



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

Re: Avalon - Craftsman Avalon - Craftsman 1908 SW Hightown Dr Lees Summit MO, 64082

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

Pages or sheets covered by this seal: I65139922 thru I65139974 My license renewal date for the state of Kansas is April 30, 2024.

Kansas COA: E-943



April 25,2024

Garcia, Juan

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



09/15/2025



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

Re: Avalon - Craftsman Avalon - Craftsman

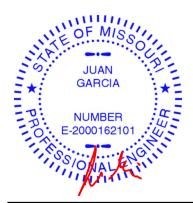
> 1908 SW Hightown Dr Lees Summit MO, 64082

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

Pages or sheets covered by this seal: I65139922 thru I65139974

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

Missouri COA: Engineering 001193



April 25,2024

Garcia, Juan

,Engineer

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

Job	Truss	Truss Type	Qty	Ply	Avalon - Craftsman	
Avalon - Craftsman	A1	Hip Girder	1	4	Job Reference (optional)	

Run: 8.73 S Apr 3 2024 Print: 8.730 S Apr 3 2024 MiTek Industries, Inc. Wed Apr 2 12 1029 ID:xxQ6yM2cQGDKA8yJM4PdpizNXbG-RfC?PsB70Hq3NSgPqnL8w3uITXb KWrCDorJykxC?f

S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 165139922 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION

1908 SW Hightown Dr

Lees Summit MO, 64082

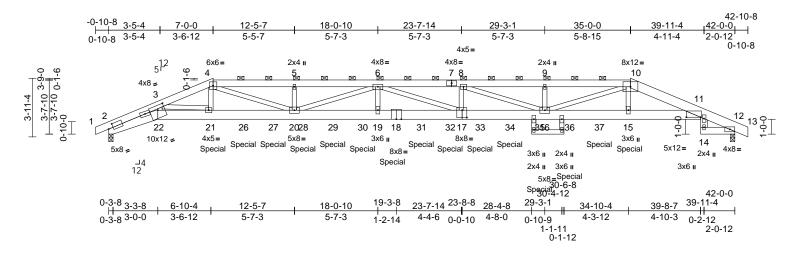


Plate Offsets (X, Y): [2:0-3-13,0-3-0], [11:0-11-8,Edge], [17:0-3-12,0-6-0], [22:0-5-8,0-3-12]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.72	Vert(LL)	-0.54	17-19	>923	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.45	Vert(CT)	-0.94	17-19	>532	240		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.47	Horz(CT)	0.38	12	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.34	17-19	>999	240	Weight: 1160 lb	FT = 10%

LUMBER TOP CHORD

BOT CHORD

2x6 SP 2400F 2.0E *Except* 10-13:2x8 SP

2400F 2.0E

2x8 SP 2400F 2.0E *Except* 14-12:2x6 SP

2400F 2.0E, 23-24:2x4 SPF No.2

WEBS 2x4 SPF No.2 *Except* 11-14:2x6 SPF No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins, except

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

bracing.

REACTIONS (size) 2=0-3-8, 12=0-3-8

Max Horiz 2=-35 (LC 26)

Max Uplift 2=-497 (LC 4), 12=-493 (LC 5) Max Grav 2=4546 (LC 1), 12=4541 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension TOP CHORD

1-2=0/3 2-3=-17242/1903 3-4=-14805/1712 4-5=-19682/2215, 5-6=-19681/2214, 6-8=-23506/2614. 8-9=-19955/2246

9-10=-19955/2247, 10-11=-14866/1690,

11-12=-2841/320, 12-13=0/6

2-22=-1692/15529, 21-22=-1562/14298, 20-21=-1527/13719, 19-20=-2543/23496

16-19=-2547/23530, 15-16=-1581/14415,

11-15=-1566/14255, 12-14=-35/373

11-14=-83/883, 3-22=-326/3348,

4-21=-289/2420, 10-15=-184/1642 4-20=-668/6510, 5-20=-404/100,

6-20=-4142/428, 6-19=-52/993, 6-17=-67/90,

8-17=-51/959, 8-16=-3886/396,

9-16=-233/164, 10-16=-639/6027,

3-21=-428/89

NOTES

WEBS

BOT CHORD

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

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

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

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

Attach BC w/ 1/2" diam. bolts (ASTM A-307) in the center of the member w/washers at 4-0-0 oc.

- All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- Unbalanced roof live loads have been considered for this design
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SPF No.2.
- Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 497 lb uplift at joint 2 and 493 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.

 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) shalf be provided sufficient to support concentrated load(s) 785 lb down and 185 lb up at 7-0 0.278 lb down and 38 lb up at 9-0-12, 278 lb down and 38 lb up at 11-0-12, 278 bb down and 38 lb up at 13-0-12, 278 lb down and 38 lb up at 15-0-12, 278 lb down and 38 lb up at 15-0-12, 278 lb down and 38 lb up at 2000-18, 278 lb down and 38 lb up at 2000-18, 278 lb down and 278 lb down and 38 lb up at 21-0 0, 278 lb down and 38 lb up at 22-11-4, 278 lb down and 38 lb up at 22-11-4, 278 lb down and 38 lb up at 24-11-4, 278 lb down and 38 lb up at 26-31-4, 260 lb down and 47 lb up at 28-11-4, 278 lb down and 38 lb up at 32-11-4, and 81 lb down and 38 lb up at 32-11-4, and 81 lb down and 38 lb up at 32-11-4, and 81 lb down and 38 lb up at 32-11-4 and 81 lb down and 38 lb up at 32-11-4 and 81 lb down and 166 lb up at 34-11-4 on bottom chord. The design/ selection of such connection device(s) is the responsibility of others.
- 14) Filler applied to ply: 1(Front)

LOAD CASE(S) Standard



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



Ply Job Truss Truss Type Qty Avalon - Craftsman 4 Avalon - Craftsman Α1 Hip Girder Job Reference (optional

Run: 8.73 S Apr 3 2024 Print: 8.730 S Apr 3 2024 MiTek Industries, Inc. Wed Apr 2 13:039 1 ID:xxQ6yM2cQGDKA8yJM4PdpizNXbG-RfC?PsB70Hq3NSgPqnL8w3uITXb KWrCDw/J*zJC?f Wheeler Lumber, Waverly, KS - 66871,

RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 165139922 LEE'S SUMMIT. MISSOURI

Dead + Roof Live (balanced): Lumber Increase=1.15, 1) Plate Increase=1.15 Uniform Loads (lb/ft) Vert: 1-4=-70, 4-10=-70, 10-13=-70, 2-22=-20, 11-22=-20, 12-14=-20 Concentrated Loads (lb) Vert: 18=-278 (B), 21=-785 (B), 15=-818 (B), 26=-278 (B), 27=-278 (B), 28=-278 (B), 29=-278 (B), 30=-278 (B), 31=-278 (B), 32=-278 (B), 33=-278 (B), 34=-278 (B), 35=-260 (B), 36=-278 (B), 37=-278 (B)



Job	Truss	Truss Type	Qty	Ply	Avalon - Craftsman
Avalon - Craftsman	A2	Hip	1	1	Job Reference (optional)

Run: 8.73 E Jan 4 2024 Print: 8.730 E Jan 4 2024 MiTek Industries, Inc. Tr J Apr 25 14 8 ID:z5TmPe?5Zi29cVg_rNJ0ddzNX_b-_fufWjdGUiwGJ9seNiejTSd?UG3i8kuC 5dkCME2N8W

DEVELOPMENT SERVICES 165139923 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW

1908 SW Hightown Dr

Lees Summit MO, 64082

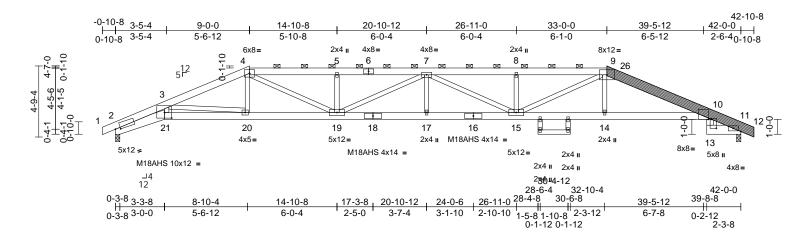


Plate Offsets (X, Y): [2:0-4-0,0-1-0], [10:0-2-10,Edge], [11:0-2-2,0-0-9], [13:0-2-10,1-7-12], [21:0-5-12,0-4-8]

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	0.56	Vert(LL)	-0.50	17-19	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.59	Vert(CT)	-0.90	17-19	>557	240	M18AHS	186/179
BCLL	0.0*	Rep Stress Incr	YES	WB	0.77	Horz(CT)	0.42	11	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.37	17-19	>999	240	Weight: 307 lb	FT = 10%

LUMBER

BOT CHORD

TOP CHORD 2x6 SP 2400F 2.0E *Except* 9-12:2x8 SP

2400F 2.0E

2x6 SP 2400F 2.0E *Except* 2-21.13-11:2x8 SP 2400F 2.0E, 22-23:2x4 SPF No.2

WEBS 2x4 SPF No.2 *Except* 10-13:2x6 SPF No.2

9-12 SP 2400F 2.0E one side LBR SCAB

BRACING

TOP CHORD

Structural wood sheathing directly applied or TOP CHORD

3-5-2 oc purlins, except

2-0-0 oc purlins (4-0-14 max.): 4-9. BOT CHORD Rigid ceiling directly applied or 10-0-0 oc

bracing, Except: 6-0-0 oc bracing: 11-13.

REACTIONS (lb/size) 2=1949/0-3-8, 11=1952/0-3-8

Max Horiz 2=-74 (LC 13)

Max Uplift 2=-278 (LC 4), 11=-276 (LC 5)

FORCES (lb) - Maximum Compression/Maximum

Tension

1-2=0/3, 2-3=-7265/968, 3-4=-4811/726,

4-5=-5970/994, 5-6=-5968/993,

6-7=-5968/993, 7-8=-6012/998, 8-9=-6013/999, 9-26=-4611/707 10-26=-4777/680, 10-11=-974/152,

11-12=0/11

BOT CHORD 2-21=-856/6544, 20-21=-786/5922

> 19-20=-591/4434, 18-19=-991/6573 17-18=-991/6573, 16-17=-991/6573,

15-16=-991/6573, 14-15=-573/4481, 10-14=-577/4471, 11-13=-41/2

WEBS 10-13=-11/195, 3-21=-173/1840, 4-20=0/490, 9-14=0/327, 4-19=-343/1868, 5-19=-454/183,

7-19=-768/130, 7-17=0/256, 7-15=-721/119, 8-15=-421/179, 9-15=-351/1846,

3-20=-1481/294

NOTES

- Attached 10-11-6 scab 9 to 12, front face(s) 2x8 SP 2400F 2.0E with 2 row(s) of 10d (0.131"x3") nails spaced 9" o.c.except : starting at 0-3-14 from end at joint 9, nail 2 row(s) at 7" o.c. for 2-0-0; starting at 6-7-7 from end at joint 9, nail 2 row(s) at 4" o.c. for 3-11-7.
- 2) 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. All plates are 2x4 MT20 unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom
- chord live load nonconcurrent with any other live loads
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SPF No.2 crushing capacity of 425 psi.
- 10) Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 278 lb uplift at joint 2 and 276 lb uplift at joint 11.
- 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.

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	Avalon - Craftsman	
Avalon - Craftsman	A3	Hip	1	1	Job Reference (optional	

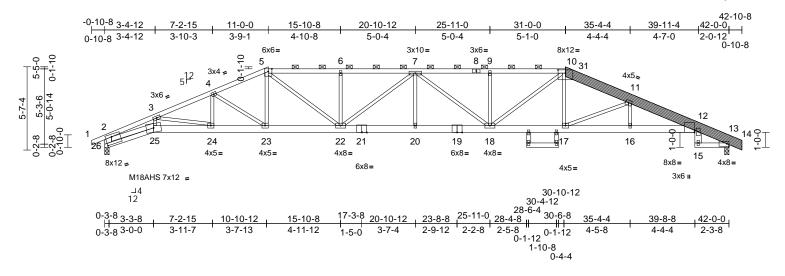
Run: 8.73 S Apr 3 2024 Print: 8.730 S Apr 3 2024 MiTek Industries, Inc. Wed Apr 2 12 13 130 ID:kNVnBm0TZ6Ngxlz7LGABBEzNWnf-RfC?PsB70Hq3NSgPqnL8w3uITXb6kWrCDox 3420 27

S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 165139924 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION

1908 SW Hightown Dr

Lees Summit MO, 64082



Scale = 1:77.5

Landing	(nof)	Cussian	2.0.0	CCI		DEEL		(100)	ا/مامدا	1 /4	DIATES	CDID
Loading	(psf)	Spacing	2-0-0	CSI		DEFL	ın	(loc)	l/defl	L/a	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.87	Vert(LL)	-0.51	20-22	>986	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.94	Vert(CT)	-0.91	20-22	>546	240	M18AHS	142/136
BCLL	0.0*	Rep Stress Incr	YES	WB	0.63	Horz(CT)	0.44	13	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.37	20-22	>999	240	Weight: 264 lb	FT = 10%

LUMBER TOP CHORD

2x4 SPF No.2 *Except* 10-14:2x8 SP 2400F

2.0E

BOT CHORD 2x4 SPF No.2 *Except* 25-21.19-12:2x6 SP

2400F 2.0E, 21-19:2x6 SPF No.2 WEBS 2x3 SPF No.2 *Except* 12-15,26-2:2x6 SPF

No.2, 25-2:2x4 SPF 2100F 1.8E, 27-29.28-30:2x4 SPF No.2

10-14 SP 2400F 2.0E one side

LBR SCAB **BRACING**

TOP CHORD

TOP CHORD Structural wood sheathing directly applied or

1-8-7 oc purlins, except end verticals, and 2-0-0 oc purlins (2-2-0 max.): 5-10.

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

bracing, Except:

2-2-0 oc bracing: 20-22,18-20.

REACTIONS (size) 13=0-3-8, 26=0-3-8

Max Horiz 26=-82 (LC 13)

Max Uplift 13=-254 (LC 5), 26=-257 (LC 4) 13=1944 (LC 1), 26=1951 (LC 1) Max Grav

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

Tension

1-2=0/30, 2-3=-6135/739, 3-4=-4799/636

4-5=-4152/613, 5-6=-4683/743, 6-7=-4680/741, 7-9=-4711/744, 9-10=-4711/744, 10-11=-4260/624

11-12=-5113/654, 12-13=-998/140,

13-14=0/0. 2-26=-1977/277

BOT CHORD 25-26=-116/478, 24-25=-643/5529,

23-24=-512/4414, 22-23=-445/3789, 20-22=-666/5021, 18-20=-666/5021,

17-18=-449/3917, 16-17=-557/4888,

12-16=-559/4890, 13-15=0/0

WEBS

12-15=0/48, 3-25=-26/665, 5-23=-52/583, 10-17=-31/644, 11-17=-1086/195, 2-25=-609/5151, 11-16=-53/91, 4-23=-735/176, 5-22=-220/1257 6-22=-419/161, 7-22=-539/88, 7-20=0/231, 7-18=-503/80, 9-18=-344/149,

10-18=-199/1126, 4-24=-8/386,

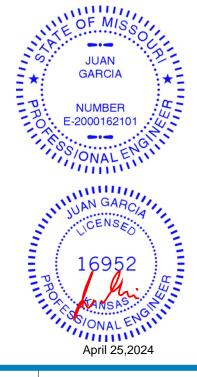
3-24=-1141/216

NOTES

- Attached 13-1-6 scab 10 to 14, front face(s) 2x8 SP 2400F 2.0E with 2 row(s) of 10d (0.131"x3") nails spaced 9" o.c.except : starting at 8-6-12 from end at joint 10, nail 2 row(s) at 4" o.c. for 2-0-0; starting at 10-9-9 from end at joint 10, nail 2 row(s) at 7" o.c. for 2-0-0.
- 2) 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.
- All plates are 2x4 MT20 unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SPF No.2.
- 10) Bearing at joint(s) 26 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 257 lb uplift at joint 26 and 254 lb uplift at joint 13.

- 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.

LOAD CASE(S) Standard





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



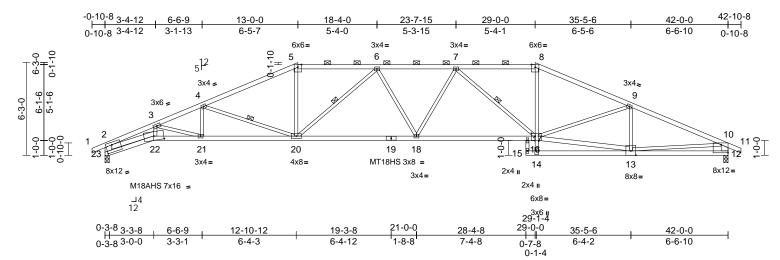
Job	Truss	Truss Type	Qty	Ply	Avalon - Craftsman
Avalon - Craftsman	A4	Hip	1	1	Job Reference (optional)

LEE'S SUMMIT. MISSOURI Run: 8.73 S Apr 3 2024 Print: 8.730 S Apr 3 2024 MiTek Industries, Inc. Wed Apr 24 12: 113

ID:AMpSFYh9FvFj?ARzUQYstxzNWdl-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDol7423C

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 165139925

1908 SW Hightown Dr Lees Summit MO, 64082



Scale = 1:77.7

Plate Offsets (X, Y):	[12:Edge,0-6-8], [16:0-3-0,0-2-4], [22:0-8-0,0-3-7], [23:0-5-0,0-6-0]
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Loading	(psf)	Spacing	2-0-0	csı		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	\i /	Plate Grip DOL	1.15	TC		Vert(LL)		17-18			MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.66	Vert(CT)	-0.77	17-18	>649	240	M18AHS	142/136
BCLL	0.0*	Rep Stress Incr	YES	WB	0.85	Horz(CT)	0.35	12	n/a	n/a	MT18HS	197/144
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.28	17-18	>999	240	Weight: 165 lb	FT = 10%

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

No.2

BOT CHORD 2x4 SPF No.2 *Except* 22-19.19-16:2x4 SPF 2100F 1.8E, 17-15:2x3 SPF No.2

WEBS 2x3 SPF No.2 *Except* 23-2,12-10:2x6 SPF No.2, 22-2:2x4 SPF 2100F 1.8E, 16-13:2x4

SPF No.2

BRACING

BOT CHORD

TOP CHORD

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

2-0-0 oc purlins (2-6-11 max.): 5-8. Rigid ceiling directly applied or 10-0-0 oc

bracing, Except:

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

WFBS 1 Row at midpt 4-20, 6-20, 7-16 REACTIONS 12=0-3-8, 23=0-3-8 (size)

Max Horiz 23=-79 (LC 13)

Max Uplift 12=-232 (LC 5), 23=-232 (LC 4)

12=1947 (LC 1), 23=1947 (LC 1) Max Grav

FORCES (lb) - Maximum Compression/Maximum

Tension

1-2=0/30, 2-3=-6014/628, 3-4=-4880/566

4-5=-3794/505, 5-6=-3410/489,

6-7=-4020/580, 7-8=-3410/488, 8-9=-3761/502, 9-10=-3482/408, 10-11=0/30,

2-23=-2023/259, 10-12=-1868/264 **BOT CHORD** 22-23=-150/553, 21-22=-536/5372, 20-21=-457/4517, 18-20=-447/3974

17-18=-448/3971, 16-17=-407/3894, 15-17=-272/0, 14-15=-42/77, 13-14=-32/134,

12-13=-111/659

WEBS 3-22=-58/740, 4-20=-1154/288,

5-20=-68/1046, 14-16=0/440, 8-16=-69/1031,

9-13=-614/152, 2-22=-496/4953, 10-13=-242/2480, 4-21=0/390,

3-21=-893/148, 6-18=-14/203,

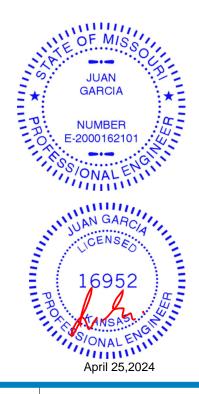
6-20=-913/181, 7-18=-6/207, 7-16=-909/183,

9-16=-24/510, 13-16=-287/3029

NOTES

- Unbalanced roof live loads have been considered for 1) this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- All plates are MT20 plates unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SPF No.2 .
- Bearing at joint(s) 23 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 232 lb uplift at joint 23 and 232 lb uplift at joint 12.
- 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





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



						_
Job	Truss	Truss Type	Qty	Ply	Avalon - Craftsman	Ī
Avalon - Craftsman	A5	Hip	1	1	.lob Reference (optional)	

LEE'S SUMMIT. MISSOURI Run: 8.73 S Apr 3 2024 Print: 8.730 S Apr 3 2024 MiTek Industries, Inc. Wed Apr 24 12: 1330 ID:q5HqtzhfPb1JIXYhfa?Y3kzNWbA-RfC?PsB70Hq3NSgPqnL8w3uITXbGKVrCDoiz

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 165139926

Lees Summit MO, 64082

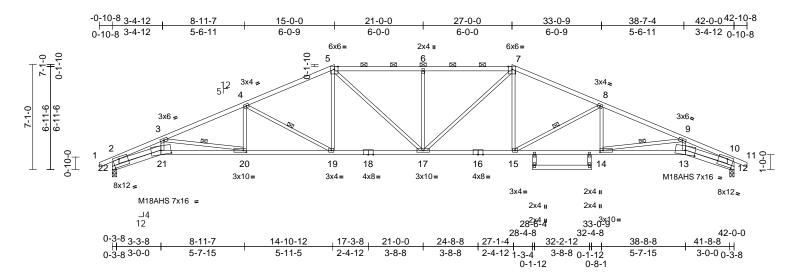


Plate Offsets (X, Y): [12:0-5-0,0-6-4], [13:0-8-0,0-3-7], [14:0-2-8,0-1-8], [20:0-2-8,0-1-8], [21:0-8-0,0-3-7], [22:0-5-0,0-6-4]

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	0.93	Vert(LL)	-0.48	17	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.79	Vert(CT)	-0.87	15-17	>570	240	M18AHS	142/136
BCLL	0.0*	Rep Stress Incr	YES	WB	0.55	Horz(CT)	0.54	12	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.32	17	>999	240	Weight: 168 lb	FT = 10%

LUMBER

TOP CHORD 2x4 SPF No.2

2x4 SPF No.2 *Except* 21-18,16-13:2x4 SPF **BOT CHORD**

2100F 1.8E

2x3 SPF No.2 *Except* 22-2,12-10:2x6 SPF WFBS No.2, 21-2,13-10:2x4 SPF 2100F 1.8E,

23-25,24-26:2x4 SPF No.2

BRACING

WEBS

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

(2-2-0 max.): 5-7.

BOT CHORD Rigid ceiling directly applied or 9-6-15 oc

bracing.

1 Row at midpt 3-20, 4-19, 8-15, 9-14

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

Max Horiz 22=-94 (LC 9)

Max Uplift 12=-213 (LC 9), 22=-213 (LC 8)

Max Grav 12=1947 (LC 1), 22=1947 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

1-2=0/30, 2-3=-6154/685, 3-4=-4412/463, TOP CHORD

4-5=-3482/436, 5-6=-3479/486,

6-7=-3479/486, 2-22=-1982/263

10-12=-1982/232, 7-8=-3482/436

8-9=-4412/463, 9-10=-6154/580, 10-11=0/30 **BOT CHORD** 21-22=-138/430, 20-21=-680/5526,

19-20=-363/4040, 17-19=-238/3132 15-17=-238/3132, 14-15=-337/4040,

13-14=-495/5526, 12-13=-37/430

WEBS 3-21=-49/761, 3-20=-1507/322, 4-20=0/431,

4-19=-1023/261, 5-19=-53/611,

5-17=-105/670, 6-17=-537/205,

7-17=-105/670, 7-15=-46/611, 8-15=-1023/246, 8-14=0/431,

9-14=-1507/259, 9-13=-7/761,

2-21=-560/5227, 10-13=-477/5227

NOTES

- Unbalanced roof live loads have been considered for this design
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- All plates are MT20 plates unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom
- chord live load nonconcurrent with any other live loads. * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SPF No.2
- Bearing at joint(s) 22, 12 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 213 lb uplift at joint 22 and 213 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.
- 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



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 Avalon - Craftsman Avalon - Craftsman A6 Hip Job Reference (optiona

Wheeler Lumber, Waverly, KS - 66871.

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 165139927 LEE'S SUMMIT. MISSOURI

Run: 8.73 E Jan 4 2024 Print: 8.730 E Jan 4 2024 MiTek Industries, Inc. Thu Apr 25 14 (1:) 8/ XrroffRM Whightown Dr ID:GNEEB7nAflqmZ7HxHPc7aDzNWYT-QDMUOhwSl4sJ6MO9Wc2GAWVS

Lees Summit MO, 64082

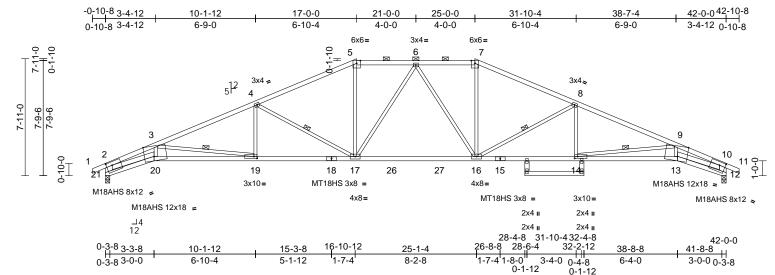


Plate Offsets (X, Y): [12:0-4-12,0-2-12], [13:0-7-12,Edge], [14:0-2-8,0-1-8], [19:0-2-8,0-1-8], [20:0-7-12,Edge], [21:0-4-12,0-2-12]

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	0.63	Vert(LL)	-0.54	16-17	>919	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.83	Vert(CT)	-0.94	16-17	>531	240	MT18HS	197/144
BCLL	0.0*	Rep Stress Incr	YES	WB	0.80	Horz(CT)	0.55	12	n/a	n/a	M18AHS	142/136
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.26	17	>999	240	Weight: 169 lb	FT = 10%

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

No.2

BOT CHORD 2x4 SPF No.2 *Except*

20-18,15-13,18-15:2x4 SPF 2100F 1.8E WEBS 2x3 SPF No.2 *Except* 21-2,12-10:2x6 SPF

No.2, 20-2,13-10:2x4 SPF 2100F 1.8E, 22-24,23-25:2x4 SPF No.2

BRACING

BOT CHORD

TOP CHORD

TOP CHORD Structural wood sheathing directly applied or 2-7-0 oc purlins, except end verticals, and

2-0-0 oc purlins (3-2-11 max.): 5-7. Rigid ceiling directly applied or 10-0-0 oc

bracing, Except:

8-10-6 oc bracing: 19-20.

WFBS 1 Row at midpt 3-19, 4-17, 8-16, 9-14

REACTIONS 12=1947/0-3-8, 21=1947/0-3-8 (lb/size) Max Horiz 21=-109 (LC 13)

Max Uplift 12=-232 (LC 9), 21=-232 (LC 8) 12=2009 (LC 2), 21=2009 (LC 2) Max Grav

FORCES (lb) - Maximum Compression/Maximum

Tension

1-2=0/30, 2-3=-6449/785, 3-4=-4410/447,

4-5=-3373/357, 5-6=-3029/352, 6-7=-3029/352, 2-21=-2049/282

10-12=-2049/246, 7-8=-3373/357 8-9=-4410/415, 9-10=-6449/665, 10-11=0/30

BOT CHORD 20-21=-148/535, 19-20=-790/5784, 18-19=-395/4038, 17-18=-395/4038

17-26=-177/3124, 26-27=-177/3124 16-27=-177/3124, 15-16=-257/4038,

14-15=-257/4038, 13-14=-577/5784

12-13=-31/492

WEBS 3-20=-53/902, 3-19=-1763/399, 4-19=0/508,

4-17=-1139/298, 5-17=-31/1000,

7-16=-31/1000, 8-16=-1139/283, 8-14=0/508,

9-14=-1763/324, 9-13=-5/902,

2-20=-660/5453, 10-13=-552/5453, 6-17=-417/109, 6-16=-417/110

NOTES

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

2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60

Provide adequate drainage to prevent water ponding.

All plates are MT20 plates unless otherwise indicated.

This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.

All bearings are assumed to be SPF No.2 crushing capacity of 425 psi.

Bearing at joint(s) 21, 12 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.

Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 232 lb uplift at joint 21 and 232 lb uplift at joint 12.

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



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



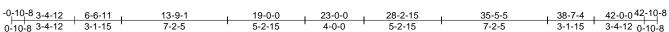
Job Truss Truss Type Qty Ply Avalon - Craftsman Avalon - Craftsman Α7 Hip Job Reference (optional

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.73 S Apr 3 2024 Print: 8.730 S Apr 3 2024 MiTek Industries, Inc. Wed Apr 2412 ID:UqqDauCh0iUc?cPKMLBUYuzNWU2-RfC?PsB70Hq3NSgPqnL8w3uITXt GKWrCL

DEVELOPMENT SERVICES 165139928 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION



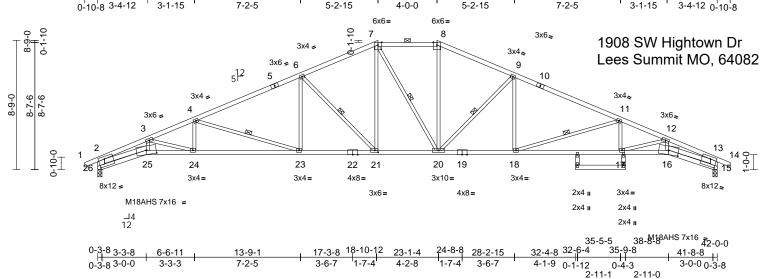


Plate Offsets (X, Y): [15:0-5-0,0-6-0], [16:0-8-0,0-3-7], [21:0-2-8,0-1-8], [25:0-8-0,0-3-7], [26:0-5-0,0-6-0]

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)	-0.44	21	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.80	Vert(CT)	-0.80	21-23	>623	240	M18AHS	142/136
BCLL	0.0*	Rep Stress Incr	YES	WB	0.70	Horz(CT)	0.50	15	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.29	21-23	>999	240	Weight: 176 lb	FT = 10%

LUMBER

TOP CHORD 2x4 SPF No.2

BOT CHORD 2x4 SPF No.2 *Except* 25-22,19-16:2x4 SPF

2100F 1.8E

WFBS 2x3 SPF No.2 *Except* 26-2,15-13:2x6 SPF No.2, 25-2,16-13:2x4 SPF 2100F 1.8E,

27-29,28-17:2x4 SPF No.2

BRACING

TOP CHORD Structural wood sheathing directly applied,

except end verticals, and 2-0-0 oc purlins (3-4-9 max.): 7-8.

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

bracing, Except: 8-8-14 oc bracing: 24-25.

WEBS 1 Row at midpt 7-20, 6-21, 9-20, 4-23,

11-18

REACTIONS 15=0-3-8, 26=0-3-8 (size) Max Horiz 26=-123 (LC 13)

Max Uplift 15=-250 (LC 9), 26=-250 (LC 8)

15=1947 (LC 1), 26=1947 (LC 1) Max Grav

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

Tension

TOP CHORD 1-2=0/30, 2-3=-6023/808, 3-4=-4898/615

4-6=-3668/416, 6-7=-2911/338, 7-8=-2612/320, 8-9=-2913/319, 9-11=-3667/390, 11-12=-4899/556,

12-13=-6023/669, 13-14=0/30, 2-26=-2003/325, 13-15=-2003/285

BOT CHORD 25-26=-209/508, 24-25=-809/5391,

23-24=-612/4532, 21-23=-317/3298 20-21=-135/2609, 18-20=-170/3297,

17-18=-434/4532, 16-17=-564/5391,

15-16=-78/508

WEBS

3-25=-105/714, 7-21=-133/774, 7-20=-244/252, 8-20=-66/775, 12-16=-50/714, 2-25=-628/5010,

13-16=-502/5010, 6-21=-969/258,

9-20=-965/249, 4-24=0/438, 3-24=-896/205, 4-23=-1294/310, 6-23=-14/531, 9-18=-4/528,

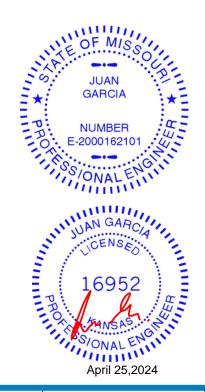
11-18=-1295/277, 11-17=0/438,

12-17=-896/135

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- All plates are MT20 plates unless otherwise indicated.
- All plates are 3x4 MT20 unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SPF No.2
- Bearing at joint(s) 26, 15 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 250 lb uplift at joint 26 and 250 lb uplift at joint 15.
- 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

LOAD CASE(S) Standard



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



 Job
 Truss
 Truss Type
 Qty
 Ply
 Avalon - Craftsman

 Avalon - Craftsman
 B1
 Roof Special
 1
 1
 1
 Job Reference (optional)

RELEASE FOR CONSTRUCTION

AS NOTED FOR PLAN REVIEW

DEVELOPMENT SERVICES
165139929

LEE'S SUMMIT, MISSOURI

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.73 S Apr 3 2024 Print: 8.730 S Apr 3 2024 MiTek Industries, Inc. Wed Apr 2413 13 1 5/26 21 ID:OxhlzhDjOVrVLroOgWhezjzX478-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKV rCDoi7 23 2024 MiTek Industries, Inc. Wed Apr 2413 13 1 5 2 9 2

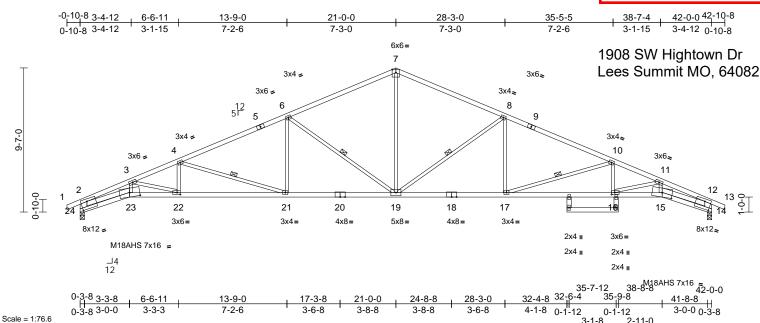


Plate Offsets (X, Y): [14:0-5-0,0-6-0], [15:0-8-0,0-3-7], [16:0-2-8,0-1-8], [22:0-2-8,0-1-8], [23:0-8-0,0-3-7], [24:0-5-0,0-6-0]

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	0.97	Vert(LL)	-0.44	17-19	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.90	Vert(CT)	-0.82	17-19	>608	240	M18AHS	142/136
BCLL	0.0*	Rep Stress Incr	YES	WB	0.87	Horz(CT)	0.51	14	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.30	21	>999	240	Weight: 167 lb	FT = 10%

LUMBER

TOP CHORD 2x4 SPF 2100F 1.8E *Except* 1-5,9-13:2x4

SPF No.2

BOT CHORD 2x4 SPF No.2 *Except* 23-20,18-15:2x4 SPF

2100F 1.8E

WEBS 2x3 SPF No.2 *Except* 24-2,14-12:2x6 SPF

No.2, 23-2,15-12:2x4 SPF 2100F 1.8E,

25-27,26-16:2x4 SPF No.2

BRACING TOP CHORD

CHORD Structural wood sheathing directly applied, except end verticals.

except end vertical
BOT CHORD Rigid ceiling directl

CHORD Rigid ceiling directly applied or 8-4-1 oc

bracing

1 Row at midpt 8-19, 6-19, 4-21, 10-17

WEBS 1 Row a REACTIONS (size)

(size) 14=0-3-8, 24=0-3-8 Max Horiz 24=-139 (LC 9)

Max Holiz 24=-139 (LC 9)

Max Uplift 14=-265 (LC 9), 24=-265 (LC 8)

Max Grav 14=1947 (LC 1), 24=1947 (LC 1) (lb) - Maximum Compression/Maximum

FORCES (lb) - Ma: Tension

TOP CHORD 1-2=0/30, 2-3=-6030/882, 3-4=-4887/664,

4-6=-3682/466, 6-7=-2676/338,

7-8=-2676/356, 8-10=-3682/437, 10-11=-4887/598, 11-12=-6030/725,

12-13=0/30, 2-24=-2001/345,

12-14=-2001/300

BOT CHORD 23-24=-227/503, 22-23=-892/5399

21-22=-672/4518, 19-21=-383/3317

17-19=-217/3317, 16-17=-471/4518, 15-16=-616/5399, 14-15=-79/503

7-19=-126/1520, 8-19=-1170/304,

11-15=-54/716, 6-19=-1170/316, 3-23=-116/716, 2-23=-696/5022,

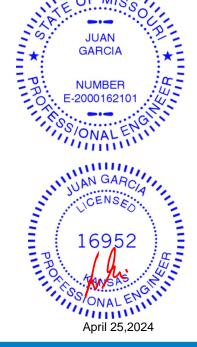
12-15=-554/5022, 4-22=0/431,

3-22=-920/230, 4-21=-1258/303, 6-21=-1/556, 8-17=0/556, 10-17=-1258/266,

10-16=0/431, 11-16=-920/152

- 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
- 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.
- 6) All bearings are assumed to be SPF No.2.
- Bearing at joint(s) 24, 14 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 265 lb uplift at joint 24 and 265 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.

LOAD CASE(S) Standard



NOTES

WEBS

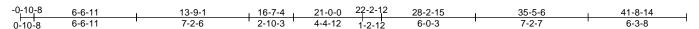
MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE

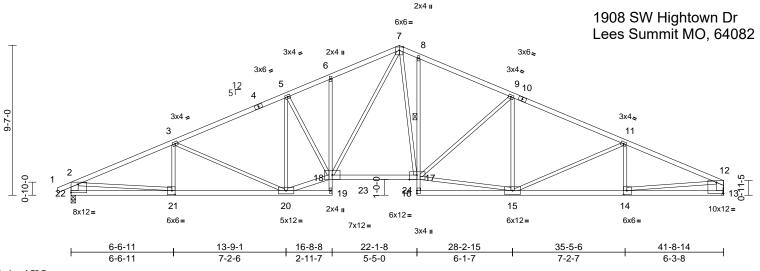


Job Truss Truss Type Qty Ply Avalon - Craftsman Roof Special Avalon - Craftsman B2 Job Reference (optional RELEASE FOR CONSTRUCTION DEVELOPMENT SERVICES 165139930 LEE'S SUMMIT. MISSOURI

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.73 S Apr 3 2024 Print: 8.730 S Apr 3 2024 MiTek Industries, Inc. Wed Apr 2412 ID:s8F8B0EM9ozMz?NbEECtVxzX477-RfC?PsB70Hq3NSgPqnL8w3uITXbG





Scale = 1:73.7

Plate Offsets (X, Y): [13:Edge,0-8-8], [14:0-2-8,0-3-0], [17:0-5-12,Edge], [21:0-2-8,0-3-0], [22:Edge,0-6-8]

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	0.85	Vert(LL)	-0.36	17-18	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.98	Vert(CT)	-0.63	17-18	>788	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.97	Horz(CT)	0.17	13	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.14	17-18	>999	240	Weight: 184 lb	FT = 10%

LUMBER

TOP CHORD 2x4 SPF No.2

BOT CHORD 2x3 SPF No.2 *Except* 22-19:2x4 SPF

2100F 1.8E, 18-17,16-13:2x4 SPF No.2

WFBS 2x3 SPF No.2 *Except* 22-2,13-12:2x6 SPF

No.2, 18-20:2x4 SPF No.2

BRACING

TOP CHORD Structural wood sheathing directly applied,

except end verticals.

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

bracing, Except:

6-0-0 oc bracing: 19-20

2-2-0 oc bracing: 14-15.

1 Row at midpt 8-17

REACTIONS (size) 13= Mechanical, 22=0-3-8

Max Horiz 22=87 (LC 8)

Max Uplift 13=-26 (LC 9), 22=-39 (LC 8)

Max Grav 13=1929 (LC 2), 22=1995 (LC 2)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/30, 2-3=-3598/58, 3-5=-3189/65,

5-6=-3289/82. 6-7=-3268/125. 7-8=-2807/96.

8-9=-2875/63. 9-11=-3162/63.

11-12=-3480/56, 2-22=-1874/71,

12-13=-1818/56

BOT CHORD 21-22=-127/652, 20-21=-86/3251,

19-20=-42/31, 18-19=0/8, 6-18=-166/59 17-18=0/2427, 16-17=0/103, 8-17=-260/91

15-16=-1/88, 14-15=-12/3153, 13-14=-19/367 **WEBS** 5-18=0/294, 7-18=-103/1195, 7-17=-91/1106,

9-17=-475/112, 2-21=0/2618, 12-14=0/2806,

3-21=-135/104, 3-20=-479/87, 5-20=-654/33, 18-20=0/3049, 9-15=-160/83, 11-15=-411/86,

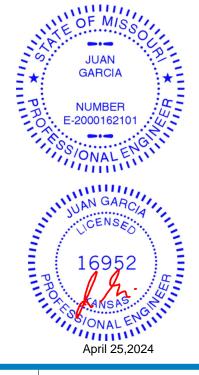
15-17=0/2812, 11-14=-208/84

NOTES

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

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 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 39 lb uplift at joint 22 and 26 lb uplift at joint 13.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

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



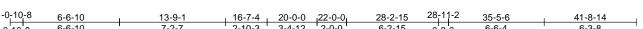
Job Truss Truss Type Qty Ply Avalon - Craftsman Avalon - Craftsman В3 Hip

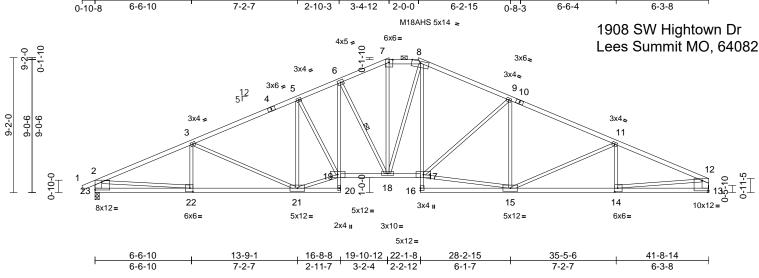
Wheeler Lumber, Waverly, KS - 66871,

Job Reference (optional Run: 8.73 S Apr 3 2024 Print: 8.730 S Apr 3 2024 MiTek Industries, Inc. Wed Apr 2412

ID:1FPIUnMFZBMonijiN1vSSFzX46y-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7

RELEASE FOR CONSTRUCTION DEVELOPMENT SERVICES 165139931 LEE'S SUMMIT. MISSOURI





Scale = 1:78.4

Plate Offsets (X, Y): [13:Edge,0-8-8], [14:0-2-8,0-3-0], [22:0-2-8,0-3-0], [23:Edge,0-6-8]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.86	Vert(LL)	-0.29	18-19	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.88	Vert(CT)	-0.52	18-19	>958	240	M18AHS	142/136
BCLL	0.0*	Rep Stress Incr	YES	WB	0.96	Horz(CT)	0.18	13	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.14	19	>999	240	Weight: 188 lb	FT = 10%

LUMBER

TOP CHORD 2x4 SPF No.2

2x4 SPF No.2 *Except* 20-6,8-16:2x3 SPF BOT CHORD

No.2

WFBS 2x3 SPF No.2 *Except* 23-2,13-12:2x6 SPF

No.2

BRACING

TOP CHORD Structural wood sheathing directly applied,

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

(3-7-7 max.): 7-8.

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

bracing.

WFBS 6-18 1 Row at midpt

REACTIONS (size) 13= Mechanical, 23=0-3-8

Max Horiz 23=82 (LC 8)

Max Uplift 13=-21 (LC 9), 23=-34 (LC 8) Max Grav 13=1857 (LC 1), 23=1936 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD

1-2=0/30, 2-3=-3473/50, 3-5=-3070/55

5-6=-3136/72, 6-7=-2696/59, 7-8=-2467/67,

8-9=-2745/49, 9-11=-3051/53

11-12=-3359/46, 2-23=-1862/67 12-13=-1785/52

BOT CHORD 22-23=-120/600, 21-22=-73/3123,

20-21=-8/110, 19-20=0/14, 6-19=-53/770, 18-19=0/2831, 17-18=0/2439, 16-17=0/104, 8-17=-31/646, 15-16=0/179, 14-15=-3/3030,

13-14=-19/356

WEBS

5-19=-1/288, 9-17=-484/116, 2-22=0/2536, 12-14=0/2694, 6-18=-789/89, 8-18=-165/338,

9-15=-135/106, 11-15=-401/85,

15-17=0/2583, 11-14=-208/83, 3-22=-131/107, 3-21=-477/88, 5-21=-629/32,

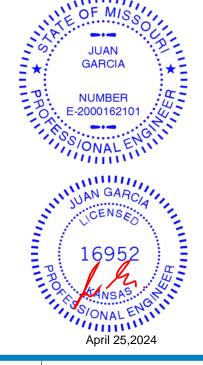
19-21=0/2792, 7-18=-4/795

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); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- All plates are MT20 plates unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SPF No.2
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 34 lb uplift at joint 23 and 21 lb uplift at joint 13.
- 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



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

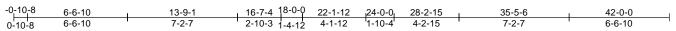


Truss Type Job Truss Qty Ply Avalon - Craftsman Avalon - Craftsman **B**4 Hip Job Reference (optional

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.73 S Apr 3 2024 Print: 8.730 S Apr 3 2024 MiTek Industries, Inc. Wed Apr 24 12 ID:dgk9slKNGG_DwE_7ivMlqdzX47?-RfC?PsB70Hq3NSgPqnL8w3ulTXbGkWrCDoi7

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 165139932 LEE'S SUMMIT. MISSOURI



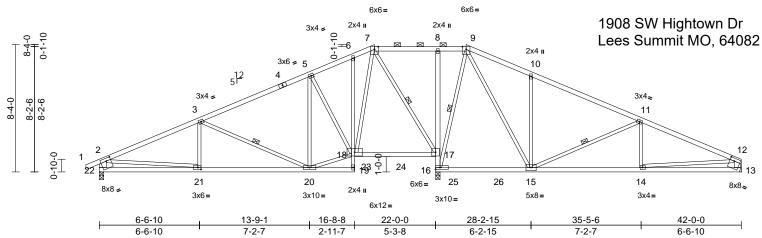


Plate Offsets (X, Y): [13:0-3-8,0-2-4], [21:0-2-8,0-1-8], [22:0-3-8,0-2-4]

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	0.54	Vert(LL)	-0.10	20-21	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.57	Vert(CT)	-0.19	20-21	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.61	Horz(CT)	-0.04	16	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.04	20-21	>999	240	Weight: 186 lb	FT = 10%

LUMBER

TOP CHORD 2x4 SPF No.2

BOT CHORD 2x4 SPF No.2 *Except* 19-6:2x3 SPF No.2 2x3 SPF No.2 *Except* 22-2,13-12:2x6 SPF WEBS

BRACING

TOP CHORD

Structural wood sheathing directly applied or 4-4-5 oc purlins, except end verticals, and 2-0-0 oc purlins (10-0-0 max.): 7-9.

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

bracing, Except:

6-0-0 oc bracing: 19-20,15-16.

WFBS 1 Row at midpt 9-16, 7-17, 11-15, 3-20

REACTIONS (size)

13= Mechanical, 16=0-3-8,

22=0-3-8 Max Horiz 22=72 (LC 10)

Max Uplift 13=-69 (LC 9), 22=-61 (LC 8) Max Grav 13=827 (LC 22), 16=2192 (LC 2),

22=1004 (LC 21)

FORCES (lb) - Maximum Compression/Maximum

TOP CHORD

Tension 1-2=0/30, 2-3=-1535/104, 3-5=-868/117,

5-6=-561/140, 6-7=-472/142, 7-8=0/314, 8-9=0/298, 2-22=-932/93, 12-13=-744/101,

9-10=-595/231, 10-11=-621/163,

11-12=-1306/148

BOT CHORD 21-22=-118/412. 20-21=-114/1353

19-20=-55/4, 18-19=0/7, 6-18=-12/80,

17-18=0/296, 16-17=-1253/17, 8-17=-297/66, 15-16=-96/32, 14-15=-93/1148,

13-14=-29/304

WEBS 5-18=-585/80, 9-16=-858/16, 2-21=0/961,

12-14=-64/848, 7-18=-34/812,

7-17=-1015/28, 10-15=-440/131 11-15=-723/80, 11-14=0/229, 9-15=-91/1073,

3-21=0/228, 3-20=-690/80, 5-20=0/266,

18-20=-20/805

- 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); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 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 61 lb uplift at joint 22 and 69 lb uplift at joint 13.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 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



NOTES

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



Job	Truss	Truss Type	Qty	Ply	Avalon - Craftsman
Avalon - Craftsman	B5	Hip	1	1	Job Reference (optional)

Run: 8.73 S Apr 3 2024 Print: 8.730 S Apr 3 2024 MiTek Industries, Inc. Wed Apr 24 12

S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 165139933 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION

Lees Summit MO, 64082

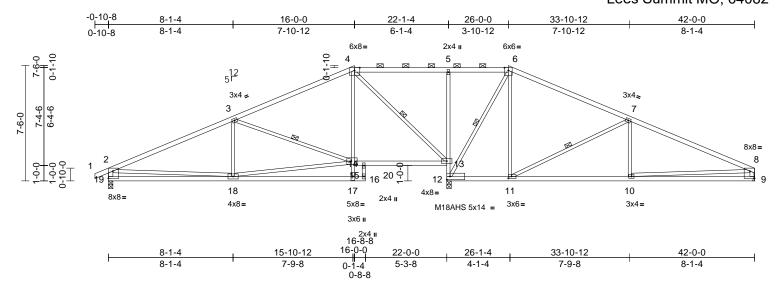


Plate Offsets (X, Y): [4:0-4-2,Edge], [8:Edge,0-5-11], [11:0-2-8,0-1-8], [15:0-4-8,0-2-8], [19:Edge,0-5-11]

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	0.83	Vert(LL)	-0.10	18-19	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.60	Vert(CT)	-0.21	18-19	>999	240	M18AHS	142/136
BCLL	0.0*	Rep Stress Incr	YES	WB	0.82	Horz(CT)	-0.03	12	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.03	17-18	>999	240	Weight: 170 lb	FT = 10%

LUMBER

TOP CHORD 2x4 SPF No.2

2x4 SPF No.2 *Except* 16-14,5-12:2x3 SPF **BOT CHORD**

No.2

WFBS 2x3 SPF No.2 *Except* 19-2:2x4 SPF 2100F

1.8E, 9-8:2x4 SPF No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or

3-7-11 oc purlins, except end verticals, and 2-0-0 oc purlins (10-0-0 max.): 4-6.

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

bracing.

WFBS 4-13, 6-12, 7-11, 3-15 1 Row at midpt

REACTIONS (size) 9= Mechanical, 12=0-3-8, 19=0-3-8

Max Horiz 19=65 (LC 8)

Max Uplift 9=-66 (LC 9), 19=-58 (LC 8) Max Grav 9=842 (LC 22), 12=2128 (LC 2),

19=1021 (LC 21) **FORCES** (lb) - Maximum Compression/Maximum

Tension

4-5=0/276, 5-6=0/273, 6-7=-438/157, TOP CHORD

7-8=-1290/147, 2-19=-927/101,

8-9=-754/108, 1-2=0/27, 2-3=-1532/105,

3-4=-769/107

BOT CHORD 18-19=-142/621, 17-18=-7/113,

16-17=-20/81, 14-16=-249/0, 14-15=0/580, 13-14=0/626, 12-13=-1265/30, 5-13=-395/92,

11-12=0/286, 10-11=-80/1112, 9-10=-41/443 4-13=-1176/0, 6-12=-975/0, 6-11=0/666,

7-11=-928/103, 7-10=0/311, 2-18=0/723 8-10=-39/676, 3-18=-40/202, 3-15=-764/104, 15-17=0/447, 4-15=0/708, 15-18=-88/1246

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); 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 5)
- chord live load nonconcurrent with any other live loads. * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 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 58 lb uplift at joint 19 and 66 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





Job	Truss	Truss Type	Qty	Ply	Avalon - Craftsman
Avalon - Craftsman	B6	Hip	1	1	Job Reference (optional)

Run: 8.73 S Apr 3 2024 Print: 8.730 S Apr 3 2024 MiTek Industries, Inc. Wed Apr 24 12: 11

ID:hHcPR4I6kekWhwrkaUJHlCzX471-RfC?PsB70Hq3NSgPqnL8w3ulTXbGkWrCDoi7342327

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 165139934 LEE'S SUMMIT. MISSOURI

1908 SW Hightown Dr Lees Summit MO, 64082

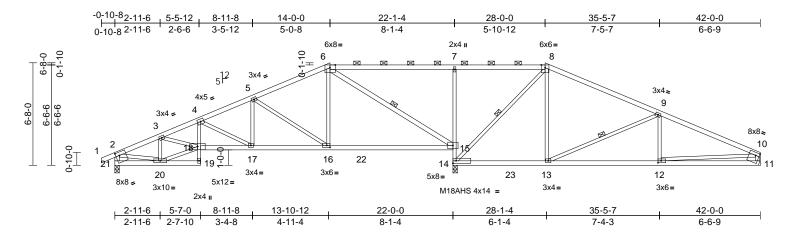


Plate Offsets (X, Y): [6:0-4-2,Edge], [10:0-2-12,0-2-4], [12:0-2-8,0-1-8], [16:0-2-8,0-1-8], [21:0-2-12,0-2-8]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.85	Vert(LL)	-0.14	15-16	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.73	Vert(CT)	-0.26	15-16	>995	240	M18AHS	142/136
BCLL	0.0*	Rep Stress Incr	YES	WB	0.70	Horz(CT)	0.03	11	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.05	17-18	>999	240	Weight: 165 lb	FT = 10%

LUMBER

TOP CHORD 2x4 SPF No.2

BOT CHORD 2x4 SPF No.2 *Except* 19-4,7-14:2x3 SPF

No.2

WFBS 2x3 SPF No.2 *Except* 15-6,21-2,11-10:2x4

SPF No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or

3-9-15 oc purlins, except end verticals, and 2-0-0 oc purlins (9-10-3 max.): 6-8.

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

bracing.

WFBS 1 Row at midpt 6-15, 8-14, 9-13

REACTIONS (size) 11= Mechanical, 14=0-3-8,

21=0-3-8 Max Horiz 21=56 (LC 8)

Max Uplift 11=-58 (LC 9), 21=-50 (LC 8)

11=849 (LC 22), 14=2138 (LC 2), Max Grav

21=1015 (LC 21)

FORCES (lb) - Maximum Compression/Maximum

Tension TOP CHORD

1-2=0/27, 2-3=-1444/69, 3-4=-2238/135,

4-5=-1654/118, 5-6=-1009/89, 6-7=0/269

7-8=0/268, 8-9=-642/132, 9-10=-1374/129, 2-21=-946/64. 10-11=-763/90

BOT CHORD 20-21=-62/205, 19-20=-8/81, 18-19=0/61,

4-18=0/364. 17-18=-120/2066.

16-17=-72/1507, 15-16=0/874, 14-15=-1324/65, 7-15=-579/135

13-14=0/501, 12-13=-76/1213, 11-12=-24/306

WEBS 5-16=-742/100, 6-16=0/702, 6-15=-1295/0,

8-14=-1018/0, 8-13=0/617, 9-13=-771/97, 9-12=0/235, 10-12=-53/911, 5-17=0/418,

4-17=-630/55, 3-20=-676/79, 3-18=-31/786,

18-20=-90/1304, 2-20=-31/1133

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); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- All plates are MT20 plates unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom
- chord live load nonconcurrent with any other live loads. * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- All bearings are assumed to be SPF No.2
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 50 lb uplift at joint 21 and 58 lb uplift at joint 11.
- 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





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

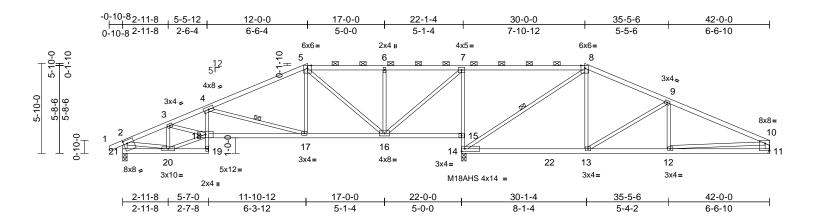


Job	Truss	Truss Type	Qty	Ply	Avalon - Craftsman
Avalon - Craftsman	B7	Hip	1	1	Job Reference (optional)

LEE'S SUMMIT. MISSOURI Run: 8.73 S Apr 3 2024 Print: 8.730 S Apr 3 2024 MiTek Industries, Inc. Wed Apr 2 12: 13: 13: 10:D520EkHUzLcf3mGY0no2C_zX472-RfC?PsB70Hq3NSgPqnL8w3ulTXbC_xWrCDo7d4x-07f

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 165139935

1908 SW Hightown Dr Lees Summit MO, 64082



Scale = 1:74.8

Plate Offsets (X, Y): [10:Edge,0-5-11], [21:0-2-12,0-2-8]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.82	Vert(LL)	-0.15	13-14	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.83	Vert(CT)	-0.29	13-14	>804	240	M18AHS	142/136
BCLL	0.0*	Rep Stress Incr	YES	WB	0.92	Horz(CT)	0.03	11	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.05	17-18	>999	240	Weight: 160 lb	FT = 10%

LUMBER

TOP CHORD 2x4 SPF No.2

2x4 SPF No.2 *Except* 19-4,7-14:2x3 SPF **BOT CHORD**

No.2

WFBS 2x3 SPF No.2 *Except* 21-2,11-10:2x4 SPF

No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or

3-7-5 oc purlins, except end verticals, and 2-0-0 oc purlins (5-10-6 max.): 5-8.

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

bracing, Except:

6-0-0 oc bracing: 15-16. 1 Row at midpt 4-17, 8-14

WEBS 11= Mechanical, 14=0-3-8,

REACTIONS (size)

21=0-3-8

Max Horiz 21=47 (LC 8)

Max Uplift 11=-36 (LC 9), 14=-43 (LC 5),

21=-33 (LC 8)

Max Grav 11=882 (LC 22), 14=2053 (LC 2),

21=1031 (LC 21)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/27, 2-3=-1460/32, 3-4=-2347/88,

4-5=-1348/42, 5-6=-759/73, 6-7=-757/71, 7-8=0/165, 8-9=-914/81, 9-10=-1395/81,

2-21=-960/47, 10-11=-770/73

20-21=-57/217, 19-20=-22/80, 18-19=0/59, 4-18=0/387, 17-18=-85/2227, 16-17=0/1167, BOT CHORD

15-16=-178/34, 14-15=-1349/98, 7-15=-1284/125, 13-14=0/778,

12-13=-30/1226, 11-12=-24/372 WEBS 4-17=-1088/128, 5-17=0/529, 5-16=-556/27,

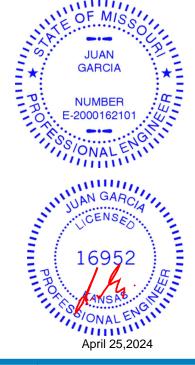
7-16=-2/1182, 8-14=-1076/0, 8-13=0/578, 9-13=-524/86, 9-12=0/164, 10-12=-6/858,

3-20=-672/48, 3-18=-31/903

18-20=-29/1332, 2-20=0/1124, 6-16=-326/75

- 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); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- All plates are MT20 plates unless otherwise indicated. 4)
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- All bearings are assumed to be SPF No.2
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 33 lb uplift at joint 21, 43 lb uplift at joint 14 and 36 lb uplift at joint 11.
- 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



NOTES

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



Job	Truss	Truss Type	Qty	Ply	Avalon - Craftsman
Avalon - Craftsman	B8	Hip	1	1	Job Reference (optional)

Run: 8.73 S Apr 3 2024 Print: 8.730 S Apr 3 2024 MiTek Industries, Inc. Wed Apr 2413: 113

14

4x8=

32-1-4

5-0-0

13

3x4=

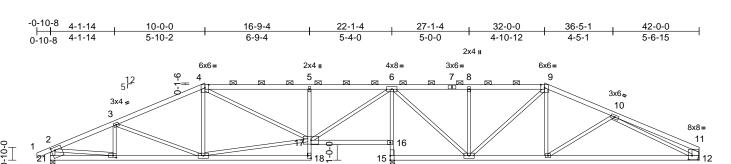
RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 165139936 LEE'S SUMMIT. MISSOURI

ID:IvUe0OHsC1UoRdhMT3HpgnzX473-RfC?PsB70Hq3NSgPqnL8w3uITXb(KWrCDo77J4250?f

1908 SW Hightown Dr Lees Summit MO, 64082

42-0-0

9-10-12



3x4=

MT18HS 3x8 II

27-1-4

5-1-4

Scale = 1:74.6

4-10-10

Plate Offsets (X, Y): [11:0-2-12,0-3-0], [18:Edge,0-2-8], [20:0-2-8,0-1-8], [21:0-2-12,0-2-4]

9-10-12

5-8-14

20

3x6=

8x8 -

4-1-14

4-1-14

19

4x8=

16-10-8

6-11-12

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	0.56	Vert(LL)	-0.22	12-13	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.71	Vert(CT)	-0.45	12-13	>519	240	MT18HS	197/144
BCLL	0.0*	Rep Stress Incr	YES	WB	0.80	Horz(CT)	-0.01	15	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.03	19-20	>999	240	Weight: 163 lb	FT = 10%

LUMBER

TOP CHORD 2x4 SPF No.2

2x4 SPF No.2 *Except* 18-5,6-15:2x3 SPF **BOT CHORD**

No.2

WFBS 2x3 SPF No.2 *Except* 21-2:2x4 SPF 2400F

2.0E, 12-11:2x6 SPF No.2

BRACING TOP CHORD

Structural wood sheathing directly applied or

4-4-1 oc purlins, except end verticals, and

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

Rigid ceiling directly applied or 10-0-0 oc

bracing, Except: 6-0-0 oc bracing: 16-17,14-15.

REACTIONS (size) 12= Mechanical, 15=0-3-8,

21=0-3-8

Max Horiz 21=39 (LC 10) Max Uplift 12=-27 (LC 9), 15=-51 (LC 5),

21=-27 (LC 8)

12=848 (LC 20), 15=1952 (LC 1), Max Grav

21=1027 (LC 19)

FORCES (lb) - Maximum Compression/Maximum

Tension TOP CHORD

1-2=0/27, 2-3=-1596/41, 3-4=-1298/59,

4-5=-1013/109, 5-6=-1007/104, 6-8=-636/92,

8-9=-638/93, 9-10=-1044/51, 10-11=-441/0,

2-21=-976/47, 11-12=-319/34 **BOT CHORD**

20-21=-36/204, 19-20=-44/1427, 18-19=0/80, 17-18=0/123, 5-17=-472/110, 16-17=-161/15,

15-16=-1911/81, 6-16=-1836/112, 14-15=-148/12. 13-14=0/899. 12-13=-52/1155

WEBS 3-19=-320/85, 4-19=0/255, 17-19=0/1059,

> 4-17=-143/29, 6-17=-39/1388, 9-14=-370/0, 9-13=0/380, 2-20=-8/1236, 10-12=-918/101, 8-14=-369/87, 6-14=-16/1042, 3-20=-107/60,

10-13=-295/120

NOTES

Unbalanced roof live loads have been considered for

3x4 II

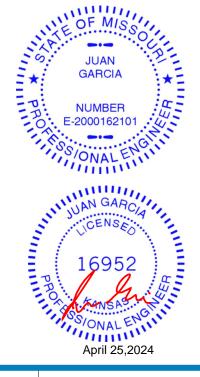
6x12=

22-0-0

5-1-8

- 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); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- All plates are MT20 plates unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom
- chord live load nonconcurrent with any other live loads. * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SPF No.2
- 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 21, 51 lb uplift at joint 15 and 27 lb uplift at joint 12.
- 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





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 Avalon - Craftsman Avalon - Craftsman C1 Common Supported Gable Job Reference (optional

S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 165139937 LEE'S SUMMIT. MISSOURI

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.73 S Apr 3 2024 Print: 8.730 S Apr 3 2024 MiTek Industries, Inc. Wed Apr 2412 ID:zEtypsiqUj_OeJcDyUWIEozX4oP-RfC?PsB70Hq3NSgPqnL8w3uITXbGK1

RELEASE FOR CONSTRUCTION

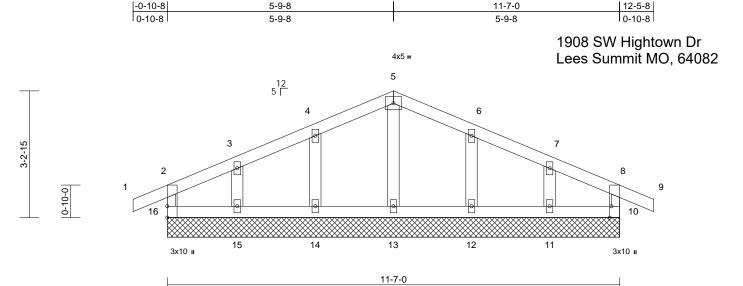


Plate Offsets (X, Y): [10:0-3-8,Edge]

Loading	(psf)	Spacing	2-0-0	csı		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.06	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	0.02	Horz(CT)	0.00	10	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R							Weight: 40 lb	FT = 10%

LUMBER

Scale = 1:29.5

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

BRACING

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

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

bracing.

REACTIONS (size) 10=11-7-0, 11=11-7-0, 12=11-7-0,

13=11-7-0, 14=11-7-0, 15=11-7-0, 16=11-7-0

Max Horiz 16=-30 (LC 9)

Max Uplift 10=-43 (LC 5), 11=-51 (LC 9), 12=-51 (LC 9), 14=-51 (LC 8),

15=-53 (LC 8), 16=-43 (LC 4)

10=149 (LC 22), 11=156 (LC 1),

12=197 (LC 22), 13=169 (LC 1),

14=197 (LC 21), 15=156 (LC 1),

16=149 (LC 21)

FORCES (lb) - Maximum Compression/Maximum

Tension

Max Grav

TOP CHORD 2-16=-134/53, 1-2=0/26, 2-3=-29/42,

3-4=-21/57, 4-5=-28/78, 5-6=-28/74,

6-7=-21/53 7-8=-26/39 8-9=0/26

8-10=-134/52

BOT CHORD 15-16=-10/25, 14-15=-10/25, 13-14=-10/25, 12-13=-10/25, 11-12=-10/25, 10-11=-10/25

WEBS 5-13=-129/0. 4-14=-156/76. 3-15=-117/70.

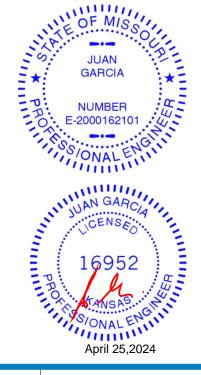
6-12=-156/77, 7-11=-117/69

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.
- Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 10) All bearings are assumed to be SPF No.2.
- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 43 lb uplift at joint 16, 43 lb uplift at joint 10, 51 lb uplift at joint 14, 53 lb uplift at joint 15, 51 lb uplift at joint 12 and 51 lb uplift at
- 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.

LOAD CASE(S) Standard





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



Job Truss Truss Type Qty Ply Avalon - Craftsman Avalon - Craftsman C2 Common Structural Gable Job Reference (optional

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.73 S Apr 3 2024 Print: 8.730 S Apr 3 2024 MiTek Industries, Inc. Wed Apr 2412 ID:zEtypsiqUj_OeJcDyUWIEozX4oP-RfC?PsB70Hq3NSgPqnL8w3uITXbGK

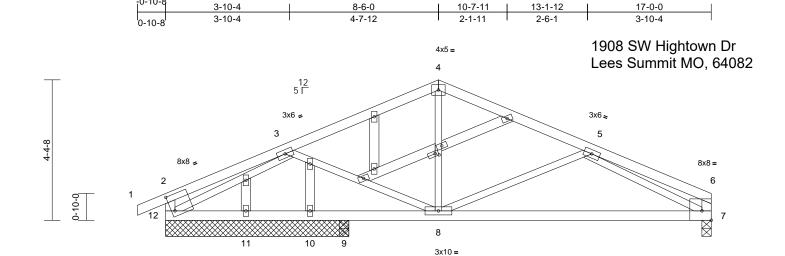
17-0-0

8-6-0

LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION

DEVELOPMENT SERVICES 165139938



Scale = 1:35.9

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.29	Vert(LL)	-0.13	7-8	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.53	Vert(CT)	-0.26	7-8	>514	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.43	Horz(CT)	0.03	7	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.03	7-8	>999	240	Weight: 71 lb	FT = 10%

8-6-0

2-11-4

LUMBER

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

2x3 SPF No.2 *Except* 12-2,7-6,13-14,14-15:2x4 SPF No.2

OTHERS 2x4 SPF No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or

5-9-4 oc purlins, except end verticals.

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

bracing

REACTIONS (size) 7=0-3-8, 9=0-3-8, 10=5-8-8, 11=5-8-8, 12=5-8-8

12=56 (LC 12) Max Horiz

7=-99 (LC 9), 9=-44 (LC 8), 10=-33 Max Uplift (LC 1), 12=-150 (LC 8)

7=722 (LC 1), 9=91 (LC 1), 10=72 Max Grav (LC 3), 11=94 (LC 3), 12=745 (LC

FORCES (lb) - Maximum Compression/Maximum

TOP CHORD

1-2=0/27, 2-3=-179/62, 3-4=-876/124, 4-5=-877/122, 5-6=-289/0, 2-12=-244/86,

6-7=-200/35

BOT CHORD 11-12=-207/936. 10-11=-207/936.

9-10=-207/936, 8-9=-207/936, 7-8=-161/971 WEBS 4-8=0/326, 5-8=-292/181, 3-8=-257/188,

3-12=-944/154, 5-7=-865/216

NOTES

- Unbalanced roof live loads have been considered for 1) this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60

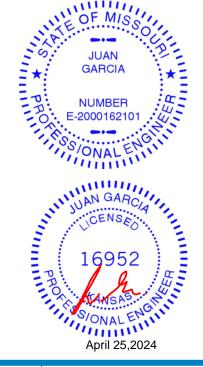
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- All plates are 2x4 MT20 unless otherwise indicated.
- Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- Gable studs spaced at 2-0-0 oc.

5-6-12

5-6-12

- 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 150 lb uplift at joint 12, 99 lb uplift at joint 7, 33 lb uplift at joint 10 and 44 lb uplift at joint 9.
- 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



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 Avalon - Craftsman Avalon - Craftsman C3 Common Job Reference (optional

RELEASE FOR CONSTRUCTION DEVELOPMENT SERVICES 165139939 LEE'S SUMMIT. MISSOURI

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.73 S Apr 3 2024 Print: 8.730 S Apr 3 2024 MiTek Industries, Inc. Wed Apr 2412 ID:w0foK9PmdPsEGJ1Tct_Oc5zX46u-RfC?PsB70Hq3NSgPqnL8w3ulTXbG (WrCDoixe

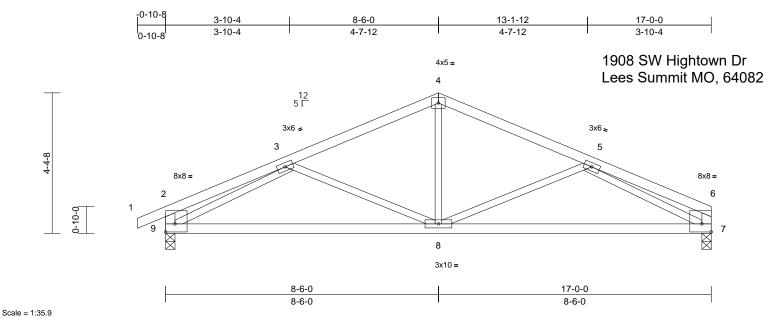


Plate Offsets (X, Y): [2:Edge,0-3-0], [6:Edge,0-3-0]

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	0.29	Vert(LL)	-0.10	8-9	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.61	Vert(CT)	-0.20	8-9	>978	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.44	Horz(CT)	0.03	7	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.02	8	>999	240	Weight: 60 lb	FT = 10%

LUMBER

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

2x3 SPF No.2 *Except* 9-2,7-6:2x4 SPF No.2 WEBS

BRACING

TOP CHORD Structural wood sheathing directly applied or

5-6-4 oc purlins, except end verticals. **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc

bracing

REACTIONS (size) 7=0-3-8, 9=0-3-8

Max Horiz 9=56 (LC 8)

Max Uplift 7=-95 (LC 9), 9=-119 (LC 8) Max Grav 7=750 (LC 1), 9=826 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/27, 2-3=-275/17, 3-4=-955/112,

4-5=-955/112, 5-6=-262/5, 2-9=-282/69,

6-7=-193/37

BOT CHORD 8-9=-191/1012. 7-8=-154/1026

WFBS 4-8=0/393, 5-8=-276/185, 3-8=-261/181,

3-9=-928/185, 5-7=-953/200

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
- 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 119 lb uplift at joint 9 and 95 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





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 Avalon - Craftsman Avalon - Craftsman D1 Common Supported Gable Job Reference (optional

DEVELOPMENT SERVICES 165139940 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.73 S Apr 3 2024 Print: 8.730 S Apr 3 2024 MiTek Industries, Inc. Wed Apr 2412 ID:zEtypsiqUj_OeJcDyUWIEozX4oP-RfC?PsB70Hq3NSgPqnL8w3uITXbGK1

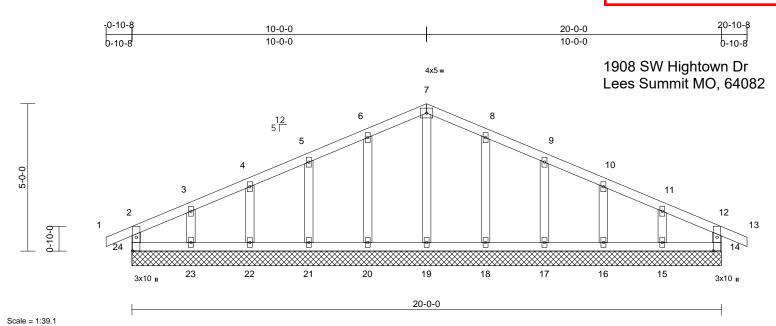


Plate Offsets (X, Y): [14:0-5-8,0-1-8], [24:0-5-8,0-1-8]

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	0.07	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	0.05	Horz(CT)	0.00	14	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R							Weight: 77 lb	FT = 10%

LUMBER TOP CHORD 2x4 SPF No.2

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

BRACING

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

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

bracing.

REACTIONS (size) 14=20-0-0, 15=20-0-0, 16=20-0-0, 17=20-0-0, 18=20-0-0, 19=20-0-0, 20=20-0-0, 21=20-0-0, 22=20-0-0,

23=20-0-0, 24=20-0-0

Max Horiz 24=-60 (LC 9)

Max Uplift 14=-33 (LC 5), 15=-66 (LC 9), 16=-44 (LC 9), 17=-49 (LC 9),

18=-50 (LC 9), 20=-50 (LC 8), 21=-49 (LC 8), 22=-42 (LC 8), 23=-72 (LC 8), 24=-34 (LC 4)

20=191 (LC 21), 21=177 (LC 1),

Max Grav 14=160 (LC 22), 15=166 (LC 1), 16=184 (LC 22), 17=177 (LC 1), 18=191 (LC 22), 19=169 (LC 1),

> 22=184 (LC 21), 23=166 (LC 1), 24=160 (LC 21)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 2-24=-142/45, 1-2=0/27, 2-3=-57/52, 3-4=-34/65, 4-5=-26/87, 5-6=-25/108,

> 6-7=-29/128, 7-8=-29/122, 8-9=-25/95 9-10=-26/74, 10-11=-24/53, 11-12=-46/41, 12-13=0/27, 12-14=-142/45

BOT CHORD 23-24=-12/50, 22-23=-12/50, 21-22=-12/50,

20-21=-12/50, 19-20=-12/50, 18-19=-12/50, 17-18=-12/50, 16-17=-12/50, 15-16=-12/50,

14-15=-12/50

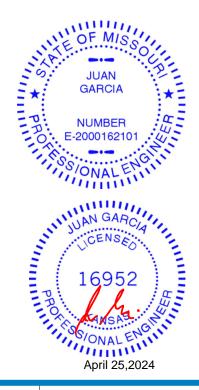
WEBS

7-19=-129/0, 6-20=-151/74, 5-21=-137/72, 4-22=-144/69, 3-23=-126/84, 8-18=-151/74 9-17=-137/72, 10-16=-144/70, 11-15=-126/81

NOTES

- Unbalanced roof live loads have been considered for
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable or consult qualified building designer as per ANSI/TPI 1.
- All plates are 2x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 10) All bearings are assumed to be SPF No.2.
- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 34 lb uplift at joint 24, 33 lb uplift at joint 14, 50 lb uplift at joint 20, 49 lb uplift at joint 21, 42 lb uplift at joint 22, 72 lb uplift at joint 23, 50 lb uplift at joint 18, 49 lb uplift at joint 17, 44 lb uplift at joint 16 and 66 lb uplift at joint 15.
- 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.

LOAD CASE(S) Standard



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



Truss Type Job Truss Qty Ply Avalon - Craftsman Avalon - Craftsman D2 Common 5 Job Reference (optional S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 165139941 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.73 S Apr 3 2024 Print: 8.730 S Apr 3 2024 MiTek Industries, Inc. Wed Apr 2412 ID:RQRL1CjSF16FGTBPWB1Xn?zX4oO-RfC?PsB70Hq3NSgPqnL8w3uITXIGKWrCD

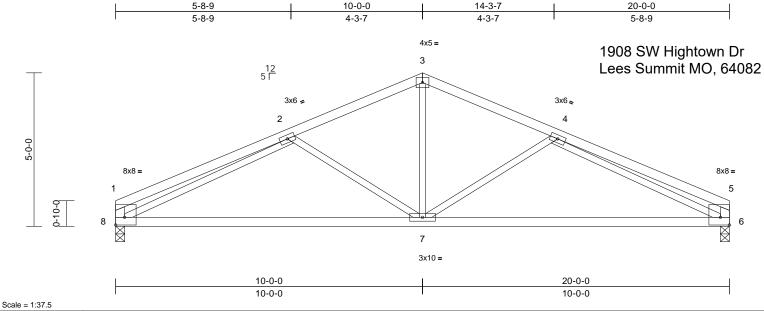


Plate Offsets (X, Y): [1:Edge,0-3-0], [5:Edge,0-3-0]

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	0.30	Vert(LL)	-0.19	6-7	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.85	Vert(CT)	-0.38	6-7	>615	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.97	Horz(CT)	0.04	6	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.03	7	>999	240	Weight: 70 lb	FT = 10%

LUMBER

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

2x3 SPF No.2 *Except* 8-1,6-5:2x4 SPF No.2 WEBS

BRACING

TOP CHORD Structural wood sheathing directly applied or

5-3-11 oc purlins, except end verticals.

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

bracing

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

Max Horiz 8=-52 (LC 9)

Max Uplift 6=-113 (LC 9), 8=-113 (LC 8) Max Grav 6=887 (LC 1), 8=887 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension 1-2=-457/63, 2-3=-1132/133, 3-4=-1132/133,

4-5=-457/63, 1-8=-332/91, 5-6=-332/91

BOT CHORD 7-8=-203/1244 6-7=-151/1244 **WEBS** 3-7=-18/552, 4-7=-348/209, 2-7=-348/209,

2-8=-1001/156, 4-6=-1001/157

NOTES

TOP CHORD

- 1) Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 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 113 lb uplift at joint 8 and 113 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





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 Qty Ply Job Truss Avalon - Craftsman Avalon - Craftsman E1 3 Monopitch Job Reference (optiona

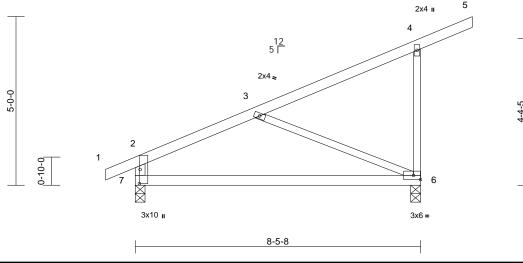
Wheeler Lumber, Waverly, KS - 66871,

Run: 8.73 S Apr 3 2024 Print: 8.730 S Apr 3 2024 MiTek Industries, Inc. Wed Apr 24 12 ID:KKpWOME_w65Da9ynnxk628zX476-RfC?PsB70Hq3NSgPqnL8w3uITXb sKWrCDoi7J4zJC?f

RELEASE FOR CONSTRUCTION DEVELOPMENT SERVICES 165139942 LEE'S SUMMIT. MISSOURI



1908 SW Hightown Dr Lees Summit MO, 64082



Scale = 1:34.2 Plate Offsets (X, Y): [7:0-5-0,0-0-4]

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	0.32	Vert(LL)	-0.17	6-7	>569	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.56	Vert(CT)	-0.34	6-7	>291	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.23	Horz(CT)	0.00	6	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	-0.01	6-7	>999	240	Weight: 31 lb	FT = 10%

LOAD CASE(S) Standard

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) 6=0-3-8, 7=0-3-8

Max Horiz 7=209 (LC 5)

Max Uplift 6=-142 (LC 8), 7=-57 (LC 8) Max Grav 6=491 (LC 1), 7=434 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

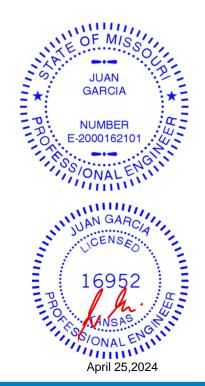
TOP CHORD 1-2=0/27, 2-3=-413/84, 3-4=-136/54,

4-5=-44/0, 4-6=-287/123, 2-7=-343/107 6-7=-131/334

BOT CHORD WFBS 3-6=-346/178

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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 142 lb uplift at joint 6 and 57 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.





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 Avalon - Craftsman 2 Avalon - Craftsman G1 Hip Girder Job Reference (optional

DEVELOPMENT SERVICES 165139943 LEE'S SUMMIT. MISSOURI

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.73 S Apr 3 2024 Print: 8.730 S Apr 3 2024 MiTek Industries, Inc. Wed Apr 24 12:11 ID:oouJAWSGgeNgkwKErj2KnxzX46q-RfC?PsB70Hq3NSgPqnL8w3ulTXbGkWrCDol7423C*

1908 SW Hightown Dr Lees Summit MO, 64082

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW

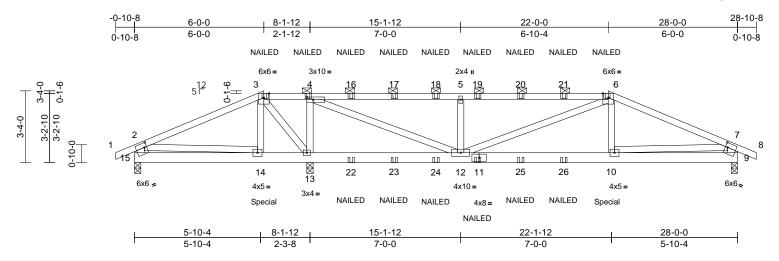


Plate Offsets (X, Y): [4:0-3-8,0-1-8], [9:0-1-4,0-2-8], [15:0-1-4,0-2-8]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.62	Vert(LL)	-0.06	10-12	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.33	Vert(CT)	-0.12	10-12	>999	240		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.44	Horz(CT)	0.01	9	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.05	10-12	>999	240	Weight: 260 lb	FT = 10%

LUMBER

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

2x4 SPF No.2 *Except* 15-2,9-7:2x6 SPF 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.): 3-6. Rigid ceiling directly applied or 6-0-0 oc

bracing

BOT CHORD

REACTIONS 9=0-3-8, 13=0-3-8, 15=0-3-8 (size)

Max Horiz 15=31 (LC 8)

Max Uplift 9=-303 (LC 9), 13=-659 (LC 4),

15=-225 (LC 27)

9=1465 (LC 1), 13=3211 (LC 1), Max Grav

15=110 (LC 19)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/30, 2-3=-145/715, 3-4=-232/1269,

4-5=-2065/489, 5-6=-2069/491,

6-7=-2566/537, 7-8=0/30, 2-15=-79/262,

7-9=-1392/322

14-15=-184/257, 13-14=-671/178, BOT CHORD

> 12-13=-1272/315, 10-12=-443/2279, 9-10=-186/627

WFBS 3-14=-75/457, 6-10=0/503, 2-14=-817/232,

7-10=-332/1760, 4-13=-1988/543, 3-13=-1144/255, 6-12=-236/88,

5-12=-985/472, 4-12=-781/3595

NOTES

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

Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc, 2x6 - 2 rows staggered at 0-9-0 oc. Bottom chords connected as follows: 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.
- 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 225 lb uplift at joint 15, 303 lb uplift at joint 9 and 659 lb uplift at joint 13.
- 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.
- 12) "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidlines.
- 13) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 419 lb down and 91 lb up at 6-0-0, and 419 lb down and 91 lb up at 21-11-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15 MILLIN Uniform Loads (lb/ft) Vert: 1-2=-70, 2-3=-70, 3-6=-70√6-72-70, 7-8=-70, 9-15=-20 Concentrated Loads (lb) (B), 10=-419 (B), 6=-112 (B), 14=752 (B), 14=419 (B), 10=-419 (B), 4=-38 (B), 16=-112 (B), 17=-112 (B), 18=-112 (B), 19=-112 (B), 20=-112 (B), 21=11 (B), 22=-52 (B), 23=-52 (B), 24=-52 (B), 25= 26=-52 (B) NUMBER D 0 SO/ONAL



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	Avalon - Craftsman
Avalon - Craftsman	G2	Hip	1	1	Job Reference (optional)

Run: 8.73 S Apr 3 2024 Print: 8.730 S Apr 3 2024 MiTek Industries, Inc. Wed Apr 24 12

ID:sPmZlqR0916yVdAsjl0siWzX46s-RfC?PsB70Hq3NSgPqnL8w3uITXbGKV

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 165139944 LEE'S SUMMIT. MISSOURI

1908 SW Hightown Dr Lees Summit MO, 64082

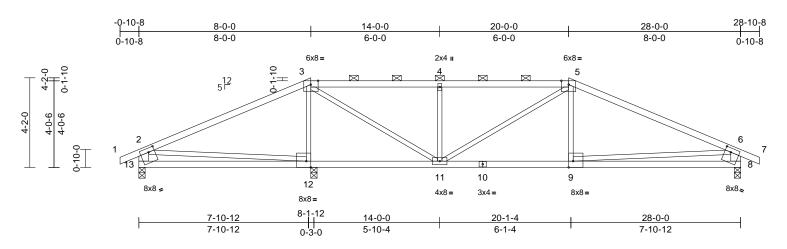


Plate Offsets (X, Y): [3:0-4-2,Edge], [5:0-4-2,Edge], [8:0-3-4,0-2-4], [9:0-2-8,Edge], [12:0-2-8,Edge], [13:0-3-4,0-2-4]

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	0.80	Vert(LL)	-0.09	8-9	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.47	Vert(CT)	-0.18	8-9	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.98	Horz(CT)	0.03	8	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.04	9-11	>999	240	Weight: 101 lb	FT = 10%

LUMBER

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

2x3 SPF No.2 *Except* 13-2,8-6:2x6 SPF WEBS

BRACING TOP CHORD

Structural wood sheathing directly applied or 3-7-0 oc purlins, except end verticals, and

2-0-0 oc purlins (5-6-1 max.): 3-5.

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

bracing, Except:

6-0-0 oc bracing: 11-12.

REACTIONS 8=0-3-8, 12=0-3-8, 13=0-3-8

Max Horiz 13=-43 (LC 13)

Max Uplift 8=-134 (LC 9), 12=-153 (LC 4), 13=-134 (LC 8)

Max Grav 8=944 (LC 1), 12=1339 (LC 1),

13=359 (LC 21)

FORCES (lb) - Maximum Compression/Maximum

Tension TOP CHORD

1-2=0/30, 2-3=-36/258, 3-4=-967/238,

4-5=-967/238, 5-6=-1316/193, 6-7=0/30,

2-13=-295/178, 6-8=-872/179

12-13=-287/590, 11-12=-183/35, BOT CHORD 9-11=-105/1106, 8-9=-247/718

3-12=-1118/229, 3-11=-204/1279.

4-11=-481/194, 5-11=-199/38, 5-9=0/274,

2-12=-677/219, 6-9=0/569

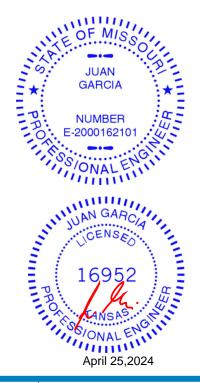
NOTES

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.

- 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 134 lb uplift at joint 13, 153 lb uplift at joint 12 and 134 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.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard





Truss Type Job Truss Qty Ply Avalon - Craftsman Avalon - Craftsman G3 Hip Girder 2 Job Reference (optional

ees Summit MO 64082

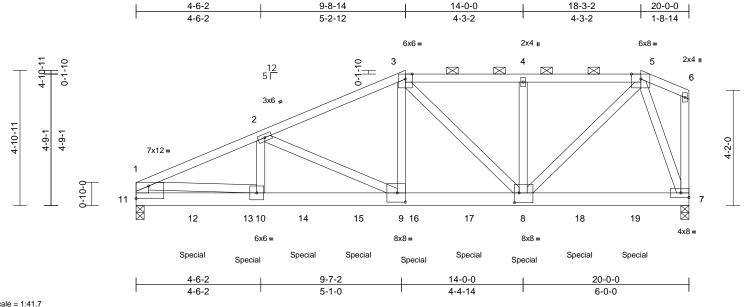
LEE'S SUMMIT, MISSOURI

908 SWAFIGREOWINDFION

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.73 S Apr 3 2024 Print: 8.730 S Apr 3 2024 MiTek Industries, Inc. Wed Apr 2412 ID:0hlod5rQsMHx345fsG3xMezNVpv-RfC?PsB70Hq3NSgPqnL8w3ulTXbGkWrCDoi7

9-8-14 14-0-0 18-3-2 20-0-0



Scale = 1:41.7

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.59	Vert(LL)	-0.12	9-10	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.44	Vert(CT)	-0.21	9-10	>999	240		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.67	Horz(CT)	0.03	7	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.08	9-10	>999	240	Weight: 231 lb	FT = 10%

LUMBER

TOP CHORD 2x4 SPF No.2 BOT CHORD 2x6 SP 2400F 2.0E

2x4 SPF No.2 *Except* 11-1:2x6 SP 2400F WEBS

BRACING

TOP CHORD Structural wood sheathing directly applied or

4-1-1 oc purlins, except end verticals, and 2-0-0 oc purlins (5-6-0 max.): 3-5.

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

REACTIONS (size) 7=0-3-8, (req. 0-3-9), 11=0-3-8,

(req. 0-3-11) Max Horiz

11=163 (LC 26) Max Uplift 7=-489 (LC 5), 11=-567 (LC 8) Max Grav 7=4580 (LC 1), 11=4704 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-8073/957, 2-3=-6276/692,

3-4=-4888/555, 4-5=-4889/555, 5-6=-144/62,

1-11=-3936/493, 6-7=-114/34 BOT CHORD 10-11=-365/1999, 9-10=-933/7390,

8-9=-653/5661, 7-8=-198/1401

WFBS 2-10=-162/1272, 2-9=-1799/400.

3-9=-302/2871, 3-8=-1125/207,

4-8=-456/152, 5-7=-3949/473

1-10=-606/5434, 5-8=-507/5041

NOTES

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

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

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

Bottom chords connected as follows: 2x6 - 2 rows

staggered at 0-9-0 oc

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.
- 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.
- WARNING: Required bearing size at joint(s) 11, 7 greater than input bearing size.
- All bearings are assumed to be SPF No.2
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 567 lb uplift at joint 11 and 489 lb uplift at joint 7.
- 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 hottom chord

13) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 867 lb down and 125 lb up at 2-0-12, 867 lb down and 125 lb up at 4-0-12, 867 lb down and 125 lb up at 4-0-12, 867 lb down and 125 lb up at 6-0-12, 867 lb down and 125 lb up at 8-0-12, 828 lb down and 39 lb up at 10-0-12, \$26 lb down and 48 lb up at 12-0-12, 897 lb down and 70 lb up at 14-0-12, and 892 lb down and 78 lb up at 16-0-12, and 876 lb down and 81 lb up at 18-0-12 on bottom chord. The design/ selection of such connection device(s) is the responsibility of others. NUMBER

LOAD CASE(S) Standard

(B), 19=-787 (B)

Dead + Roof Live (balanced) Quinber Indrease≠1.45, Plate Increase≤1.15 Uniform Loads (Ib/ft) Vert: 1-3=-70, 3-5≠-70, 5-6+70, 7-11-

Concentrated Loads (lb) / / / / / / / / Vert: 8=-806 (B), 12=-867 (B), 13=-867 (B), 14=-867 (B), 15=-867 (B), 16=-828 (B), 17=-820 (B), 18=-809



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



Job Truss Truss Type Qty Ply Avalon - Craftsman Avalon - Craftsman G4 Monopitch Girder 2 Job Reference (optiona

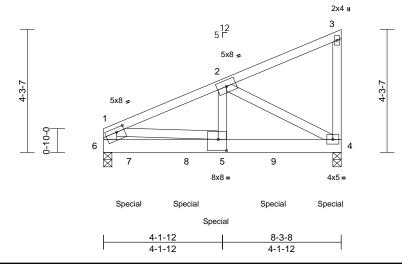
Wheeler Lumber, Waverly, KS - 66871,

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 165139946 LEE'S SUMMIT. MISSOURI

Run: 8.73 S Apr 3 2024 Print: 8.730 S Apr 3 2024 MiTek Industries, Inc. Wed Apr 24 12 ID:BAIOWzILIPprf5eA1excASzNVrK-RfC?PsB70Hq3NSgPqnL8w3uITXbGK\

8-3-8 4-1-12 4-1-12

1908 SW Hightown Dr Lees Summit MO, 64082



Scale = 1:40.2

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

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	0.30	Vert(LL)	-0.05	5-6	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.46	Vert(CT)	-0.08	5-6	>999	240		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.62	Horz(CT)	0.01	4	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P		Wind(LL)	0.02	5-6	>999	240	Weight: 90 lb	FT = 10%

LUMBER

TOP CHORD 2x4 SPF No.2 **BOT CHORD** 2x6 SP 2400F 2.0E

2x4 SPF No.2 *Except* 6-1:2x6 SPF No.2 WEBS

BRACING

TOP CHORD Structural wood sheathing directly applied or

5-2-4 oc purlins, except end verticals. **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc

bracing.

REACTIONS (size) 4=0-3-8, (req. 0-4-2), 6=0-3-8, (req.

0-4-0)

Max Horiz 6=165 (LC 5)

Max Uplift 4=-175 (LC 8), 6=-135 (LC 8) Max Grav 4=5289 (LC 15), 6=5107 (LC 18)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-5770/158, 2-3=-89/40, 3-4=-127/43,

1-6=-3035/115

5-6=-162/15, 4-5=-175/5233

2-5=-41/4853, 2-4=-5959/235, 1-5=-115/5353 WFBS

NOTES

BOT CHORD

1) 2-ply truss to be connected together with 10d

(0.131"x3") nails as follows:

Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc, 2x6 - 2 rows staggered at 0-4-0 oc.

Bottom chords connected as follows: 2x6 - 2 rows

staggered at 0-5-0 oc. Web connected as follows: 2x4 - 1 row at 0-9-0 oc.

- All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B),
- unless otherwise indicated. Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60

- 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.
- WARNING: Required bearing size at joint(s) 4, 6 greater than input bearing size.
- All bearings are assumed to be SPF No.2.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 175 lb uplift at joint 4 and 135 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.
- 10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 2037 lb down and 36 lb up at 0-10-12, 2033 lb down and 38 lb up at 2-10-12, 2033 lb down and 38 lb up at 3-11-4, and 2033 lb down and 38 lb up at 5-11-4, and 1845 lb down and 28 lb up at 8-1-12 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: 1-3=-70, 4-6=-20

Concentrated Loads (lb)

Vert: 4=-1845 (F), 5=-1837 (F), 7=-1840 (F), 8=-1837

(F), 9=-1837 (F)





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 Avalon - Craftsman Avalon - Craftsman J1 Diagonal Hip Girder

Wheeler Lumber, Waverly, KS - 66871,

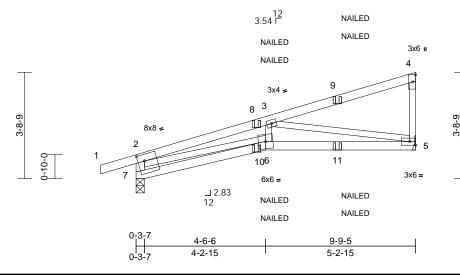
Job Reference (optional Run: 8.73 S Apr 3 2024 Print: 8.730 S Apr 3 2024 MiTek Industries, Inc. Wed Apr 2412

DEVELOPMENT SERVICES 165139947 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION

ID:?ZIMXg1MuezcxqpwEfN9kHzNXbI-RfC?PsB70Hq3NSgPqnL8w3uITXbGi_WrCDoi7y4z36

1908 SW Hightown Dr -1-2-14 9-9-5 1-2-14 4-7-10 5-1-11 Lees Summit MO, 64082



Scale = 1:40.3

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

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	0.62	Vert(LL)	-0.08	6	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.65	Vert(CT)	-0.15	5-6	>744	240		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.92	Horz(CT)	0.05	5	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.07	6	>999	240	Weight: 35 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 4-6-3 oc purlins, except end verticals.

BOT CHORD Rigid ceiling directly applied or 8-11-7 oc

bracing.

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

Max Horiz 7=138 (LC 5)

Max Uplift 5=-130 (LC 8), 7=-147 (LC 4) Max Grav 5=535 (LC 1), 7=578 (LC 1)

(lb) - Maximum Compression/Maximum

FORCES Tension

2-7=-571/184, 1-2=0/27, 2-3=-1565/360,

TOP CHORD 3-4=-151/32 4-5=-199/94

BOT CHORD 6-7=-148/237, 5-6=-417/1425

WFBS 2-6=-286/1238, 3-6=0/337, 3-5=-1395/404

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SPF No.2.
- Refer to girder(s) for truss to truss connections.
- Bearing at joint(s) 7 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.

- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 130 lb uplift at joint 5 and 147 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.
- "NAILED" indicates 3-10d (0.148"x3") or 2-12d (0.148"x3.25") toe-nails per NDS guidlines.
- 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, 6-7=-20, 5-6=-20

Concentrated Loads (lb)

Vert: 9=-97 (F=-48, B=-48), 10=-5 (F=-3, B=-3),

11=-56 (F=-28, B=-28)



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



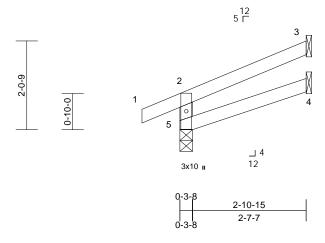
Ply Job Truss Truss Type Qty Avalon - Craftsman Avalon - Craftsman J2 Jack-Open 2 Job Reference (optiona

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.73 S Apr 3 2024 Print: 8.730 S Apr 3 2024 MiTek Industries, Inc. Wed Apr 2412 ID:hskaECvfZNNgvinFrLja0tzNXck-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWCDoi7J42

RELEASE FOR CONSTRUCTION DEVELOPMENT SERVICES 165139948 LEE'S SUMMIT. MISSOURI

1908 SW Hightown Dr Lees Summit MO, 64082



Scale = 1:26.6

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	0.09	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		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R		Wind(LL)	0.00	4-5	>999	240	Weight: 9 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 2-10-15 oc purlins, except end verticals.

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

bracing.

REACTIONS (size) 3= Mechanical, 4= Mechanical,

5=0-3-8

Max Horiz 5=53 (LC 5)

Max Uplift 3=-45 (LC 8), 5=-29 (LC 8) Max Grav

3=80 (LC 1), 4=50 (LC 3), 5=207

(LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 2-5=-181/56, 1-2=0/27, 2-3=-46/23

BOT CHORD 4-5=-18/12

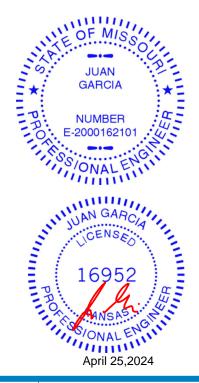
NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom
- chord live load nonconcurrent with any other live loads.

 * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SPF No.2
- Refer to girder(s) for truss to truss connections.
- Bearing at joint(s) 5 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 29 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.

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 Job Truss Truss Type Qty Avalon - Craftsman Avalon - Craftsman J3 Jack-Open 2

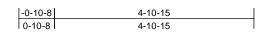
Wheeler Lumber, Waverly, KS - 66871,

Job Reference (optiona

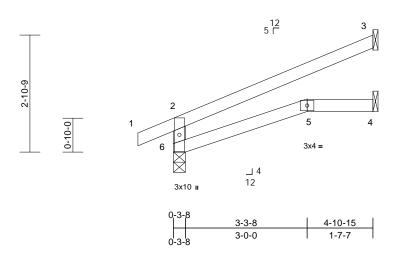
DEVELOPMENT SERVICES 165139949 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION

Run: 8.73 S Apr 3 2024 Print: 8.730 S Apr 3 2024 MiTek Industries, Inc. Wed Apr 2412 ID:6RQisEyXsImFm9VqWTHHdWzNXch-RfC?PsB70Hq3NSgPqnL8w3uITXl GKWrCD-7742JC?f



1908 SW Hightown Dr Lees Summit MO, 64082



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	0.34	Vert(LL)	-0.02	5-6	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.19	Vert(CT)	-0.05	5-6	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.03	3	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R		Wind(LL)	0.03	5-6	>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 4-10-15 oc purlins, except end verticals.

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

bracing.

REACTIONS (size) 3= Mechanical, 4= Mechanical,

6=0-3-8 Max Horiz 6=86 (LC 8)

Max Uplift 3=-77 (LC 8), 6=-37 (LC 8) Max Grav

3=147 (LC 1), 4=88 (LC 3), 6=291

(LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 2-6=-253/82, 1-2=0/27, 2-3=-78/44

BOT CHORD 5-6=-31/6, 4-5=0/0

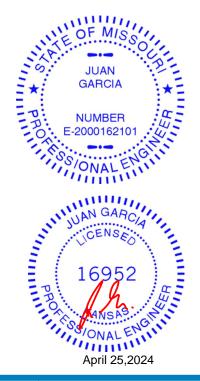
NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom
- chord live load nonconcurrent with any other live loads.

 * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SPF No.2
- Refer to girder(s) for truss to truss connections.
- Bearing at joint(s) 6 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 37 lb uplift at joint 6 and 77 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





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	Avalon - Craftsman
Avalon - Craftsman	J4	Jack-Closed	11	1	Job Reference (optional)

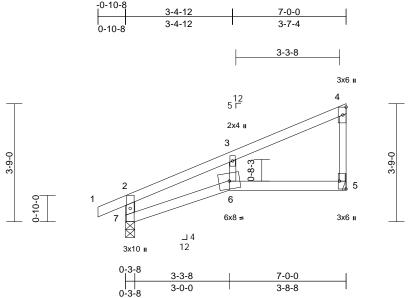
Run: 8.73 S Apr 3 2024 Print: 8.730 S Apr 3 2024 MiTek Industries, Inc. Wed Apr 24 12: 138 ID:_CfDic?2wXGgEmpblJLDoMzNXcd-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoir5423Cff

S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 165139950 LEE'S SUMMIT. MISSOURI

Lees Summit MO, 64082

RELEASE FOR CONSTRUCTION

1908 SW Hightown Dr



Scale = 1:36.6

Plate Offsets	(X, Y):	[5:Edge,0-2-8]
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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	0.54	Vert(LL)	-0.15	6	>536	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.38	Vert(CT)	-0.27	6	>302	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.09	5	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R		Wind(LL)	0.11	6	>737	240	Weight: 21 lb	FT = 10%

LUMBER

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

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

BRACING

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

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

bracing.

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

Max Horiz 7=107 (LC 5)

Max Uplift 5=-26 (LC 8), 7=-14 (LC 8) Max Grav 5=298 (LC 1), 7=381 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

2-7=-324/26, 1-2=0/27, 2-3=-175/0, TOP CHORD

3-4=-101/17, 4-5=-190/36

BOT CHORD 6-7=-27/82, 5-6=-24/87

WFBS 3-6=-31/83

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); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SPF No.2.
- Refer to girder(s) for truss to truss connections.
- Bearing at joint(s) 7 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.

- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 14 lb uplift at joint 7 and 26 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





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 Avalon - Craftsman Avalon - Craftsman J5 Jack-Closed Job Reference (optional

Wheeler Lumber, Waverly, KS - 66871,

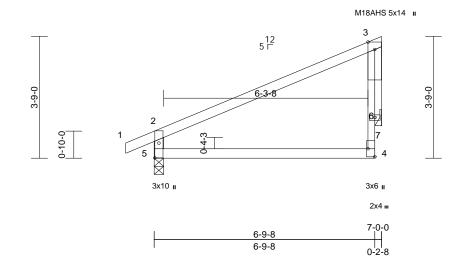
Run: 8.73 S Apr 3 2024 Print: 8.730 S Apr 3 2024 MiTek Industries, Inc. Wed Apr 2412

RELEASE FOR CONSTRUCTION DEVELOPMENT SERVICES 165139951 LEE'S SUMMIT. MISSOURI

ID:6iy8Q29BsXvqlml50X4Gp5zNXcQ-RfC?PsB70Hq3NSgPqnL8w3ulTXbGkWrCDoi794z3e

0-10-8 7-0-0 7-0-0 0-10-8

1908 SW Hightown Dr Lees Summit MO, 64082



Scale = 1:35.5

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

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	0.53	Vert(LL)	-0.05	4-5	>999	360	M18AHS	142/136
TCDL	10.0	Lumber DOL	1.15	BC	0.29	Vert(CT)	-0.11	4-5	>752	240	MT20	197/144
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.01	7	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R		Wind(LL)	0.02	4-5	>999	240	Weight: 22 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

2x3 SPF No.2 OTHERS

BRACING

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

bracing.

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

Max Horiz 5=85 (LC 5)

Max Uplift 5=-4 (LC 8), 7=-35 (LC 8) Max Grav 5=380 (LC 1), 7=280 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 2-5=-338/56. 1-2=0/27. 2-3=-211/0.

4-6=0/137, 3-6=-256/137

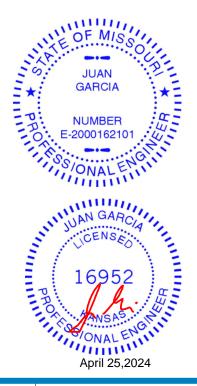
BOT CHORD 4-5=-18/118 WEBS 3-7=-96/60

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); 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. 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 4 lb uplift at joint 5 and 35 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





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



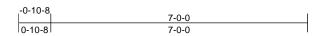
Ply Job Truss Truss Type Qty Avalon - Craftsman Avalon - Craftsman J6 Jack-Closed 3 Job Reference (optiona

DEVELOPMENT SERVICES 165139952 LEE'S SUMMIT. MISSOURI

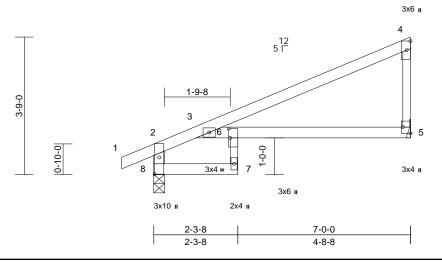
Wheeler Lumber, Waverly, KS - 66871,

Run: 8.73 S Apr 3 2024 Print: 8.730 S Apr 3 2024 MiTek Industries, Inc. Wed Apr 2412:1138 ID:6iy8Q29BsXvqImI50X4Gp5zNXcQ-RfC?PsB70Hq3NSgPqnL8w3uITXbGrWrCDoi734z3e?

RELEASE FOR CONSTRUCTION



1908 SW Hightown Dr Lees Summit MO, 64082



Scale = 1:31.4

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

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	0.54	Vert(LL)	-0.10	5-6	>809	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.55	Vert(CT)	-0.20	5-6	>399	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.09	5	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R		Wind(LL)	0.07	5-6	>999	240	Weight: 22 lb	FT = 10%

LUMBER

TOP CHORD 2x4 SPF No.2

BOT CHORD 2x4 SPF No.2 *Except* 7-6:2x3 SPF No.2 2x4 SPF No.2 *Except* 4-5:2x3 SPF No.2 WEBS

BRACING

TOP CHORD Structural wood sheathing directly applied or

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

bracing.

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

Max Horiz 8=106 (LC 5)

Max Uplift 5=-26 (LC 8), 8=-14 (LC 8) Max Grav 5=298 (LC 1), 8=381 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 2-8=-375/37, 1-2=0/27, 2-3=-233/11,

3-4=-131/12, 4-5=-187/45

BOT CHORD 7-8=-45/129, 6-7=-5/48, 3-6=-64/50,

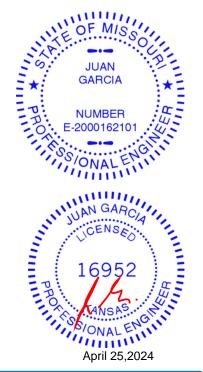
5-6=-19/65

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); 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 14 lb uplift at joint 8 and 26 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





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 Avalon - Craftsman Jack-Open Avalon - Craftsman J7 2 Job Reference (optiona

Wheeler Lumber, Waverly, KS - 66871,

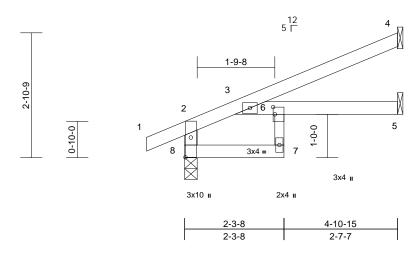
DEVELOPMENT SERVICES 165139953 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION

Run: 8.73 S Apr 3 2024 Print: 8.730 S Apr 3 2024 MiTek Industries, Inc. Wed Apr 24 12 ID:?ZIMXg1MuezcxqpwEfN9kHzNXbI-RfC?PsB70Hq3NSgPqnL8w3uITXbGI<mark>-</mark>WrCDoi7y4z3e?

> 1908 SW Hightown Dr Lees Summit MO, 64082





Scale = 1:26.6

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

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	0.26	Vert(LL)	-0.03	5-6	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.28	Vert(CT)	-0.06	5-6	>984	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.03	5	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R		Wind(LL)	0.03	5-6	>999	240	Weight: 15 lb	FT = 10%

LUMBER

TOP CHORD 2x4 SPF No.2

2x4 SPF No.2 *Except* 7-6:2x3 SPF No.2 **BOT CHORD**

2x4 SPF No.2 WEBS

BRACING

TOP CHORD Structural wood sheathing directly applied or 4-10-15 oc purlins, except end verticals.

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

bracing.

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

8=0-3-8 Max Horiz 8=87 (LC 8)

Max Uplift 4=-61 (LC 8), 8=-30 (LC 8)

4=133 (LC 1), 5=97 (LC 3), 8=305 Max Grav

(LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 2-8=-293/58, 1-2=0/27, 2-3=-153/0,

3-4=-49/41

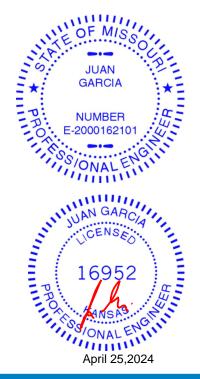
BOT CHORD 7-8=-46/76, 6-7=-4/46, 3-6=-76/46, 5-6=0/0

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 30 lb uplift at joint 8 and 61 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





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 Avalon - Craftsman Avalon - Craftsman J8 Jack-Open 2 Job Reference (optiona

S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 165139954 LEE'S SUMMIT. MISSOURI

Wheeler Lumber, Waverly, KS - 66871,

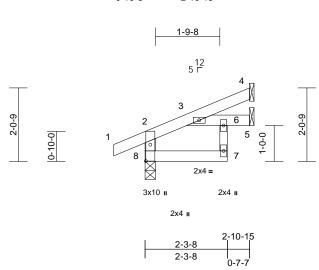
Run: 8.73 S Apr 3 2024 Print: 8.730 S Apr 3 2024 MiTek Industries, Inc. Wed Apr 2412 ID:?ZIMXg1MuezcxqpwEfN9kHzNXbI-RfC?PsB70Hq3NSgPqnL8w3uITXbGl<mark>-</mark>WrCDoi?s4z3e?

1908 SW Hightown Dr

Lees Summit MO, 64082

RELEASE FOR CONSTRUCTION

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



Scale = 1:32.1

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

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	0.08	Vert(LL)	0.00	3	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.07	Vert(CT)	0.00	3-6	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	5	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R		Wind(LL)	0.00	3	>999	240	Weight: 10 lb	FT = 10%

LUMBER

TOP CHORD 2x4 SPF No.2

BOT CHORD 2x4 SPF No.2 *Except* 7-6:2x3 SPF No.2

2x4 SPF No.2 WEBS

BRACING

TOP CHORD Structural wood sheathing directly applied or 2-10-15 oc purlins, except end verticals.

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

bracing.

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

8=0-3-8 Max Horiz 8=53 (LC 8)

Max Uplift 4=-30 (LC 8), 5=-2 (LC 8), 8=-24

(LC 8)

4=66 (LC 1), 5=72 (LC 3), 8=216 Max Grav

(LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 2-8=-196/45, 1-2=0/27, 2-3=-69/0, 3-4=-21/21

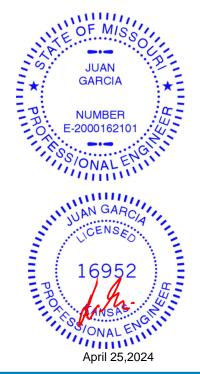
BOT CHORD 7-8=-16/25, 6-7=0/42, 3-6=-25/16, 5-6=0/0

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 24 lb uplift at joint 8, 30 lb uplift at joint 4 and 2 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





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 Avalon - Craftsman Avalon - Craftsman J9 Diagonal Hip Girder Job Reference (optional

Wheeler Lumber, Waverly, KS - 66871,

LEE'S SUMMIT. MISSOURI Run: 8.73 S Apr 3 2024 Print: 8.730 S Apr 3 2024 MiTek Industries, Inc. Wed Apr 2412 ID:Tlskl01_fy5TZ_O7oNuOHVzNXbH-RfC?PsB70Hq3NSgPqnL8w3ulTXbGkWrCDoi7y4z3e

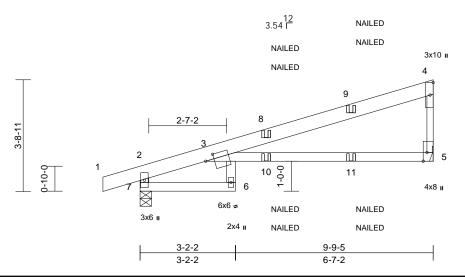
RELEASE FOR CONSTRUCTION

DEVELOPMENT SERVICES 165139955

-1-2-14 9-9-5 1-2-14 9-9-5

1908 SW Hightown Dr Lees Summit MO, 64082

3-8-9



Scale = 1:38.4

Plate Offsets (X, Y): [3:0-3-7,0-1-14], [5:0-3-8,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	0.60	Vert(LL)	-0.21	6	>552	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.51	Vert(CT)	-0.44	3-5	>261	240		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.00	Horz(CT)	0.15	5	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R		Wind(LL)	0.20	6	>558	240	Weight: 42 lb	FT = 10%

LUMBER

TOP CHORD 2x6 SP 2400F 2.0E

2x4 SPF 2100F 1.8E *Except* 6-3:2x4 SPF BOT CHORD

2x4 SPF No.2 *Except* 4-5:2x3 SPF No.2 WFBS

BRACING

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

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

REACTIONS (size) 5= Mechanical, 7=0-4-9

Max Horiz 7=134 (LC 5)

Max Uplift 5=-111 (LC 8), 7=-148 (LC 4) Max Grav 5=568 (LC 1), 7=621 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension TOP CHORD 2-7=-603/170, 1-2=0/27, 2-3=-187/16,

3-4=-184/25, 4-5=-397/156 **BOT CHORD** 6-7=-37/0, 3-6=0/76, 3-5=-26/108

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 148 lb uplift at joint 7 and 111 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.
- "NAILED" indicates 3-10d (0.148"x3") or 2-12d (0.148"x3.25") toe-nails per NDS guidlines.
- 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

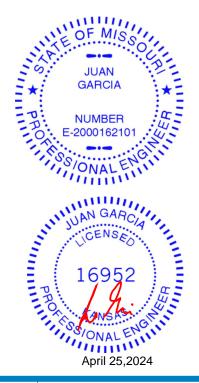
Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (lb/ft)

Vert: 1-2=-70, 2-3=-70, 3-4=-70, 6-7=-20, 3-5=-20

Concentrated Loads (lb)

Vert: 9=-68 (F=-34, B=-34), 10=-50 (F=-25, B=-25),

11=-99 (F=-49, B=-49)





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 Avalon - Craftsman Avalon - Craftsman J10 Diagonal Hip Girder 2

Wheeler Lumber, Waverly, KS - 66871,

DEVELOPMENT SERVICES 165139956 LEE'S SUMMIT. MISSOURI Job Reference (optional Run: 8.73 S Apr 3 2024 Print: 8.730 S Apr 3 2024 MiTek Industries, Inc. Wed Apr 2412

2x4 II

5

3x4 =

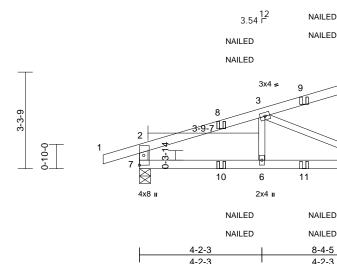
3-3-9

ID:WRzgi7NtKUUfPrluxlQh?TzX46x-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKV

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW

1908 SW Hightown Dr Lees Summit MO, 64082

|-1-2-14 4-2-3 8-4-5 1-2-14 4-2-3 4-2-3



Scale = 1:39.3

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	0.46	Vert(LL)	-0.03	5-6	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.32	Vert(CT)	-0.06	5-6	>999	240		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.24	Horz(CT)	0.01	5	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.02	5-6	>999	240	Weight: 28 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=0-4-9

Max Horiz 7=135 (LC 5)

Max Uplift 5=-97 (LC 8), 7=-131 (LC 4) Max Grav 5=396 (LC 1), 7=487 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 2-7=-417/144, 1-2=0/27, 2-3=-549/103,

3-6=0/173, 3-5=-484/144

3-4=-107/29, 4-5=-142/61 **BOT CHORD** 6-7=-131/462, 5-6=-131/462

WFBS 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 131 lb uplift at joint 7 and 97 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.

- "NAILED" indicates 3-10d (0.148"x3") or 2-12d (0.148"x3.25") toe-nails per NDS guidlines.
- 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,

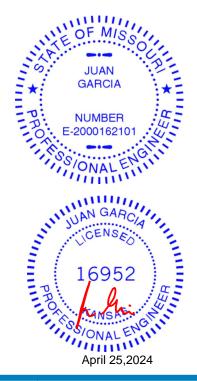
Plate Increase=1.15 Uniform Loads (lb/ft)

Vert: 1-2=-70, 2-4=-70, 5-7=-20

Concentrated Loads (lb)

Vert: 9=-30 (F=-15, B=-15), 10=3 (F=1, B=1), 11=-29

(F=-15, B=-15)







Ply Job Truss Truss Type Qty Avalon - Craftsman Avalon - Craftsman J11 Jack-Open Job Reference (optiona

Wheeler Lumber, Waverly, KS - 66871,

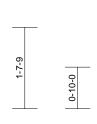
Run: 8.73 S Apr 3 2024 Print: 8.730 S Apr 3 2024 MiTek Industries, Inc. Wed Apr 24 12 ID:KKpWOME_w65Da9ynnxk628zX476-RfC?PsB70Hq3NSgPqnL8w3uITXb5KWrCDbi7J4zJc?f

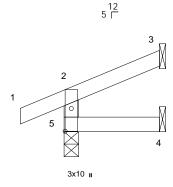
DEVELOPMENT SERVICES 165139957 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION

1908 SW Hightown Dr Lees Summit MO, 64082

-0-10-8 1-10-15 0-10-8 1-10-15







1-10-15

Scale = 1:23.1

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.07	Vert(LL)	0.00	4-5	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.02	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

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 1-10-15 oc purlins, except end verticals. **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc

bracing.

REACTIONS (size) 3= Mechanical, 4= Mechanical,

Max Horiz 5=41 (LC 5)

Max Uplift 3=-29 (LC 8), 5=-32 (LC 4) 3=44 (LC 1), 4=32 (LC 3), 5=171 Max Grav

(LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 2-5=-150/47, 1-2=0/27, 2-3=-32/12

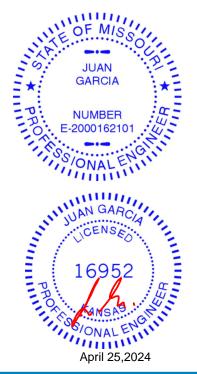
BOT CHORD 4-5=0/0

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 32 lb uplift at joint 5 and 29 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



Ply Job Truss Truss Type Qty Avalon - Craftsman Avalon - Craftsman J12 Jack-Open

Wheeler Lumber, Waverly, KS - 66871,

Job Reference (optiona Run: 8.73 S Apr 3 2024 Print: 8.730 S Apr 3 2024 MiTek Industries, Inc. Wed Apr 24 12

S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 165139958 LEE'S SUMMIT. MISSOURI

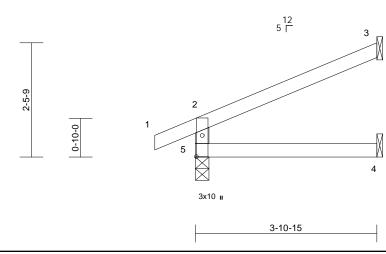
RELEASE FOR CONSTRUCTION

ID:KKpWOME_w65Da9ynnxk628zX476-RfC?PsB70Hq3NSgPqnL8w3ulTXb6KWrCDii/J4zJC?f

1908 SW Hightown Dr

Lees Summit MO, 64082

-0-10-8 3-10-15 0-10-8 3-10-15



Scale = 1:24.8

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

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	0.19	Vert(LL)	-0.01	4-5	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.12	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)	0.01	4-5	>999	240	Weight: 11 lb	FT = 10%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 3-10-15 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=70 (LC 8) Max Uplift 3=-61 (LC 8), 5=-34 (LC 8) 3=114 (LC 1), 4=70 (LC 3), 5=248 Max Grav

(LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 2-5=-217/69, 1-2=0/27, 2-3=-62/34

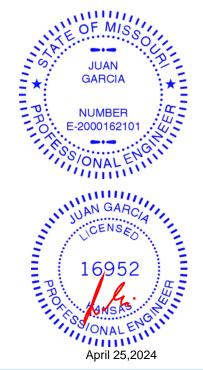
BOT CHORD 4-5=0/0

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 34 lb uplift at joint 5 and 61 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



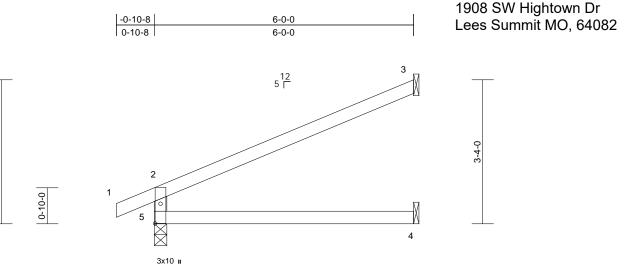
Ply Truss Type Job Truss Qty Avalon - Craftsman Avalon - Craftsman J13 Jack-Open 9

Job Reference (optional

RELEASE FOR CONSTRUCTION DEVELOPMENT SERVICES 165139959 LEE'S SUMMIT. MISSOURI

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.73 S Apr 3 2024 Print: 8.730 S Apr 3 2024 MiTek Industries, Inc. Wed Apr 2412 ID:KbKxyASevKEp7ml2H?X5EkzX46r-RfC?PsB70Hq3NSgPqnL8w3ulTXbGl(WrCDoi)>423e



Scale = 1:26.7

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

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	0.54	Vert(LL)	-0.05	4-5	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.32	Vert(CT)	-0.12	4-5	>593	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.05	3	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R		Wind(LL)	0.06	4-5	>999	240	Weight: 16 lb	FT = 10%

6-0-0

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) 3= Mechanical, 4= Mechanical,

Max Horiz 5=105 (LC 8)

Max Uplift 3=-92 (LC 8), 5=-43 (LC 8) 3=182 (LC 1), 4=109 (LC 3), 5=338 Max Grav

(LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 2-5=-295/98, 1-2=0/27, 2-3=-96/55

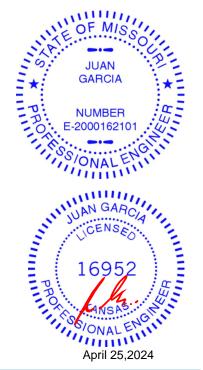
BOT CHORD 4-5=0/0

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 43 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.

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 Avalon - Craftsman Avalon - Craftsman LAY1 Lay-In Gable 2 Job Reference (optiona

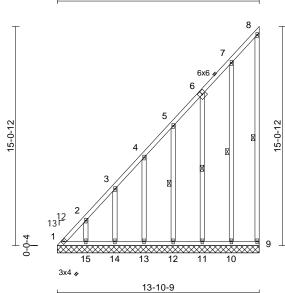
Wheeler Lumber, Waverly, KS - 66871,

DEVELOPMENT SERVICES 165139960 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION

Run: 8.73 S Apr 3 2024 Print: 8.730 S Apr 3 2024 MiTek Industries, Inc. Wed Apr 2412 ID:vc?jEYk40KE6tdmb4uYmKDzX4oN-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDol7423C?f

> 1908 SW Hightown Dr Lees Summit MO, 64082



Scale = 1:79.2

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	0.08	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.02	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.12	Horiz(TL)	0.00	9	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 103 lb	FT = 10%

LUMBER

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

BRACING

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

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

bracing.

WEBS 8-9, 5-12, 6-11, 7-10 1 Row at midpt REACTIONS (size) 1=13-10-9, 9=13-10-9, 10=13-10-9,

11=13-10-9, 12=13-10-9,

13=13-10-9, 14=13-10-9, 15=13-10-9

Max Horiz 1=593 (LC 8)

Max Uplift 1=-195 (LC 6), 9=-48 (LC 8),

10=-133 (LC 8), 11=-131 (LC 8), 12=-122 (LC 8), 13=-131 (LC 8), 14=-129 (LC 8), 15=-131 (LC 8)

Max Grav 1=600 (LC 8), 9=73 (LC 15),

10=214 (LC 15), 11=206 (LC 15),

12=198 (LC 15), 13=207 (LC 15), 14=205 (LC 15), 15=208 (LC 15)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 8-9=-59/55, 1-2=-832/326, 2-3=-709/278,

3-4=-578/228, 4-5=-447/179, 5-7=-321/131,

7-8=-70/36

BOT CHORD 1-15=-2/2, 14-15=-2/2, 13-14=-2/2,

12-13=-2/2. 11-12=-2/2. 10-11=0/0. 9-10=0/0 WFBS 2-15=-163/148, 3-14=-166/155,

4-13=-166/155, 5-12=-158/146,

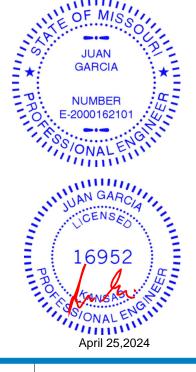
6-11=-166/155, 7-10=-173/160

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; 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 .
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 48 lb uplift at joint 9, 195 lb uplift at joint 1, 131 lb uplift at joint 15, 129 lb uplift at joint 14, 131 lb uplift at joint 13, 122 lb uplift at joint 12, 131 lb uplift at joint 11 and 133 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





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

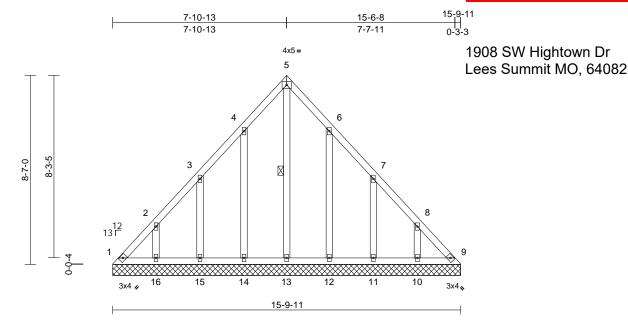


Job Truss Truss Type Qtv Ply Avalon - Craftsman Avalon - Craftsman LAY2 Lay-In Gable Job Reference (optional

RELEASE FOR CONSTRUCTION DEVELOPMENT SERVICES 165139961 LEE'S SUMMIT. MISSOURI

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.73 S Apr 3 2024 Print: 8.730 S Apr 3 2024 MiTek Industries, Inc. Wed Apr 24 12 :136 ID:oWMuciFchQD4CJXzLeFLbMzX475-RfC?PsB70Hq3NSgPqnL8w3ulTXb(KWrCDoirJ4zJQ?f



Scale = 1:52.3

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	0.06	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	0.11	Horiz(TL)	0.01	9	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 78 lb	FT = 10%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins.

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

bracing.

WEBS 1 Row at midpt 5-13

REACTIONS (size) 1=15-9-11, 9=15-9-11, 10=15-9-11,

11=15-9-11, 12=15-9-11, 13=15-9-11, 14=15-9-11, 15=15-9-11, 16=15-9-11

Max Horiz 1=-220 (LC 4)

Max Uplift 1=-94 (LC 6), 9=-58 (LC 7),

10=-130 (LC 9), 11=-132 (LC 9),

12=-127 (LC 9), 14=-129 (LC 8),

15=-132 (LC 8), 16=-131 (LC 8) Max Grav 1=203 (LC 8), 9=179 (LC 9),

10=208 (LC 16), 11=205 (LC 16), 12=210 (LC 16), 13=196 (LC 9),

14=212 (LC 15), 15=204 (LC 15),

16=209 (LC 15)

FORCES (lb) - Maximum Compression/Maximum

Tension TOP CHORD

1-2=-293/188, 2-3=-169/140, 3-4=-136/102,

4-5=-108/164, 5-6=-86/142, 6-7=-99/65,

7-8=-141/91, 8-9=-260/139 **BOT CHORD** 1-16=-96/203, 15-16=-96/203

14-15=-96/203, 13-14=-96/203,

12-13=-96/203, 11-12=-96/203, 10-11=-96/203. 9-10=-96/203

WFBS 2-16=-163/149, 3-15=-165/157 4-14=-173/152, 8-10=-163/149

7-11=-166/158, 6-12=-171/150, 5-13=-173/21

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.
- All plates are 2x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing. 5)
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * 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 94 lb uplift at joint 1, 58 lb uplift at joint 9, 131 lb uplift at joint 16, 132 lb uplift at joint 15, 129 lb uplift at joint 14, 130 lb uplift at joint 10, 132 lb uplift at joint 11 and 127 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.

LOAD CASE(S) Standard





M 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

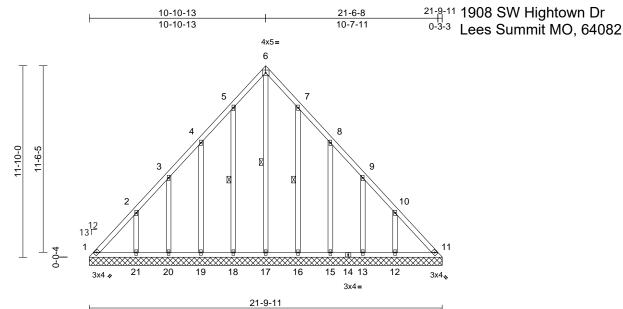


Job Truss Truss Type Qty Ply Avalon - Craftsman Avalon - Craftsman LAY3 Lay-In Gable Job Reference (optional

Wheeler Lumber, Waverly, KS - 66871,

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 165139962 LEE'S SUMMIT. MISSOURI

Run: 8.73 S Apr 3 2024 Print: 8.730 S Apr 3 2024 MiTek Industries, Inc. Wed Apr 24 12 :1386 ID:oWMuciFchQD4CJXzLeFLbMzX475-RfC?PsB70Hq3NSgPqnL8w3ulTXb(KWrCDoirJ4zJQ?f



Scale = 1:71.2

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	0.10	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.07	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.15	Horiz(TL)	0.01	11	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 127 lb	FT = 10%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins.

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

bracing.

WEBS 6-17, 5-18, 7-16 1 Row at midpt **REACTIONS** (size) 1=21-9-11, 11=21-9-11,

12=21-9-11, 13=21-9-11, 15=21-9-11, 16=21-9-11,

17=21-9-11, 18=21-9-11, 19=21-9-11, 20=21-9-11,

21=21-9-11

Max Horiz 1=-307 (LC 4)

Max Uplift 1=-121 (LC 6), 11=-70 (LC 7),

12=-176 (LC 9), 13=-114 (LC 9), 15=-139 (LC 9), 16=-121 (LC 9), 18=-124 (LC 8), 19=-137 (LC 8),

20=-114 (LC 8), 21=-176 (LC 8) Max Grav 1=278 (LC 8), 11=245 (LC 9),

12=279 (LC 16), 13=182 (LC 16), 15=211 (LC 16), 16=211 (LC 16),

17=284 (LC 9), 18=214 (LC 15), 19=209 (LC 15), 20=182 (LC 15), 21=279 (LC 15)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-406/263, 2-3=-239/190, 3-4=-174/148,

4-5=-149/166, 5-6=-120/228, 6-7=-94/205, 7-8=-96/120, 8-9=-123/79, 9-10=-193/121,

10-11=-360/194

BOT CHORD 1-21=-136/289, 20-21=-136/289

19-20=-136/289, 18-19=-136/289, 17-18=-136/289. 16-17=-136/289. 15-16=-136/289, 13-15=-136/289,

12-13=-136/289, 11-12=-136/289

WEBS

6-17=-260/38, 5-18=-175/148, 4-19=-167/161, 3-20=-150/139, 2-21=-214/196, 7-16=-171/145, 8-15=-169/162, 9-13=-150/139,

10-12=-215/196

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 121 lb uplift at joint 1, 70 lb uplift at joint 11, 124 lb uplift at joint 18, 137 lb uplift at joint 19, 114 lb uplift at joint 20, 176 lb uplift at joint 21, 121 lb uplift at joint 16, 139 lb uplift at joint 15, 114 lb uplift at joint 13 and 176 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





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

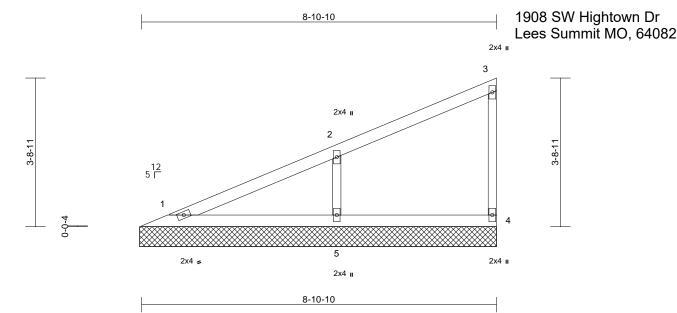


Job Truss Truss Type Qty Ply Avalon - Craftsman Avalon - Craftsman V1 Valley Job Reference (optional

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 165139963 LEE'S SUMMIT. MISSOURI

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.73 S Apr 3 2024 Print: 8.730 S Apr 3 2024 MiTek Industries, Inc. Wed Apr 24 12 **(1)**86 ID:oWMuciFchQD4CJXzLeFLbMzX475-RfC?PsB70Hq3NSgPqnL8w3ulTXb(KWrCDoirJ4zJQ?f



Scale = 1:28.9

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	0.26	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.14	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.07	Horiz(TL)	0.00	4	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 24 lb	FT = 10%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or

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

bracing.

(size) REACTIONS 1=8-11-4, 4=8-11-4, 5=8-11-4

Max Horiz 1=148 (LC 7)

Max Uplift 4=-23 (LC 5), 5=-121 (LC 8)

1=144 (LC 1), 4=128 (LC 1), 5=455 Max Grav

(LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=-115/70, 2-3=-101/28, 3-4=-100/40 1-5=-48/36 4-5=-48/36

BOT CHORD 2-5=-353/181 WFBS

NOTES

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SPF No.2.

- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 23 lb uplift at joint 4 and 121 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





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 Qty Job Truss Avalon - Craftsman Avalon - Craftsman V2 Valley Job Reference (optional

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.73 S Apr 3 2024 Print: 8.730 S Apr 3 2024 MiTek Industries, Inc. Wed Apr 24 12

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 165139964 LEE'S SUMMIT. MISSOURI

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138

1908 SW Hightown Dr 6-10-10 Lees Summit MO, 64082

2x4 II

2 3 2x4 ۽

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	0.74	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.40	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: 17 lb	FT = 10%

6-10-10

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 6-11-4 oc purlins, except end verticals.

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

bracing.

REACTIONS (size) 1=6-11-4, 3=6-11-4

Max Horiz 1=111 (LC 5)

Max Uplift 1=-40 (LC 8), 3=-62 (LC 8) Max Grav 1=274 (LC 1), 3=274 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=-99/66, 2-3=-213/99 BOT CHORD 1-3=-36/27

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) 1) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable or consult qualified building designer as per ANSI/TPI 1.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SPF No.2 .
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 40 lb uplift at joint 1 and 62 lb uplift at joint 3.

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





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 Avalon - Craftsman Avalon - Craftsman V3 Valley Job Reference (optional

Wheeler Lumber, Waverly, KS - 66871,

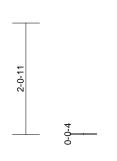
Run: 8.73 S Apr 3 2024 Print: 8.730 S Apr 3 2024 MiTek Industries, Inc. Wed Apr 24 12

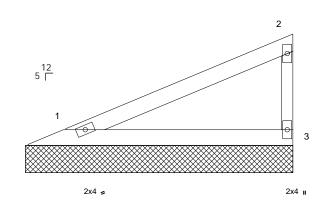
RELEASE FOR CONSTRUCTION DEVELOPMENT SERVICES 165139965 LEE'S SUMMIT. MISSOURI

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4-10-10

1908 SW Hightown Dr Lees Summit MO, 64082





4-10-10

2x4 ı

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	0.31	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.17	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: 12 lb	FT = 10%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 4-11-4 oc purlins, except end verticals.

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

bracing.

REACTIONS (size) 1=4-11-4, 3=4-11-4

Max Horiz 1=75 (LC 5)

Max Uplift 1=-27 (LC 8), 3=-42 (LC 8) Max Grav 1=184 (LC 1), 3=184 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension

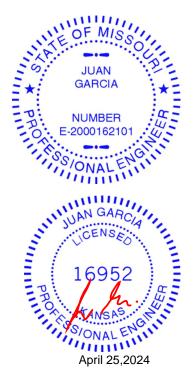
TOP CHORD 1-2=-67/44, 2-3=-143/66 BOT CHORD 1-3=-24/18

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable or consult qualified building designer as per ANSI/TPI 1.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SPF No.2 .
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 27 lb uplift at joint 1 and 42 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



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 Avalon - Craftsman Avalon - Craftsman V4 Valley Job Reference (optional

Wheeler Lumber, Waverly, KS - 66871,

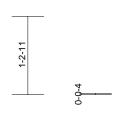
Run: 8.73 S Apr 3 2024 Print: 8.730 S Apr 3 2024 MiTek Industries, Inc. Wed Apr 24 12 ID:oWMuciFchQD4CJXzLeFLbMzX475-RfC?PsB70Hq3NSgPqnL8w3ulTXb0KWrCDoi7J4zdQ?f

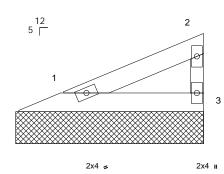
2x4 ı

RELEASE FOR CONSTRUCTION DEVELOPMENT SERVICES 165139966 LEE'S SUMMIT. MISSOURI

2-10-10

1908 SW Hightown Dr Lees Summit MO, 64082







2-10-10

Scale = 1:18

Loading	(psf)	Spacing	2-0-0	csı		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.07	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.04	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: 7 lb	FT = 10%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 2-11-4 oc purlins, except end verticals.

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

bracing.

REACTIONS (size) 1=2-11-4, 3=2-11-4

Max Horiz 1=38 (LC 5)

Max Uplift 1=-14 (LC 8), 3=-21 (LC 8) Max Grav 1=94 (LC 1), 3=94 (LC 1) (lb) - Maximum Compression/Maximum

FORCES Tension

1-2=-34/23, 2-3=-73/34

BOT CHORD 1-3=-12/9

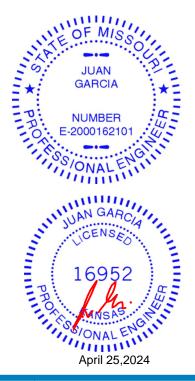
NOTES

TOP CHORD

- Wind: ASCE 7-16; Vult=115mph (3-second gust) 1) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable or consult qualified building designer as per ANSI/TPI 1.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SPF No.2 .
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 14 lb uplift at joint 1 and 21 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





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

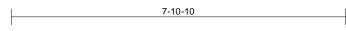
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not



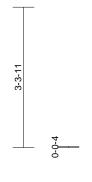
Job Truss Truss Type Qty Ply Avalon - Craftsman Avalon - Craftsman V5 Valley Job Reference (optional RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 165139967 LEE'S SUMMIT. MISSOURI

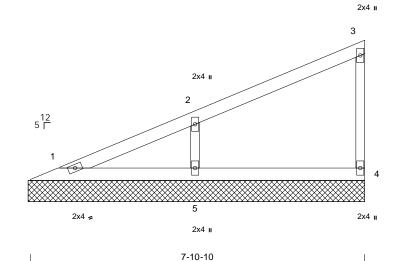
Wheeler Lumber, Waverly, KS - 66871,

Run: 8.73 S Apr 3 2024 Print: 8.730 S Apr 3 2024 MiTek Industries, Inc. Wed Apr 24 12 ID:oWMuciFchQD4CJXzLeFLbMzX475-RfC?PsB70Hq3NSgPqnL8w3ulTXb(KWrCDoirJ4zJQ?f



1908 SW Hightown Dr Lees Summit MO, 64082





Scale	=	1:27.2

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.21	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.11	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.06	Horiz(TL)	0.00	4	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 21 lb	FT = 10%

LUMBER

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

BRACING

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

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

REACTIONS (size) 1=7-11-4, 4=7-11-4, 5=7-11-4

Max Horiz 1=129 (LC 5)

Max Uplift 4=-24 (LC 8), 5=-107 (LC 8) 1=98 (LC 1), 4=138 (LC 1), 5=401 Max Grav

(LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-104/57, 2-3=-94/31, 3-4=-108/43

BOT CHORD 1-5=-42/32. 4-5=-42/32

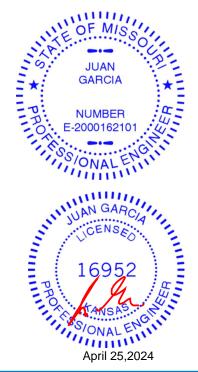
2-5=-312/160 WFBS

NOTES

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SPF No.2.

- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 24 lb uplift at joint 4 and 107 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





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 Avalon - Craftsman Avalon - Craftsman V6 Valley

DEVELOPMENT SERVICES 165139968 LEE'S SUMMIT. MISSOURI Job Reference (optional

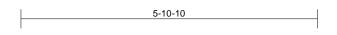
2-5-11

2x4 II

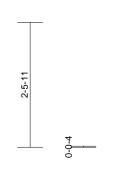
Wheeler Lumber, Waverly, KS - 66871,

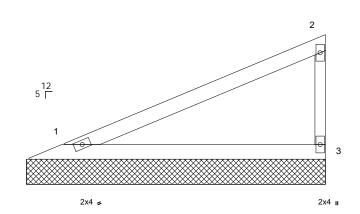
Run: 8.73 S Apr 3 2024 Print: 8.730 S Apr 3 2024 MiTek Industries, Inc. Wed Apr 24 12 ID:oWMuciFchQD4CJXzLeFLbMzX475-RfC?PsB70Hq3NSgPqnL8w3ulTXb(KWrCDoirJ4zJQ?f

RELEASE FOR CONSTRUCTION



1908 SW Hightown Dr Lees Summit MO, 64082





5-10-10

Scale = 1:22.9

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.50	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.27	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: 15 lb	FT = 10%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 5-11-4 oc purlins, except end verticals.

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

bracing.

REACTIONS (size) 1=5-11-4, 3=5-11-4

Max Horiz 1=93 (LC 5)

Max Uplift 1=-33 (LC 8), 3=-52 (LC 8) Max Grav 1=229 (LC 1), 3=229 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=-83/55, 2-3=-178/82

BOT CHORD 1-3=-30/23

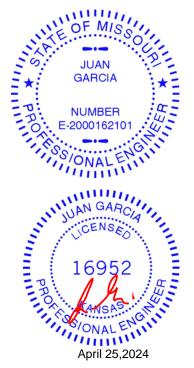
NOTES Wind: ASCE 7-16; Vult=115mph (3-second gust)

Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60

- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable or consult qualified building designer as per ANSI/TPI 1.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SPF No.2 .
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 33 lb uplift at joint 1 and 52 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





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 Avalon - Craftsman Avalon - Craftsman V7 Valley Job Reference (optional

Wheeler Lumber, Waverly, KS - 66871,

S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 165139969 LEE'S SUMMIT. MISSOURI

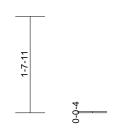
Run: 8.73 S Apr 3 2024 Print: 8.730 S Apr 3 2024 MiTek Industries, Inc. Wed Apr 24 12 :**①**3 ID:oWMuciFchQD4CJXzLeFLbMzX475-RfC?PsB70Hq3NSgPqnL8w3ulTXb(KWrCDoirJ4zJQ?f

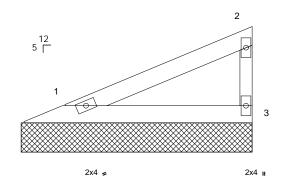
2x4 II



1908 SW Hightown Dr Lees Summit MO, 64082

RELEASE FOR CONSTRUCTION





3-10-10



Scale = 1:19.6

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	0.17	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.09	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: 9 lb	FT = 10%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 3-11-4 oc purlins, except end verticals.

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

bracing.

REACTIONS (size) 1=3-11-4, 3=3-11-4

Max Horiz 1=57 (LC 5)

Max Uplift 1=-20 (LC 8), 3=-32 (LC 8) Max Grav 1=139 (LC 1), 3=139 (LC 1)

FORCES Tension

(lb) - Maximum Compression/Maximum

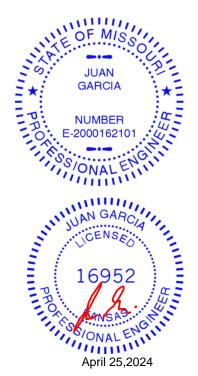
TOP CHORD 1-2=-50/33, 2-3=-108/50 1-3=-18/14

BOT CHORD NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) 1) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable or consult qualified building designer as per ANSI/TPI 1.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SPF No.2 .
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 20 lb uplift at joint 1 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.

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 Avalon - Craftsman Avalon - Craftsman V8 Valley Job Reference (optiona

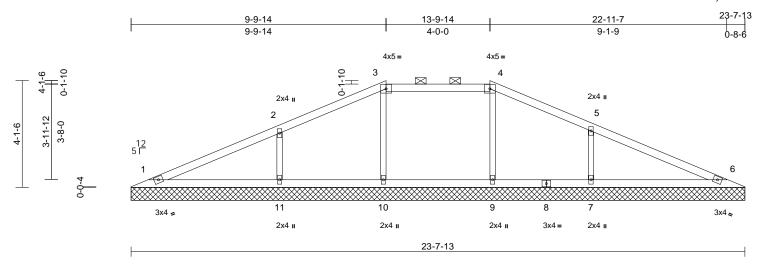
S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 165139970 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.73 S Apr 3 2024 Print: 8.730 S Apr 3 2024 MiTek Industries, Inc. Wed Apr 2412 ID:GjwGp2GESjMxqT69vMma7ZzX474-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoirJ4zdQ?f

1908 SW Hightown Dr Lees Summit MO, 64082



Scale = 1:44.4

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	0.32	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.18	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.09	Horiz(TL)	0.00	6	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 63 lb	FT = 10%

LUMBER

2x4 SPF No.2 TOP CHORD **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, except 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) 1=23-7-13, 6=23-7-13, 7=23-7-13,

9=23-7-13, 10=23-7-13,

11=23-7-13

Max Horiz 1=66 (LC 12) Max Uplift

1=-12 (LC 8), 6=-27 (LC 9), 7=-139 (LC 9), 9=-15 (LC 5), 10=-18 (LC

4), 11=-138 (LC 8)

Max Grav 1=190 (LC 1), 6=199 (LC 1), 7=498 (LC 1), 9=307 (LC 22), 10=327 (LC

21), 11=490 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

1-2=-89/77, 2-3=-86/98, 3-4=-27/99, TOP CHORD

4-5=-86/87, 5-6=-69/63

BOT CHORD 1-11=-1/54, 10-11=-1/54, 9-10=0/54,

7-9=-2/55, 6-7=-2/55

WEBS 3-10=-253/66, 2-11=-374/191, 4-9=-240/60,

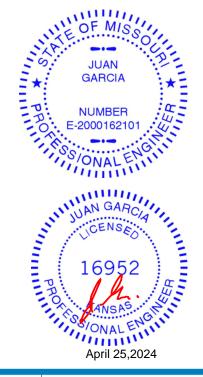
5-7=-378/192

NOTES

- Unbalanced roof live loads have been considered for 1) this design.
- Wind: ASCE 7-16: Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 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.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SPF No.2.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 12 lb uplift at joint 1, 27 lb uplift at joint 6, 18 lb uplift at joint 10, 138 lb uplift at joint 11, 15 lb uplift at joint 9 and 139 lb uplift at joint 7.
- 11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard





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 Avalon - Craftsman Avalon - Craftsman V9 Valley

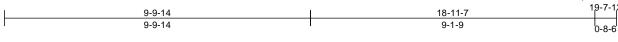
Wheeler Lumber, Waverly, KS - 66871,

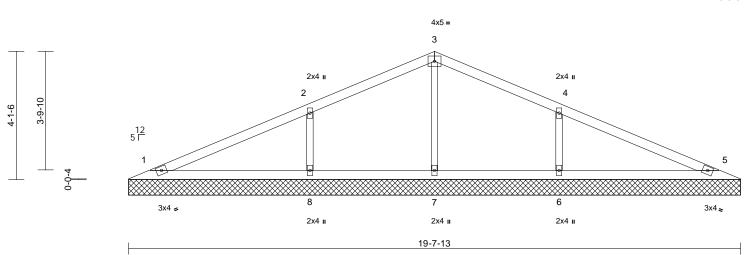
DEVELOPMENT SERVICES 165139971 LEE'S SUMMIT. MISSOURI Job Reference (optional Run: 8.73 S Apr 3 2024 Print: 8.730 S Apr 3 2024 MiTek Industries, Inc. Wed Apr 2413 (1) 7

ID:0WMuciFchQD4CJXzLeFLbMzX475-RfC?PsB70Hq3NSgPqnL8w3uITXb0 Pylor Book Pilightown Dr

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW

Lees Summit MO, 64082





Scale = 1:37

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	0.31	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.17	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.08	Horiz(TL)	0.00	5	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 51 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=19-7-13, 5=19-7-13, 6=19-7-13, 7=19-7-13, 8=19-7-13

Max Horiz 1=67 (LC 12)

Max Uplift 1=-15 (LC 8), 5=-26 (LC 9), 6=-138

(LC 9), 8=-138 (LC 8)

1=193 (LC 1), 5=193 (LC 1), 6=508 (LC 22), 7=245 (LC 1), 8=508 (LC

FORCES (lb) - Maximum Compression/Maximum

Tension

1-2=-87/79, 2-3=-90/100, 3-4=-90/90,

TOP CHORD

1-8=-2/54, 7-8=-2/54, 6-7=-2/54, 5-6=-2/54 **BOT CHORD** WEBS 3-7=-191/16, 2-8=-386/193, 4-6=-386/193

NOTES

- Unbalanced roof live loads have been considered for 1) this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable or consult qualified building designer as per ANSI/TPI 1.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SPF No.2.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 15 lb uplift at joint 1, 26 lb uplift at joint 5, 138 lb uplift at joint 8 and 138 lb uplift at joint 6.
- 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





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



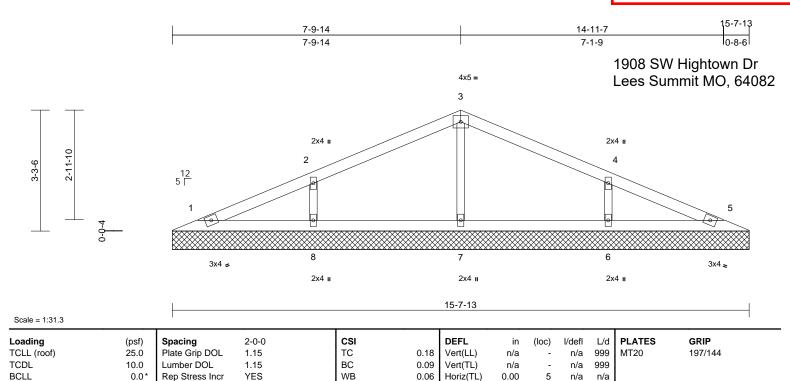
Job Truss Truss Type Qty Ply Avalon - Craftsman Avalon - Craftsman V10 Valley

Job Reference (optional

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 165139972 LEE'S SUMMIT. MISSOURI

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.73 S Apr 3 2024 Print: 8.730 S Apr 3 2024 MiTek Industries, Inc. Wed Apr 2412 ID:oWMuciFchQD4CJXzLeFLbMzX475-RfC?PsB70Hq3NSgPqnL8w3ulTXbCKWrCDoin



LUMBER

BCDL

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

BRACING

TOP CHORD Structural wood sheathing directly applied or

10.0

Code

6-0-0 oc purlins.

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

bracing.

REACTIONS (size) 1=15-7-13, 5=15-7-13, 6=15-7-13, 7=15-7-13, 8=15-7-13

Max Horiz 1=52 (LC 12)

Max Uplift 1=-10 (LC 9), 5=-9 (LC 9), 6=-107

(LC 9), 8=-107 (LC 8) 1=111 (LC 1), 5=111 (LC 1), 6=381

(LC 22), 7=313 (LC 1), 8=381 (LC

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-70/46, 2-3=-87/78, 3-4=-87/66,

BOT CHORD 1-8=0/42, 7-8=0/42, 6-7=0/42, 5-6=0/42 WEBS 3-7=-234/42, 2-8=-298/150, 4-6=-298/150

NOTES

- Unbalanced roof live loads have been considered for 1) this design
- Wind: ASCF 7-16: Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable or consult qualified building designer as per ANSI/TPI 1.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SPF No.2.

Matrix-S

- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 10 lb uplift at joint 1, 9 lb uplift at joint 5, 107 lb uplift at joint 8 and 107 lb uplift at joint 6.
- 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

IRC2018/TPI2014



Weight: 39 lb

FT = 10%



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



Ply Truss Type Job Truss Qty Avalon - Craftsman Avalon - Craftsman V11 Valley Job Reference (optional

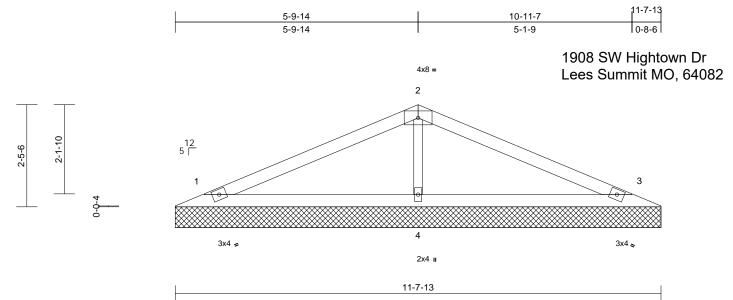
S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 165139973 LEE'S SUMMIT. MISSOURI

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.73 S Apr 3 2024 Print: 8.730 S Apr 3 2024 MiTek Industries, Inc. Wed Apr 24 12 ID:oWMuciFchQD4CJXzLeFLbMzX475-RfC?PsB70Hq3NSgPqnL8w3ulTXb(KWrCDoir J42

:138

RELEASE FOR CONSTRUCTION



Scale = 1:27.6

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.37	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	0.07	Horiz(TL)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 27 lb	FT = 10%

LUMBER

2x4 SPF No.2 TOP CHORD **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=11-7-13, 3=11-7-13, 4=11-7-13

1=-38 (LC 13) Max Horiz

Max Uplift 1=-44 (LC 8), 3=-50 (LC 9), 4=-32

(LC 8)

1=211 (LC 21), 3=211 (LC 22), Max Grav

4=507 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-108/56, 2-3=-108/42

BOT CHORD 1-4=-2/43, 3-4=-2/43

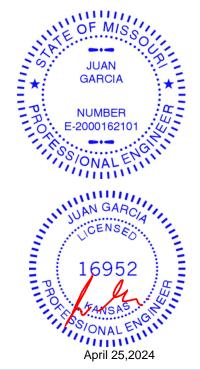
2-4=-353/93 WEBS

NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SPF No.2.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 44 lb uplift at joint 1, 50 lb uplift at joint 3 and 32 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





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



Truss Type Job Truss Qty Ply Avalon - Craftsman Avalon - Craftsman V12 Valley

Wheeler Lumber, Waverly, KS - 66871,

Job Reference (optiona Run: 8.73 S Apr 3 2024 Print: 8.73 S Apr 3 202 Run: 8.73 S Apr 3 2024 Print: 8.730 S Apr 3 2024 MiTek Industries, Inc. Wed Apr 24 12

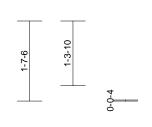
RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW

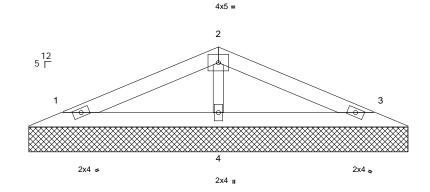
DEVELOPMENT SERVICES 165139974

LEE'S SUMMIT. MISSOURI

Lees Summit MO, 64082

3-9-14	6-11-7	7-7-13
3-9-14	3-1-9	0-8-6





7-7-13

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	0.17	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.08	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.04	Horiz(TL)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 17 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=7-7-13, 3=7-7-13, 4=7-7-13

1=-23 (LC 13) Max Horiz Max Uplift

1=-33 (LC 8), 3=-37 (LC 9), 4=-7 (LC 8)

1=142 (LC 1), 3=142 (LC 1), 4=278 Max Grav

(LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-57/33, 2-3=-57/23 **BOT CHORD** 1-4=-1/24, 3-4=-1/24

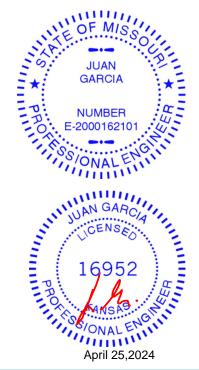
2-4=-200/54 WEBS

NOTES

- 1) Unbalanced roof live loads have been considered for this design
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SPF No.2.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 33 lb uplift at joint 1, 37 lb uplift at joint 3 and 7 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





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



RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES LEE'S SUMMILE-MISSOURI O-1/16" Center plate on joint unless x, y offsets are indicated. Dimensions are in ft-in-sixteenths. Apply plates to both sides of truss and fully embed teeth. For 4 x 2 orientation, locate

*Plate location details available in MiTek software or upon request.

connector plates.

This symbol indicates the required direction of slots in ₹

edge of truss.

plates 0- 1/16" from outside

PLATE SIZE

4 × 4

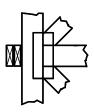
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING LOCATION



Indicated by symbol shown and/or by text in the bracing section of the output. Use T or I bracing if indicated.

BEARING



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

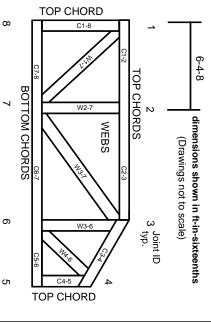
Industry Standards:

National Design Specification for Metal Plate Connected Wood Truss Construction Design Standard for Bracing.

Building Component Safety Information, Guide to Good Practice for Handling, Installing, Restraining & Bracing of Metal Plate Connected Wood Trusses.

ANSI/TPI1: DSB-22:

Numbering System



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

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

Product Code Approvals

ICC-ES Reports:

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

Design General Notes

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

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

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

General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

- Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI
- Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves may require bracing, or alternative Tor I bracing should be considered.
- Never exceed the design loading shown and never stack materials on inadequately braced trusses.

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

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- Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TPI 1.
- Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI 1.
- Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.

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Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.

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