

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

Re: B250400
Lot 123 RS
1921 SW Hightown Dr
Lee's 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: I78549200 thru I78549261

My license renewal date for the state of Missouri is December 31, 2026.

Missouri COA: Engineering 001193



December 17, 2025

Lu, Jie, Engineer

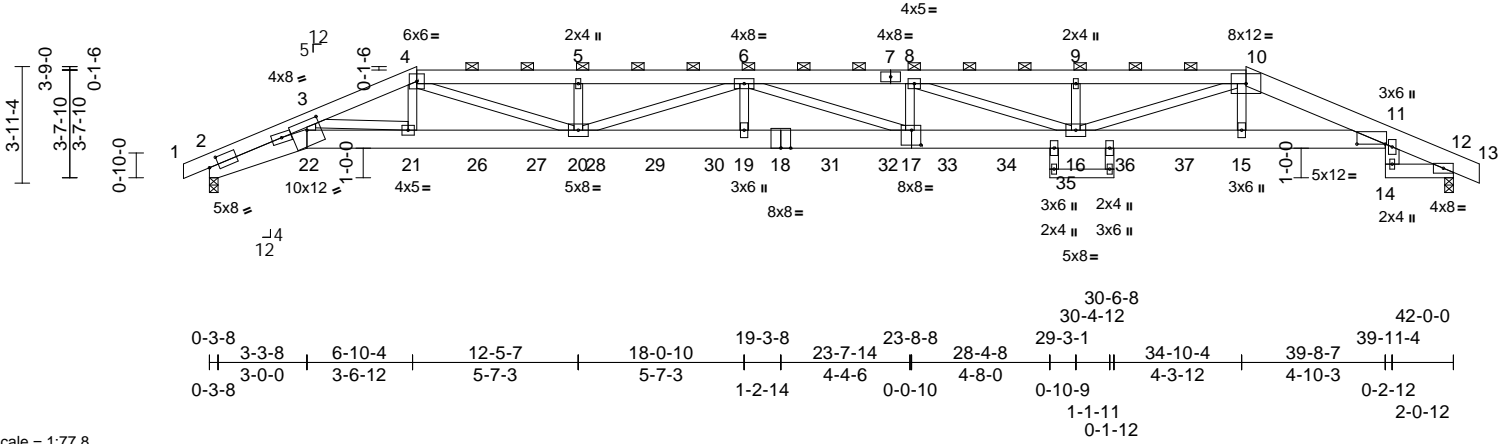
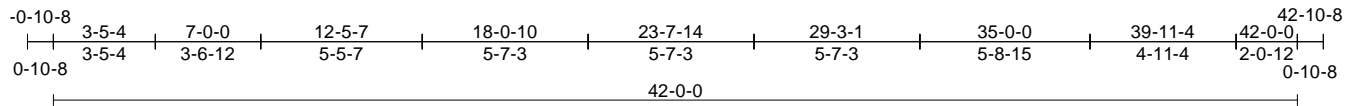
IMPORTANT NOTE: The seal on these truss component designs is a certification that the engineer named is licensed in the jurisdiction(s) identified and that the designs comply with ANSI/TPI 1. These designs are based upon parameters shown (e.g., loads, supports, dimensions, shapes and design codes), which 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 B250400	Truss A1	Truss Type Hip Girder	Qty 1	Ply 4	Lot 123 RS
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RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
01/26/2026 3:17:36

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.83 E Feb 18 2025 Print: 8.830 E Feb 18 2025 MiTek Industries, Inc. Wed Dec 17 15:20:05 Page: 1
ID:xxQ6yM2cQGDKA8yJM4PdpizNXbG-r2CrzrYSSUVGvc7DuAvn6F6Xw3ZxOurlNho080



Scale = 1:77.8

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	0.60	Vert(LL)	-0.52	17-19	>954	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.41	Vert(CT)	-0.91	17-19	>550	240		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.47	Horz(CT)	0.34	12	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.33	17-19	>999	240		Weight: 1160 lb FT = 10%

LUMBER
TOP CHORD 2x6 SP 2400F 2.0E *Except* 10-13:2x8 SP 2400F 2.0E
BOT CHORD 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

WEBS
3-22=-327/3366, 4-21=-292/2444, 10-15=-266/2421, 4-20=-667/6523, 5-20=-403/96, 6-20=-4130/426, 6-19=-52/995, 6-17=-89/68, 8-17=-51/956, 8-16=-3873/395, 9-16=-247/79, 10-16=-661/6191, 3-21=-428/84

- Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 499 lb uplift at joint 2 and 486 lb uplift at joint 12.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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

NOTES
1) 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 oc.
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: 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.

REACTIONS (lb/size) 2=4569/0-3-8, 12=4560/0-3-8
Max Horiz 2=-35 (LC 9)
Max Uplift 2=-499 (LC 4), 12=-486 (LC 5)

2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/3, 2-3=-17335/1909, 3-4=-14888/1717, 4-5=-19770/2218, 5-6=-19769/2217, 6-7=-23562/2613, 7-8=-23562/2613, 8-9=-20024/2246, 9-10=-20024/2246, 10-11=-15038/1696, 11-12=-1977/232, 12-13=0/6
BOT CHORD 2-22=-1697/15613, 21-22=-1567/14375, 21-26=-1532/13794, 26-27=-1532/13794, 20-27=-1532/13794, 20-28=-2545/23573, 28-29=-2545/23573, 29-30=-2545/23573, 19-30=-2545/23573, 18-19=-2545/23573, 18-31=-2545/23573, 31-32=-2545/23573, 17-32=-2545/23573, 17-33=-2545/23586, 33-34=-2545/23586, 34-35=-2545/23586, 16-35=-2545/23586, 16-36=-1562/14328, 36-37=-1562/14328, 15-37=-1562/14328, 11-15=-1543/14162, 12-14=0/0

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; 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 crushing capacity of 425 psi.



December 17, 2025

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 a truss system. Before use, the building designer must verify the applicability of the design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcsc.com).

MiTek®
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Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job B250400	Truss A1	Truss Type Hip Girder	Qty 1	Ply 4	Lot 123 RS Job Reference (optional)
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Wheeler Lumber, Waverly, KS - 66871,

Run: 8.83 E Feb 18 2025 Print: 8.830 E Feb 18 2025 MiTek Industries, Inc. Wed Dec 17 15:20:05 Page: 2
 ID:xxQ6yM2cQGDKA8yJM4PdpizNXbG-r2CrzrYS5UVGvc7DuAvn6F6XwX3ZxO4rInhcc80

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13) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 797 lb down and 187 lb up at 7-0-0, 284 lb down and 38 lb up at 9-0-12, 284 lb down and 38 lb up at 11-0-12, 284 lb 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 17-0-12, 278 lb down and 38 lb up at 19-0-12, 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 24-11-4, 278 lb down and 38 lb up at 26-11-4, 260 lb down and 47 lb up at 28-11-4, 278 lb down and 38 lb up at 30-11-4, and 278 lb down and 38 lb up at 32-11-4, and 818 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

1) Dead + Roof Live (balanced): Lumber Increase=1.15,
 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=-797 (B), 15=-818 (B),
 26=-284 (B), 27=-284 (B), 28=-284 (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)

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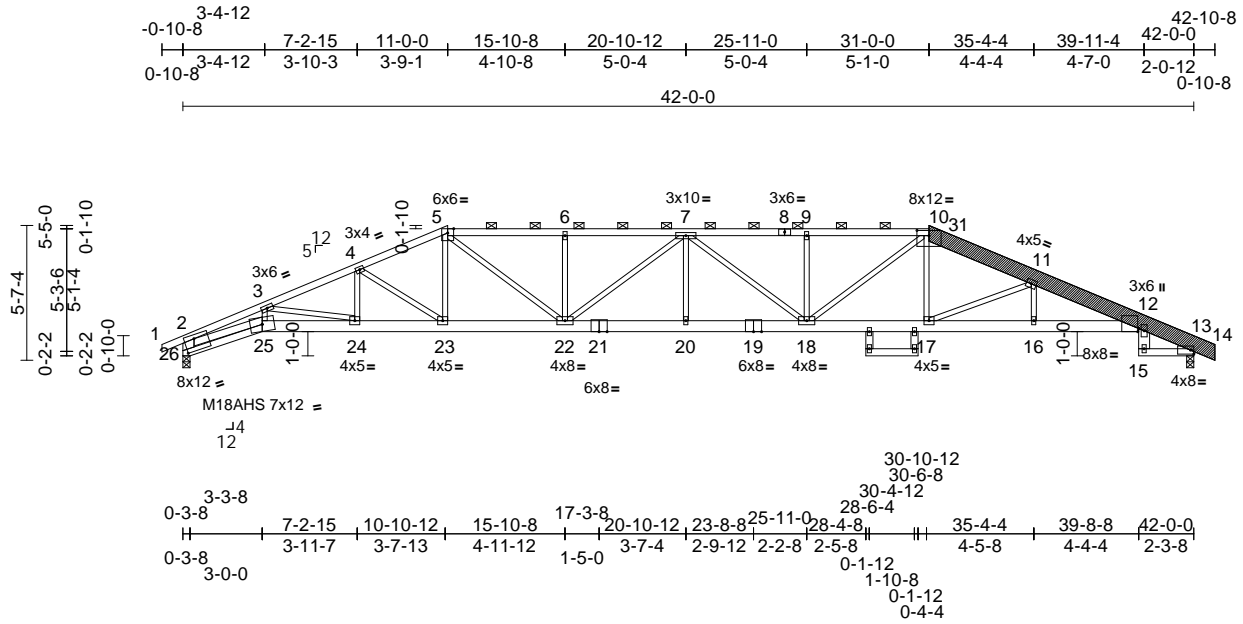
MiTek®

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 Chesterfield, MO 63017
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Job	Truss	Truss Type	Qty	Ply	Lot 123 RS
B250400	A3	Hip	1	1	Job Reference (optional)

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01/26/2026 3:17:36

Wheeler Lumber, Waverly, KS - 66871, Run: 8.83 E Feb 18 2025 Print: 8.830 E Feb 18 2025 MiTek Industries, Inc. Wed Dec 17 15:25:23 Page: 1
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Scale = 1:95.7

Plate Offsets (X, Y): [10:0-6-0,0-2-10], [12:0-0-7,Edge], [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	0.85	Vert(LL)	-0.51	20-22	>975	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.94	Vert(CT)	-0.92	20-22	>540	240	M18AHS	142/136
BCLL	0.0*	Rep Stress Incr	YES	WB	0.64	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: 265 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 SP 2400F 2.0E, 27-29,28-30:2x4 SPF No.2
LBR SCAB 10-14 SP 2400F 2.0E one side

BRACING
TOP CHORD Structural wood sheathing directly applied or 1-9-1 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 (lb/size) 13=1944/0-3-8, 26=1951/0-3-8
Max Horiz 26=82 (LC 13)
Max Uplift 13=254 (LC 5), 26=257 (LC 4)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/30, 2-3=-6146/740, 3-4=-4799/636, 4-5=-4152/613, 5-6=-4683/743, 6-7=-4680/741, 7-8=-4710/745, 8-9=-4710/745, 9-10=-4711/744, 10-31=-4184/625, 11-31=-4266/614, 11-12=-5171/661, 12-13=-818/124, 13-14=0/0, 2-26=-1971/276
BOT CHORD 25-26=-114/446, 24-25=-645/5541, 23-24=-512/4413, 22-23=-445/3790, 21-22=-666/5021, 20-21=-666/5021, 19-20=-666/5021, 18-19=-666/5021, 17-18=-449/3917, 16-17=-562/4914, 12-16=-563/4914, 13-15=0/0

WEBS
3-25=-26/665, 5-23=-52/582, 10-17=-32/658, 11-17=-1115/197, 2-25=-614/5195, 11-16=0/190, 4-23=-733/176, 5-22=-220/1257, 6-22=-419/161, 7-22=-540/88, 7-20=0/231, 7-18=-503/80, 9-18=-344/149, 10-18=-200/1125, 4-24=-8/387, 3-24=-1155/217

- 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 3-7-6 from end at joint 10, nail 2 row(s) at 7" o.c. for 2-0-0; starting at 8-4-13 from end at joint 10, nail 2 row(s) at 3" 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.
 - Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; 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.
 - The Fabrication Tolerance at joint 12 = 6%, joint 12 = 6%
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
 - All bearings are assumed to be SPF No.2 crushing capacity of 425 psi.
 - 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.

- Provide mechanical connection (by others) to truss to bearing plate capable of withstanding 257 lb uplift at joint 26 and 254 lb uplift at joint 13.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard



December 17, 2025

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

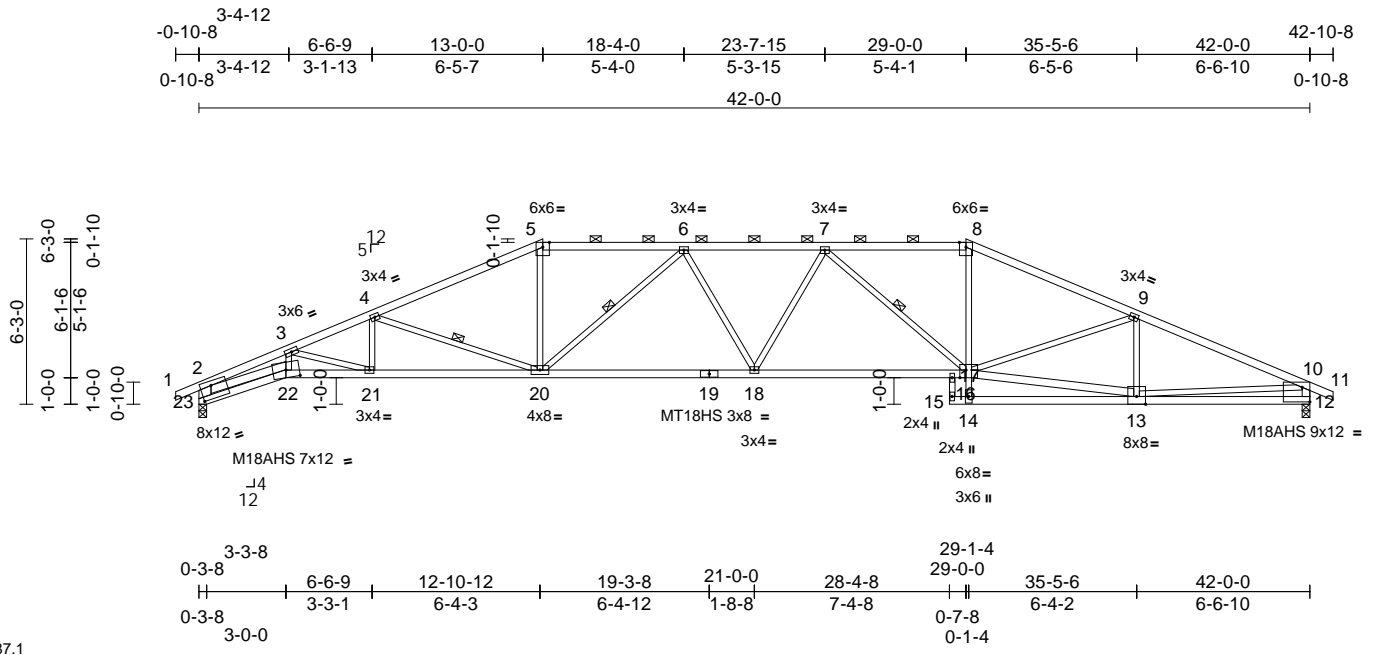
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Job	Truss	Truss Type	Qty	Ply	Lot 123 RS
B250400	A4	Hip	1	1	Job Reference (optional)

RELEASE FOR CONSTRUCTION
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DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
01/26/2026 3:17:36

Wheeler Lumber, Waverly, KS - 66871, Run: 8.83 S Sep 3 2025 Print: 8.830 S Sep 3 2025 MiTek Industries, Inc. The Dec 16 13:01:44 Page: 1
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Scale = 1:87.1

Plate Offsets (X, Y): [12:Edge,0-6-11], [16:0-2-12,Edge], [22:0-6-0,0-3-7], [23:0-5-0,0-6-0]

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	0.61	Vert(LL)	-0.39	17-18	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.55	Vert(CT)	-0.73	17-18	>688	240	M18AHS	142/136
BCLL	0.0*	Rep Stress Incr	YES	WB	0.85	Horz(CT)	0.33	12	n/a	n/a	MT18HS	244/190
BCDL	10.0	Code	IRC2018/TP12014	Matrix-S		Wind(LL)	0.27	17-18	>999	240		Weight: 186 lb FT = 10%

LUMBER
TOP CHORD 2x4 SP 2400F 2.0E *Except* 5-8:2x4 SPF No.2
BOT CHORD 2x4 SPF No.2 *Except* 22-19,19-16:2x4 SP 2400F 2.0E, 17-15:2x3 SPF No.2
WEBS 2x3 SPF No.2 *Except* 23-2:2x6 SPF No.2, 22-2,12-10:2x4 SP 2400F 2.0E, 16-13:2x4 SPF No.2

WEBS
3-22=58/745, 4-20=-1154/289, 5-20=-68/1050, 14-16=0/432, 8-16=-70/1041, 9-13=-601/152, 2-22=500/4986, 10-13=-241/2471, 4-21=0/389, 3-21=-900/148, 6-18=-11/207, 6-20=-918/182, 7-18=-10/205, 7-16=-905/182, 9-16=-22/496, 13-16=-292/3069

BRACING
TOP CHORD Structural wood sheathing directly applied or 2-10-4 oc purlins, except end verticals, and 2-0-0 oc purlins (2-6-11 max.): 5-8.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 14-15.
WEBS 1 Row at midpt 4-20, 6-20, 7-16

REACTIONS (size) 12=0-3-8, 23=0-3-8
Max Horiz 23=80 (LC 13)
Max Uplift 12=230 (LC 5), 23=233 (LC 4)
Max Grav 12=1944 (LC 1), 23=1951 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/30, 2-3=-6032/631, 3-4=-4890/568, 4-5=-3805/506, 5-6=-3420/490, 6-7=-4037/582, 7-8=-3431/491, 8-9=-3785/505, 9-10=-3529/413, 10-11=0/27, 2-23=-2026/259, 10-12=-1865/262
BOT CHORD 22-23=-149/537, 21-22=-537/5388, 20-21=-459/4527, 18-20=-449/3989, 17-18=-451/3989, 16-17=-409/3908, 15-17=-266/0, 14-15=-41/82, 13-14=-32/138, 12-13=-114/710

- 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.
 - 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 233 lb uplift at joint 23 and 230 lb uplift at joint 12.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard



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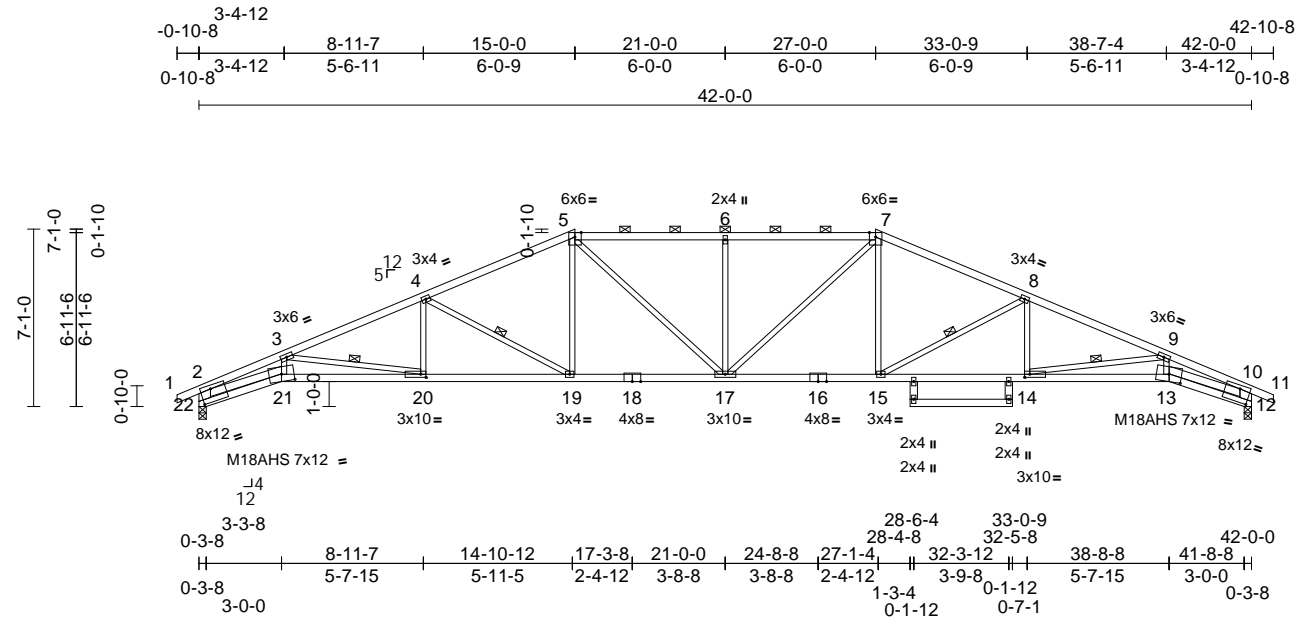
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Job	Truss	Truss Type	Qty	Ply	Lot 123 RS
B250400	A5	Hip	1	1	Job Reference (optional)

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Run: 8.83 S Sep 3 2025 Print: 8.830 S Sep 3 2025 MiTek Industries, Inc. The Dec 16 13:01:45 Page: 1
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Scale = 1:91.9

Plate Offsets (X, Y): [12:0-5-0,0-6-4], [13:0-6-0,0-3-7], [14:0-2-8,0-1-8], [20:0-2-8,0-1-8], [21:0-6-0,0-3-7], [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	0.90	Vert(LL)	-0.46	17	>999	360	MT20 197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.79	Vert(CT)	-0.84	15-17	>591	240	M18AHS 142/136
BCLL	0.0*	Rep Stress Incr	YES	WB	0.50	Horz(CT)	0.51	12	n/a	n/a	
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.31	17	>999	240	Weight: 180 lb FT = 10%

LUMBER
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2 *Except* 21-18,16-13:2x4 SP 2400F 2.0E
WEBS 2x3 SPF No.2 *Except* 22-2,12-10:2x6 SPF No.2, 21-2,13-10:2x4 SP 2400F 2.0E, 23-25,24-26:2x4 SPF No.2

BRACING
TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (2-2-0 max.): 5-7.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 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 13)
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
TOP CHORD 1-2=0/30, 2-3=-6162/686, 3-4=-4411/463, 4-5=-3482/436, 5-6=-3479/486, 6-7=-3479/486, 2-22=-1972/262, 10-12=-1972/232, 7-8=-3482/436, 8-9=-4411/463, 9-10=-6162/581, 10-11=0/30
BOT CHORD 21-22=-134/397, 20-21=-682/5536, 19-20=-363/4039, 17-19=-238/3132, 15-17=-238/3132, 14-15=-337/4039, 13-14=-496/5536, 12-13=-34/397
WEBS 3-21=-48/757, 3-20=-1519/323, 4-20=0/432, 4-19=-1021/261, 5-19=-53/611, 5-17=-105/670, 6-17=-537/205, 7-17=-105/670, 7-15=-46/611, 8-15=-1021/246, 8-14=0/432, 9-14=-1519/260, 9-13=-7/757, 2-21=-565/5269, 10-13=-481/5269

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



December 17, 2025

NOTES

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

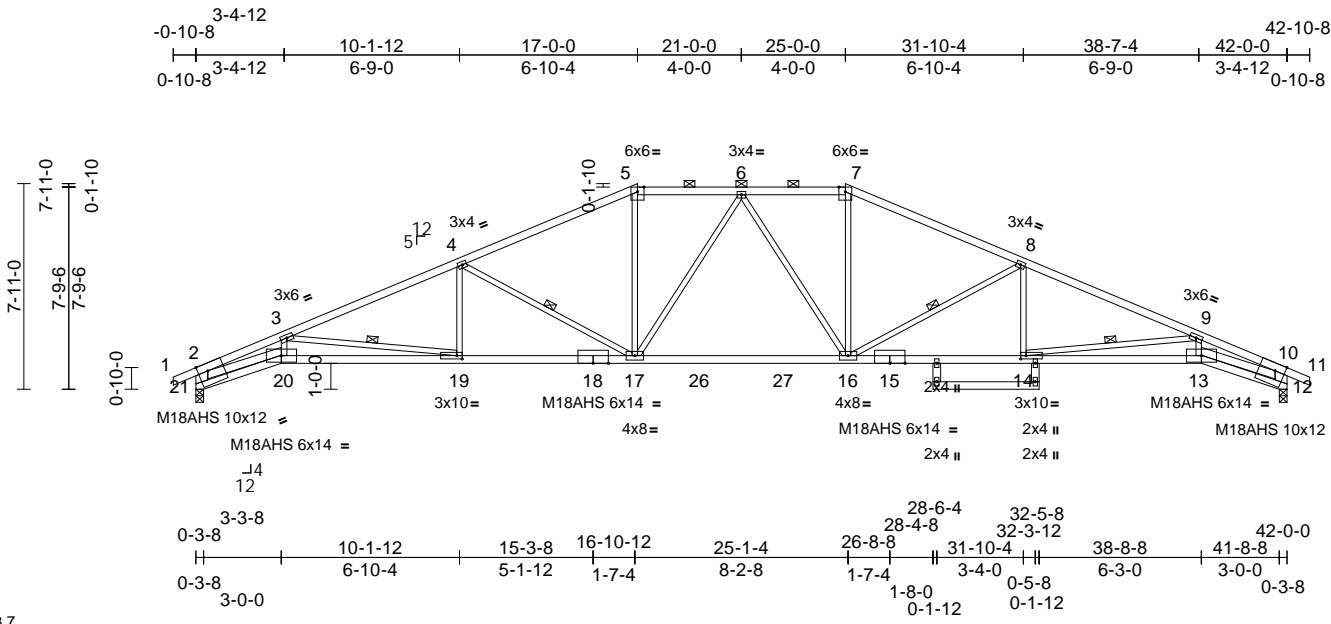
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcsccomponents.com)

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Job	Truss	Truss Type	Qty	Ply	Lot 123 RS
B250400	A6	Hip	1	1	Job Reference (optional)

RELEASE FOR CONSTRUCTION
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DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
01/26/2026 3:17:36

Wheeler Lumber, Waverly, KS - 66871, Run: 8.83 E Nov 14 2024 Print: 8.830 E Nov 14 2024 MiTek Industries, Inc. Wed Dec 17 13:43:11 Page: 1
ID:GNEEB7nAflqmZ7HxHPc7aDzNWTY-VZczJT3HoMIVONu?d2S6WHL_BiWwc061_HNEZ50Y8Pc



Scale = 1:83.7

Plate Offsets (X, Y): [12:0-4-8,Edge], [14:0-2-8,0-1-8], [19:0-2-8,0-1-8], [21:0-4-8,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	0.54	Vert(LL)	-0.49	16-17	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.70	Vert(CT)	-0.85	16-17	>584	240	M18AHS	142/136
BCLL	0.0*	Rep Stress Incr	YES	WB	0.80	Horz(CT)	0.50	12	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.24	17	>999	240		Weight: 197 lb FT = 10%

- LUMBER**
- TOP CHORD 2x4 SP 2400F 2.0E *Except* 5-7:2x4 SPF No.2
 - BOT CHORD 2x4 SPF No.2 *Except*
 - WEBS 2x3 SPF No.2 *Except* 21-2,12-10:2x6 SPF No.2, 20-2,13-10:2x4 SP 2400F 2.0E, 22-24,23-25:2x4 SPF No.2
- BRACING**
- TOP CHORD Structural wood sheathing directly applied or 2-10-0 oc purlins, except end verticals, and 2-0-0 oc purlins (3-2-12 max.): 5-7.
 - BOT CHORD Rigid ceiling directly applied or 9-4-12 oc bracing.
 - WEBS 1 Row at midpt 3-19, 4-17, 8-16, 9-14
- REACTIONS** (size) 12=0-3-8, 21=0-3-8
 Max Horiz 21=109 (LC 13)
 Max Uplift 12=232 (LC 9), 21=232 (LC 8)
 Max Grav 12=2009 (LC 2), 21=2009 (LC 2)
- FORCES** (lb) - Maximum Compression/Maximum Tension
- TOP CHORD 1-2=0/30, 2-3=-6444/784, 3-4=-4410/447, 4-5=-3373/357, 5-6=-3029/352, 6-7=-3029/352, 2-21=-2047/282, 10-12=-2047/247, 7-8=-3373/357, 8-9=-4410/415, 9-10=-6444/665, 10-11=0/30
 - BOT CHORD 20-21=-147/521, 19-20=-789/5779, 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=-577/5779, 12-13=-31/479
 - WEBS 3-20=-53/902, 3-19=-1758/398, 4-19=0/507, 4-17=-1140/298, 5-17=-31/1002, 7-16=-31/1002, 8-16=-1140/283, 8-14=0/507, 9-14=-1758/323, 9-13=-5/902, 2-20=-661/5462, 10-13=-552/5462, 6-17=-417/110, 6-16=-417/110

- NOTES**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCCL=6.0psf; BCCL=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 BCCL = 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.
 - 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



December 17, 2025

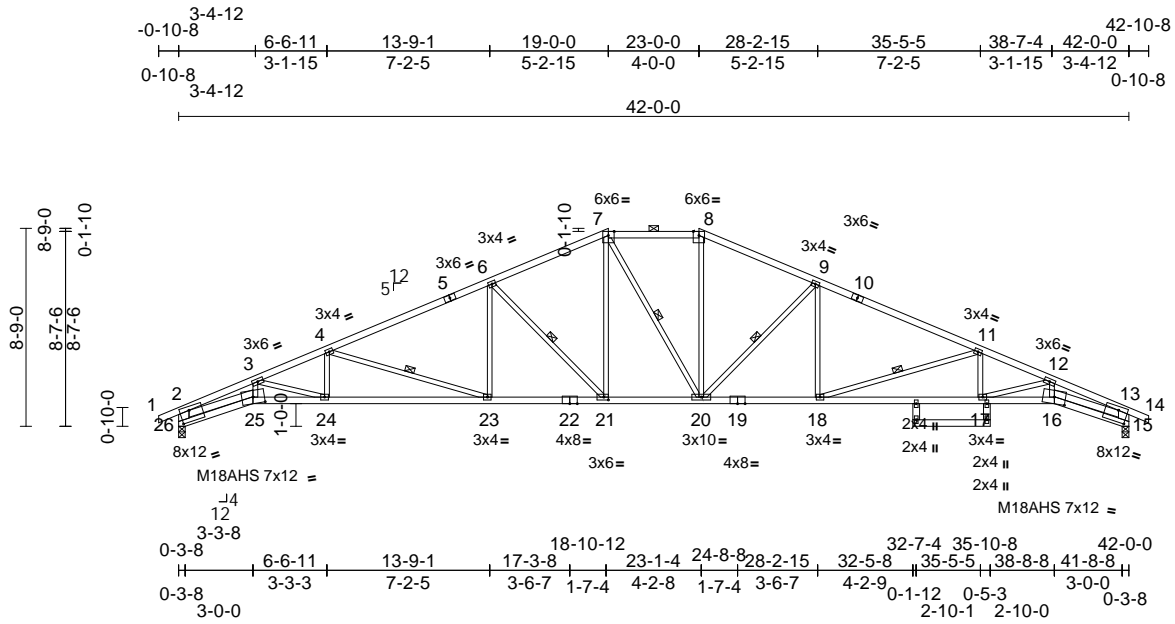
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.
 Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcsccomponents.com)

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Job	Truss	Truss Type	Qty	Ply	Lot 123 RS
B250400	A7	Hip	1	1	Job Reference (optional)

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01/26/2026 3:17:37

Wheeler Lumber, Waverly, KS - 66871, Run: 8.83 S Sep 3 2025 Print: 8.830 S Sep 3 2025 MiTek Industries, Inc. The Dec 16 13:01:46 Page: 1
ID:UqqDauCh0Uc?cPKMLBUyuzNWU2-RfC?PsB70Hq3NSgPqnL8w3uITXGKwUcDof745072



Scale = 1:101.8

Plate Offsets (X, Y): [15:0-5-0,0-6-0], [16:0-6-0,0-3-7], [21:0-2-8,0-1-8], [25:0-6-0,0-3-7], [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	0.95	Vert(LL)	-0.43	21	>999	360	MT20 197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.80	Vert(CT)	-0.77	21-23	>646	240	M18AHS 142/136
BCLL	0.0*	Rep Stress Incr	YES	WB	0.70	Horz(CT)	0.48	15	n/a	n/a	
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.28	21-23	>999	240	Weight: 187 lb FT = 10%

LUMBER
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2 *Except* 25-22,19-16:2x4 SP 2400F 2.0E
WEBS 2x3 SPF No.2 *Except* 26-2,15-13:2x6 SPF No.2, 25-2,16-13:2x4 SP 2400F 2.0E, 27-29,28-17:2x4 SPF No.2

WEBS
3-25=-105/713, 7-21=-133/774,
7-20=-244/252, 8-20=-66/775,
12-16=-50/712, 2-25=-634/5054,
13-16=-506/5054, 6-21=-969/258,
9-20=-964/249, 4-24=0/439, 3-24=-911/207,
4-23=-1292/309, 6-23=-14/531, 9-18=-4/528,
11-18=-1294/277, 11-17=0/440,
12-17=-910/137

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 9-3-0 oc bracing.
WEBS 1 Row at midpt 7-20, 6-21, 9-20, 4-23, 11-18

- NOTES**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCCL=6.0psf; BCCL=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.
 - 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.
 - 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.
 - 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.

REACTIONS (size) 15=0-3-8, 26=0-3-8
Max Horiz 26=123 (LC 13)
Max Uplift 15=250 (LC 9), 26=250 (LC 8)
Max Grav 15=1947 (LC 1), 26=1947 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/30, 2-3=-6033/809, 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=-6033/670, 13-14=0/30, 2-26=-1994/324, 13-15=-1994/285
BOT CHORD 25-26=-205/475, 24-25=-810/5403, 23-24=-612/4531, 21-23=-317/3298, 20-21=-135/2609, 18-20=-170/3297, 17-18=-434/4531, 16-17=-565/5403, 15-16=-74/476

LOAD CASE(S) Standard



December 17, 2025

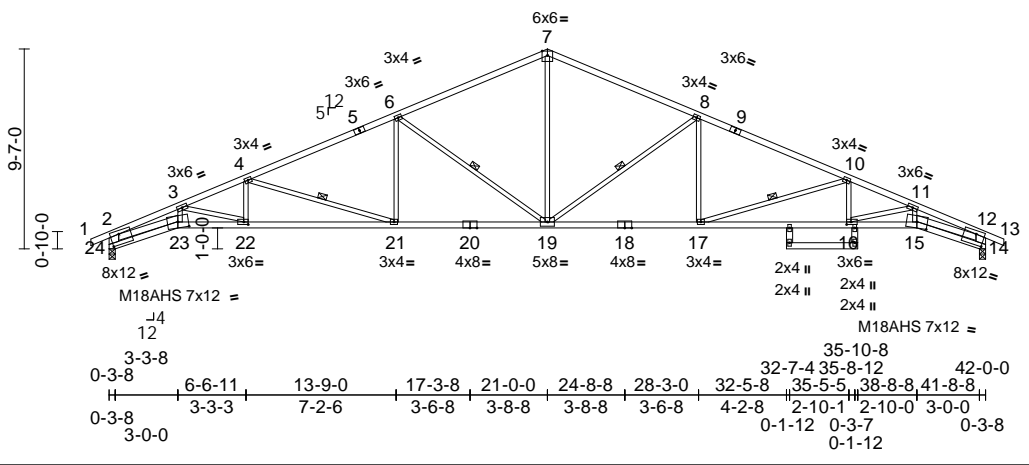
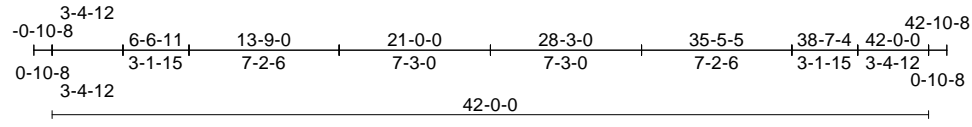
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.
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Job	Truss	Truss Type	Qty	Ply	Lot 123 RS
B250400	B1	Roof Special	1	1	Job Reference (optional)

RELEASE FOR CONSTRUCTION
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LEE'S SUMMIT, MISSOURI
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Wheeler Lumber, Waverly, KS - 66871, Run: 8.83 S Sep 3 2025 Print: 8.830 S Sep 3 2025 MiTek Industries, Inc. The Dec 16 13:01:46 Page: 1
ID:OxhzhDjOVrVlRoOgWhezjzX478-RfC?PsB70Hq3NSgPqnL8w3uITXbGKwVRCDD7J4ZK6



Scale = 1:110.4
Plate Offsets (X, Y): [14:0-5-0,0-6-0], [15:0-6-0,0-3-7], [16:0-2-8,0-1-8], [22:0-2-8,0-1-8], [23:0-6-0,0-3-7], [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	0.95	Vert(LL)	-0.42	17-19	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.90	Vert(CT)	-0.78	17-19	>638	240	M18AHS	142/136
BCLL	0.0*	Rep Stress Incr	YES	WB	0.87	Horz(CT)	0.48	14	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.29	21	>999	240		Weight: 186 lb FT = 10%

LUMBER
TOP CHORD 2x4 SP 2400F 2.0E *Except* 1-5,9-13:2x4 SPF No.2
BOT CHORD 2x4 SPF No.2 *Except* 23-20,18-15:2x4 SP 2400F 2.0E
WEBS 2x3 SPF No.2 *Except* 24-2,14-12:2x6 SPF No.2, 23-2,15-12:2x4 SP 2400F 2.0E, 25-27,26-28:2x4 SPF No.2

BRACING
TOP CHORD Structural wood sheathing directly applied or 1-4-4 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
8-9-13 oc bracing: 22-23
9-6-0 oc bracing: 19-21.

REACTIONS (size) 14=0-3-8, 24=0-3-8
Max Horiz 24=139 (LC 13)
Max Uplift 14=-265 (LC 9), 24=-265 (LC 8)
Max Grav 14=1947 (LC 1), 24=1947 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/30, 2-3=-6041/883, 3-4=-4887/664, 4-6=-3683/466, 6-7=-2676/338, 7-8=-2676/357, 8-10=-3683/437, 10-11=-4887/598, 11-12=-6041/726, 12-13=0/30, 2-24=-1993/344, 12-14=-1993/299
BOT CHORD 23-24=-222/470, 22-23=-894/5411, 21-22=-671/4516, 19-21=-383/3318, 17-19=-217/3318, 16-17=-470/4516, 15-16=-617/5411, 14-15=-75/470

WEBS 7-19=-127/1522, 8-19=-1171/305, 11-15=-54/714, 6-19=-1171/317, 3-23=-115/714, 2-23=-702/5067, 12-15=-558/5067, 4-22=0/432, 3-22=-935/232, 4-21=-1255/302, 6-21=0/557, 8-17=0/557, 10-17=-1255/265, 10-16=0/432, 11-16=-935/153

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TC DL=6.0psf; BC DL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
3) All plates are MT20 plates unless otherwise indicated.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
6) 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.
7) 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.
8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



December 17, 2025

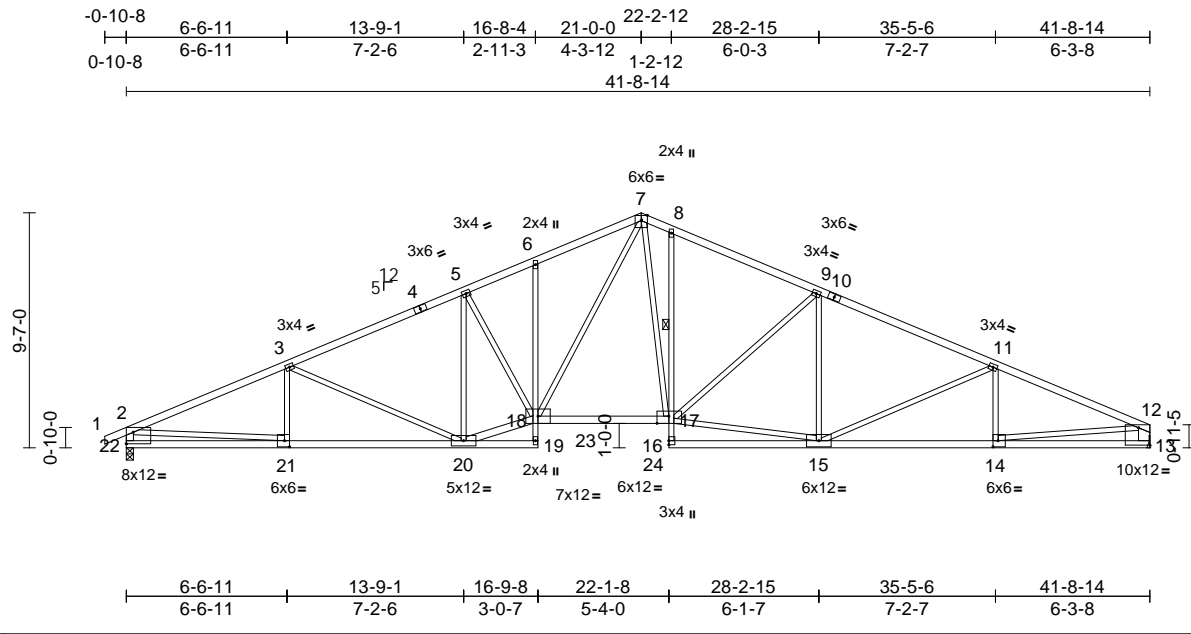
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.
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Job B250400	Truss B2	Truss Type Roof Special	Qty 4	Ply 1	Lot 123 RS
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RELEASE FOR CONSTRUCTION
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DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
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Wheeler Lumber, Waverly, KS - 66871, Run: 8.83 S Sep 3 2025 Print: 8.830 S Sep 3 2025 MiTek Industries, Inc. The Dec 16 13:01:47 Page: 1
ID:s8F8B0EM9ozMz?NbEEctVxzX477-RfC?PsB70Hq3NSgPqnL8w3ulTXbCKWbd7Jz2Of



Scale = 1:94
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,0-5-11]

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	0.85	Vert(LL)	-0.36	17-18	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.99	Vert(CT)	-0.63	17-18	>794	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: 190 lb	FT = 10%

LUMBER
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x3 SPF No.2 *Except* 22-19:2x4 SP 2400F 2.0E, 18-17,16-13:2x4 SPF No.2
WEBS 2x3 SPF No.2 *Except* 22-2:2x4 SP 2400F 2.0E, 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=25 (LC 9), 22=38 (LC 8)
Max Grav 13=1932 (LC 2), 22=1994 (LC 2)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/27, 2-3=-3644/59, 3-5=-3207/65, 5-6=-3292/82, 6-7=-3270/125, 7-8=-2816/96, 8-9=-2885/63, 9-11=-3171/63, 11-12=-3487/56, 2-22=-1869/71, 12-13=-1821/56
BOT CHORD 21-22=-131/708, 20-21=-87/3293, 19-20=-37/34, 18-19=0/11, 6-18=-168/59, 17-18=0/2436, 16-17=0/103, 8-17=-260/91, 15-16=0/89, 14-15=-11/3159, 13-14=-19/367
WEBS 5-18=-20/270, 7-18=-103/1199, 7-17=-92/1104, 9-17=-474/112, 2-21=0/2596, 12-14=0/2812, 3-21=-119/117, 3-20=-502/88, 5-20=-620/33, 18-20=0/3052, 9-15=-161/82, 11-15=-411/86, 15-17=0/2818, 11-14=-209/84

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TC DL=6.0psf; BC DL=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.
 - Refer to girder(s) for truss to truss connections.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 38 lb uplift at joint 22 and 25 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

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

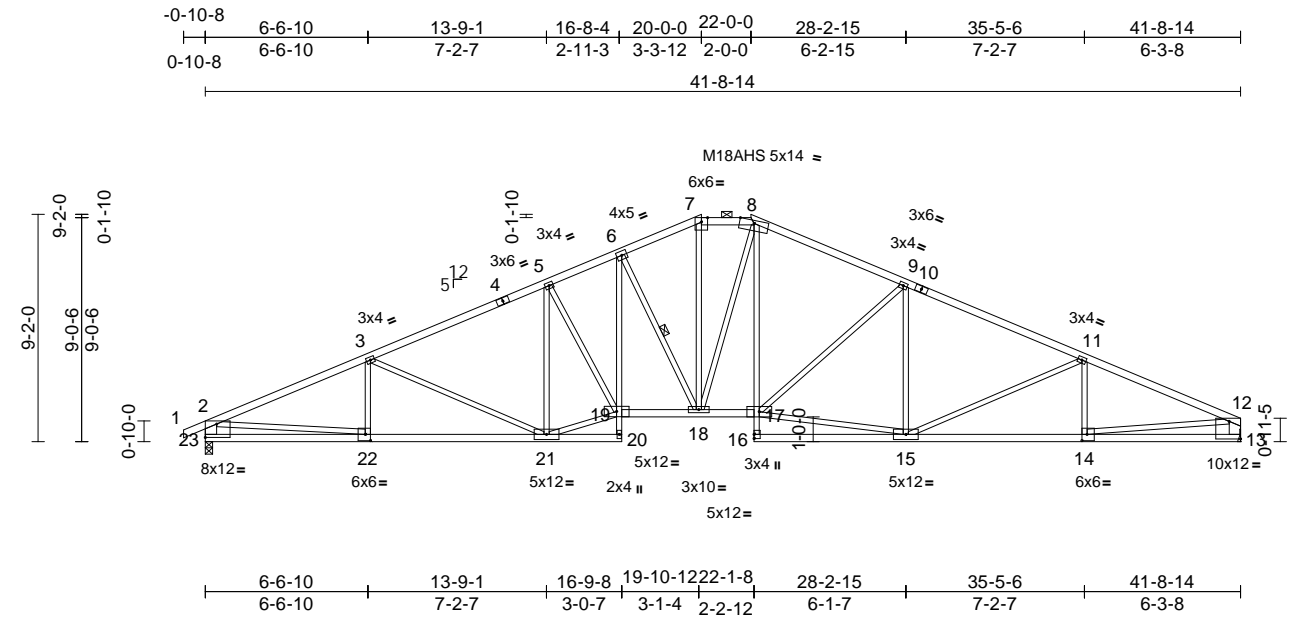


December 17, 2025

Job B250400	Truss B3	Truss Type Hip	Qty 1	Ply 1	Lot 123 RS
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RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
01/26/2026 3:17:37

Wheeler Lumber, Waverly, KS - 66871, Run: 8.83 S Sep 3 2025 Print: 8.830 S Sep 3 2025 MiTek Industries, Inc. The Dec 16 13:01:47 Page: 1
ID:1FPIUnMFZBMonijiN1vSSFzX46y-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrC007Jz2C09



Scale = 1:92.9

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)	l/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	>960	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
BOT CHORD 2x4 SPF No.2 *Except* 20-6,8-16:2x3 SPF No.2
WEBS 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.
WEBS 1 Row at midpt 6-18

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=-3124/71, 6-7=-2694/60, 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=-7/112, 19-20=0/17, 6-19=-52/764, 18-19=0/2819, 17-18=0/2439, 16-17=0/104, 8-17=-30/646, 15-16=0/179, 14-15=-3/3030, 13-14=-19/356
WEBS 5-19=-23/271, 9-17=-484/116, 2-22=0/2536, 12-14=0/2694, 6-18=-784/89, 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=-601/32, 19-21=0/2781, 7-18=-5/797

- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TC DL=6.0psf; BC DL=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
- 3) Provide adequate drainage to prevent water ponding.
- 4) All plates are MT20 plates unless otherwise indicated.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 7) Refer to girder(s) for truss to truss connections.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 34 lb uplift at joint 23 and 21 lb uplift at joint 13.
- 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.
- 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
1) Unbalanced roof live loads have been considered for this design.

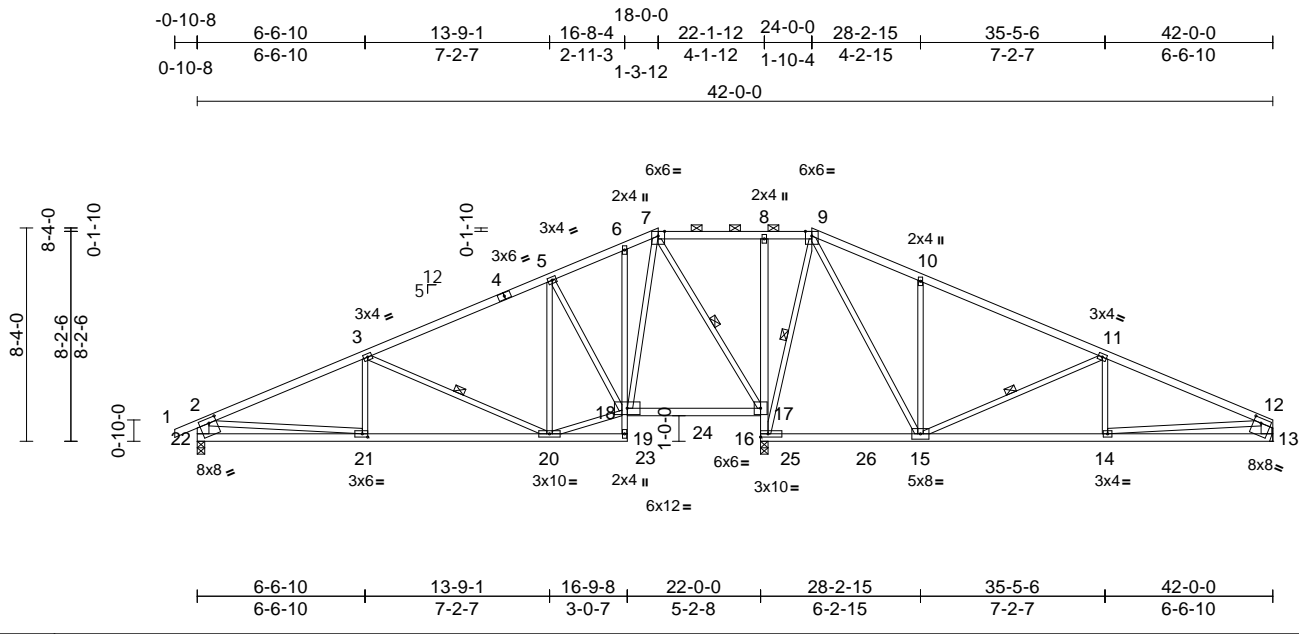


December 17, 2025

Job	Truss	Truss Type	Qty	Ply	Lot 123 RS
B250400	B4	Hip	1	1	Job Reference (optional)

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Wheeler Lumber, Waverly, KS - 66871, Run: 8.83 S Sep 3 2025 Print: 8.830 S Sep 3 2025 MiTek Industries, Inc. The Dec 16 13:01:48 Page: 1
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Scale = 1:90

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

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.
WEBS 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 8)
Max Uplift 13=69 (LC 9), 22=-60 (LC 8)
Max Grav 13=827 (LC 22), 16=2191 (LC 2), 22=1004 (LC 21)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/30, 2-3=-1535/104, 3-5=-869/116, 5-6=-551/138, 6-7=-459/140, 7-8=0/313, 8-9=0/297, 2-22=-932/93, 12-13=-744/101, 9-10=-596/231, 10-11=-621/162, 11-12=-1306/147
BOT CHORD 21-22=-118/412, 20-21=-113/1353, 19-20=-51/6, 18-19=0/10, 6-18=-12/84, 17-18=0/298, 16-17=-1252/17, 8-17=-297/65, 15-16=-95/32, 14-15=-93/1149, 13-14=-29/304
WEBS 5-18=-593/80, 9-16=-858/17, 2-21=0/961, 12-14=-64/849, 7-18=-33/803, 7-17=-1015/28, 10-15=-440/131, 11-15=-722/80, 11-14=0/229, 9-15=-91/1073, 3-21=0/228, 3-20=-690/80, 5-20=0/271, 18-20=-21/800

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TC DL=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.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 60 lb uplift at joint 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.
- 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



December 17, 2025

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

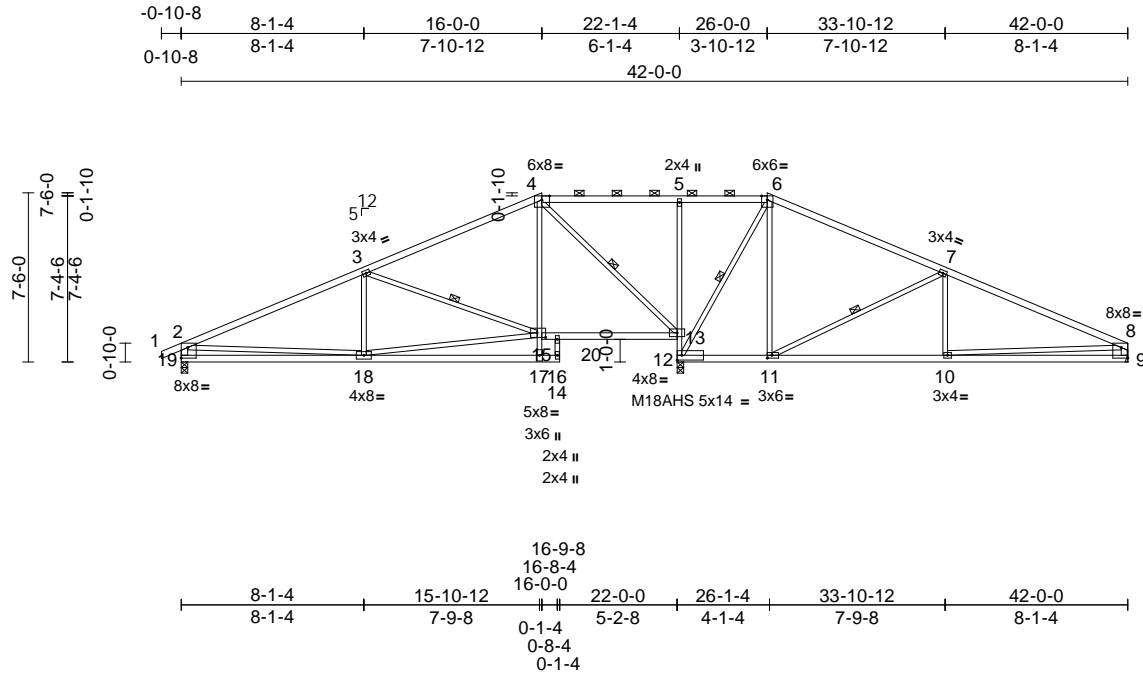
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcsccomponents.com)

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Chesterfield, MO 63017
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Job	Truss	Truss Type	Qty	Ply	Lot 123 RS
B250400	B5	Hip	1	1	Job Reference (optional)

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Wheeler Lumber, Waverly, KS - 66871, Run: 8.83 S Sep 3 2025 Print: 8.830 S Sep 3 2025 MiTek Industries, Inc. The Dec 16 13:01:48 Page: 1
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Scale = 1:102.2

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)	0.04	17-18	>999	240	Weight: 171 lb FT = 10%

LUMBER
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2 *Except* 5-12:2x3 SPF No.2
WEBS 2x3 SPF No.2 *Except* 19-2:2x4 SP 2400F 2.0E, 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.
WEBS 1 Row at midpt 4-13, 6-12, 7-11, 3-15

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=843 (LC 22), 12=2128 (LC 2), 19=1023 (LC 21)

FORCES
(lb) - Maximum Compression/Maximum Tension
TOP CHORD 4-5=0/273, 5-6=0/270, 6-7=-441/157, 7-8=-1292/148, 2-19=-930/102, 8-9=-755/108, 1-2=0/27, 2-3=-1537/107, 3-4=-780/110
BOT CHORD 18-19=-142/623, 17-18=0/53, 16-17=0/0, 14-15=-1/636, 13-14=-1/636, 12-13=-1266/29, 5-13=-395/92, 11-12=0/288, 10-11=-81/1112, 9-10=-41/443
WEBS 14-16=-218/0, 4-13=-1186/3, 6-12=-973/0, 6-11=0/666, 7-11=-928/103, 7-10=0/311, 2-18=0/725, 8-10=-40/677, 3-18=-46/200, 3-15=-757/102, 15-17=0/421, 4-15=0/719, 15-18=-108/1297

- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TC DL=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
- 3) Provide adequate drainage to prevent water ponding.
- 4) All plates are MT20 plates unless otherwise indicated.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 7) Refer to girder(s) for truss to truss connections.
- 8) 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.
- 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.
- 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
1) Unbalanced roof live loads have been considered for this design.



December 17, 2025

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Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of the design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcsccomponents.com)

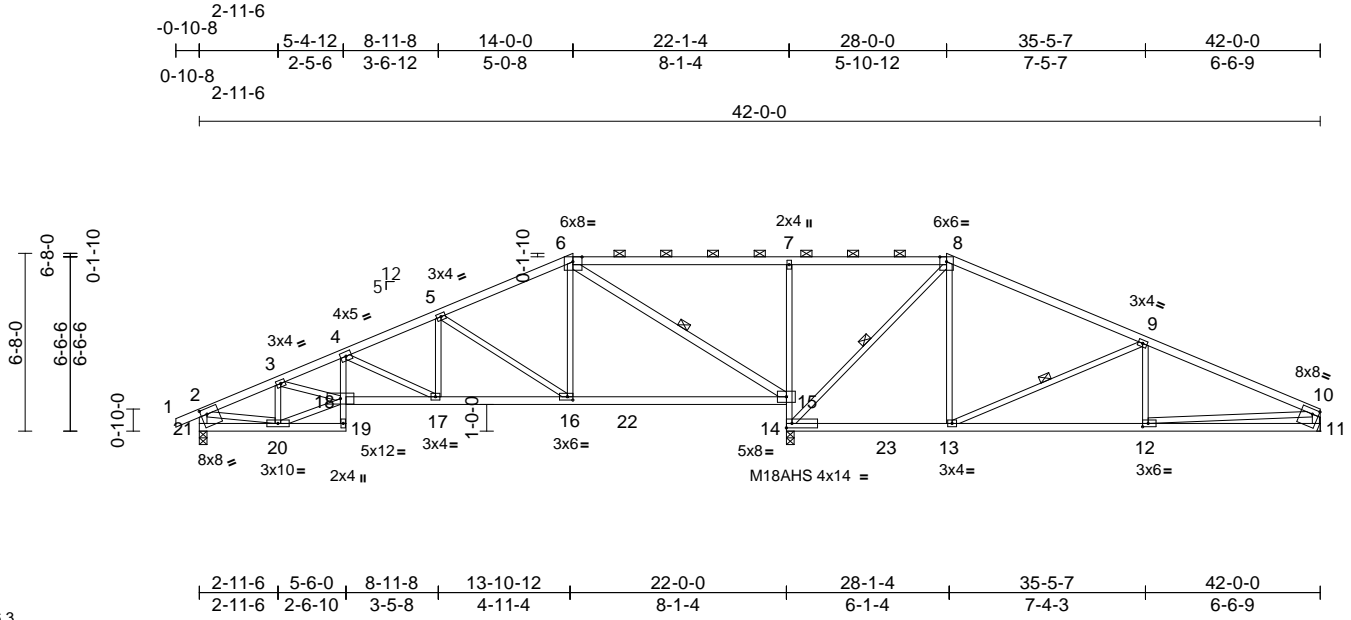
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Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job B250400	Truss B6	Truss Type Hip	Qty 1	Ply 1	Lot 123 RS
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Wheeler Lumber, Waverly, KS - 66871,

Run: 8.83 S Sep 3 2025 Print: 8.830 S Sep 3 2025 MiTek Industries, Inc. The Dec 16 13:01:49 Page: 1
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LEE'S SUMMIT, MISSOURI
01/26/2026 3:17:37



Scale = 1:86.3

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	0.74	Vert(CT)	-0.27	15-16	>994	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
WEBS 2x3 SPF No.2 *Except* 15-6,21-2,11-10:2x4 SPF No.2

BRACING
TOP CHORD Structural wood sheathing directly applied or 3-9-12 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.
WEBS 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)
Max Grav 11=849 (LC 22), 14=2138 (LC 2), 21=1015 (LC 21)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/27, 2-3=-1442/69, 3-4=-2258/136, 4-5=-1655/117, 5-6=-1008/89, 6-7=0/270, 7-8=0/269, 8-9=-641/132, 9-10=-1373/129, 2-21=-945/64, 10-11=-763/90
BOT CHORD 20-21=-62/206, 19-20=-9/81, 18-19=0/60, 4-18=0/369, 17-18=-122/2086, 16-17=-72/1507, 15-16=0/873, 14-15=-1324/65, 7-15=-579/135, 13-14=0/500, 12-13=-76/1213, 11-12=-24/306

WEBS 5-16=-744/100, 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=0/417, 4-17=-647/56, 3-20=-693/79, 3-18=-33/811, 18-20=-89/1309, 2-20=-30/1130

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



December 17, 2025

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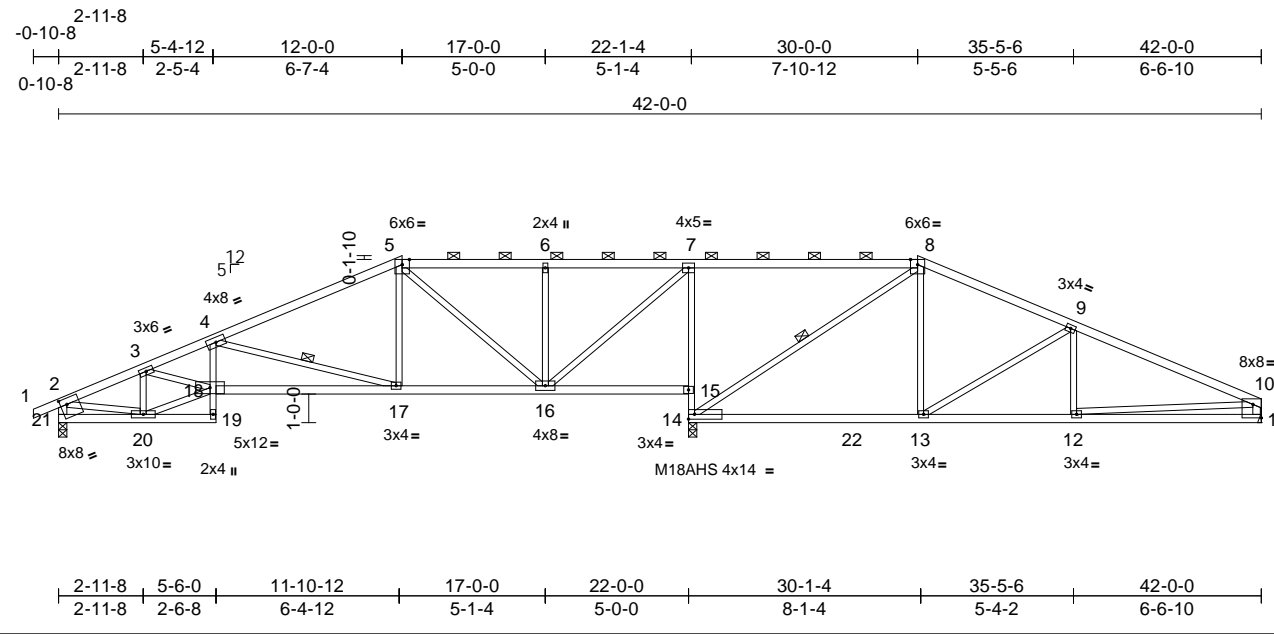
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Chesterfield, MO 63017
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Job	Truss	Truss Type	Qty	Ply	Lot 123 RS
B250400	B7	Hip	1	1	Job Reference (optional)

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
01/26/2026 3:17:37

Wheeler Lumber, Waverly, KS - 66871, Run: 8.83 S Sep 3 2025 Print: 8.830 S Sep 3 2025 MiTek Industries, Inc. The Dec 16 13:01:49 Page: 1
ID: D520EkHuzLcf3mGY0no2C_zX472-RfC?PsB70Hq3NSgPqnL8w3ulTXbCKWcbdt7Jz2Cf



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)	-0.30	13-14	>803	240	M18AHS 142/136
BCLL	0.0*	Rep Stress Incr	YES	WB	0.92	Horz(CT)	0.04	11	n/a	n/a	
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.06	17-18	>999	240	Weight: 160 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

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 3-6-15 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.

WEBS 1 Row at midpt 4-17, 8-14

REACTIONS (size) 11= Mechanical, 14=0-3-8, 21=0-3-8

Max Horiz 21=47 (LC 10)

Max Uplift 11=-36 (LC 9), 14=-43 (LC 5), 21=-33 (LC 8)

Max Grav 11=881 (LC 22), 14=2054 (LC 2), 21=1030 (LC 21)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/27, 2-3=-1458/32, 3-4=-2372/89, 4-5=-1349/42, 5-6=-757/73, 6-7=-755/71, 7-8=0/166, 8-9=-913/81, 9-10=-1395/81, 2-21=-960/47, 10-11=-770/73

BOT CHORD 20-21=-57/218, 19-20=-22/80, 18-19=0/58, 4-18=0/389, 17-18=-88/2253, 16-17=0/1167, 15-16=-179/34, 14-15=-1350/98, 7-15=-1284/125, 13-14=0/777, 12-13=-30/1225, 11-12=-24/372

WEBS 4-17=-1112/131, 5-17=0/528, 5-16=-558/27, 7-16=-2/1182, 8-14=-1077/0, 8-13=0/578, 9-13=-524/86, 9-12=0/164, 10-12=-6/857, 3-20=-688/47, 3-18=-34/932, 18-20=-28/1336, 2-20=0/1120, 6-16=-325/74

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



December 17, 2025

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

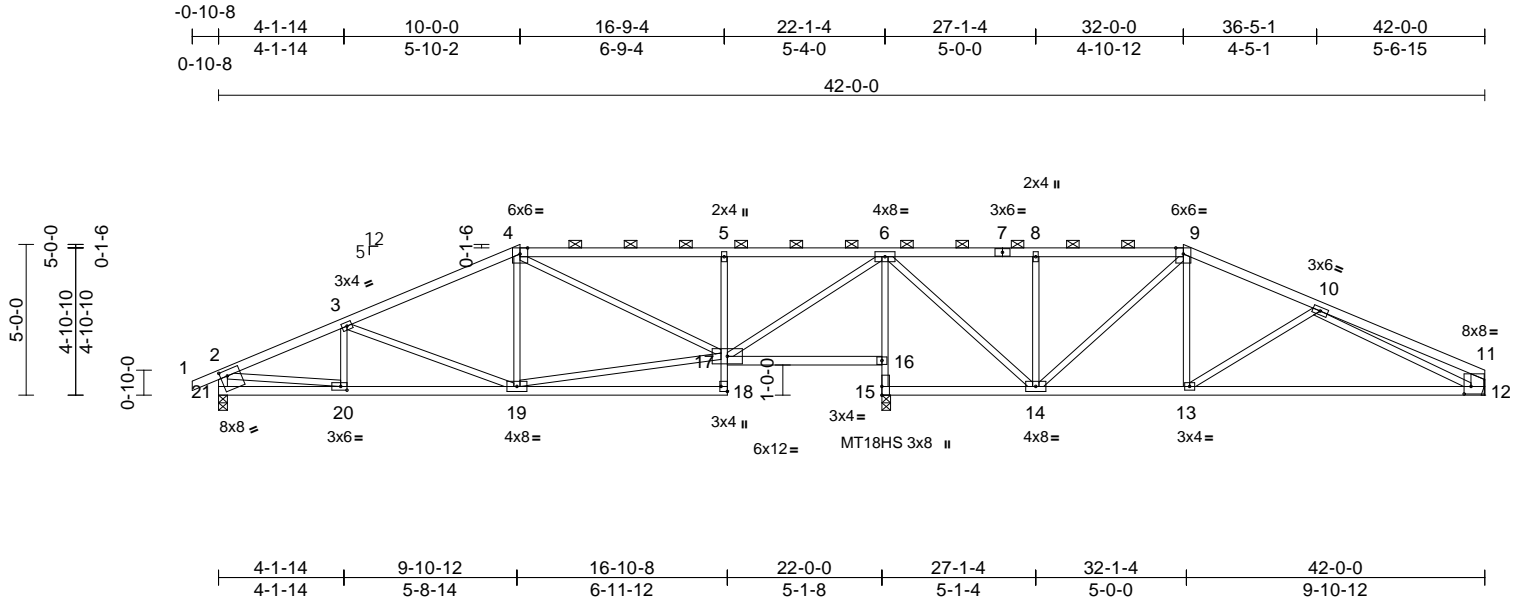
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcsccomponents.com)

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Job B250400	Truss B8	Truss Type Hip	Qty 1	Ply 1	Lot 123 RS
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RELEASE FOR CONSTRUCTION
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01/26/2026 3:17:37

Wheeler Lumber, Waverly, KS - 66871, Run: 8.83 S Sep 3 2025 Print: 8.830 S Sep 3 2025 MiTek Industries, Inc. The Dec 16 13:01:49 Page: 1
ID:lvUe00HsC1UoRdhMT3HpgnzX473-RfC?PsB70Hq3NSgPqnL8w3uITXBCKWfC0d0714207f



Scale = 1:76.4
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]

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
BOT CHORD 2x4 SPF No.2 *Except* 18-5.6-15:2x3 SPF No.2
WEBS 2x3 SPF No.2 *Except* 21-2:2x4 SP 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)
Max Grav 12=848 (LC 20), 15=1952 (LC 1), 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

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TC DL=6.0psf; BC DL=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.
- 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.
- 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



December 17, 2025

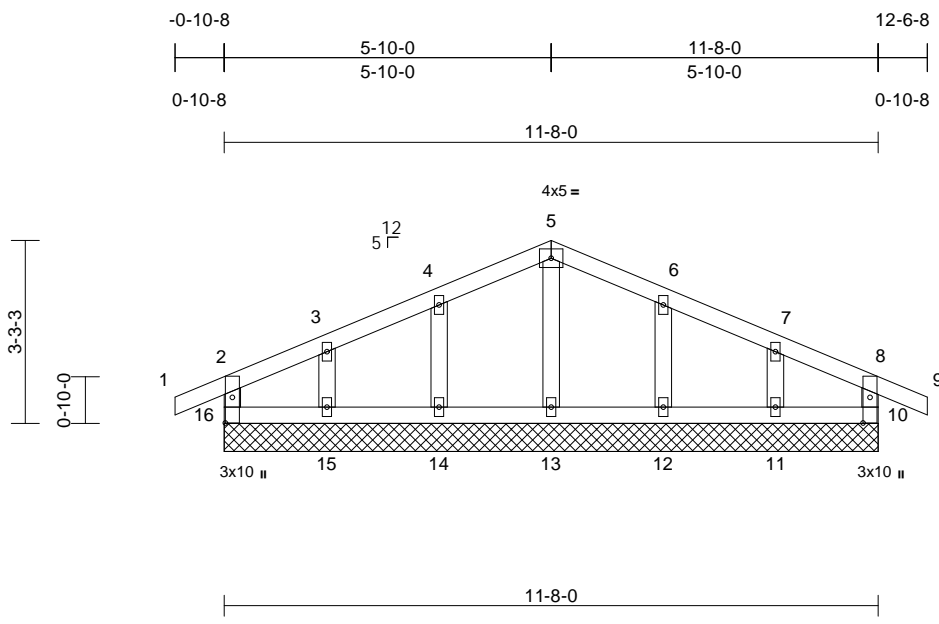
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcsccomponents.com)

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Chesterfield, MO 63017
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Job B250400	Truss C1	Truss Type Common Supported Gable	Qty 1	Ply 1	Lot 123 RS
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DEVELOPMENT SERVICES
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01/26/2026 3:17:37

Wheeler Lumber, Waverly, KS - 66871, Run: 8.83 S Sep 3 2025 Print: 8.830 S Sep 3 2025 MiTek Industries, Inc. The Dec 16 13:01:50 Page: 1
ID:zEtypsiqUj_OeJcDyUWIEozX4oP-RfC?PsB70Hq3NSgPqnL8w3ulTXbGK1WRC0071421C10



Scale = 1:41.1

Plate Offsets (X, Y): [10:0-5-8,0-1-8], [16:0-5-8,0-1-8]

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	0.02	Horz(CT)	0.00	10	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R							Weight: 41 lb	FT = 10%

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

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

REACTIONS (size)
10=11-8-0, 11=11-8-0, 12=11-8-0, 13=11-8-0, 14=11-8-0, 15=11-8-0, 16=11-8-0
Max Horiz 16=-29 (LC 13)
Max Uplift 10=42 (LC 5), 11=-52 (LC 9), 12=51 (LC 9), 14=51 (LC 8), 15=54 (LC 8), 16=43 (LC 4)
Max Grav 10=152 (LC 22), 11=156 (LC 1), 12=197 (LC 22), 13=172 (LC 1), 14=197 (LC 21), 15=156 (LC 1), 16=152 (LC 21)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 2-16=-136/51, 1-2=0/27, 2-3=-29/43, 3-4=-19/56, 4-5=-25/76, 5-6=-25/71, 6-7=-19/52, 7-8=-25/39, 8-9=0/27, 8-10=-136/51
BOT CHORD 15-16=-11/28, 14-15=-11/28, 13-14=-11/28, 12-13=-11/28, 11-12=-11/28, 10-11=-11/28
WEBS 5-13=-132/0, 4-14=-156/76, 3-15=-117/71, 6-12=-156/77, 7-11=-117/70

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

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TC DL=6.0psf; BC DL=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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 43 lb uplift at joint 16, 42 lb uplift at joint 10, 51 lb uplift at joint 14, 54 lb uplift at joint 15, 51 lb uplift at joint 12 and 52 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



December 17, 2025

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Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcsccomponents.com)

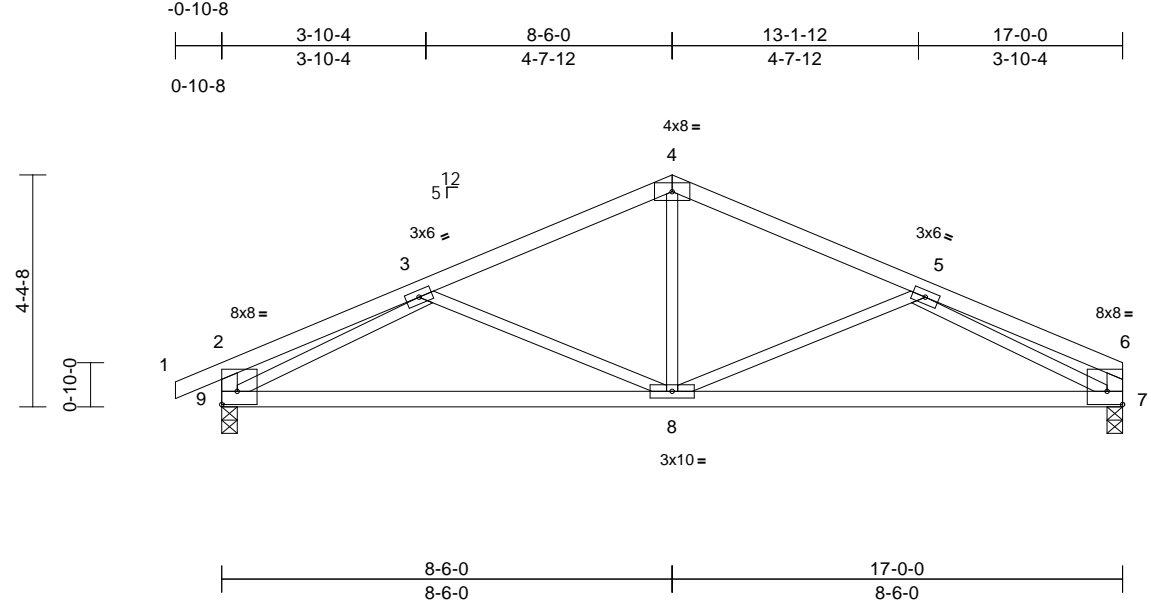
MiTek®
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Chesterfield, MO 63017
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Job	Truss	Truss Type	Qty	Ply	Lot 123 RS
B250400	C3	Common	4	1	Job Reference (optional)

RELEASE FOR CONSTRUCTION
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01/26/2026 3:17:37

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.83 E Nov 14 2024 Print: 8.830 E Nov 14 2024 MiTek Industries, Inc. Wed Dec 17 13:44:01
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Scale = 1:40.9

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

- 6) 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.
- 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.

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.

LOAD CASE(S) Standard

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
WEBS 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.
 - 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
 - 5) All bearings are assumed to be SPF No.2 crushing capacity of 425 psi.



December 17, 2025

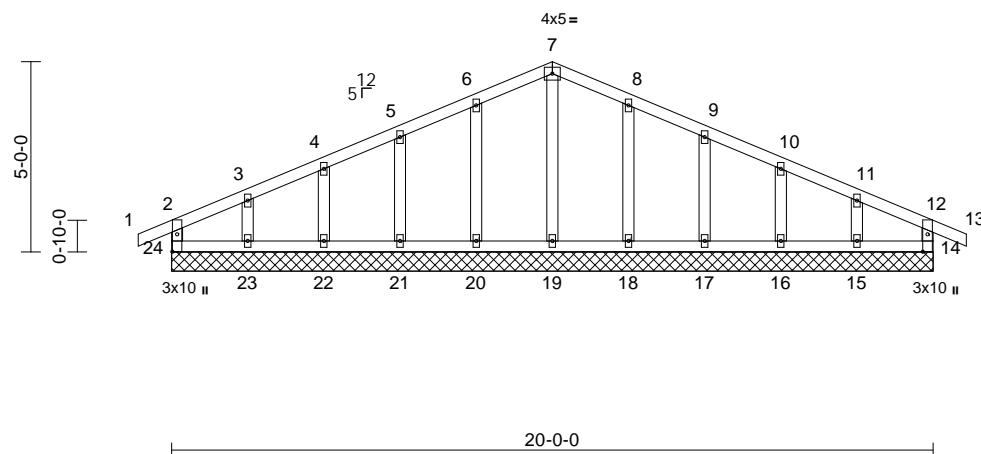
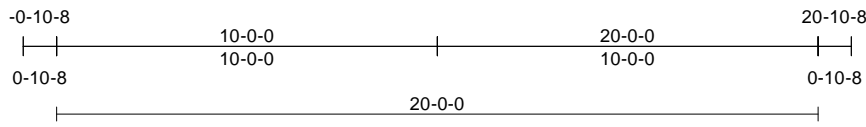
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Job	Truss	Truss Type	Qty	Ply	Lot 123 RS
B250400	D1	Common Supported Gable	1	1	Job Reference (optional)

RELEASE FOR CONSTRUCTION
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Wheeler Lumber, Waverly, KS - 66871, Run: 8.83 S Sep 3 2025 Print: 8.830 S Sep 3 2025 MiTek Industries, Inc. The Dec 16 13:01:51 Page: 1
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Scale = 1:60.5

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
WEBS 2x4 SPF No.2
OTHERS 2x4 SPF No.2

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

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)
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),
20=191 (LC 21), 21=177 (LC 1),
22=184 (LC 21), 23=166 (LC 1),
24=160 (LC 21)

- NOTES**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TC DL=6.0psf; BC DL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - 4) All plates are 2x4 (||) MT20 unless otherwise indicated.
 - 5) Gable requires continuous bottom chord bearing.
 - 6) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
 - 7) Gable studs spaced at 2-0-0 oc.
 - 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 9) * 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) 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.
 - 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.

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

LOAD CASE(S) Standard



December 17, 2025

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcsccomponents.com)

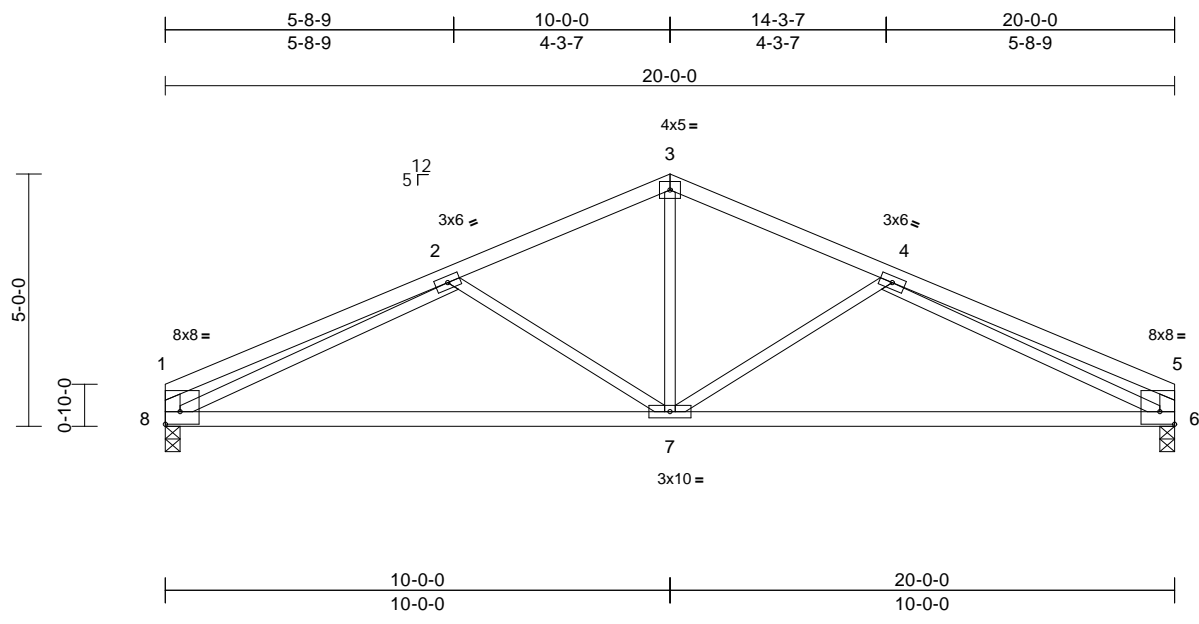
MiTek®
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Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job B250400	Truss D2	Truss Type Common	Qty 5	Ply 1	Lot 123 RS
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RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
01/26/2026 3:17:38

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.83 S Sep 3 2025 Print: 8.830 S Sep 3 2025 MiTek Industries, Inc. The Dec 16 13:01:51 Page: 1
 ID:RQRL1CjSF16FGTBPWB1Xn?zX4oO-RfC?PsB70Hq3NSgPqnL8w3uITXlGKwUCDorZ46C2



Scale = 1:45.7

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

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

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
 TOP CHORD 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**
- 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.
 - 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.



December 17, 2025

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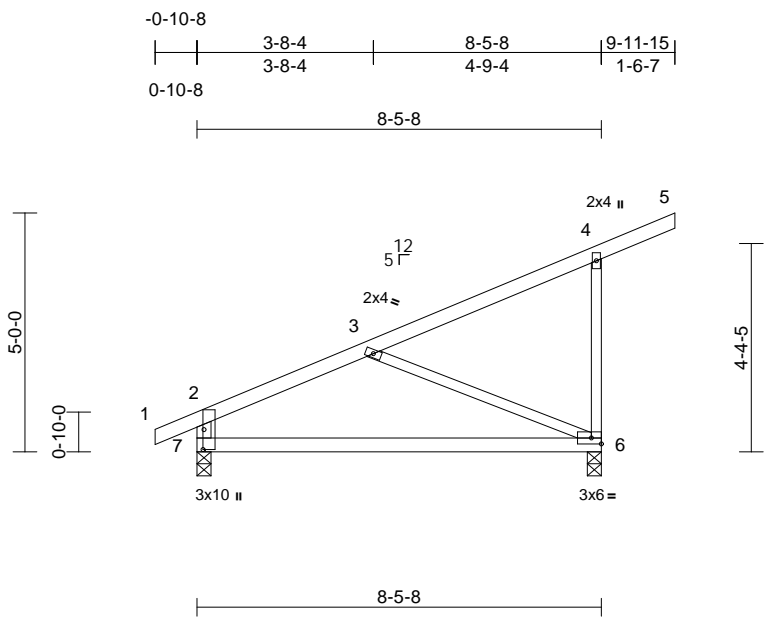
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 Chesterfield, MO 63017
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Job B250400	Truss E1	Truss Type Monopitch	Qty 3	Ply 1	Lot 123 RS
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RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
01/26/2026 3:17:38

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.83 S Sep 3 2025 Print: 8.830 S Sep 3 2025 MiTek Industries, Inc. The Dec 16 13:01:51 Page: 1
 ID:KKpWOME_w65Da9ynnkk628zX476-RfC?PsB70Hq3NSgPqnL8w3uITXb3KW0D0b7742071



Scale = 1:48.2
 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%

LUMBER
 TOP CHORD 2x4 SPF No.2
 BOT CHORD 2x4 SPF No.2
 WEBS 2x3 SPF No.2 *Except* 7-2:2x4 SPF No.2

BRACING
 TOP CHORD Structural wood sheathing directly applied or 6'-0" oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10'-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
 BOT CHORD 6-7=-131/334
 WEBS 3-6=-346/178

- NOTES**
- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TC DL=6.0psf; BC DL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3'-0" tall by 2'-0" wide will fit between the bottom chord and any other members.
 - 4) 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.
 - 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



December 17, 2025

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

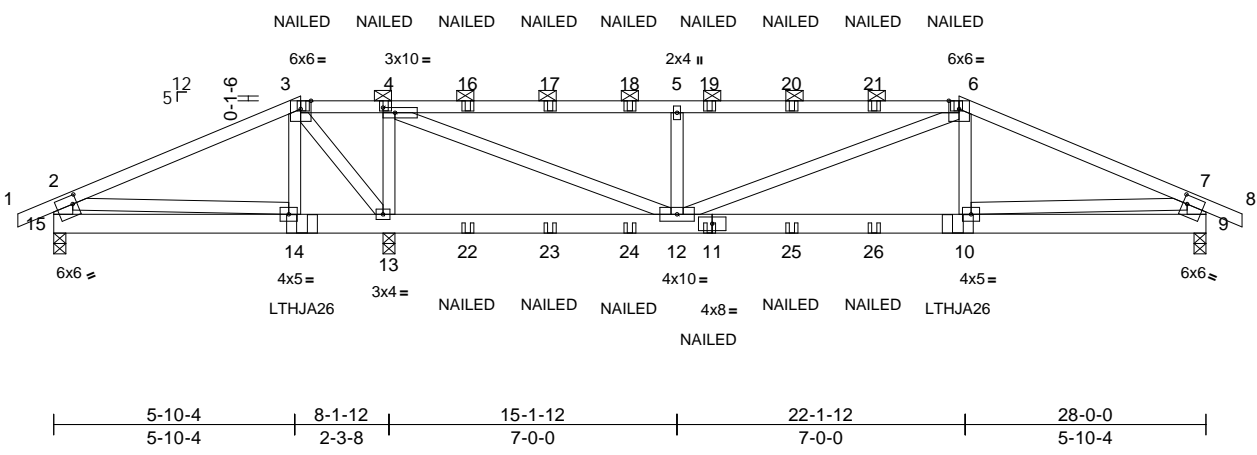
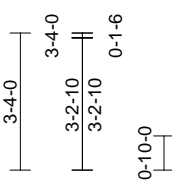
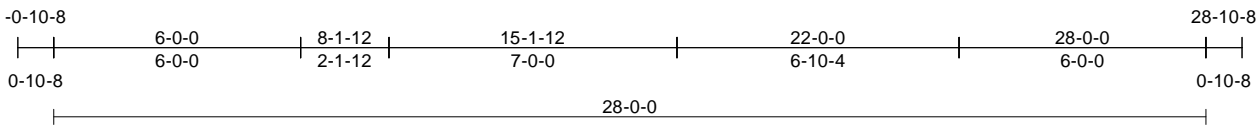
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcsccomponents.com)

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Job B250400	Truss G1	Truss Type Hip Girder	Qty 1	Ply 2	Lot 123 RS
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RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
01/26/2026 3:17:38

Wheeler Lumber, Waverly, KS - 66871, Run: 8.83 S Sep 3 2025 Print: 8.830 S Sep 3 2025 MiTek Industries, Inc. The Dec 16 13:01:51 Page: 1
ID:ouuJAWSGgeNgkwKErj2KnxzX46q-RFC?PsB70Hq3NSgPqnL8w3uITXBGKWrC00714267



Scale = 1:56

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
WEBS 2x4 SPF No.2 *Except* 15-2,9-7:2x6 SPF No.2

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

REACTIONS (size)
9=0-3-8, 13=0-3-8, 15=0-3-8
Max Horiz 15=31 (LC 8)
Max Uplift 9=-303 (LC 9), 13=-659 (LC 4), 15=-225 (LC 27)
Max Grav 9=1465 (LC 1), 13=3211 (LC 1), 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
BOT CHORD 14-15=-184/257, 13-14=-671/178, 12-13=-1272/315, 10-12=-443/2279, 9-10=-186/627
WEBS 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
1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc, 2x6 - 2 rows staggered at 0-9-0 oc.
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; TC DL=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.
- 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.
- 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.
- Use Simpson Strong-Tie LTHJA26 (LTHJA26 on 2 ply, Right Hand Hip) or equivalent at 6-0-6 from the left end to connect truss(es) to back face of bottom chord.
- Use Simpson Strong-Tie LTHJA26 (LTHJA26 on 2 ply, Left Hand Hip) or equivalent at 21-11-10 from the left end to connect truss(es) to back face of bottom chord.
- Fill all nail holes where hanger is in contact with lumber.
- "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidelines.

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, 3-6=-70, 6-7=-70, 7-8=-70, 9-15=-20
Concentrated Loads (lb)
Vert: 3=-112 (B), 6=-112 (B), 11=-52 (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=-112 (B), 22=-52 (B), 23=-52 (B), 24=-52 (B), 25=-52 (B), 26=-52 (B)



December 17, 2025

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

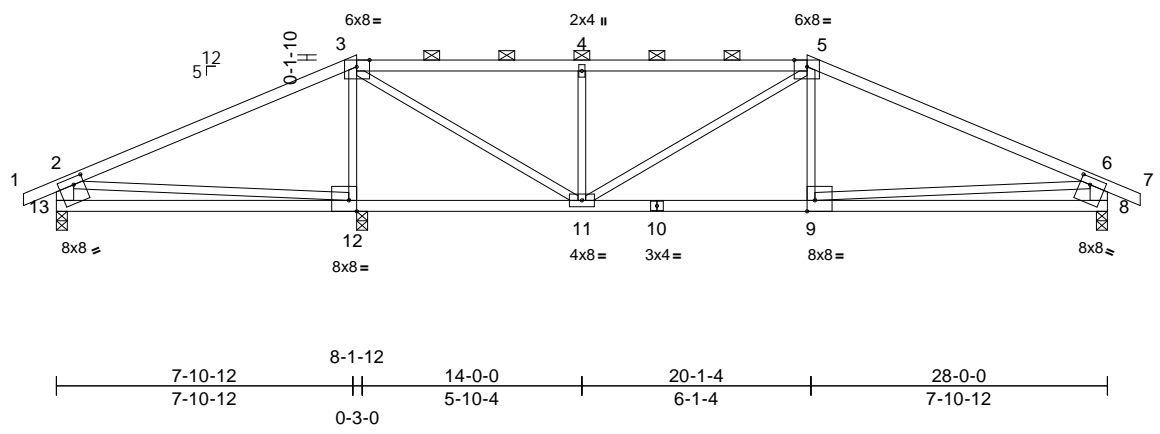
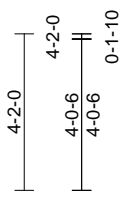
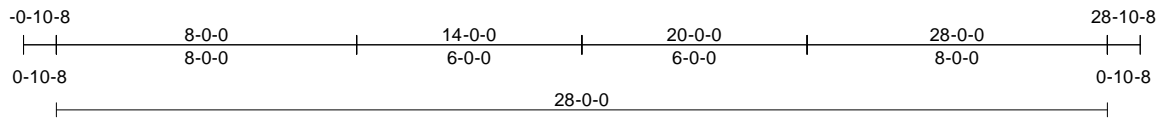
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Job B250400	Truss G2	Truss Type Hip	Qty 1	Ply 1	Lot 123 RS
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RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
01/26/2026 3:17:38

Wheeler Lumber, Waverly, KS - 66871, Run: 8.83 S Sep 3 2025 Print: 8.830 S Sep 3 2025 MiTek Industries, Inc. The Dec 16 13:01:52 Page: 1
ID: sPmZlqR0916yVdAsjl0siWzX46s-RfC?PsB70Hq3NSgPqnL8w3ulTXbGkWrCD07.4zLc3



Scale = 1:61.4

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

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 (size) 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
BOT CHORD 12-13=-287/590, 11-12=-183/35, 9-11=-105/1106, 8-9=-247/718
WEBS 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
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCCL=6.0psf; BCCL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.

- 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.
- 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

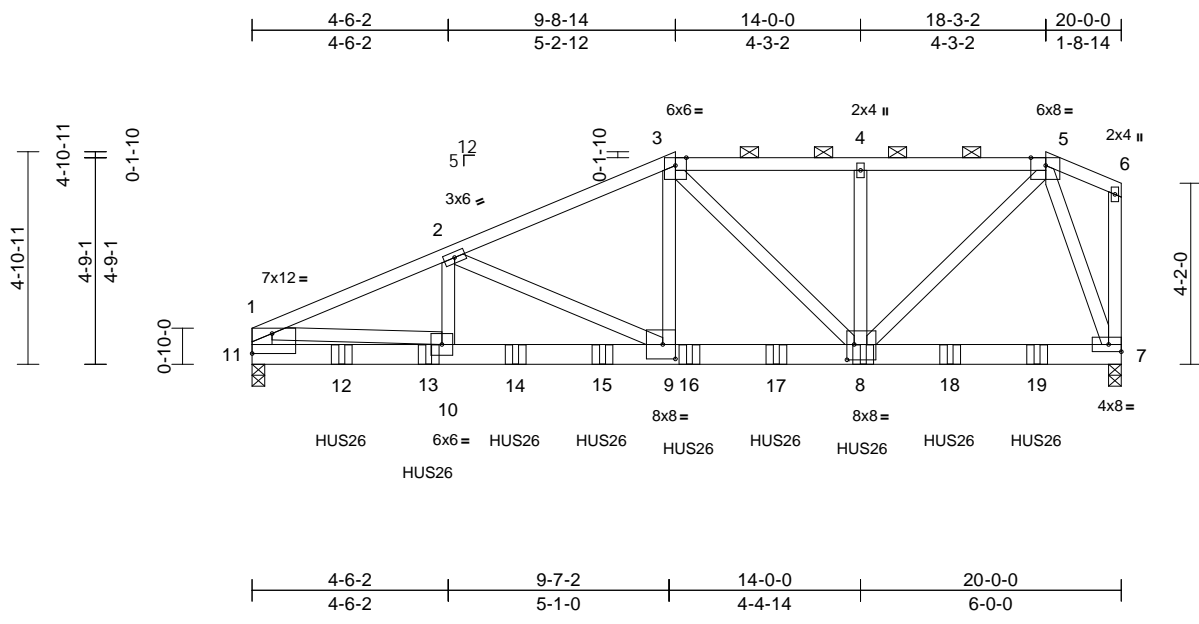


December 17, 2025

Job B250400	Truss G3	Truss Type Hip Girder	Qty 1	Ply 2	Lot 123 RS
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RELEASE FOR CONSTRUCTION
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DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
01/26/2026 3:17:38

Wheeler Lumber, Waverly, KS - 66871, Run: 8.83 E Nov 14 2024 Print: 8.830 E Nov 14 2024 MiTek Industries, Inc. Wed Dec 17 13:39:14 Page: 1
ID:0h1od5rQsMHx345fsG3xMezNVpv-?bgd9IAN4weQDF747Lg3KtbKDAQgW7zJmCfKydC6



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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
WEBS 2x4 SPF No.2 *Except* 11-1:2x6 SP 2400F 2.0E

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 5)
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=-8074/957, 2-3=-6276/692, 3-4=-4889/555, 4-5=-4889/555, 5-6=-144/62, 6-7=-114/34
BOT CHORD 11-12=-365/1999, 12-13=-365/1999, 10-13=-365/1999, 10-14=-933/7391, 14-15=-933/7391, 9-15=-933/7391, 9-16=-653/5662, 16-17=-653/5662, 8-17=-653/5662, 8-18=-198/1401, 18-19=-198/1401, 7-19=-198/1401
WEBS 2-10=-162/1272, 2-9=-1799/400, 3-9=-302/2870, 3-8=-1124/207, 4-8=-456/152, 5-7=-3949/473, 1-10=-606/5434, 5-8=-507/5041

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 0-6-0 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; TC DL=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 crushing capacity of 425 psi.
- 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.
- 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.

- Use Simpson Strong-Tie HUS26 (14-16d Girder, 4-16d Truss) or equivalent spaced at 2-0-0 oc max. starting at 2-0-12 from the left end to 8-0-12 to connect truss(es) to back face of bottom chord.
 - Use Simpson Strong-Tie HUS26 (14-16d Girder, 4-16d Truss) or equivalent spaced at 2-0-0 oc max. starting at 10-0-12 from the left end to 18-0-12 to connect truss(es) to back face of bottom chord.
 - Fill all nail holes where hanger is in contact with lumber.
- LOAD CASE(S)** Standard
- Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-3=-70, 3-5=-70, 5-6=-70, 7-11=-20
Concentrated Loads (lb)
Vert: 8=-806 (B), 12=-867 (B), 13=-867 (B), 14=-867 (B), 15=-867 (B), 16=-828 (B), 17=-819 (B), 18=-810 (B), 19=-787 (B)



December 17, 2025

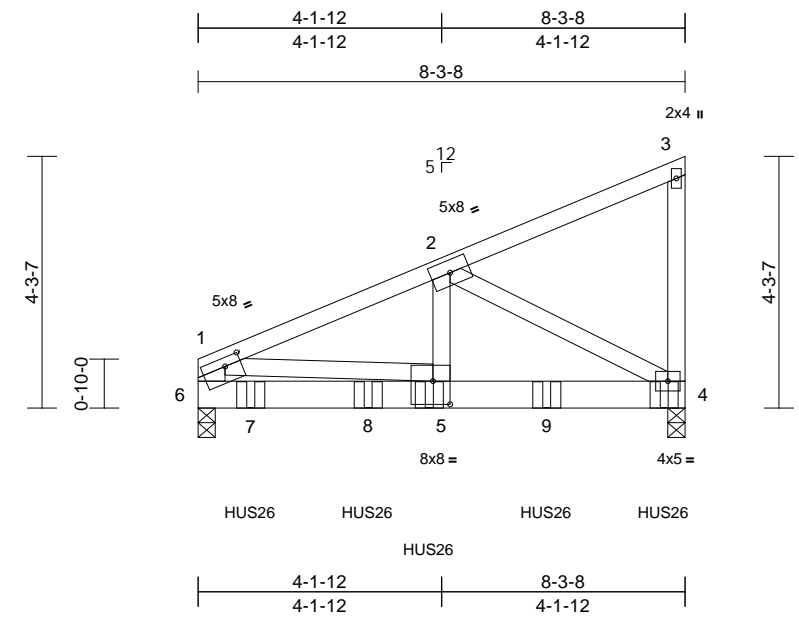
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria, and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcsccomponents.com)

MiTek®
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Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job B250400	Truss G4	Truss Type Monopitch Girder	Qty 1	Ply 2	Lot 123 RS
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RELEASE FOR CONSTRUCTION
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DEVELOPMENT SERVICES
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01/26/2026 3:17:38

Wheeler Lumber, Waverly, KS - 66871, Run: 8.83 S Sep 3 2025 Print: 8.830 S Sep 3 2025 MiTek Industries, Inc. The Dec 16 13:01:52 Page: 1
 ID:BAIOWzLiLPprf5eA1excASzNVrK-RfC?PsB70Hq3NSgPqnL8w3uITXbGkV/rCdo7.14z.K.16



Scale = 1:39.2

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

BRACING
 TOP CHORD Structural wood sheathing directly applied or 5-2-3 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=-174 (LC 8), 6=-135 (LC 8)
 Max Grav 4=5295 (LC 15), 6=5116 (LC 18)

FORCES (lb) - Maximum Compression/Maximum Tension
 TOP CHORD 1-2=-5780/158, 2-3=-89/40, 3-4=-127/43, 1-6=-3040/115
 BOT CHORD 5-6=-162/15, 4-5=-174/5242
 WEBS 2-5=-41/4862, 2-4=-5969/235, 1-5=-115/5363

- NOTES**
- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
 Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc, 2x6 - 2 rows staggered at 0-4-0 oc.
 Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-5-0 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.
 - Unbalanced roof live loads have been considered for this design.

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TC DL=6.0psf; BC DL=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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 174 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.
- Use Simpson Strong-Tie HUS26 (14-10d Girder, 6-10d Truss) or equivalent spaced at 2-0-0 oc max. starting at 0-10-12 from the left end to 7-11-4 to connect truss(es) to front face of bottom chord.
- Fill all nail holes where hanger is in contact with lumber.

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=-1841 (F), 7=-1844 (F), 8=-1841 (F), 9=-1841 (F)



December 17, 2025

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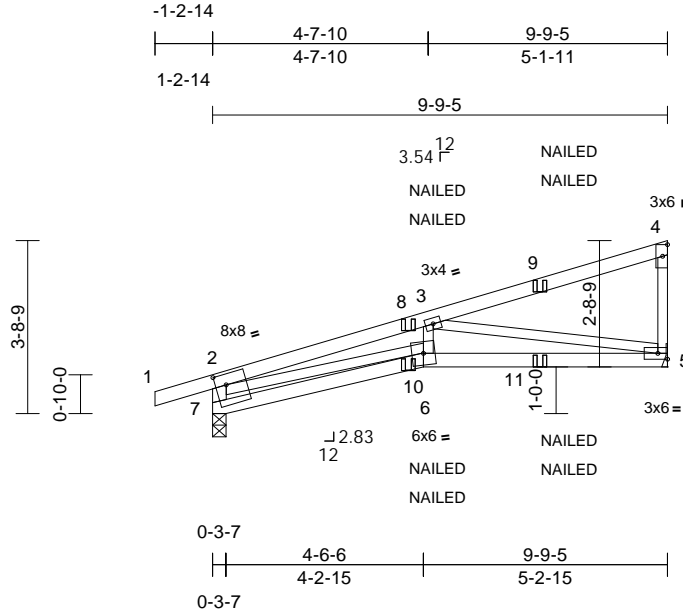
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 Chesterfield, MO 63017
 314.434.1200 / MiTek-US.com

Job B250400	Truss J1	Truss Type Diagonal Hip Girder	Qty 1	Ply 1	Lot 123 RS
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Wheeler Lumber, Waverly, KS - 66871,

Run: 8.83 S Sep 3 2025 Print: 8.830 S Sep 3 2025 MiTek Industries, Inc. The Dec 16 13:01:53 Page: 1
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Scale = 1:49.5

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	0.72	Vert(LL)	-0.08	6	>999	360	MT20 197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.67	Vert(CT)	-0.16	5-6	>731	240	
BCLL	0.0*	Rep Stress Incr	NO	WB	0.93	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
- WEBS 2x3 SPF No.2 *Except* 7-2:2x4 SPF No.2

BRACING

- TOP CHORD Structural wood sheathing directly applied or 4-5-12 oc purlins, except end verticals.
- BOT CHORD Rigid ceiling directly applied or 8-10-6 oc bracing.

REACTIONS

- (size) 5= Mechanical, 7=0-3-7
- Max Horiz 7=138 (LC 5)
- Max Uplift 5=-131 (LC 8), 7=-149 (LC 4)
- Max Grav 5=542 (LC 1), 7=582 (LC 1)

FORCES

- (lb) - Maximum Compression/Maximum Tension
- TOP CHORD 2-7=-576/186, 1-2=0/27, 2-3=-1587/368, 3-4=-152/33, 4-5=-201/95
- BOT CHORD 6-7=-149/239, 5-6=-425/1446
- WEBS 2-6=-293/1258, 3-6=0/338, 3-5=-1415/412

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TC DL=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.
- 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 131 lb uplift at joint 5 and 149 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 guidelines.
 - 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=-101 (F=-48, B=53), 10=-9 (F=-3, B=6), 11=-60 (F=-28, B=31)



December 17, 2025

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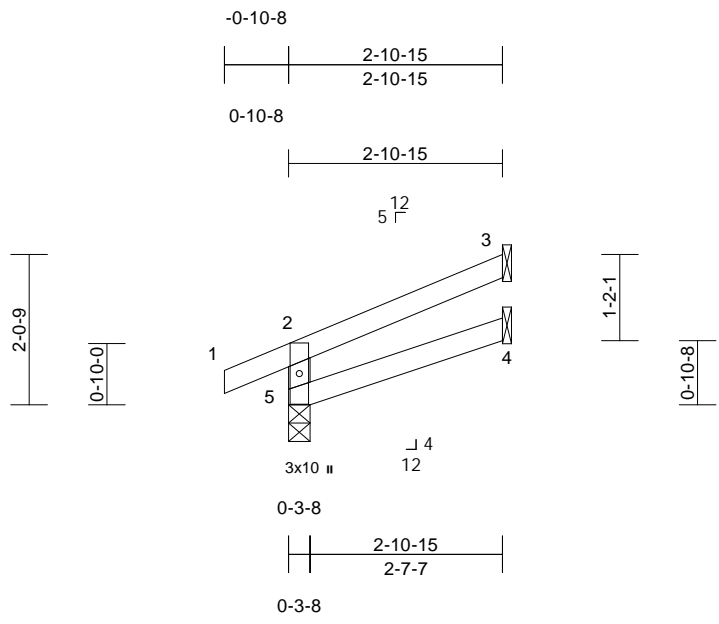
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Chesterfield, MO 63017
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Job B250400	Truss J2	Truss Type Jack-Open	Qty 1	Ply 1	Lot 123 RS
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Wheeler Lumber, Waverly, KS - 66871,

Run: 8.83 S Sep 3 2025 Print: 8.830 S Sep 3 2025 MiTek Industries, Inc. The Dec 16 13:01:53 Page: 1
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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	0.09	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
 WEBS 2x4 SPF No.2

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**
- 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
 - 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
 - 5) Refer to girder(s) for truss to truss connections.
 - 6) 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.

- 7) 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.
 - 8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- LOAD CASE(S)** Standard



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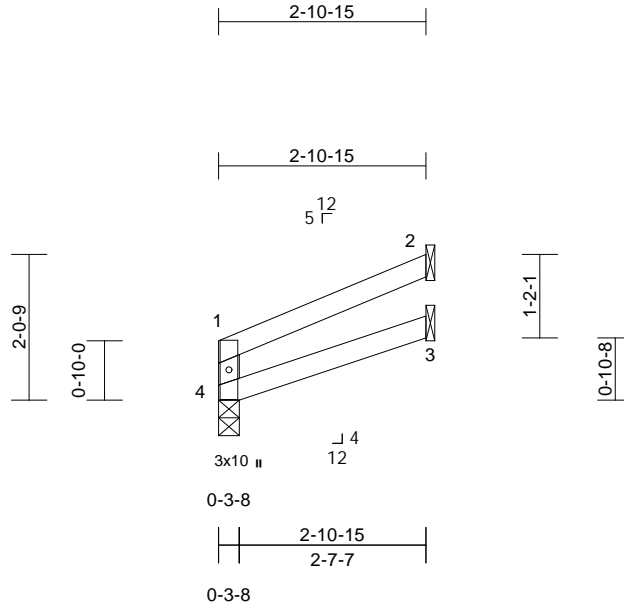
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 Chesterfield, MO 63017
 314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	Lot 123 RS
B250400	J2A	Jack-Open	1	1	Job Reference (optional)

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.83 S Sep 3 2025 Print: 8.830 S Sep 3 2025 MiTek Industries, Inc. The Dec 16 13:01:53 Page: 1
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 01/26/2026 3:17:38



Scale = 1:32.4

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	0.11	Vert(LL)	0.00	3-4	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.06	Vert(CT)	-0.01	3-4	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.01	2	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R		Wind(LL)	0.00	3-4	>999	240	Weight: 8 lb	FT = 10%

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

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) 2= Mechanical, 3= Mechanical, 4=0-3-8
 Max Horiz 4=44 (LC 5)
 Max Uplift 2=-47 (LC 8), 4=-3 (LC 8)
 Max Grav 2=88 (LC 1), 3=52 (LC 3), 4=122 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
 TOP CHORD 1-4=-101/31, 1-2=-45/27
 BOT CHORD 3-4=-14/13

- 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
 - 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
 - 5) Refer to girder(s) for truss to truss connections.
 - 6) Bearing at joint(s) 4 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.

- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 3 lb uplift at joint 4 and 47 lb uplift at joint 2.
 - 8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- LOAD CASE(S)** Standard



December 17, 2025

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

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcsccomponents.com)

MiTek®

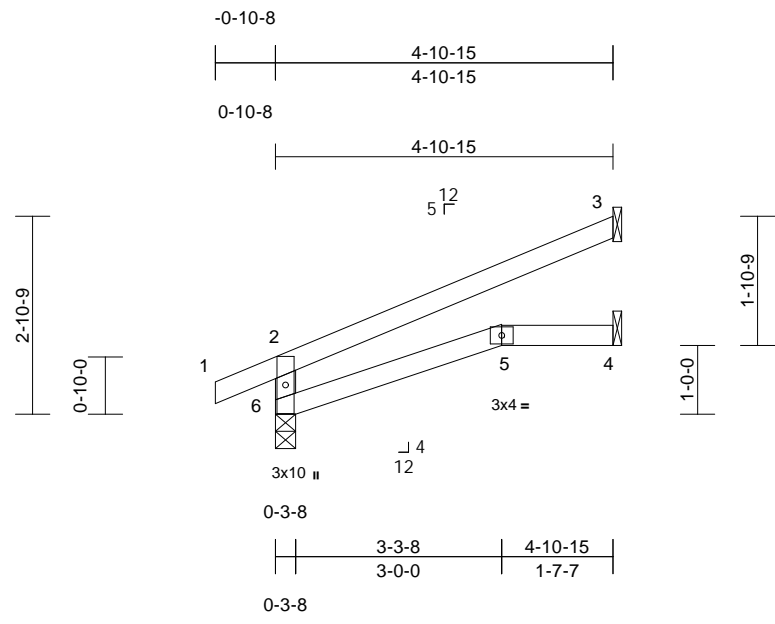
16023 Swingley Ridge Rd.
 Chesterfield, MO 63017
 314.434.1200 / MiTek-US.com

Job B250400	Truss J3	Truss Type Jack-Open	Qty 1	Ply 1	Lot 123 RS
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RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
01/26/2026 3:17:38

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.83 S Sep 3 2025 Print: 8.830 S Sep 3 2025 MiTek Industries, Inc. The Dec 16 13:01:53 Page: 1
ID:6RQisEyXslmFm9VqWTHHdWzNXch-RFC?PsB70Hq3NSgPqnL8w3uITXHGKwRC00744502



Scale = 1:33.5

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.34	Vert(LL)	-0.02	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
WEBS 2x4 SPF No.2

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**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TC DL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
 - 5) Refer to girder(s) for truss to truss connections.
 - 6) 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.

- 7) 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.
 - 8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- LOAD CASE(S)** Standard



December 17, 2025

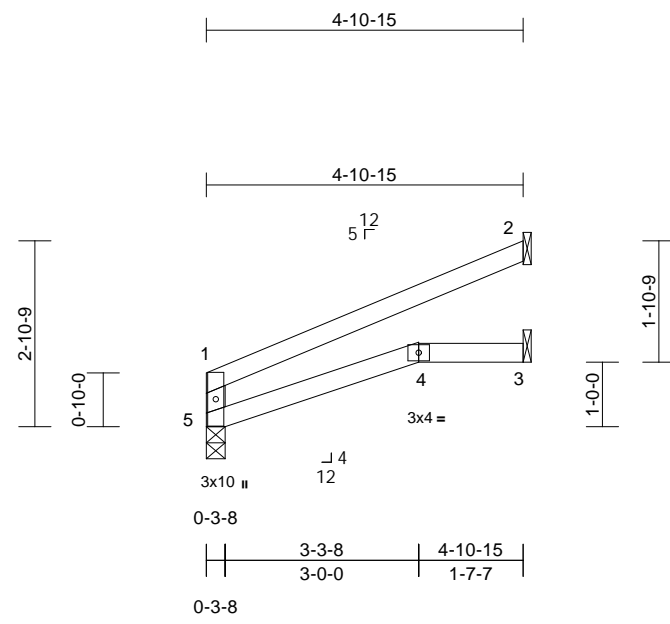
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.
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Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job B250400	Truss J3A	Truss Type Jack-Open	Qty 1	Ply 1	Lot 123 RS
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DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
01/26/2026 3:17:38

Wheeler Lumber, Waverly, KS - 66871, Run: 8.83 S Sep 3 2025 Print: 8.830 S Sep 3 2025 MiTek Industries, Inc. The Dec 16 13:01:54 Page: 1
ID:6RQisEyXslmFm9VqWTHHdWzNXch-RFC?PsB70Hq3NSgPqnL8w3uITXHGKwRC00744502



Scale = 1:35.7

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.36	Vert(LL)	-0.02	4-5	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.21	Vert(CT)	-0.05	4-5	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.03	2	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R		Wind(LL)	0.03	4-5	>999	240	Weight: 13 lb	FT = 10%

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

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) 2= Mechanical, 3= Mechanical, 5=0-3-8
 Max Horiz 5=71 (LC 8)
 Max Uplift 2=-77 (LC 8), 5=-13 (LC 8)
 Max Grav 2=152 (LC 1), 3=89 (LC 3), 5=212 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
 TOP CHORD 1-5=-177/58, 1-2=-77/46
 BOT CHORD 4-5=-31/7, 3-4=0/0

- 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
 - 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
 - 5) Refer to girder(s) for truss to truss connections.
 - 6) 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.

- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 13 lb uplift at joint 5 and 77 lb uplift at joint 2.
- 8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



December 17, 2025

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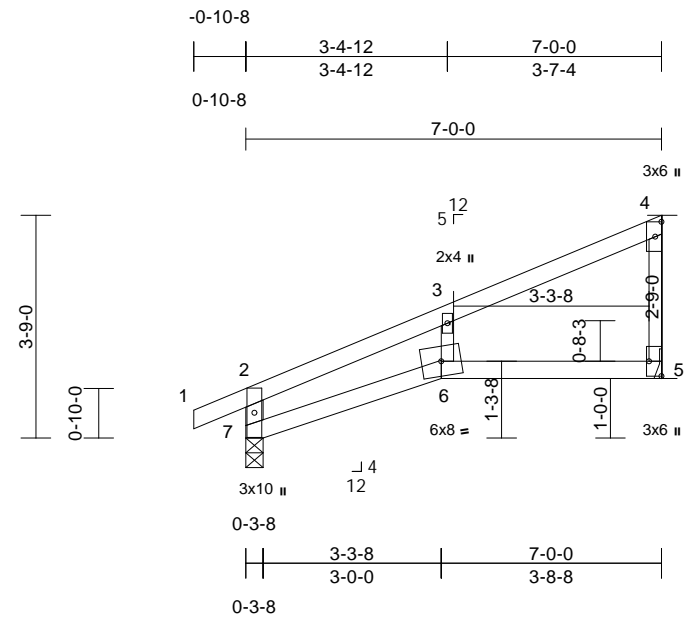
MiTek®
 16023 Swingley Ridge Rd.
 Chesterfield, MO 63017
 314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	Lot 123 RS
B250400	J4	Jack-Closed	7	1	

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DEVELOPMENT SERVICES
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Wheeler Lumber, Waverly, KS - 66871,

Run: 8.83 S Sep 3 2025 Print: 8.830 S Sep 3 2025 MiTek Industries, Inc. The Dec 16 13:01:54 Page: 1
ID: _CfDic?2wXGgEmpblJLDoMzNXcd-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCpD07142167



Scale = 1:38.8

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

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.54	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
WEBS 2x3 SPF No.2 *Except* 7-2:2x4 SPF No.2

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=0-3-8
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
TOP CHORD 2-7=-324/26, 1-2=0/27, 2-3=-175/0, 3-4=-101/17, 4-5=-190/36
BOT CHORD 6-7=-27/82, 5-6=-24/87
WEBS 3-6=-31/83

- NOTES**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TC DL=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
 - 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
 - 5) Refer to girder(s) for truss to truss connections.
 - 6) 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.

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


LOAD CASE(S) Standard



December 17, 2025

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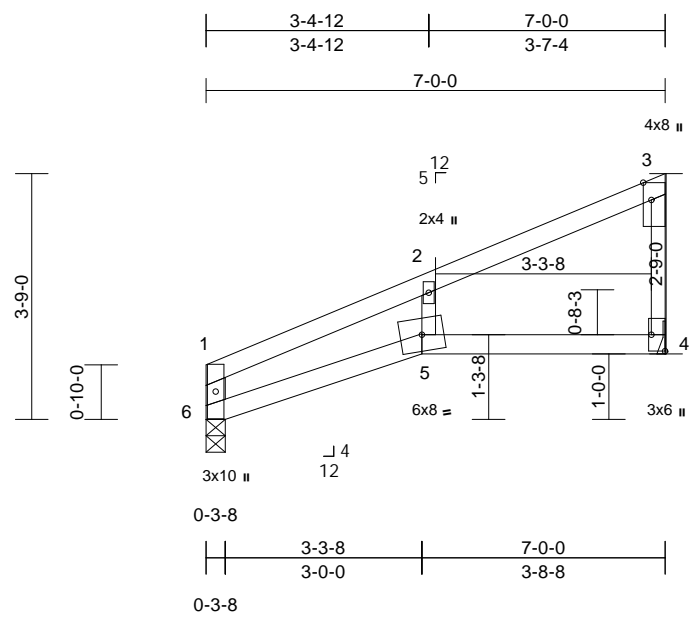


16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job B250400	Truss J4A	Truss Type Jack-Closed	Qty 4	Ply 1	Lot 123 RS
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DEVELOPMENT SERVICES
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Wheeler Lumber, Waverly, KS - 66871, Run: 8.83 S Sep 3 2025 Print: 8.830 S Sep 3 2025 MiTek Industries, Inc. The Dec 16 13:01:54 Page: 1
ID: _CfDic?2wXGgEmpblJLDoMzNXcd-RfC?PsB70Hq3NSgPqnL8w3uITXbG(Wrc)007142167



Scale = 1:35.1
Plate Offsets (X, Y): [3:0-3-3,Edge], [4:Edge,0-2-8]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.56	Vert(LL)	-0.16	5	>505	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.40	Vert(CT)	-0.28	5	>288	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.09	4	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R		Wind(LL)	0.11	5	>719	240	Weight: 20 lb	FT = 10%

LUMBER
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x3 SPF No.2 *Except* 6-1:2x4 SPF No.2

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

REACTIONS (size) 4= Mechanical, 6=0-3-8
Max Horiz 6=101 (LC 5)
Max Uplift 4=-26 (LC 8), 6=-3 (LC 8)
Max Grav 4=304 (LC 1), 6=304 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-6=-244/16, 1-2=-174/0, 2-3=-104/18, 3-4=-191/36
BOT CHORD 5-6=-27/83, 4-5=-24/91
WEBS 2-5=-38/79

- NOTES**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TC DL=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
 - 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
 - 5) Refer to girder(s) for truss to truss connections.
 - 6) 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.

- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 3 lb uplift at joint 6 and 26 lb uplift at joint 4.
- 8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



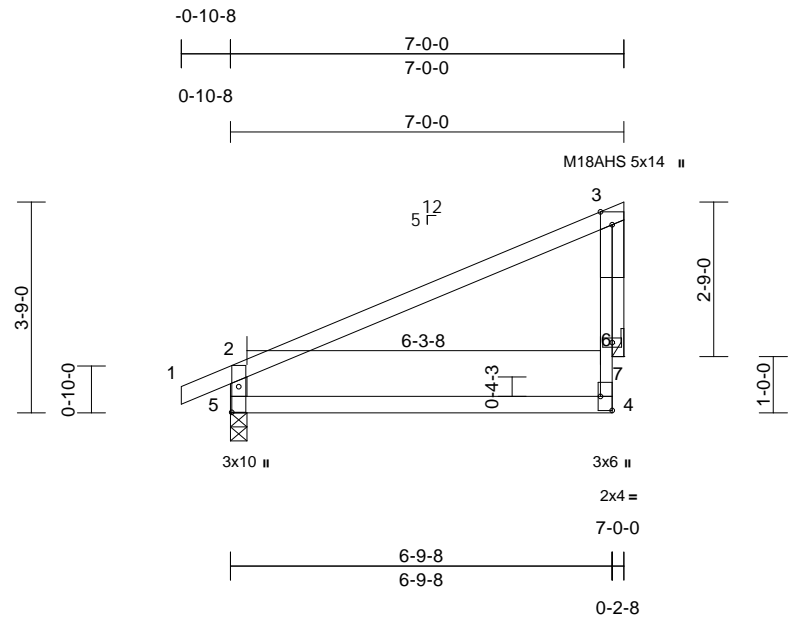
December 17, 2025

Job B250400	Truss J5	Truss Type Jack-Closed	Qty 1	Ply 1	Lot 123 RS
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Run: 8.83 S Sep 3 2025 Print: 8.830 S Sep 3 2025 MiTek Industries, Inc. The Dec 16 13:01:54 Page: 1
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Scale = 1:41

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

- 7) 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.
- 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.

- 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.

LOAD CASE(S) Standard

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



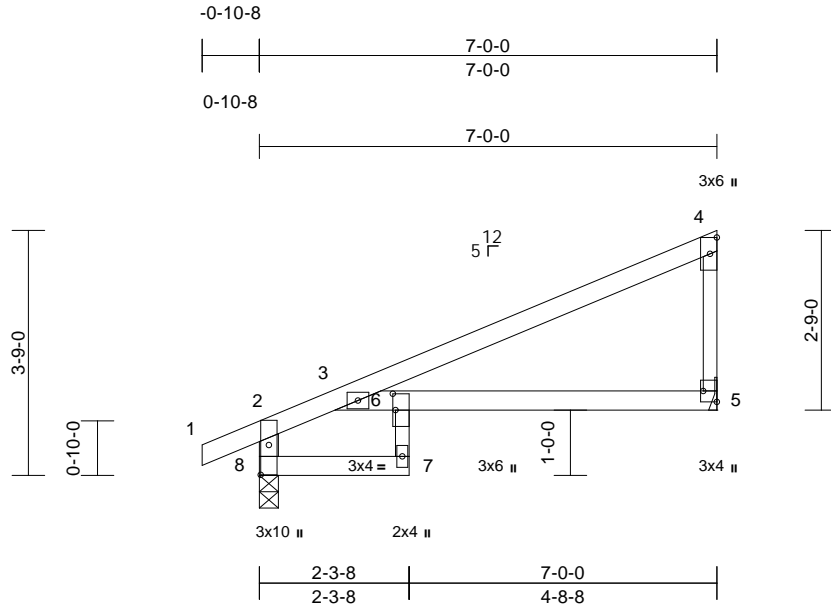
December 17, 2025

Job	Truss	Truss Type	Qty	Ply	Lot 123 RS
B250400	J6	Jack-Closed	3	1	Job Reference (optional)

RELEASE FOR CONSTRUCTION
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DEVELOPMENT SERVICES
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Wheeler Lumber, Waverly, KS - 66871,

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Scale = 1:35.3

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

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

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) 5= Mechanical, 8=0-3-8
 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**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TC DL=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
 - 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
 - 5) Refer to girder(s) for truss to truss connections.
 - 6) 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.



December 17, 2025

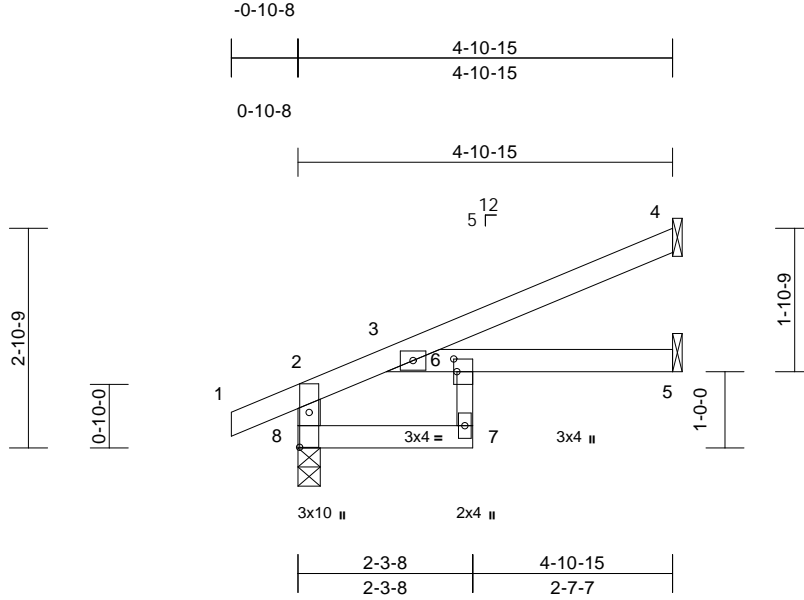
<p>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.</p> <p>Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria, and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcsccomponents.com)</p>	 <p>16023 Swingley Ridge Rd. Chesterfield, MO 63017 314.434.1200 / MiTek-US.com</p>
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Job B250400	Truss J7	Truss Type Jack-Open	Qty 2	Ply 1	Lot 123 RS
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RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
01/26/2026 3:17:39

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.83 S Sep 3 2025 Print: 8.830 S Sep 3 2025 MiTek Industries, Inc. The Dec 16 13:01:55 Page: 1
 ID: ?ZIMXg1MuezcxpwEfN9KHZNxbI-RfC?PsB70Hq3NSgPqnL8w3uITXbGhWrCboil74207



Scale = 1:30.2

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)	25.0	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
 BOT CHORD 2x4 SPF No.2 *Except* 7-6:2x3 SPF No.2
 WEBS 2x4 SPF No.2

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

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) 4= Mechanical, 5= Mechanical, 8=0-3-8
 Max Horiz 8=87 (LC 8)
 Max Uplift 4=-61 (LC 8), 8=-30 (LC 8)
 Max Grav 4=133 (LC 1), 5=97 (LC 3), 8=305 (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**
- 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.
 - 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.



December 17, 2025

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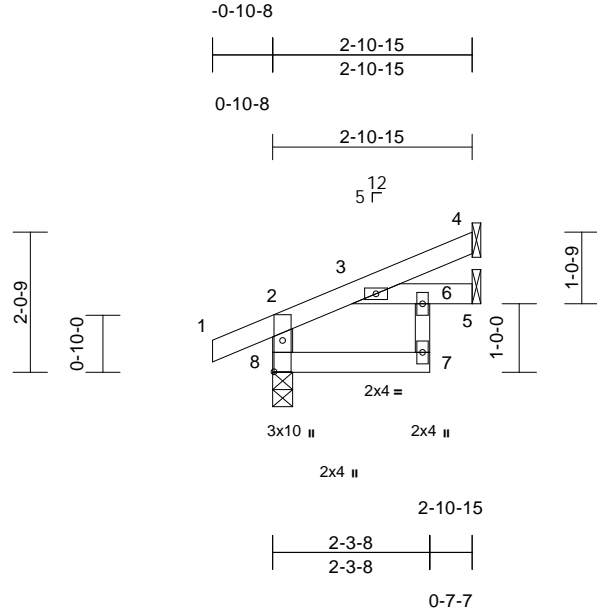
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 Chesterfield, MO 63017
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Job B250400	Truss J8	Truss Type Jack-Open	Qty 2	Ply 1	Lot 123 RS
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RELEASE FOR CONSTRUCTION
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DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
01/26/2026 3:17:39

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.83 S Sep 3 2025 Print: 8.830 S Sep 3 2025 MiTek Industries, Inc. The Dec 16 13:01:55 Page: 1
ID: ?ZIMXg1MuezcxqpwEfN9KHZNxbI-RfC?PsB70Hq3NSgPqnL8w3uITXbGhWrCboil74207



Scale = 1:33.6
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
WEBS 2x4 SPF No.2

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

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



December 17, 2025

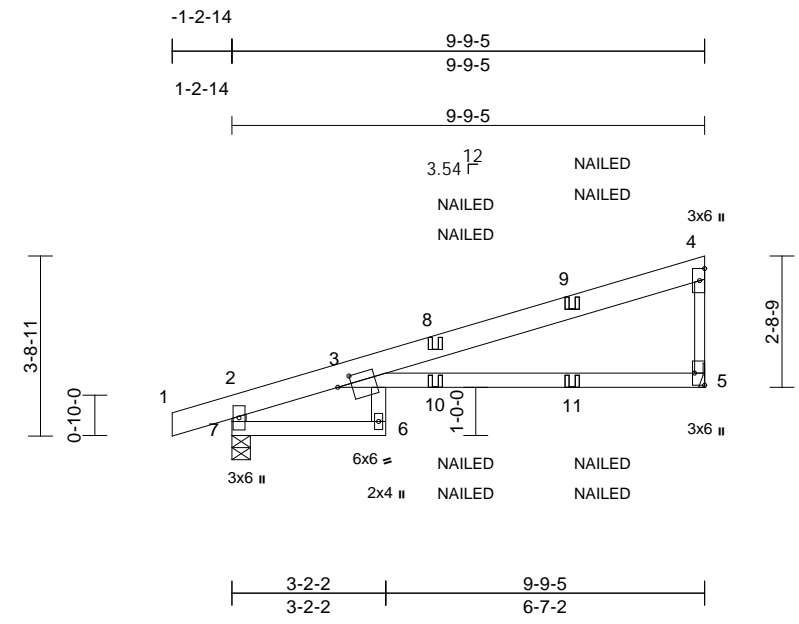
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcsccomponents.com)

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314.434.1200 / MiTek-US.com

Job B250400	Truss J9	Truss Type Diagonal Hip Girder	Qty 1	Ply 1	Lot 123 RS
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RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
01/26/2026 3:17:39

Wheeler Lumber, Waverly, KS - 66871, Run: 8.83 S Sep 3 2025 Print: 8.830 S Sep 3 2025 MiTek Industries, Inc. The Dec 16 13:01:55 Page: 1
 ID: Tlskl01_fy5TZ_O7oNuOHVzNXbH-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrC0b7J4z2C9



Scale = 1:47.6

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

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.59	Vert(LL)	-0.20	6	>558	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.45	Vert(CT)	-0.42	3-5	>273	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	>565	240	Weight: 46 lb	FT = 10%

LUMBER
 TOP CHORD 2x6 SP 2400F 2.0E
 BOT CHORD 2x4 SP 2400F 2.0E *Except* 6-3:2x4 SPF No.2
 WEBS 2x4 SPF No.2 *Except* 4-5:2x3 SPF No.2

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) 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=-604/170, 1-2=0/27, 2-3=-186/17,
 3-4=-183/26, 4-5=-395/155
 BOT CHORD 6-7=-38/0, 3-6=0/77, 3-5=-27/106

- 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.
- 8) "NAILED" indicates 3-10d (0.148"x3") or 2-12d (0.148"x3.25") toe-nails per NDS guidelines.
- 9) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).
- LOAD CASE(S)** Standard
- 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (lb/ft)
 Vert: 1-2=-70, 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)

- NOTES**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TC DL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
 - 5) Refer to girder(s) for truss to truss connections.
 - 6) 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.

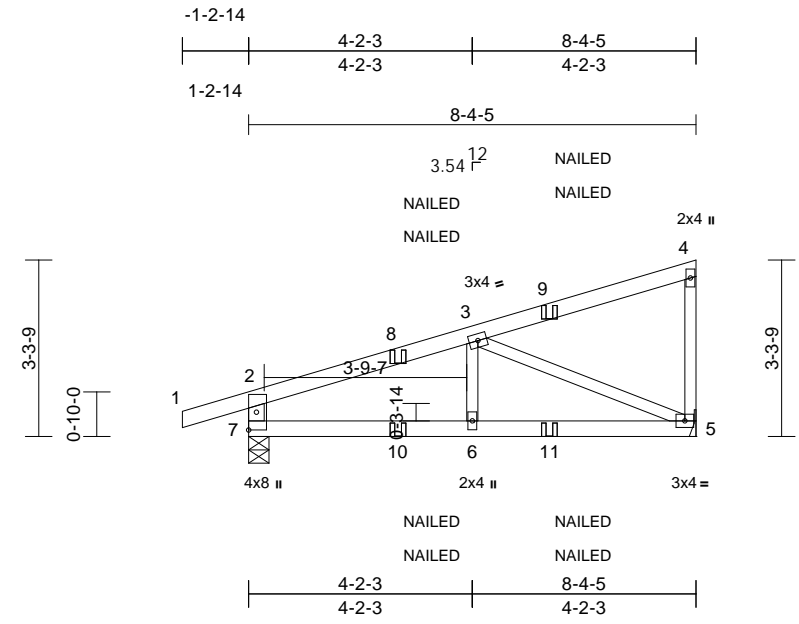


December 17, 2025

Job B250400	Truss J10	Truss Type Diagonal Hip Girder	Qty 2	Ply 1	Lot 123 RS
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RELEASE FOR CONSTRUCTION
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DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
01/26/2026 3:17:39

Wheeler Lumber, Waverly, KS - 66871, Run: 8.83 S Sep 3 2025 Print: 8.830 S Sep 3 2025 MiTek Industries, Inc. The Dec 16 13:01:55 Page: 1
 ID:WRzgi7NtKUUFPrIuxIQh?TzX46x-RfC?PsB70Hq3NSgPqnL8w3uITXbGKwrcD07.4zLz3



Scale = 1:43.1

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.46	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
 WEBS 2x3 SPF No.2 *Except* 7-2:2x4 SPF No.2

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, 3-4=-107/29, 4-5=-142/61
 BOT CHORD 6-7=-131/462, 5-6=-131/462
 WEBS 3-6=0/173, 3-5=-484/144

- 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
 - 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
 - 4) Refer to girder(s) for truss to truss connections.
 - 5) 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.
 - 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.

- 7) "NAILED" indicates 3-10d (0.148"x3") or 2-12d (0.148"x3.25") toe-nails per NDS guidelines.
- 8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (lb/ft)
 Vert: 1-2=-70, 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)



December 17, 2025

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.
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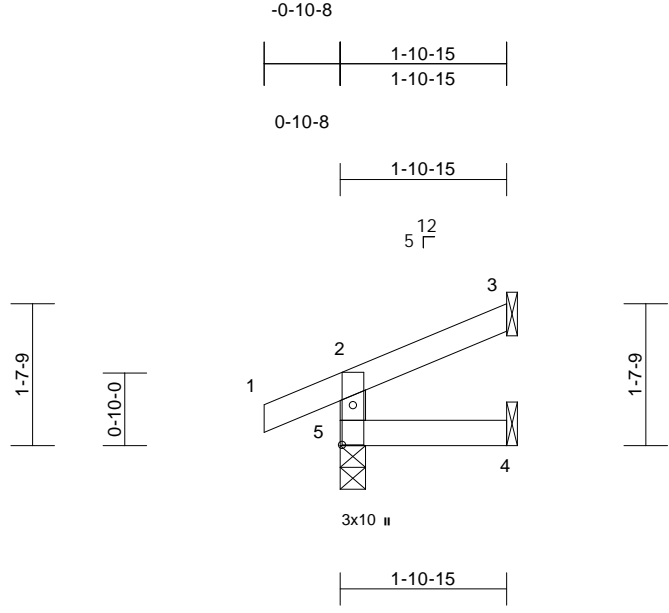
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 Chesterfield, MO 63017
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Job B250400	Truss J11	Truss Type Jack-Open	Qty 8	Ply 1	Lot 123 RS
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RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
01/26/2026 3:17:39

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.83 S Sep 3 2025 Print: 8.830 S Sep 3 2025 MiTek Industries, Inc. The Dec 16 13:01:55 Page: 1
ID:KKpWOME_w65Da9ynnk628zX476-RfC?PsB70Hq3NSgPqnL8w3uITXb3KW0D0b7742077



Scale = 1:26.5

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	0.07	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
 BOT CHORD 2x4 SPF No.2
 WEBS 2x4 SPF No.2

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

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, 5=0-3-8
 Max Horiz 5=41 (LC 5)
 Max Uplift 3=-29 (LC 8), 5=-32 (LC 4)
 Max Grav 3=44 (LC 1), 4=32 (LC 3), 5=171 (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**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TC DL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
 - 5) Refer to girder(s) for truss to truss connections.
 - 6) 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.



December 17, 2025

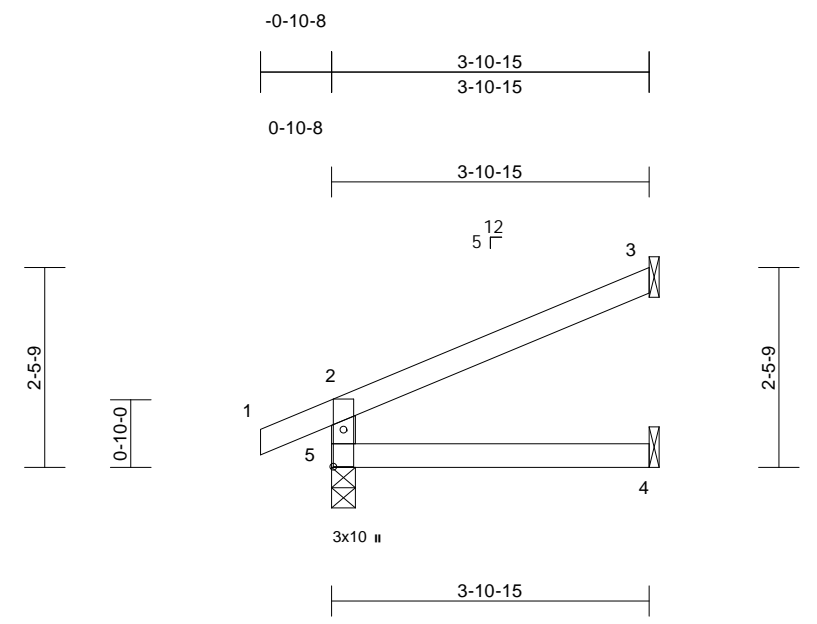
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.
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 Chesterfield, MO 63017
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Job B250400	Truss J12	Truss Type Jack-Open	Qty 4	Ply 1	Lot 123 RS
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RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
01/26/2026 3:17:39

Wheeler Lumber, Waverly, KS - 66871, Run: 8.83 S Sep 3 2025 Print: 8.830 S Sep 3 2025 MiTek Industries, Inc. The Dec 16 13:01:56 Page: 1
 ID:KKpWOME_w65Da9ynnk628zX476-RfC?PsB70Hq3NSgPqnL8w3uITXb3KWdDof742077



Scale = 1:28.4
 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
 BOT CHORD 2x4 SPF No.2
 WEBS 2x4 SPF No.2

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)
 Max Grav 3=114 (LC 1), 4=70 (LC 3), 5=248 (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

LOAD CASE(S) Standard

- 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
 - 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
 - 4) Refer to girder(s) for truss to truss connections.
 - 5) 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.
 - 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.

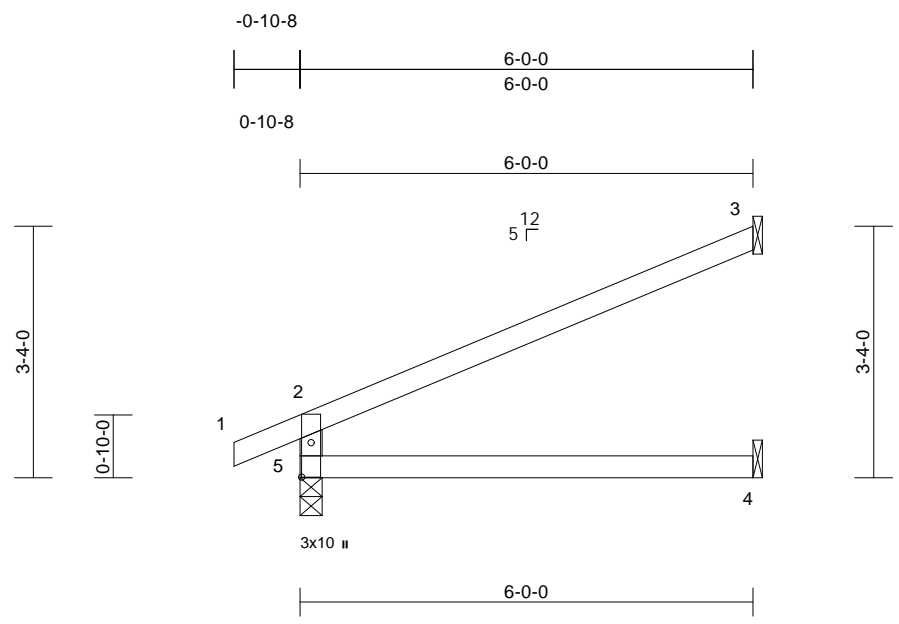


December 17, 2025

Job B250400	Truss J13	Truss Type Jack-Open	Qty 9	Ply 1	Lot 123 RS
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RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
01/26/2026 3:17:39

Wheeler Lumber, Waverly, KS - 66871, Run: 8.83 S Sep 3 2025 Print: 8.830 S Sep 3 2025 MiTek Industries, Inc. The Dec 16 13:01:56 Page: 1
ID:KbKxyASevKEp7ml2H?X5EkzX46r-RfC?PsB70Hq3NSgPqnL8w3uITxbGLWrCDo17421C7



Scale = 1:30.5
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%

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

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

REACTIONS (size) 3= Mechanical, 4= Mechanical, 5=0-3-8
Max Horiz 5=105 (LC 8)
Max Uplift 3=-92 (LC 8), 5=-43 (LC 8)
Max Grav 3=182 (LC 1), 4=109 (LC 3), 5=338 (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**
- 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
 - 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3'-06"-00 tall by 2'-00"-00 wide will fit between the bottom chord and any other members.
 - 4) Refer to girder(s) for truss to truss connections.
 - 5) 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.
 - 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.

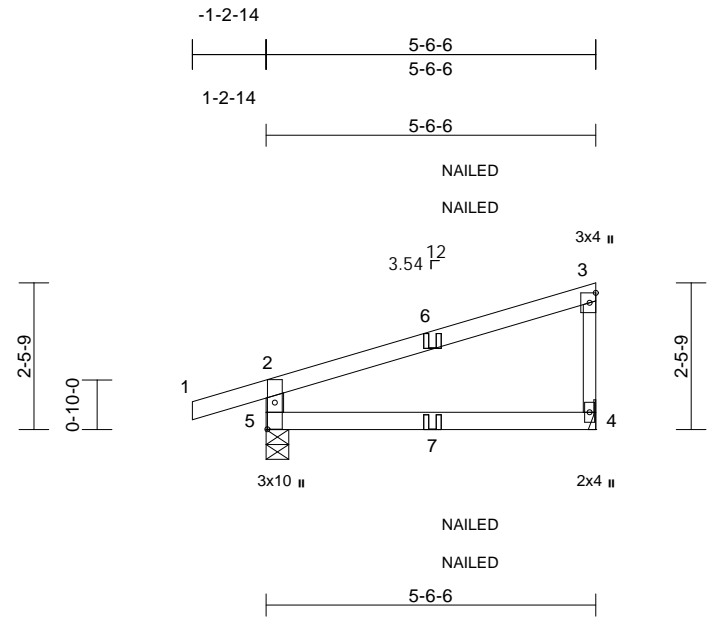


December 17, 2025

Job B250400	Truss J14	Truss Type Diagonal Hip Girder	Qty 2	Ply 1	Lot 123 RS
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RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
01/26/2026 3:17:39

Wheeler Lumber, Waverly, KS - 66871, Run: 8.83 S Sep 3 2025 Print: 8.830 S Sep 3 2025 MiTek Industries, Inc. The Dec 16 13:01:56 Page: 1
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Scale = 1:38.7
 Plate Offsets (X, Y): [5:0-5-6,0-1-8]

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	0.40	Vert(LL)	-0.03	4-5	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.25	Vert(CT)	-0.06	4-5	>991	240		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.00	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R		Wind(LL)	0.01	4-5	>999	240	Weight: 16 lb	FT = 10%

LUMBER
 TOP CHORD 2x4 SPF No.2
 BOT CHORD 2x4 SPF No.2
 WEBS 2x4 SPF No.2 *Except* 3-4:2x3 SPF No.2

BRACING
 TOP CHORD Structural wood sheathing directly applied or 5-6-6 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (size) 4= Mechanical, 5=0-4-9
 Max Horiz 5=99 (LC 5)
 Max Uplift 4=-49 (LC 8), 5=-103 (LC 4)
 Max Grav 4=224 (LC 1), 5=346 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
 TOP CHORD 2-5=-305/141, 1-2=0/27, 2-3=-128/14,
 3-4=-161/72
 BOT CHORD 4-5=-26/50

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.

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

9) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (lb/ft)
 Vert: 1-2=-70, 2-3=-70, 4-5=-20
 Concentrated Loads (lb)
 Vert: 7=3 (F=1, B=1)

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 103 lb uplift at joint 5 and 49 lb uplift at joint 4.



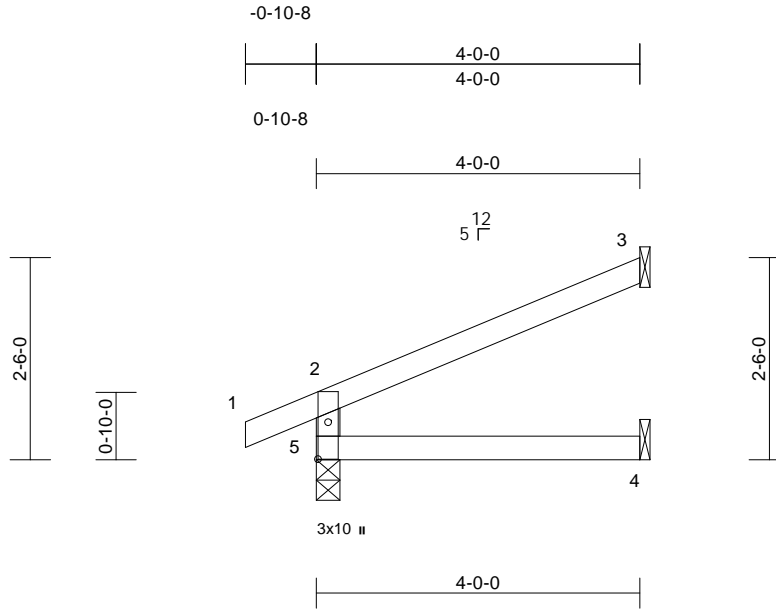
December 17, 2025

Job B250400	Truss J15	Truss Type Jack-Open	Qty 4	Ply 1	Lot 123 RS
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RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
01/26/2026 3:17:40

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.83 S Sep 3 2025 Print: 8.830 S Sep 3 2025 MiTek Industries, Inc. The Dec 16 13:01:56 Page: 1
ID:6icpMgNtYgrosuFar1BzXy8OA_-RfC?PsB70Hq3NSgPqnL8w3ulTXbGkVrCDo714zK16



Scale = 1:28.5

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	0.20	Vert(LL)	-0.01	4-5	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.13	Vert(CT)	-0.02	4-5	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.01	3	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R		Wind(LL)	0.01	4-5	>999	240	Weight: 11 lb	FT = 10%

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

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 4'-0" oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10'-0" oc bracing.

REACTIONS (size) 3= Mechanical, 4= Mechanical, 5=0-3-8
Max Horiz 5=71 (LC 8)
Max Uplift 3=-62 (LC 8), 5=-34 (LC 8)
Max Grav 3=117 (LC 1), 4=71 (LC 3), 5=252 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 2-5=-220/71, 1-2=0/27, 2-3=-64/35
BOT CHORD 4-5=0/0

- NOTES**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TC DL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3'-0" tall by 2'-0" wide will fit between the bottom chord and any other members.
 - 5) Refer to girder(s) for truss to truss connections.
 - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 34 lb uplift at joint 5 and 62 lb uplift at joint 3.



December 17, 2025

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

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcsccomponents.com)

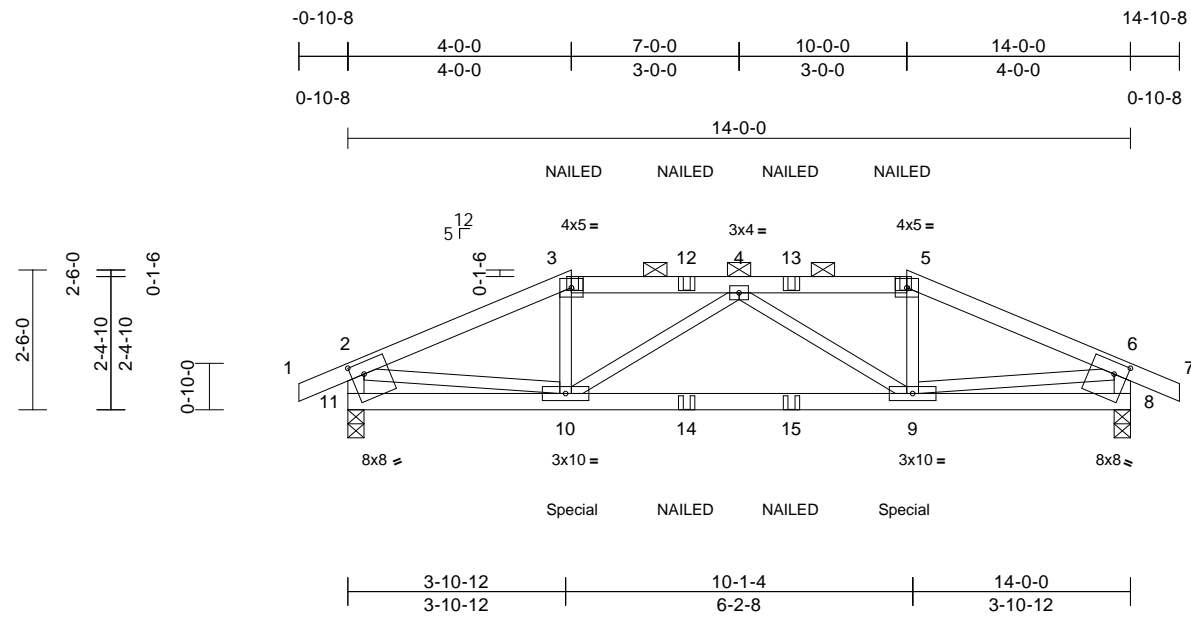
MiTek®

16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job B250400	Truss K1	Truss Type Hip Girder	Qty 1	Ply 1	Lot 123 RS
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RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
01/26/2026 3:17:40

Wheeler Lumber, Waverly, KS - 66871, Run: 8.83 S Sep 3 2025 Print: 8.830 S Sep 3 2025 MiTek Industries, Inc. The Dec 16 13:01:56 Page: 1
ID:4hhpRAuP05UYCaeA7TIQGuy8O5R-RfC?PsB70Hq3NSgPqnL8w3uITxb3KW0D0b7742007



Scale = 1:41.2
Plate Offsets (X, Y): [8:0-2-12,0-2-8], [11:0-2-12,0-2-8]

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	0.31	Vert(LL)	-0.06	9-10	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.64	Vert(CT)	-0.15	9-10	>999	240		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.41	Horz(CT)	0.02	8	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.04	9-10	>999	240	Weight: 50 lb	FT = 10%

- LUMBER**
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x3 SPF No.2 *Except* 11-2,8-6:2x4 SPF No.2
- BRACING**
TOP CHORD Structural wood sheathing directly applied or 4-5-11 oc purlins, except end verticals, and 2-0-0 oc purlins (4-10-5 max.): 3-5.
BOT CHORD Rigid ceiling directly applied or 9-5-7 oc bracing.
- REACTIONS** (size) 8=0-3-8, 11=0-3-8
Max Horiz 11=18 (LC 7)
Max Uplift 8=-219 (LC 5), 11=-219 (LC 4)
Max Grav 8=1026 (LC 1), 11=1026 (LC 1)
- FORCES** (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/27, 2-3=-1590/334, 3-4=-1404/320, 4-5=-1404/320, 5-6=-1590/334, 6-7=0/27, 2-11=-994/227, 6-8=-994/227
BOT CHORD 10-11=-92/229, 9-10=-385/1660, 8-9=-78/229
WEBS 3-10=-18/365, 5-9=-18/365, 2-10=-220/1203, 6-9=-221/1203, 4-10=-356/144, 4-9=-356/144

- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 219 lb uplift at joint 11 and 219 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.
 - "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidelines.
 - Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 219 lb down and 55 lb up at 4-0-0, and 219 lb down and 55 lb up at 9-11-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
 - In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).
- LOAD CASE(S)** Standard
- Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-2=-70, 2-3=-70, 3-5=-70, 5-6=-70, 6-7=-70, 8-11=-20
Concentrated Loads (lb)
Vert: 3=-47 (F), 5=-47 (F), 10=-219 (F), 9=-219 (F), 12=-47 (F), 13=-47 (F), 14=-24 (F), 15=-24 (F)

- NOTES**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TC DL=6.0psf; BC DL=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.



December 17, 2025

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcsccomponents.com)

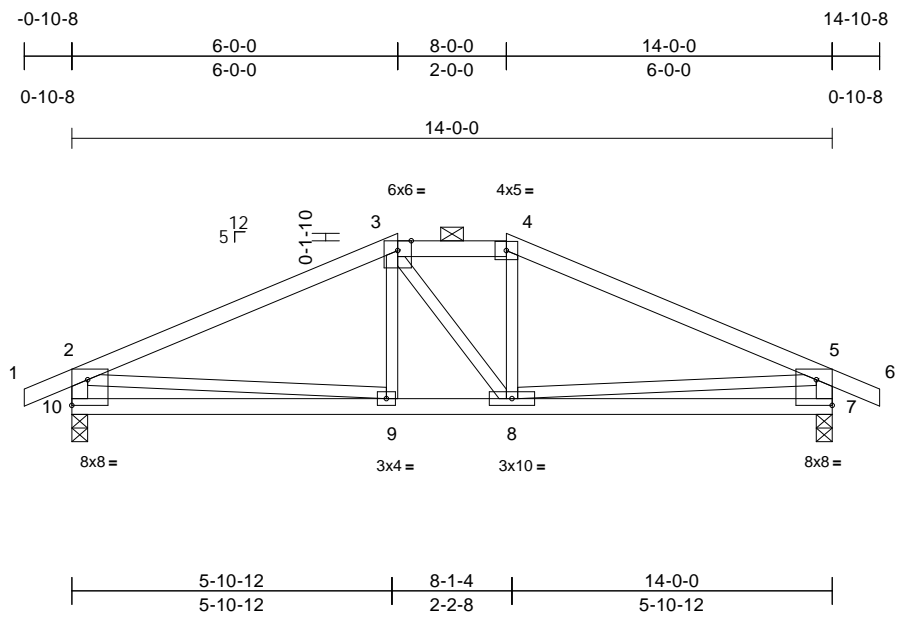
MiTek®
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job B250400	Truss K2	Truss Type Hip	Qty 1	Ply 1	Lot 123 RS
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RELEASE FOR CONSTRUCTION
 AS NOTED ON PLANS REVIEW
 DEVELOPMENT SERVICES
 LEE'S SUMMIT, MISSOURI
 01/26/2026 3:17:40

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.83 S Sep 3 2025 Print: 8.830 S Sep 3 2025 MiTek Industries, Inc. The Dec 16 13:01:57 Page: 1
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Scale = 1:42.4

Plate Offsets (X, Y): [7:Edge,0-5-11], [10: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	0.42	Vert(LL)	-0.03	9-10	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.26	Vert(CT)	-0.07	9-10	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.12	Horz(CT)	0.01	7	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.01	8-9	>999	240	Weight: 52 lb	FT = 10%

LUMBER
 TOP CHORD 2x4 SPF No.2
 BOT CHORD 2x4 SPF No.2
 WEBS 2x3 SPF No.2 *Except* 10-2,7-5:2x4 SPF No.2

BRACING
 TOP CHORD Structural wood sheathing directly applied or 5-8-12 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 3-4.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (size) 7=0-3-8, 10=0-3-8
 Max Horiz 10=-29 (LC 9)
 Max Uplift 7=-94 (LC 9), 10=-94 (LC 8)
 Max Grav 7=688 (LC 1), 10=688 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
 TOP CHORD 1-2=0/27, 2-3=-867/82, 3-4=-721/105, 4-5=-867/81, 5-6=0/27, 2-10=-630/128, 5-7=-630/128
 BOT CHORD 9-10=-147/401, 8-9=-30/721, 7-8=-120/400
 WEBS 3-9=0/133, 3-8=-113/114, 4-8=-36/134, 2-9=0/360, 5-8=0/361

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

- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 94 lb uplift at joint 10 and 94 lb uplift at joint 7.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard



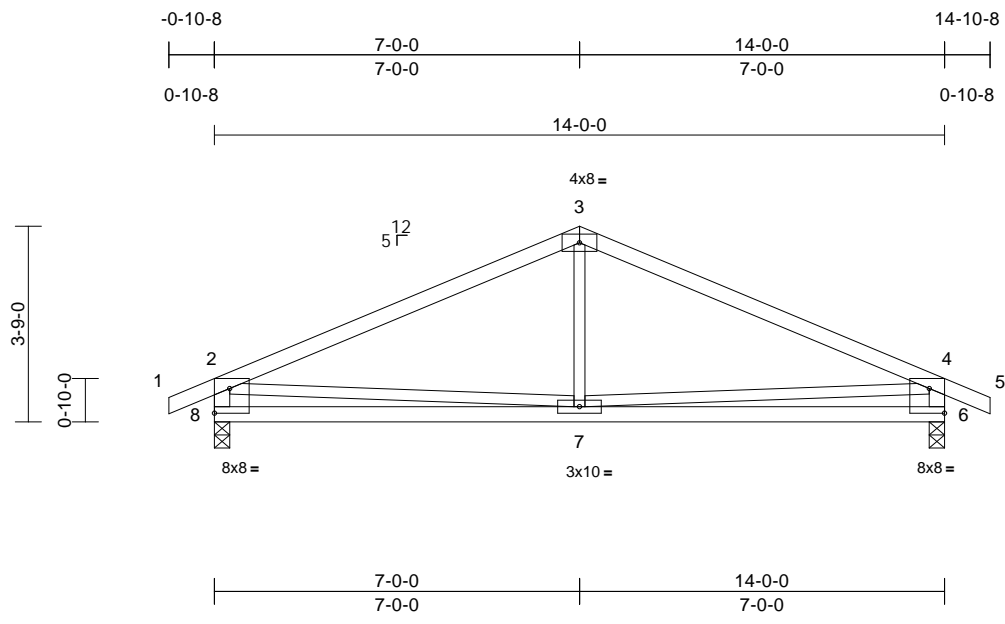
December 17, 2025

Job B250400	Truss K3	Truss Type Common	Qty 2	Ply 1	Lot 123 RS
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RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
01/26/2026 3:17:40

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.83 S Sep 3 2025 Print: 8.830 S Sep 3 2025 MiTek Industries, Inc. The Dec 16 13:01:57 Page: 1
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Scale = 1:44.2

Plate Offsets (X, Y): [6:Edge,0-5-11], [8: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	0.57	Vert(LL)	-0.05	6-7	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.37	Vert(CT)	-0.10	6-7	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.11	Horz(CT)	0.01	6	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.01	7-8	>999	240	Weight: 50 lb	FT = 10%

LUMBER
 TOP CHORD 2x4 SPF No.2
 BOT CHORD 2x4 SPF No.2
 WEBS 2x3 SPF No.2 *Except* 8-2,6-4:2x4 SPF No.2

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

BRACING
 TOP CHORD Structural wood sheathing directly applied or 5-6-0 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=38 (LC 8)
 Max Uplift 6=-102 (LC 9), 8=-102 (LC 8)
 Max Grav 6=688 (LC 1), 8=688 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
 TOP CHORD 1-2=0/27, 2-3=-829/96, 3-4=-829/96, 4-5=0/27, 2-8=-627/139, 4-6=-627/139
 BOT CHORD 7-8=-216/516, 6-7=-181/516
 WEBS 3-7=0/272, 2-7=-26/314, 4-7=-26/314

- NOTES**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCdL=6.0psf; BCdL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 102 lb uplift at joint 8 and 102 lb uplift at joint 6.



December 17, 2025

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.
 Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcsccomponents.com)

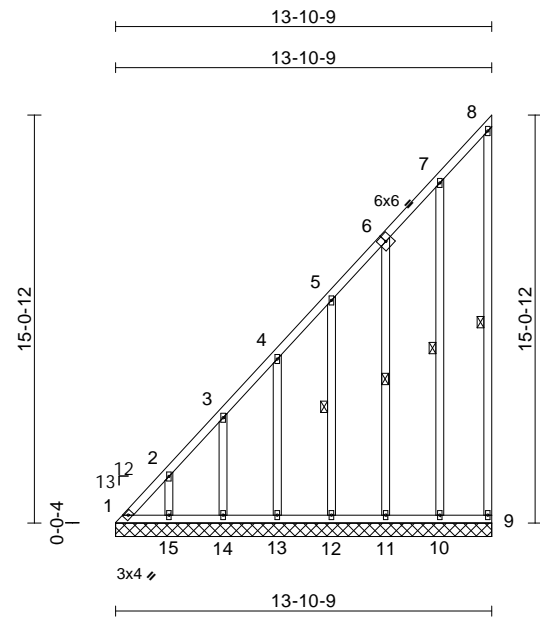
MiTek®
 16023 Swingley Ridge Rd.
 Chesterfield, MO 63017
 314.434.1200 / MiTek-US.com

Job B250400	Truss LAY1	Truss Type Lay-In Gable	Qty 2	Ply 1	Lot 123 RS
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RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
01/26/2026 3:17:40

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.83 S Sep 3 2025 Print: 8.830 S Sep 3 2025 MiTek Industries, Inc. The Dec 16 13:01:57 Page: 1
ID:vc?jEYk40KE6tdmb4uYmKDzX4oN-RFC?PsB70Hq3NSgPqnL8w3uITXbGKWrC0o714267



Scale = 1:85.1

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.08	Vert(LL)	n/a	-	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.02	Vert(TL)	n/a	-	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.12	Horiz(TL)	0.00	9	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
WEBS 2x4 SPF No.2
OTHERS 2x4 SPF No.2

BRACING
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 8-9, 5-12, 6-11, 7-10

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

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TC DL=6.0psf; BC DL=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.
- 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



December 17, 2025

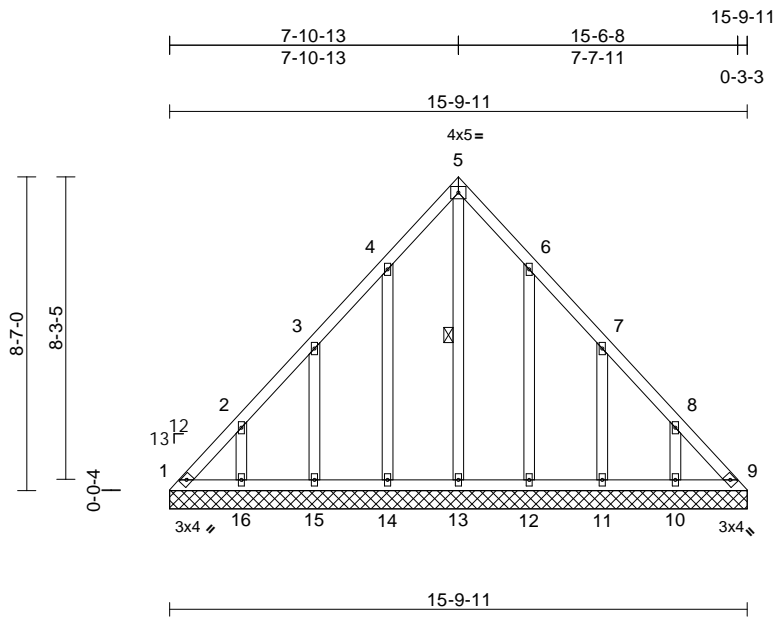
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.
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MiTek®
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job B250400	Truss LAY2	Truss Type Lay-In Gable	Qty 1	Ply 1	Lot 123 RS
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RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
01/26/2026 3:17:40

Wheeler Lumber, Waverly, KS - 66871, Run: 8.83 S Sep 3 2025 Print: 8.830 S Sep 3 2025 MiTek Industries, Inc. The Dec 16 13:01:57 Page: 1
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Scale = 1:63.1

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.06	Vert(LL)	n/a	-	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.04	Vert(TL)	n/a	-	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.11	Horiz(TL)	0.01	9	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
OTHERS 2x4 SPF No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

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

WEBS 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

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TC DL=6.0psf; BC DL=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.
- 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 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

- NOTES**
- Unbalanced roof live loads have been considered for this design.



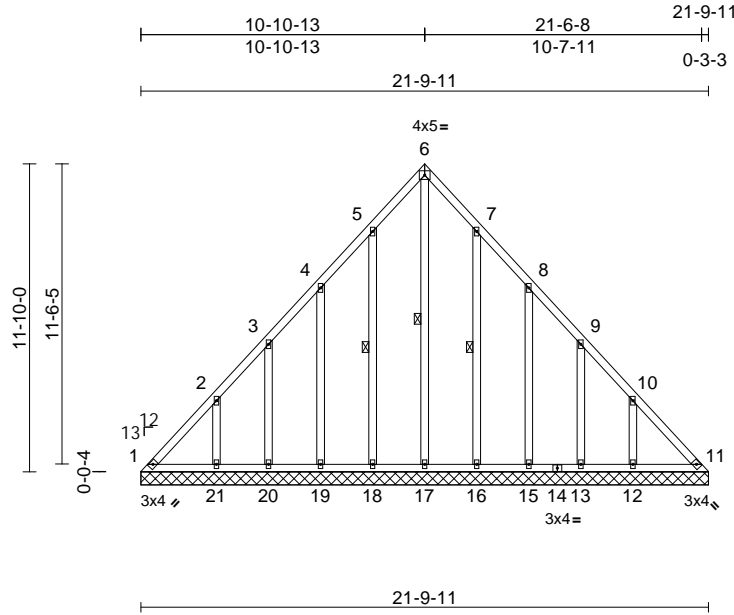
December 17, 2025

Job B250400	Truss LAY3	Truss Type Lay-In Gable	Qty 1	Ply 1	Lot 123 RS Job Reference (optional)
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Wheeler Lumber, Waverly, KS - 66871,

Run: 8.83 S Sep 3 2025 Print: 8.830 S Sep 3 2025 MiTek Industries, Inc. The Dec 16 13:01:58 Page: 1
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01/26/2026 3:17:40



Scale = 1:88.5

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	0.10	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.07	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.15	Horiz(TL)	0.01	11	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
OTHERS 2x4 SPF No.2

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

WEBS 1 Row at midpt 6-17, 5-18, 7-16

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

- NOTES**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TC DL=6.0psf; BC DL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - 4) All plates are 2x4 (||) MT20 unless otherwise indicated.
 - 5) Gable requires continuous bottom chord bearing.
 - 6) Gable studs spaced at 2-0-0 oc.
 - 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
 - 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 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.
 - 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



December 17, 2025

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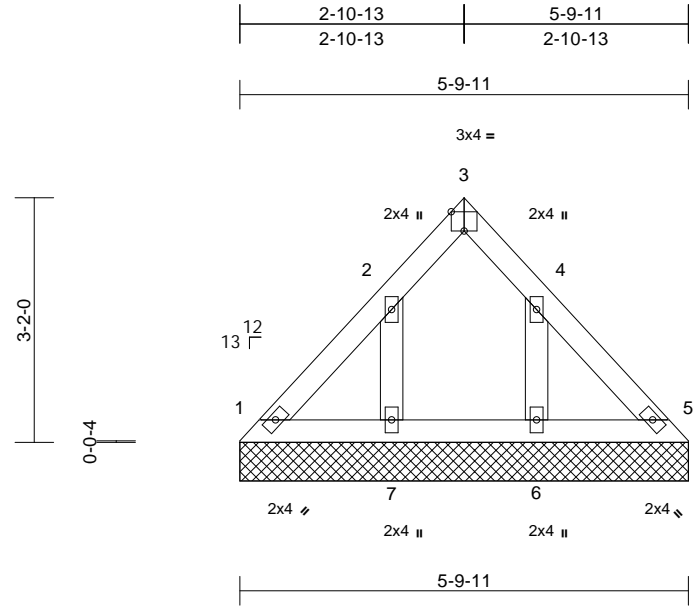
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job B250400	Truss LAY4	Truss Type Lay-In Gable	Qty 1	Ply 1	Lot 123 RS
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RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
01/26/2026 3:17:40

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.83 S Sep 3 2025 Print: 8.830 S Sep 3 2025 MiTek Industries, Inc. The Dec 16 13:01:58 Page: 1
ID:NdncljblwpRYHQk80BPx2ky8OCG-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCpD07142167



Scale = 1:29.8

Plate Offsets (X, Y): [3: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	0.04	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.02	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.02	Horiz(TL)	0.00	5	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 19 lb	FT = 10%

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 5-10-2 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (size) 1=5-9-11, 5=5-9-11, 6=5-9-11, 7=5-9-11
Max Horiz 1=-75 (LC 4)
Max Uplift 6=-100 (LC 9), 7=-101 (LC 8)
Max Grav 1=89 (LC 17), 5=88 (LC 18), 6=177 (LC 16), 7=179 (LC 15)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-106/59, 2-3=-58/13, 3-4=-58/12, 4-5=-105/57
BOT CHORD 1-7=-38/99, 6-7=-38/99, 5-6=-38/99
WEBS 2-7=-140/124, 4-6=-138/123

- 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.
 - 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 101 lb uplift at joint 7 and 100 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



December 17, 2025

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

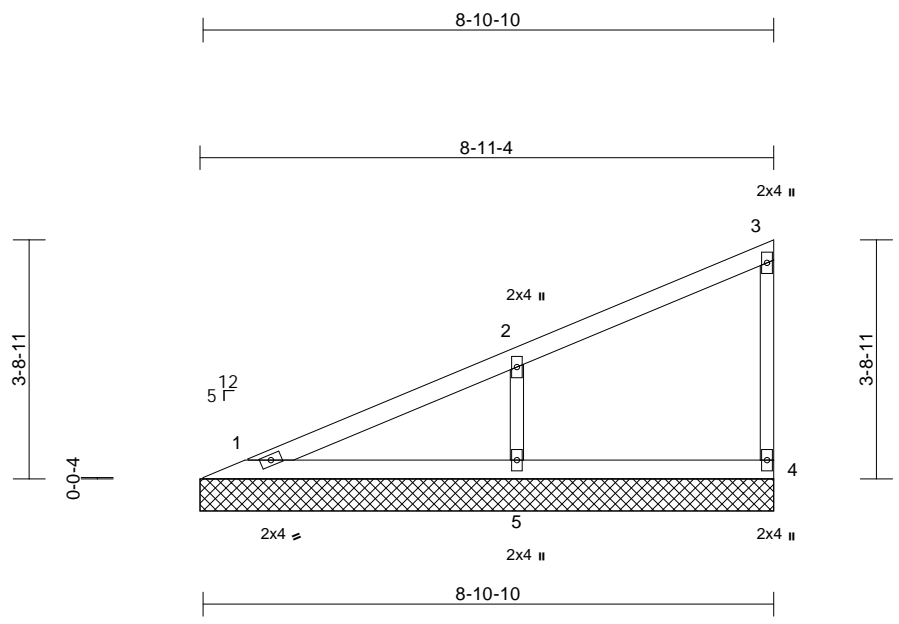
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MiTek®
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
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Job	Truss	Truss Type	Qty	Ply	Lot 123 RS
B250400	V1	Valley	1	1	Job Reference (optional)

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
01/26/2026 3:17:40

Wheeler Lumber, Waverly, KS - 66871, Run: 8.83 S Sep 3 2025 Print: 8.830 S Sep 3 2025 MiTek Industries, Inc. The Dec 16 13:01:58 Page: 1
ID: oWWMuciFchQD4CJXzLeFLbMzX475-RfC?PsB70Hq3NSgPqnL8w3uITXbKWlODu7Lz07f



Scale = 1:35.9

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

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

REACTIONS (size) 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)
Max Grav 1=144 (LC 1), 4=128 (LC 1), 5=455 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-115/70, 2-3=-101/28, 3-4=-100/40
BOT CHORD 1-5=-48/36, 4-5=-48/36
WEBS 2-5=-353/181

- * 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.
 - 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

- 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.
 - 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.



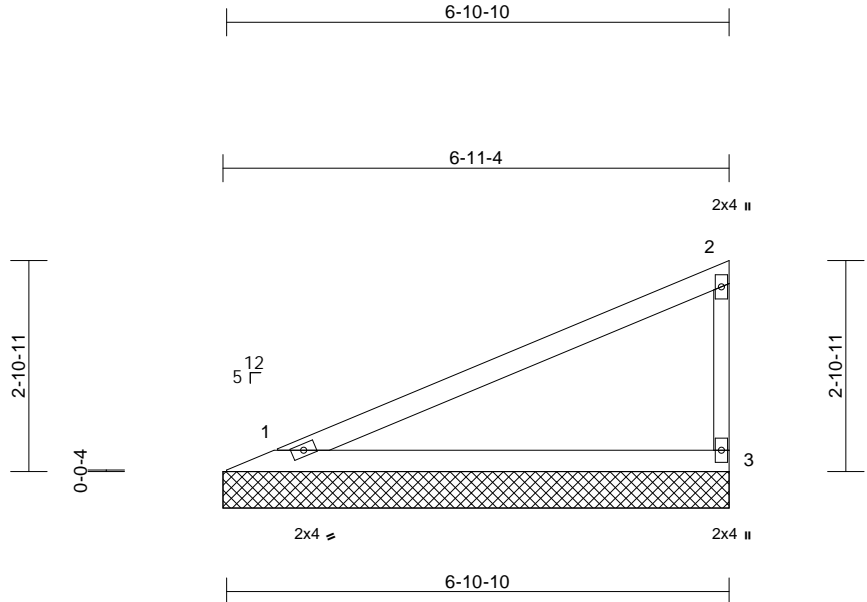
December 17, 2025

Job	Truss	Truss Type	Qty	Ply	Lot 123 RS
B250400	V2	Valley	1	1	Job Reference (optional)

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
01/26/2026 3:17:40

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.83 S Sep 3 2025 Print: 8.830 S Sep 3 2025 MiTek Industries, Inc. The Dec 16 13:01:58 Page: 1
ID:oWMucifChQD4CJzLeFLbMzX475-RfC?PsB70Hq3NSgPqnL8w3uTXbCKWlOD6r7Lz07f



Scale = 1:31.6

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.74	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%

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 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**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TC DL=6.0psf; BC DL=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.

- 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.
 - 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



December 17, 2025

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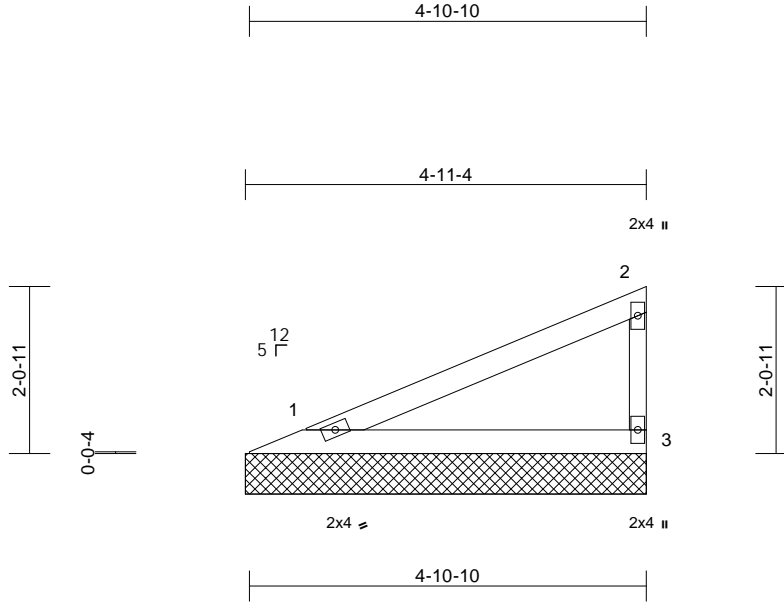
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	Lot 123 RS
B250400	V3	Valley	1	1	Job Reference (optional)

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.83 S Sep 3 2025 Print: 8.830 S Sep 3 2025 MiTek Industries, Inc. The Dec 16 13:01:58 Page: 1
 ID:oWMuciFchQD4CJXzLeFLbMzX475-RfC?PsB70Hq3NSgPqnL8w3uTXbCKWlODu7Lz07f

RELEASE FOR CONSTRUCTION
 AS NOTED ON PLANS REVIEW
 DEVELOPMENT SERVICES
 LEE'S SUMMIT, MISSOURI
 01/26/2026 3:17:40



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	0.31	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
 WEBS 2x3 SPF No.2

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

- 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.
- * 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.

- 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



December 17, 2025

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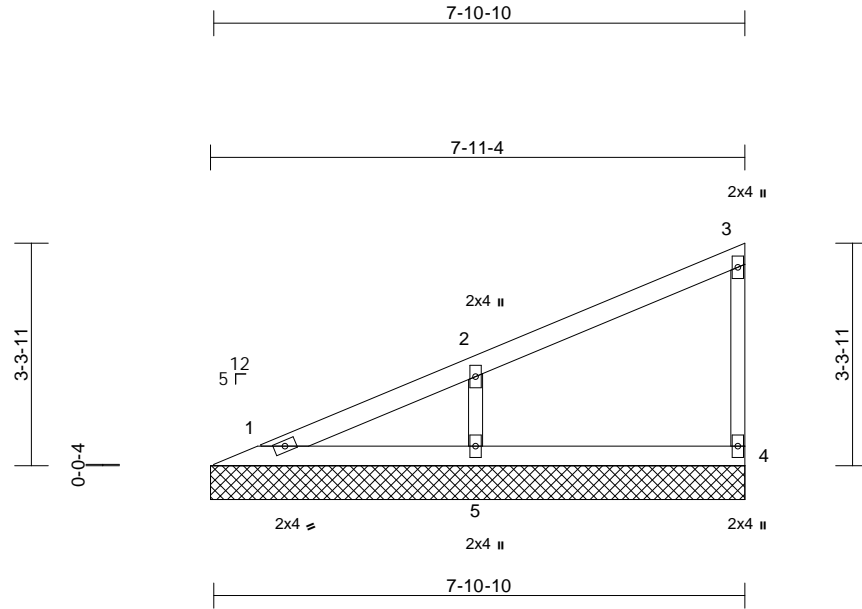
16023 Swingley Ridge Rd.
 Chesterfield, MO 63017
 314.434.1200 / MiTek-US.com

Job B250400	Truss V5	Truss Type Valley	Qty 1	Ply 1	Lot 123 RS
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Wheeler Lumber, Waverly, KS - 66871,

Run: 8.83 S Sep 3 2025 Print: 8.830 S Sep 3 2025 MiTek Industries, Inc. The Dec 16 13:01:59 Page: 1
ID: oWMUciFchQD4CJXzLeFLbMzX475-RfC?PsB70Hq3NSgPqnL8w3uTXbCKWODu7Lz07f

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
01/26/2026 3:17:40



Scale = 1:34.2

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
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)
Max Grav 1=98 (LC 1), 4=138 (LC 1), 5=401 (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
WEBS 2-5=-312/160

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
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) Gable requires continuous bottom chord bearing.
- 5) Gable studs spaced at 4-0-0 oc.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 8) 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.
- 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



December 17, 2025

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

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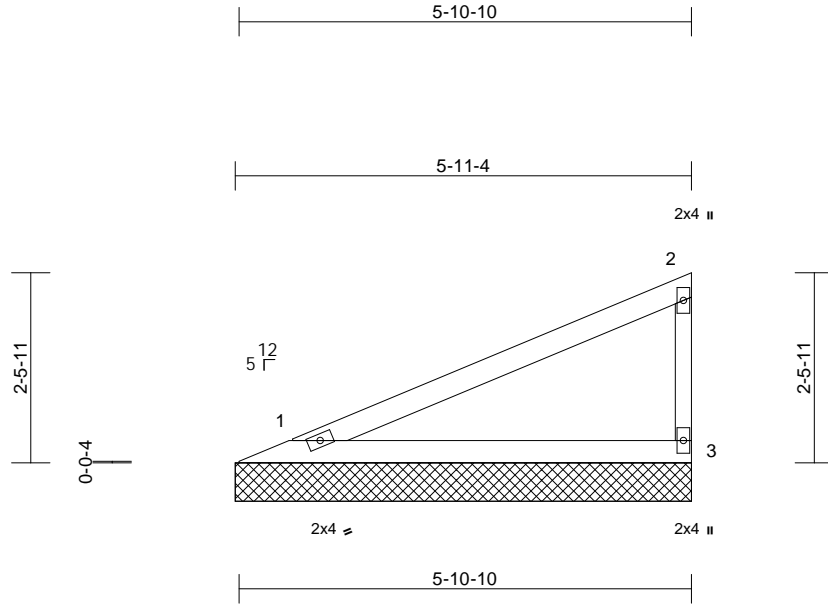
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	Lot 123 RS
B250400	V6	Valley	1	1	Job Reference (optional)

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.83 S Sep 3 2025 Print: 8.830 S Sep 3 2025 MiTek Industries, Inc. The Dec 16 13:01:59 Page: 1
 ID: oWMucifChQD4CJXzLeFLbMzX475-RfC?PsB70Hq3NSgPqnL8w3uITXbKW0D0714207f

RELEASE FOR CONSTRUCTION
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 DEVELOPMENT SERVICES
 LEE'S SUMMIT, MISSOURI
 01/26/2026 3:17:41



Scale = 1:30

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	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	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
 WEBS 2x3 SPF No.2

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

- 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.
- * 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.

- 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



December 17, 2025

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

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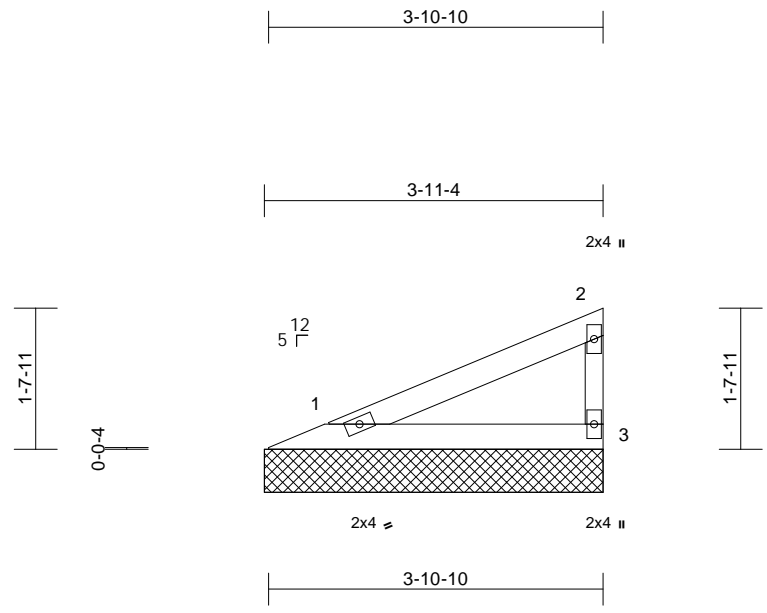
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 Chesterfield, MO 63017
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Job	Truss	Truss Type	Qty	Ply	Lot 123 RS
B250400	V7	Valley	1	1	Job Reference (optional)

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DEVELOPMENT SERVICES
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01/26/2026 3:17:41

Wheeler Lumber, Waverly, KS - 66871, Run: 8.83 S Sep 3 2025 Print: 8.830 S Sep 3 2025 MiTek Industries, Inc. The Dec 16 13:01:59 Page: 1
ID:oWMucifChQD4CJXzLeFLbMzX475-RfC?PsB70Hq3NSgPqnL8w3uITXbCKWlODu7JLz07f



Scale = 1:26.8

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	0.17	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
WEBS 2x3 SPF No.2

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 (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-50/33, 2-3=-108/50
BOT CHORD 1-3=-18/14

- 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
 - 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - 4) Gable requires continuous bottom chord bearing.
 - 5) Gable studs spaced at 4-0-0 oc.
 - 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.

- 8) 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.
 - 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



December 17, 2025

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.
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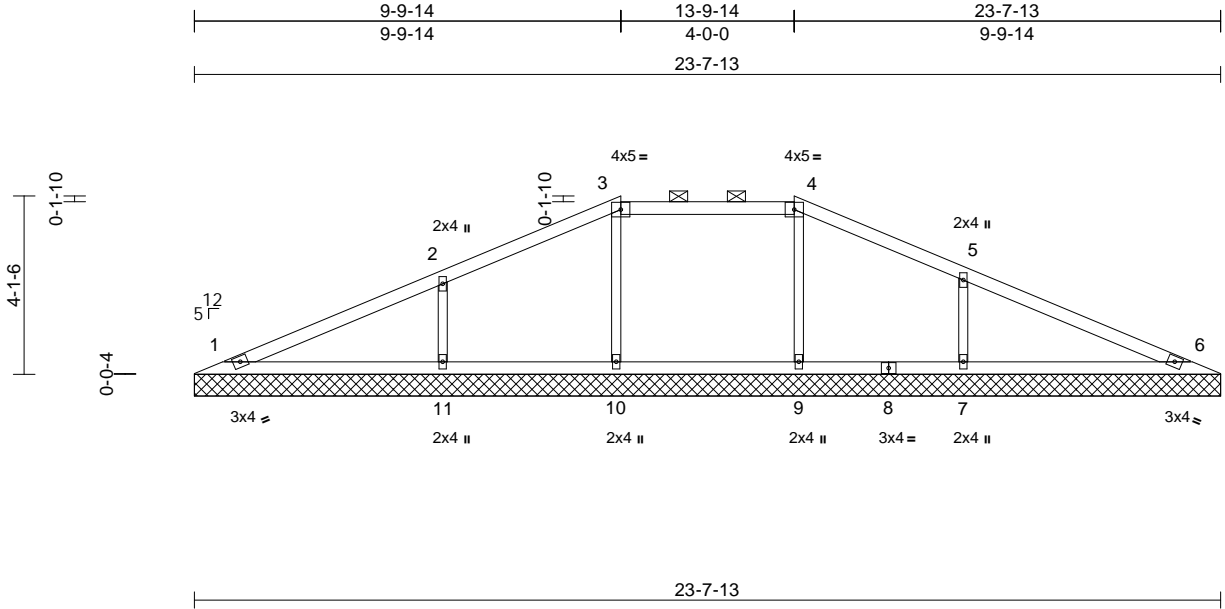
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Chesterfield, MO 63017
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Job B250400	Truss V8	Truss Type Valley	Qty 1	Ply 1	Lot 123 RS
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Wheeler Lumber, Waverly, KS - 66871,

Run: 8.83 S Sep 3 2025 Print: 8.830 S Sep 3 2025 MiTek Industries, Inc. The Dec 16 13:01:59 Page: 1
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RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
01/26/2026 3:17:41



Scale = 1:53.1

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.32	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
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
OTHERS 2x3 SPF No.2

BRACING
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, 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
TOP CHORD 1-2=-89/77, 2-3=-86/98, 3-4=-27/99,
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
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
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.

- 4) Provide adequate drainage to prevent water ponding.
- 5) Gable requires continuous bottom chord bearing.
- 6) Gable studs spaced at 4-0-0 oc.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 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.
- 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



December 17, 2025

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

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcsccomponents.com)

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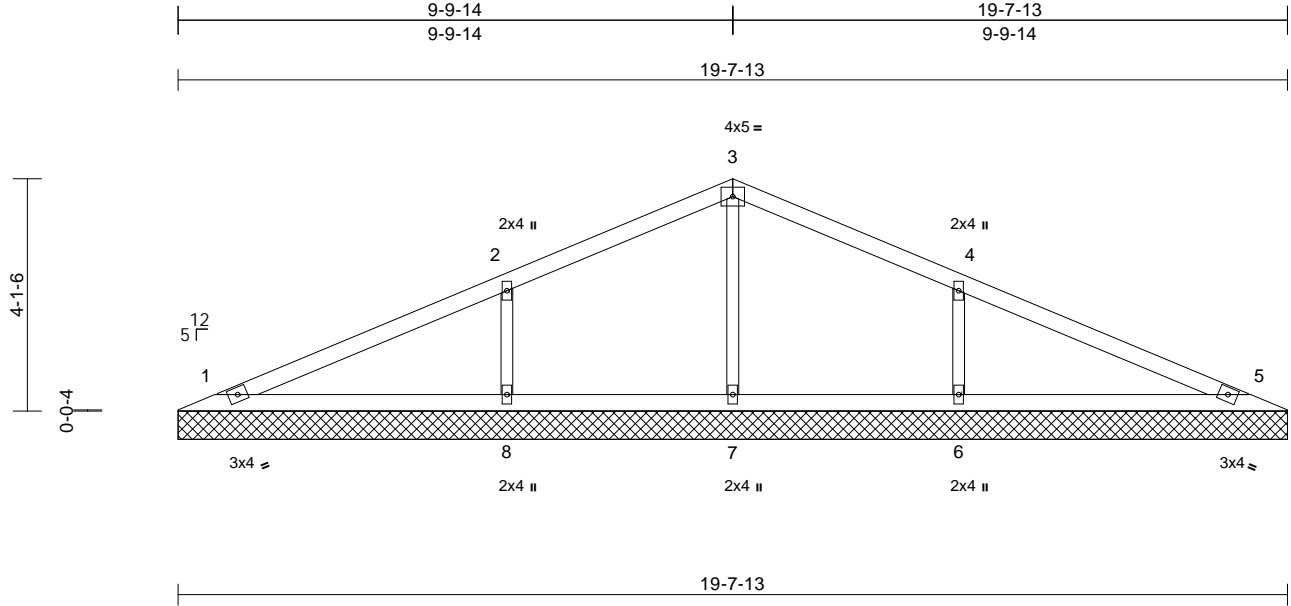
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Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job B250400	Truss V9	Truss Type Valley	Qty 1	Ply 1	Lot 123 RS
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01/26/2026 3:17:41

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.83 S Sep 3 2025 Print: 8.830 S Sep 3 2025 MiTek Industries, Inc. The Dec 16 13:01:59 Page: 1
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Scale = 1:40.8

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	0.31	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
OTHERS 2x3 SPF No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS

(size) 1=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)
Max Grav 1=193 (LC 1), 5=193 (LC 1), 6=508 (LC 22), 7=245 (LC 1), 8=508 (LC 21)

FORCES

(lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=-87/79, 2-3=-90/100, 3-4=-90/90, 4-5=-67/66
BOT CHORD 1-8=-2/54, 7-8=-2/54, 6-7=-2/54, 5-6=-2/54
WEBS 3-7=-191/16, 2-8=-386/193, 4-6=-386/193

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
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) Gable requires continuous bottom chord bearing.
- 5) Gable studs spaced at 4-0-0 oc.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 8) 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.
- 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



December 17, 2025

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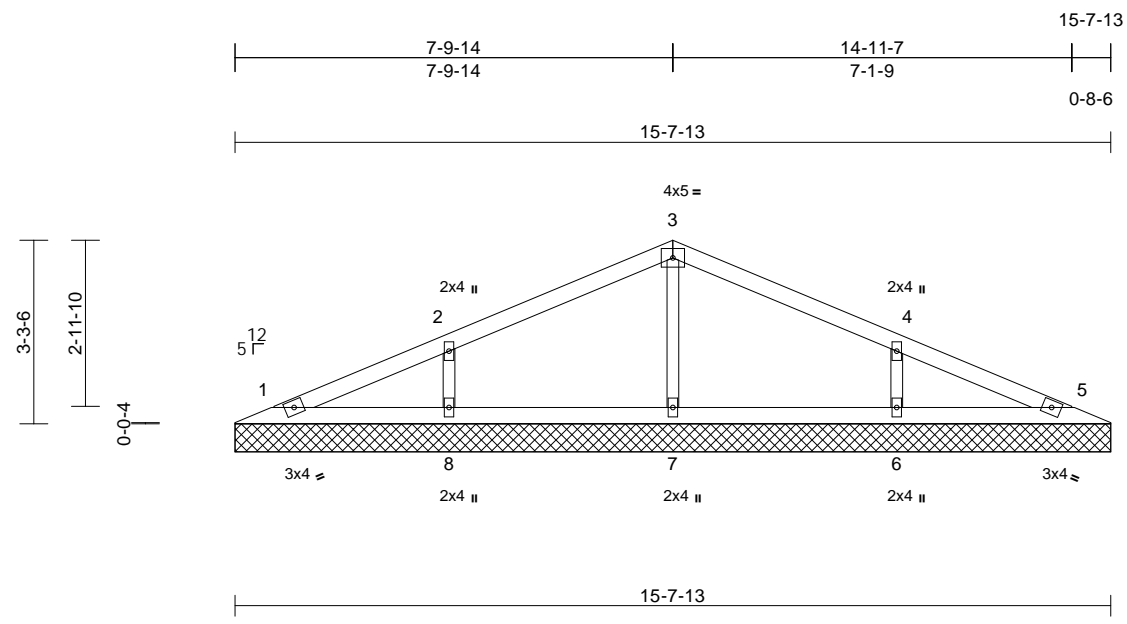
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Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job B250400	Truss V10	Truss Type Valley	Qty 1	Ply 1	Lot 123 RS
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Wheeler Lumber, Waverly, KS - 66871, Run: 8.83 S Sep 3 2025 Print: 8.830 S Sep 3 2025 MiTek Industries, Inc. The Dec 16 13:02:00 Page: 1
ID:oWMucifChQD4CJXzLeFLbMzX475-RfC?PsB70Hq3NSgPqnL8w3uITXbKWUODur7Lz07f



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	0.18	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	0.06	Horiz(TL)	0.00	5	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 39 lb	FT = 10%

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (size) 1=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)
Max Grav 1=111 (LC 1), 5=111 (LC 1), 6=381 (LC 22), 7=313 (LC 1), 8=381 (LC 21)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-70/46, 2-3=-87/78, 3-4=-87/66, 4-5=-53/36
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 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.

- * 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.
- 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.
- 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



December 17, 2025

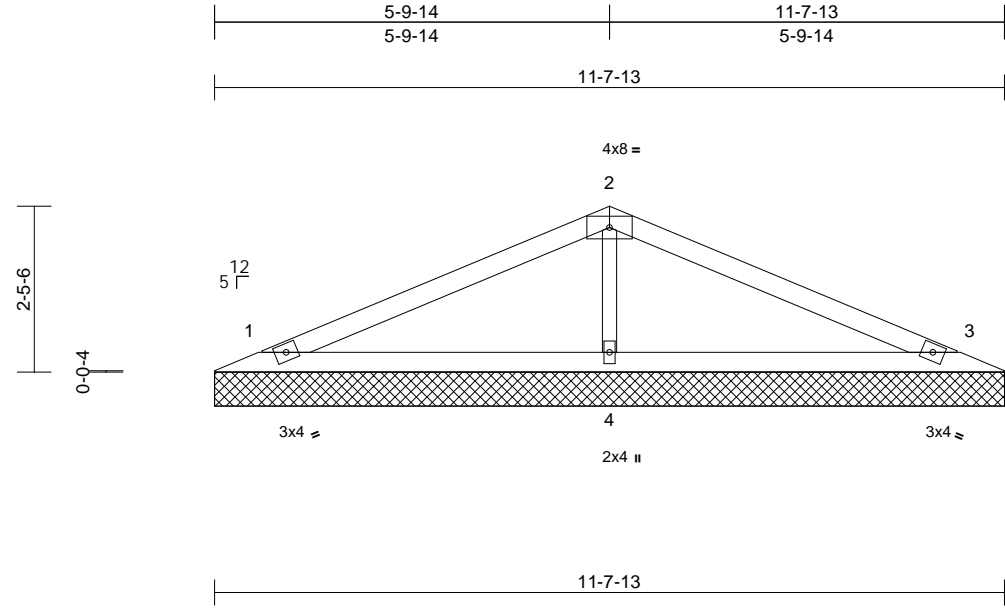
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcsccomponents.com)

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314.434.1200 / MiTek-US.com

Job B250400	Truss V11	Truss Type Valley	Qty 2	Ply 1	Lot 123 RS
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DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
01/26/2026 3:17:41

Wheeler Lumber, Waverly, KS - 66871, Run: 8.83 S Sep 3 2025 Print: 8.830 S Sep 3 2025 MiTek Industries, Inc. The Dec 16 13:02:00 Page: 1
ID:oWMucifChQD4CJXzLeFLbMzX475-RfC?PsB70Hq3NSgPqnL8w3uTXbCkWUODu7Lz07f



Scale = 1:34

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (size) 1=11-7-13, 3=11-7-13, 4=11-7-13
Max Horiz 1=-38 (LC 13)
Max Uplift 1=-44 (LC 8), 3=-50 (LC 9), 4=-32 (LC 8)
Max Grav 1=211 (LC 21), 3=211 (LC 22), 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
WEBS 2-4=-353/93

- NOTES**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TC DL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - 4) Gable requires continuous bottom chord bearing.
 - 5) Gable studs spaced at 4-0-0 oc.
 - 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
 - 8) 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.
 - 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



December 17, 2025

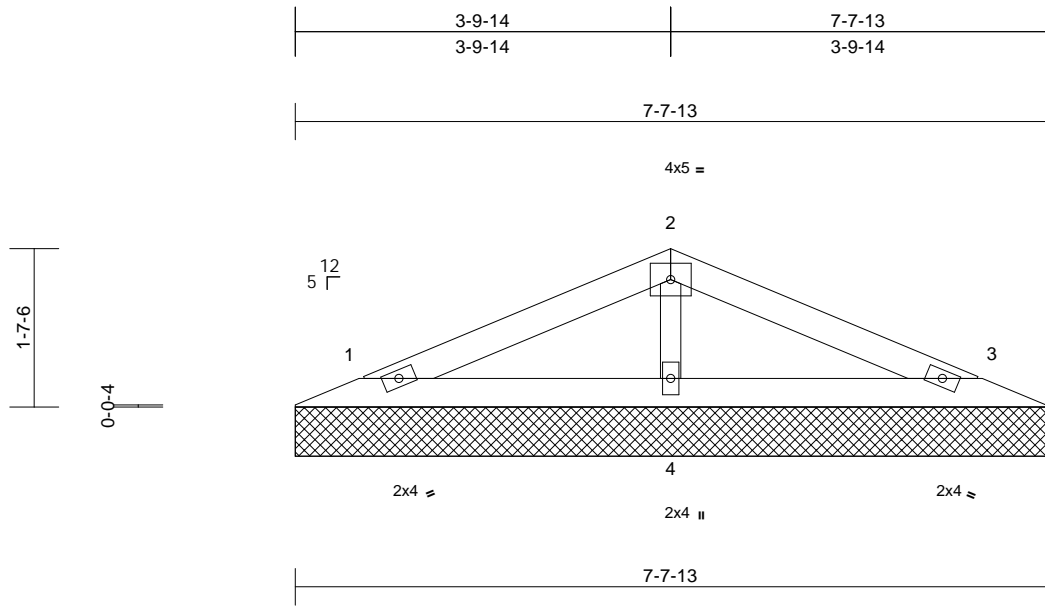
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Job	Truss	Truss Type	Qty	Ply	Lot 123 RS
B250400	V12	Valley	2	1	Job Reference (optional)

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Wheeler Lumber, Waverly, KS - 66871, Run: 8.83 S Sep 3 2025 Print: 8.830 S Sep 3 2025 MiTek Industries, Inc. The Dec 16 13:02:00 Page: 1
ID: oWMuciFchQD4CJXzLeFLbMzX475-RfC?PsB70Hq3NSgPqnL8w3uITxbKWUOdU7Lz07f



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
OTHERS 2x3 SPF No.2

BRACING
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (size) 1=7-7-13, 3=7-7-13, 4=7-7-13
Max Horiz 1=-23 (LC 13)
Max Uplift 1=-33 (LC 8), 3=-37 (LC 9), 4=-7 (LC 8)
Max Grav 1=142 (LC 1), 3=142 (LC 1), 4=278 (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
WEBS 2-4=-200/54

- 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.
- 8) 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.
- 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

- 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
 - 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - 4) Gable requires continuous bottom chord bearing.
 - 5) Gable studs spaced at 4-0-0 oc.
 - 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

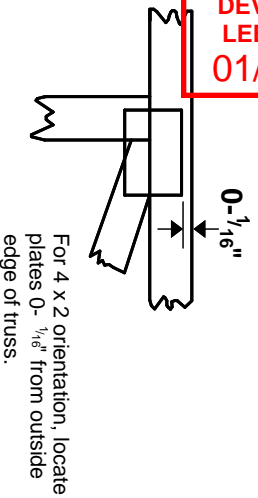


December 17, 2025

Symbols

PLATE LOCATION AND ORIENTATION

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 plates 0- 1/16" from outside edge of truss.

This symbol indicates the required direction of slots in connector plates.

* Plate location details available in MITtek software or upon request.

PLATE SIZE

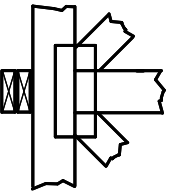
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

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



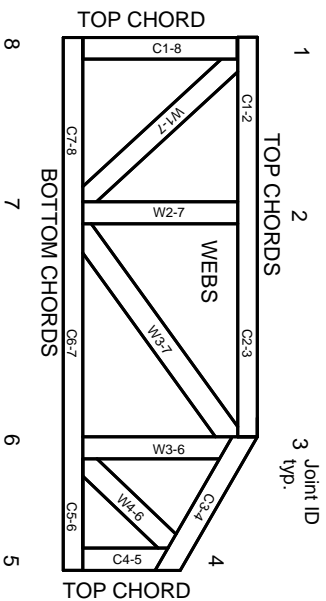
Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number/letter where bearings occur. Min size shown is for crushing only.

Industry Standards:

- ANSI/TFP1: National Design Specification for Metal Plate Connected Wood Truss Construction.
- DSB-22: Design Standard for Bracing.
- BCSI: Building Component Safety Information, Guide to Good Practice for Handling, Installing, Restraining & Bracing of Metal Plate Connected Wood Trusses.

Numbering System

6-4-8 dimensions shown in ft-in-sixteenths (Drawings not to scale)



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/TFP 1 section 6.3. These truss designs rely on Lumber values established by others.

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General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

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

