joint 3.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1199 lb down and 174 lb up at 0-6-0 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: 1-2=-70, 3-4=-20 Concentrated Loads (lb)

Vert: 5=-1199 (F)



March 21,2024



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Truss Type Job Truss Qty Ply Lot 198 WO B240098 J39 Diagonal Hip Girder Job Reference (optional

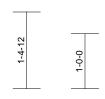
RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 164360287 LEE'S SUMMIT. MISSOURI

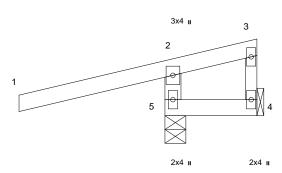
Wheeler Lumber, Waverly, KS - 66871,

Run: 8.73 S Feb 22 2024 Print: 8.730 S Feb 22 2024 MiTek Industries, Inc. Ved Mar 2004 of ID:AkL9FCVdPSLHkOZjk2RZv0z\_kTA-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDolfd2d2ff

-2-7-13	1-8-1
2-7-13	1-8-1









1-8-1

Scale = 1:20.9

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	0.63	Vert(LL)	0.00	4-5	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.07	Vert(CT)	0.00	4-5	>999	240		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.00	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R		Wind(LL)	0.00	4-5	>999	240	Weight: 8 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 1-8-1 oc purlins, except end verticals. BOT CHORD Rigid ceiling directly applied or 6-0-0 oc

bracing.

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

Max Horiz 5=70 (LC 7)

Max Uplift 4=-129 (LC 1), 5=-241 (LC 4) Max Grav 4=98 (LC 4), 5=452 (LC 1)

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

2-5=-397/229, 1-2=0/45, 2-3=-16/25,

3-4=-70/102

BOT CHORD 4-5=-49/40

### NOTES

TOP CHORD

- 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.
- 4) 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 241 lb uplift at joint 5 and 129 lb uplift at joint 4.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



Truss Type Job Truss Qty Ply Lot 198 WO B240098 J40 Jack-Open 3 Job Reference (optional

Wheeler Lumber, Waverly, KS - 66871,

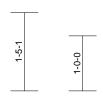
Run: 8.73 S Feb 22 2024 Print: 8.730 S Feb 22 2024 MiTek Industries, Inc. Ved Mar 2004 of ID:AkL9FCVdPSLHkOZjk2RZv0z\_kTA-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDolf-429Cff

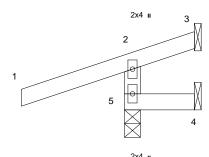
RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW

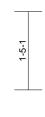
DEVELOPMENT SERVICES 164360288

LEE'S SUMMIT. MISSOURI

-1-10-8	1-3-4
1-10-8	1-3-4







1-3-4

Scale = 1:21

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)	0.00	4-5	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.07	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	IRC2018/TPI2014	Matrix-R		Wind(LL)	0.00	4-5	>999	240	Weight: 6 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 1-3-4 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=41 (LC 5)

Max Uplift 3=-57 (LC 1), 4=-21 (LC 1), 5=-151 (LC 4)

Max Grav 3=33 (LC 4), 4=13 (LC 4), 5=320

(LC 1)

(lb) - Maximum Compression/Maximum

Tension

TOP CHORD 2-5=-277/151, 1-2=0/45, 2-3=-43/10

**BOT CHORD** 4-5=0/0

### 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
- 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 151 lb uplift at joint 5, 21 lb uplift at joint 4 and 57 lb uplift at joint 3.

7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



March 21,2024



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Job	Truss	Truss Type	Qty	Ply	Lot 198 WO
B240098	LAY2	Lay-In Gable	1	1	Job Reference (optional)

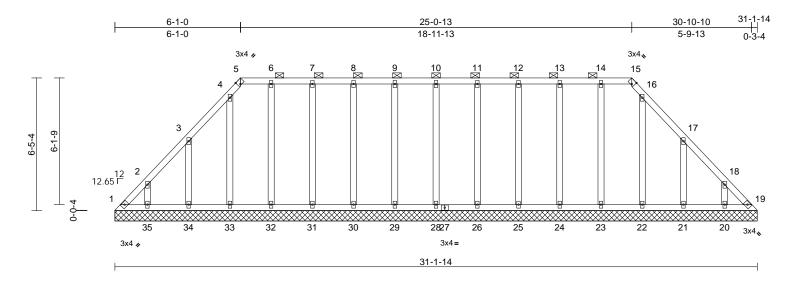
S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 164360289

LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.73 S Feb 22 2024 Print: 8.730 S Feb 22 2024 MiTek Industries, Inc. Ved Mar 2000 100 ID:cwqR5L9r0oXEoIPF?DwNURz4SeW-RfC?PsB70Hq3NSgPqnL8w3uITXb6KWrCDoi7J4zJ6?f



Scale = 1:55.9

LUMBER

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	0.09	Horiz(TL)	0.01	19	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 159 lb	FT = 10%

(lb) - Maximum Compression/Maximum

TOP CHORD	2x4 SPF	No.2		Tension
BOT CHORD	2x4 SPF	No.2	TOP CHORD	1-2=-244/160, 2-3=-143/123, 3-4=-106/92,
OTHERS	2x4 SPF	No.2		4-5=-69/81, 5-6=-28/91, 6-7=-28/91,
BRACING TOP CHORD		I wood sheathing directly applied or purlins, except		7-8=-28/91, 8-9=-28/91, 9-10=-28/91, 10-11=-28/91, 11-12=-28/91, 12-13=-28/91, 13-14=-28/91, 14-15=-28/91, 15-16=-69/82,
BOT CHORD	2-0-0 oc	ourlins (6-0-0 max.): 5-15. ing directly applied or 10-0-0 oc	BOT CHORD	16-17=-81/53, 17-18=-116/68, 18-19=-207/105 1-35=-71/160, 34-35=-71/160,
REACTIONS	Max Horiz	1=31-1-14, 19=31-1-14, 20=31-1-14, 21=31-1-14, 22=31-1-14, 23=31-1-14, 24=31-1-14, 25=31-1-14, 26=31-1-14, 30=31-1-14, 39=31-1-14, 30=31-1-14, 31=31-1-14, 32=31-1-14, 33=31-1-14, 34=31-1-14, 35=31-1-14 1=-163 (LC 4) 1=-86 (LC 6), 19=-45 (LC 7), 20=-108 (LC 9), 21=-146 (LC 9), 22=-9 (LC 9), 23=-31 (LC 5), 24=-38 (LC 4), 25=-33 (LC 5),	WEBS	33-34=-71/160, 32-33=-71/160, 31-32=-71/160, 30-31=-71/160, 29-30=-71/160, 28-29=-71/160, 26-28=-71/160, 25-26=-71/160, 25-26=-71/160, 22-23=-71/160, 21-22=-71/160, 22-23=-71/160, 21-22=-71/160, 22-21=-71/160, 21-22=-71/160, 22-35=-144/127, 3-34=-172/168, 4-33=-137/60, 6-32=-136/55, 7-31=-142/62, 8-30=-140/57, 9-29=-140/58, 10-28=-140/58, 11-26=-140/58, 12-25=-140/57, 13-24=-142/62, 14-23=-136/55, 16-22=-121/33, 17-21=-176/172, 18-20=-143/126
		26=-34 (LC 4), 28=-34 (LC 5),		ad read live leads have been sensidered for

**FORCES** 

29=-34 (LC 4), 30=-33 (LC 5), 31=-38 (LC 4), 32=-31 (LC 5),

33=-36 (LC 5), 34=-143 (LC 8),

1=169 (LC 8), 19=142 (LC 9),

20=182 (LC 16), 21=217 (LC 16),

22=161 (LC 22), 23=176 (LC 21),

24=182 (LC 21), 25=180 (LC 22),

26=180 (LC 21), 28=180 (LC 1),

29=180 (LC 22), 30=180 (LC 21),

31=182 (LC 22), 32=176 (LC 22),

33=177 (LC 15), 34=213 (LC 15),

35=-109 (LC 8)

35=183 (LC 15)

Max Grav

- 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 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 86 lb uplift at joint 1, 45 lb uplift at joint 19, 109 lb uplift at joint 35, 143 lb uplift at joint 34, 36 lb uplift at joint 33, 31 lb uplift at joint 32, 38 lb uplift at joint 31, 33 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, 38 lb uplift at joint 24, 31 lb uplift at joint 23, 9 lb uplift at joint 22, 146 lb uplift at joint 21 and 108 lb uplift at joint 20.
- 12) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 13) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



March 21,2024

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 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)



RELEASE FOR CONSTRUCTION Job Ply Truss Truss Type Qty Lot 198 WO Lay-In Gable B240098 LAY2 Job Reference (optional

AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 164360289 LEE'S SUMMIT, MISSOURI

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.73 S Feb 22 2024 Print: 8.730 S Feb 22 2024 MiTek Industries, Inc. Ved Mar 0009/11 4/2024

ID:cwqR5L9r0oXEoIPF?DwNURz4SeW-RfC?PsB70Hq3NSgPqnL8w3uITXb-KWrCDW-J229/7f

LOAD CASE(S) Standard



Job Truss Truss Type Qty Ply Lot 198 WO B240098 LAY3 Lay-In Gable 2

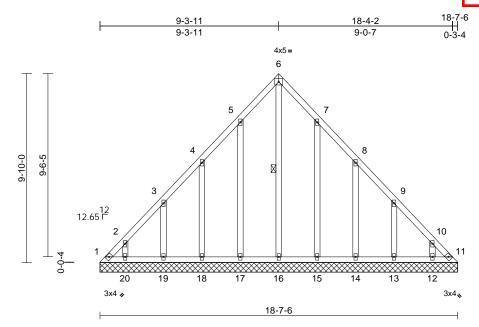
Job Reference (optional

S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 164360290 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.73 S Feb 22 2024 Print: 8.730 S Feb 22 2024 MiTek Industries, Inc. Ved Mar 2001-09/19 ID:cwqR5L9r0oXEoIPF?DwNURz4SeW-RfC?PsB70Hq3NSgPqnL8w3uITXb6KWrCDoirJ4zdc?f



Scale = 1:60

Loading	(psf)	Spacing	2-0-0	csı		DEFL	in	(loc)	I/defI	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.06	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	0.16	Horiz(TL)	0.01	11	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 98 lb	FT = 10%

LUMBER

2x4 SPF No.2 TOP CHORD **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.

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

bracing.

**WEBS** 1 Row at midpt 6-16

REACTIONS (size)

1=18-7-6, 11=18-7-6, 12=18-7-6, 13=18-7-6, 14=18-7-6, 15=18-7-6, 16=18-7-6, 17=18-7-6, 18=18-7-6,

19=18-7-6, 20=18-7-6

Max Horiz 1=251 (LC 7) Max Uplift 1=-140 (LC 6), 11=-98 (LC 7),

12=-106 (LC 9), 13=-127 (LC 9),

14=-127 (LC 9), 15=-122 (LC 9), 17=-124 (LC 8), 18=-126 (LC 8), 19=-127 (LC 8), 20=-106 (LC 8)

Max Grav 1=259 (LC 8), 11=231 (LC 9),

12=173 (LC 16), 13=209 (LC 16), 14=201 (LC 16), 15=211 (LC 16), 16=231 (LC 9), 17=214 (LC 15), 18=200 (LC 15), 19=209 (LC 15),

20=173 (LC 15)

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

Tension

1-2=-362/220, 2-3=-264/186, 3-4=-165/137, TOP CHORD 4-5=-139/128, 5-6=-113/192, 6-7=-88/170,

7-8=-95/89, 8-9=-122/79, 9-10=-226/128, 10-11=-324/162

1-20=-108/233, 19-20=-108/233, **BOT CHORD** 

18-19=-108/233, 17-18=-108/233, 16-17=-108/233, 15-16=-108/233, 14-15=-108/233, 13-14=-108/233, 12-13=-108/233, 11-12=-108/233

**WEBS** 

6-16=-207/27, 5-17=-174/148, 4-18=-160/150, 3-19=-168/152, 2-20=-137/123, 7-15=-171/146, 8-14=-161/151, 9-13=-168/152,

10-12=-138/124

### 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.
- All plates are 2x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* 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, 98 lb uplift at joint 11, 124 lb uplift at joint 17, 126 lb uplift at joint 18, 127 lb uplift at joint 19, 106 lb uplift at joint 20, 122 lb uplift at joint 15, 127 lb uplift at joint 14, 127 lb uplift at joint 13 and 106 lb uplift at joint 12.
- 11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard





 Job
 Truss
 Truss Type
 Qty
 Ply
 Lot 198 WO

 B240098
 V3
 Valley
 1
 1
 1
 Job Reference (optional)

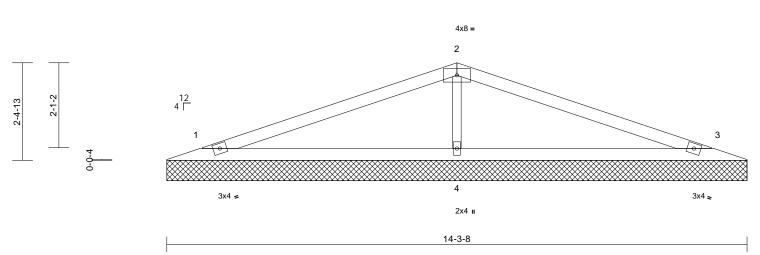
Wheeler Lumber, Waverly, KS - 66871,

Run: 8.73 S Feb 22 2024 Print: 8.730 S Feb 22 2024 MiTek Industries, Inc. Ved Mar 200 5091 ID:46OpJgATn6f5Qv\_RYxRc1fz4SeV-RfC?PsB70Hq3NSgPqnL8w3ulTXbGF WrCDoi 74 23 9 1

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164360291
LEE'S SUMMIT, MISSOURI

RELEASE FOR CONSTRUCTION

7-1-12 13-5-1 14-3-8 7-1-12 6-3-5 0-10-7



Scale = 1:28.4

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	0.57	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.32	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.09	Horiz(TL)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 33 lb	FT = 10%

### LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins.

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

bracing.

**REACTIONS** (size) 1=14-3-8, 3=14-3-8, 4=14-3-8

Max Horiz 1=37 (LC 12)

Max Uplift 1=-54 (LC 4), 3=-58 (LC 9), 4=-58

(LC 4)

Max Grav 1=253 (LC 21), 3=253 (LC 22),

4=639 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-102/59, 2-3=-102/47 BOT CHORD 1-4=-1/39, 3-4=-1/39

WEBS 2-4=-450/133

### 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) Gable requires continuous bottom chord bearing.
- 5) 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 54 lb uplift at joint 1, 58 lb uplift at joint 3 and 58 lb uplift at joint 4.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



March 21,2024



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)

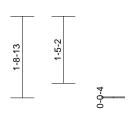


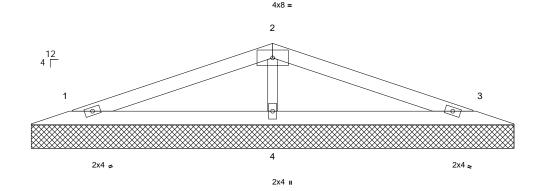
Truss Type Job Truss Qty Ply Lot 198 WO B240098 V4 Valley Job Reference (optiona RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 164360292 LEE'S SUMMIT. MISSOURI

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.73 S Feb 22 2024 Print: 8.730 S Feb 22 2024 MiTek Industries, Inc. Ved Mar 2002 100 ID:46OpJgATn6f5Qv\_RYxRc1fz4SeV-RfC?PsB70Hq3NSgPqnL8w3uITXbGl WrCDoi7y4z3c?

5-1-12	9-5-1	10-3-8
5-1-12	4-3-5	0-10-7





10-3-8

	Scale	=	1:24.	6
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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	0.25	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.15	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.06	Horiz(TL)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 23 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=10-3-8, 3=10-3-8, 4=10-3-8

1=25 (LC 8) Max Horiz

Max Uplift 1=-37 (LC 4), 3=-40 (LC 9), 4=-40

(LC 4)

1=172 (LC 21), 3=172 (LC 22), Max Grav

4=435 (LC 1)

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

Tension

TOP CHORD 1-2=-69/40, 2-3=-69/32 **BOT CHORD** 1-4=-1/26, 3-4=-1/26

WEBS 2-4=-306/91

### 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 37 lb uplift at joint 1, 40 lb uplift at joint 3 and 40 lb uplift at joint 4.
- 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



March 21,2024



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 198 WO B240098 V5 Valley Job Reference (optional

Wheeler Lumber, Waverly, KS - 66871,

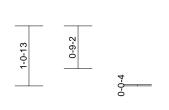
Run: 8.73 S Feb 22 2024 Print: 8.730 S Feb 22 2024 MiTek Industries, Inc. Ved Mar 2002-09/19 ID:46OpJgATn6f5Qv\_RYxRc1fz4SeV-RfC?PsB70Hq3NSgPqnL8w3ulTXbGk WrCDoi7y4z3e24

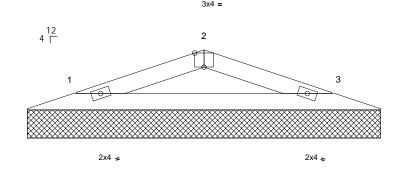
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DEVELOPMENT SERVICES 164360293

3-1-12	5-5-1	6-3-8
3-1-12	2-3-5	0-10-7





6-3-8

Scale = 1:20.5

Plate Offsets (X, Y): [2:0-2-0,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	0.09	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.22	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	IRC2018/TPI2014	Matrix-P							Weight: 13 lb	FT = 10%

### LUMBER

TOP CHORD 2x4 SPF No.2 BOT CHORD 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=6-3-8, 3=6-3-8

Max Horiz 1=-14 (LC 13)

Max Uplift 1=-30 (LC 4), 3=-30 (LC 5) Max Grav 1=204 (LC 1), 3=204 (LC 1) (lb) - Maximum Compression/Maximum

**FORCES** Tension

TOP CHORD 1-2=-267/85, 2-3=-267/85

BOT CHORD 1-3=-66/234

### 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.
- \* 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 30 lb uplift at joint 1 and 30 lb uplift at joint 3.
- 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



March 21,2024



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



## Center plate on joint unless x Offsets are indicated. Dimensions are in ft-in-sixtee Apply plates to both sides of and fully embed teeth. mbols Center plate on joint unless x, y

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

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

₹

connector plates. required direction of slots in This symbol indicates the

\* Plate location details available in MiTek software or upon request

### PLATE SIZE

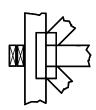
to slots. Second dimension is the length parallel to slots. width measured perpendicular The first dimension is the plate

## LATERAL BRACING LOCATION



by text in the bracing section of the output. Use T or I bracing if indicated. Indicated by symbol shown and/or

### **BEARING**



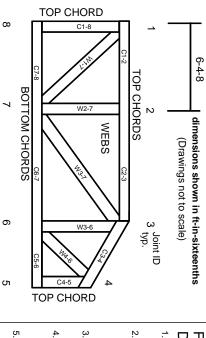
Min size shown is for crushing only number/letter where bearings occur reaction section indicates joint (supports) occur. Icons vary but Indicates location where bearings

### Industry Standards:

National Design Specification for Metal Plate Connected Wood Trusses Installing, Restraining & Bracing of Metal Guide to Good Practice for Handling, Building Component Safety Information, Design Standard for Bracing. Plate Connected Wood Truss Construction.

DSB-22: ANSI/TPI1:

## 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

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

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

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## Mile

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

# General Safety Notes

## Damage or Personal Injury Failure to Follow Could Cause Property

- Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI
- Ņ 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.
- Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
- Cut members to bear tightly against each other

'n

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

9

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