

05/07/2024



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

Re: 230872 Lot 17 TCR

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: I63476752 thru I63476869

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

Missouri COA: Engineering 001193



February 8,2024

Sevier, Scott

,Engineer

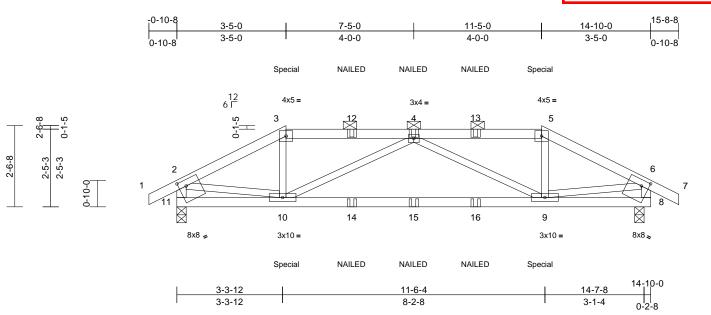
IMPORTANT NOTE: The seal on these truss component designs is a certification that the engineer named is licensed in the jurisdiction(s) identified and that the designs comply with ANSI/TPI 1. These designs are based upon parameters shown (e.g., loads, supports, dimensions, shapes and design codes), which 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.

Ply Job Truss Truss Type Qty Lot 17 TCR 230872 A1 Hip Girder 3 Job Reference (optional S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 163476752 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.73 S Jan 4 2024 Print: 8.730 S Jan 4 2024 MiTek Industries, Inc. Tue Feb 06 12 ID:TA7RjnuxkpmLhoW5vj8a92y6jcz-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKV/rCDoi7J



Scale = 1:36.1

Plate Offsets (X, Y):	[8:0-2-12,0-2-4],	[11:0-2-12,0-2-4]
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Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.32	Vert(LL)	-0.14	9-10	>999	360	MT20	197/144
Snow (Pf/Pg)	20.4/20.0	Lumber DOL	1.15	BC	0.90	Vert(CT)	-0.29	9-10	>597	240		
TCDL	10.0	Rep Stress Incr	NO	WB	0.39	Horz(CT)	0.02	8	n/a	n/a		
BCLL	10.0*	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.04	9-10	>999	240		
BCDL	10.0										Weight: 53 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

4-11-5 oc purlins, except end verticals, and 2-0-0 oc purlins (5-1-13 max.): 3-5.

BOT CHORD Rigid ceiling directly applied or 9-1-3 oc

bracing.

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

Max Horiz 11=-50 (LC 10)

Max Uplift 8=-195 (LC 13), 11=-195 (LC 12)

Max Grav 8=973 (LC 47), 11=973 (LC 45)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/40, 2-3=-1422/248, 3-4=-1239/237,

4-5=-1239/237, 5-6=-1422/248, 6-7=0/40,

2-11=-982/187, 6-8=-982/186

BOT CHORD 10-11=-78/145, 9-10=-403/1663, 8-9=-62/130 WEBS 3-10=0/341, 5-9=0/340, 2-10=-174/1241,

6-9=-177/1242, 4-10=-512/231, 4-9=-512/231

NOTES

- Unbalanced roof live loads have been considered for 1) this design
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0
- Unbalanced snow loads have been considered for this design.

- 5) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- Provide adequate drainage to prevent water ponding. This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- All bearings are assumed to be SPF No.2
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 195 lb uplift at joint 11 and 195 lb uplift at joint 8.
- 11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 13) "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidlines.
- 14) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 184 lb down and 134 lb up at 3-5-0, and 184 lb down and 134 lb up at 11-5-0 on top chord, and 61 lb down at 3-5-0, and 61 lb down at 11-4-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 15) 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 + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (lb/ft)

Vert: 1-2=-51, 2-3=-51, 3-5=-61, 5-6=-51, 6-7=-51, 8-11=-20

Concentrated Loads (lb)

Vert: 3=-119 (F), 5=-119 (F), 10=-41 (F), 9=-41 (F), 4=-46 (F), 12=-46 (F), 13=-46 (F), 14=-17 (F), 15=-17 (F), 16=-17 (F)



February 8,2024



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

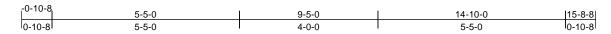
Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not

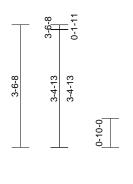


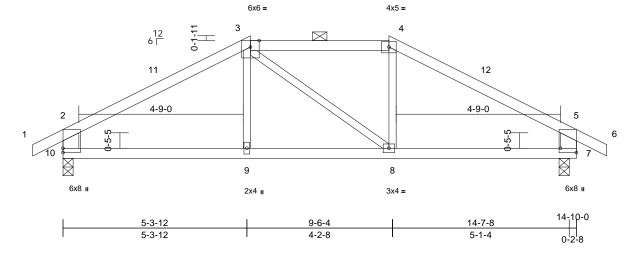
Ply Truss Type Job Truss Qty Lot 17 TCR 230872 A2 Hip 3 Job Reference (optiona RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 163476753 LEE'S SUMMIT. MISSOURI

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.73 S Jan 4 2024 Print: 8.730 S Jan 4 2024 MiTek Industries, Inc. Tue Feb 06 12 ID:xMhpw7vZU7uCly5ITQfpiGy6jcy-RfC?PsB70Hq3NSgPqnL8w3uITXbGKV rCDoi7J4







Scale = 1:33.3

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

Loading	(psf)	Spacing	2-0-0	csı		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.62	Vert(LL)	-0.07	8-9	>999	360	MT20	197/144
Snow (Pf/Pg)	20.4/20.0	Lumber DOL	1.15	BC	0.44	Vert(CT)	-0.13	8-9	>999	240		
TCDL	10.0	Rep Stress Incr	YES	WB	0.06	Horz(CT)	0.02	7	n/a	n/a		
BCLL	10.0*	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.04	8-9	>999	240		
BCDL	10.0										Weight: 48 lb	FT = 10%

LUMBER

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

WEBS 2x3 SPF No.2 *Except* 10-2,7-5:2x6 SPF

BRACING TOP CHORD

Structural wood sheathing directly applied or

5-3-15 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=64 (LC 11)

Max Uplift 7=-89 (LC 13), 10=-89 (LC 12) Max Grav 7=752 (LC 37), 10=752 (LC 37)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/43, 2-3=-869/71, 3-4=-695/104,

4-5=-869/70, 5-6=0/43, 2-10=-684/128,

5-7=-685/128

BOT CHORD 9-10=-39/699, 8-9=-41/694, 7-8=-7/699

WEBS 3-9=0/168, 3-8=-96/97, 4-8=0/177

NOTES

- Unbalanced roof live loads have been considered for 1) this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0
- Unbalanced snow loads have been considered for this desian.

- 5) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- All bearings are assumed to be SPF No.2
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 89 lb uplift at joint 10 and 89 lb uplift at joint 7.
- 11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard



February 8,2024



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

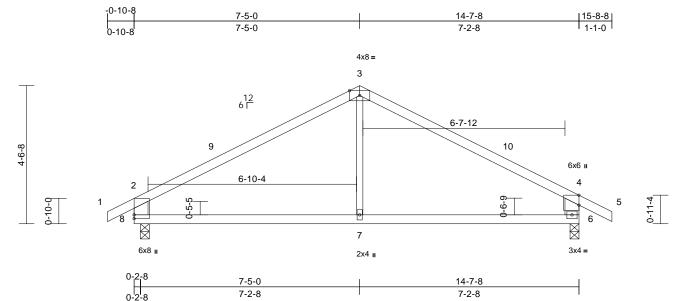
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not



Ply Truss Type Job Truss Qty Lot 17 TCR 230872 **A3** Common 3 Job Reference (optiona RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 163476754 LEE'S SUMMIT. MISSOURI

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.73 S Jan 4 2024 Print: 8.730 S Jan 4 2024 MiTek Industries, Inc. Tue Feb 06 12 ID:ableAzDRhwr9aLpXBgehQSy6jdq-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7



Scale = 1:37.9

Plate Offsets (X, Y): [4:0-3-15,Edge]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.71	Vert(LL)	-0.08	7-8	>999	360	MT20	197/144
Snow (Pf/Pg)	15.4/20.0	Lumber DOL	1.15	BC	0.42	Vert(CT)	-0.16	7-8	>999	240		
TCDL	10.0	Rep Stress Incr	YES	WB	0.09	Horz(CT)	0.01	6	n/a	n/a		
BCLL	10.0*	Code	IRC2018/TPI2014	Matrix-R		Wind(LL)	0.03	7-8	>999	240		
BCDL	10.0										Weight: 43 lb	FT = 10%

LUMBER

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

WEBS 2x6 SPF No.2 *Except* 7-3:2x3 SPF No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or 5-6-13 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=80 (LC 11)

Max Uplift 6=-108 (LC 13), 8=-104 (LC 12)

Max Grav 6=732 (LC 3), 8=718 (LC 3)

FORCES (lb) - Maximum Compression/Maximum

Tension

1-2=0/35, 2-3=-773/109, 3-4=-774/112, TOP CHORD

4-5=0/41, 2-8=-647/157, 4-6=-660/158 **BOT CHORD**

7-8=-18/603, 6-7=-18/603 WEBS 3-7=0/297

NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.

- 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, with BCDL = 10.0psf.
- All bearings are assumed to be SPF No.2.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 104 lb uplift at joint 8 and 108 lb uplift at joint 6.
- 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



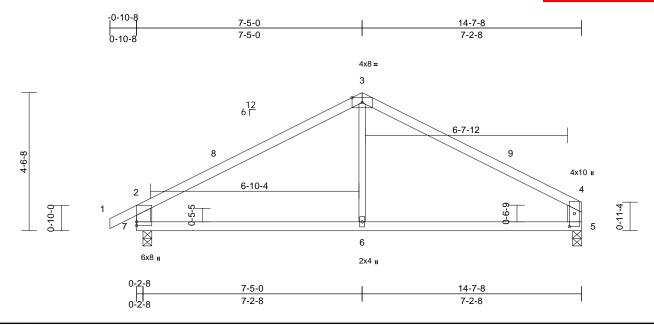
February 8,2024



Truss Type Ply Job Truss Qty Lot 17 TCR 230872 **A4** Common 5 Job Reference (optiona RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 163476755 LEE'S SUMMIT. MISSOURI

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.73 S Jan 4 2024 Print: 8.730 S Jan 4 2024 MiTek Industries, Inc. Tue Feb 06 14 ID:2ns0OJE3RDz0CVOjlNAwzfy6jdp-RfC?PsB70Hq3NSgPqnL8w3uITXbGK VrCDoi7



Scale = 1:37.9

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.71	Vert(LL)	-0.09	6-7	>999	360	MT20	197/144
Snow (Pf/Pg)	15.4/20.0	Lumber DOL	1.15	BC	0.49	Vert(CT)	-0.18	6-7	>957	240		
TCDL	10.0	Rep Stress Incr	YES	WB	0.09	Horz(CT)	0.01	5	n/a	n/a		
BCLL	10.0*	Code	IRC2018/TPI2014	Matrix-R		Wind(LL)	0.04	6-7	>999	240		
BCDL	10.0										Weight: 42 lb	FT = 10%

LUMBER

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

WEBS 2x6 SPF No.2 *Except* 6-3:2x3 SPF No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or 5-0-8 oc purlins, except end verticals. **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc

bracing.

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

Max Horiz 7=84 (LC 9)

Max Uplift 5=-77 (LC 13), 7=-104 (LC 12) Max Grav 5=653 (LC 3), 7=721 (LC 3)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/35, 2-3=-775/109, 3-4=-769/110,

2-7=-646/156, 4-5=-551/124 **BOT CHORD** 6-7=-29/600, 5-6=-29/600

WEBS 3-6=0/288

NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.

- 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, with BCDL = 10.0psf.
- All bearings are assumed to be SPF No.2.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 104 lb uplift at joint 7 and 77 lb uplift at joint 5.
- 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



February 8,2024



Job Truss Truss Type Qty Ply Lot 17 TCR 230872 **A5** Common Job Reference (optional RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 163476756 LEE'S SUMMIT. MISSOURI

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.73 S Jan 4 2024 Print: 8.730 S Jan 4 2024 MiTek Industries, Inc. Tue Feb 06 12 ID:WzQPbfFiCX5tqfzwJ4h9Wty6jdo-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKVrCDoi7J4zJ09

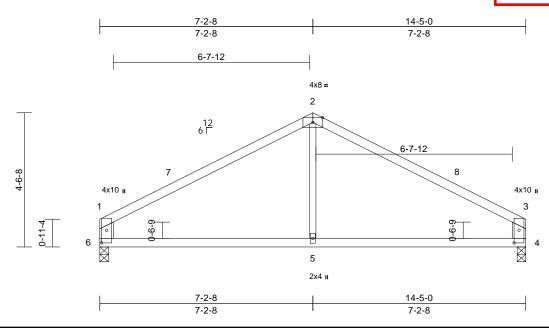


Plate Offsets (X, Y): [1:0-5-3,0-2-0], [3:0-5-3,0-2-0]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.72	Vert(LL)	-0.08	4-5	>999	360	MT20	197/144
Snow (Pf/Pg)	15.4/20.0	Lumber DOL	1.15	BC	0.48	Vert(CT)	-0.15	4-5	>999	240		
TCDL	10.0	Rep Stress Incr	YES	WB	0.09	Horz(CT)	0.01	4	n/a	n/a		
BCLL	10.0*	Code	IRC2018/TPI2014	Matrix-R		Wind(LL)	0.03	5-6	>999	240		
BCDL	10.0										Weight: 40 lb	FT = 10%

LUMBER

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

WEBS 2x6 SPF No.2 *Except* 5-2:2x3 SPF No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or 5-0-13 oc purlins, except end verticals. **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc

bracing.

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

Max Horiz 6=-73 (LC 8)

Max Uplift 4=-76 (LC 13), 6=-76 (LC 12) Max Grav 4=646 (LC 3), 6=646 (LC 3)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-745/107, 2-3=-745/107, 1-6=-540/123,

3-4=-540/123

BOT CHORD 5-6=-26/579, 4-5=-26/579

WEBS 2-5=0/271

NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- 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.
- All bearings are assumed to be SPF No.2.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 76 lb uplift at joint 6 and 76 lb uplift at joint 4.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



February 8,2024



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



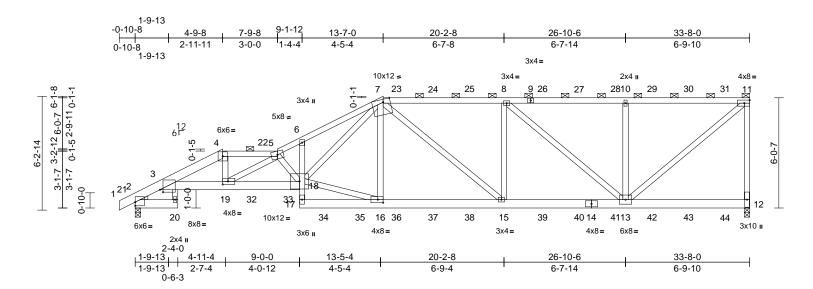
Job Truss Truss Type Qty Ply Lot 17 TCR 230872 В1 2 Roof Special Girder Job Reference (optiona

Wheeler Lumber, Waverly, KS - 66871,

DEVELOPMENT SERVICES 163476757 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW

Run: 8.73 E Jan 4 2024 Print: 8.730 E Jan 4 2024 MiTek Industries, Inc. Wed Feb 0 ID:183_hGailKyG0ZN3lBfyz3y6jc4-djhaUarX1e_G33SS_nVVLMshXh50RDR22p5VKA2



Scale = 1:63.1

Plate Offsets (X, Y): [2:Edge,0-2-7], [3:0-2-0,0-1-10], [7:0-4-9,Edge], [16:0-3-8,0-2-0], [19:0-3-8,0-2-0]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.70	Vert(LL)	-0.27	17	>999	360	MT20	197/144
Snow (Pf/Pg)	20.4/20.0	Lumber DOL	1.15	BC	0.70	Vert(CT)	-0.46	17	>865	240		
TCDL	10.0	Rep Stress Incr	NO	WB	0.57	Horz(CT)	0.21	12	n/a	n/a		
BCLL	10.0*	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.29	17	>999	240		
BCDL	10.0										Weight: 382 lb	FT = 10%

L	U	М	В	E	F	₹

2x4 SPF No.2 *Except* 1-4:2x6 SP 2400F TOP CHORD

2.0E

BOT CHORD 2x6 SPF No.2 *Except* 3-18:2x6 SP 2400F

2.0E. 6-17:2x4 SPF No.2

2x4 SPF No.2 **WEBS** WEDGE Left: 2x3 SPF No.2

BRACING

BOT CHORD

TOP CHORD

TOP CHORD Structural wood sheathing directly applied or

4-0-3 oc purlins, except end verticals, and

2-0-0 oc purlins (4-6-3 max.): 4-5, 7-11. Rigid ceiling directly applied or 10-0-0 oc

bracing, Except:

6-0-0 oc bracing: 2-20.

REACTIONS (lb/size) 2=2495/0-3-8. 12=2124/0-3-8

Max Horiz 2=237 (LC 9)

Max Uplift 2=-929 (LC 12), 12=-1028 (LC 9)

Max Grav 2=3028 (LC 29), 12=2925 (LC 29)

FORCES (lb) - Maximum Compression/Maximum Tension

1-21=0/5, 2-21=0/8, 2-3=-2019/546,

3-4=-8015/2603, 4-22=-7612/2512,

5-22=-7609/2512, 5-6=-8931/2970,

6-7=-8633/2951, 7-23=-4363/1476,

23-24=-4365/1476, 24-25=-4365/1477, 8-25=-4367/1477, 8-9=-2954/1028,

9-26=-2954/1028, 26-27=-2954/1028

27-28=-2954/1028, 10-28=-2954/1028,

10-29=-2954/1028, 29-30=-2954/1028,

30-31=-2954/1028, 11-31=-2954/1028,

11-12=-2737/1026

BOT CHORD 2-20=-193/45, 3-19=-2447/7422,

19-32=-3292/9874, 32-33=-3292/9874,

18-33=-3292/9874, 17-18=-96/265,

6-18=-159/445, 17-34=-339/961, 34-35=-339/961, 16-35=-339/961

16-36=-1522/4347, 36-37=-1522/4347, 37-38=-1522/4347, 15-38=-1522/4347,

15-39=-1548/4276, 39-40=-1548/4276,

14-40=-1548/4276, 14-41=-1548/4276,

13-41=-1548/4276, 13-42=-67/58,

42-43=-67/58, 43-44=-67/58, 12-44=-67/58

3-20=-69/292, 4-19=-843/2751,

5-19=-2711/915, 5-18=-3329/1116

16-18=-1213/3471, 7-18=-1706/4950,

7-16=-324/184, 7-15=-371/147, 8-15=-2/586,

8-13=-1854/638, 10-13=-757/472,

11-13=-1307/3759

NOTES

WFBS

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

(0.131"x3") nails as follows:

Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc, 2x4 - 1 row at 0-6-0 oc.

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

Web connected as follows: 2x4 - 1 row at 0-9-0 oc. All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been

provided to distribute only loads noted as (F) or (B),

unless otherwise indicated. Unbalanced roof live loads have been considered for

this design.

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

- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- 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.
- 11) All bearings are assumed to be SPF No.2 crushing capacity of 425 psi.



February 8,2024

ontinued on page 2

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



Ply Qty Job Truss Truss Type Lot 17 TCR 2 230872 В1 Roof Special Girder Job Reference (optional

Wheeler Lumber, Waverly, KS - 66871,

LEE'S SUMMIT. MISSOURI Run: 8.73 E Jan 4 2024 Print: 8.730 E Jan 4 2024 MiTek Industries, Inc. W d Feb 0 154 0 7 / 2 9 2 4 ID: 83 hGailky/G0ZN/3/B6/23/Sig/Adibal Jary 1a, G33SS n/V/J Meh V h50RDR 205/J/A ID:183_hGailKyG0ZN3lBfyz3y6jc4-djhaUarX1e_G33SS_nVVLMshXh50RDR; 2p5VKALV

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW

DEVELOPMENT SERVICES 163476757

12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1028 lb uplift at ioint 12 and 929 lb uplift at joint 2.

- 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.
- 14) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 15) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 127 lb down and 92 lb up at 14-4-0, 131 lb down and 92 lb up at 16-4-0, 131 lb down and 92 lb up at 18-4-0, 131 lb down and 92 lb up at 20-4-0, 131 lb down and 92 lb up at 22-4-0, 131 lb down and 92 lb up at 24-4-0, 131 lb down and 92 lb up at 26-4-0, 131 lb down and 92 lb up at 28-4-0, and 131 lb down and 92 lb up at 30-4-0, and 131 lb down and 92 lb up at 32-4-0 on top chord, and 519 lb down and 171 lb up at 4-9-8, 187 lb down and 66 lb up at 6-4-12, 187 lb down and 83 lb up at 8-4-12, 197 lb down and 105 lb up at 10-4-0, 255 lb down and 131 lb up at 12-4-0, 63 lb down and 17 lb up at 14-4-0, 63 lb down and 17 lb up at 16-4-0, 63 lb down and 17 lb up at 18-4-0, 63 lb down and 17 lb up at 20-4-0, 63 lb down and 17 lb up at 22-4-0, 63 lb down and 17 lb up at 24-4-0, 63 lb down and 17 lb up at 26-4-0, 63 lb down and 17 lb up at 28-4-0, and 63 lb down and 17 lb up at $\,$ 30-4-0, and 63 lb down and 17 lb up at 32-4-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

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

Uniform Loads (lb/ft)

Vert: 1-4=-51, 4-5=-61, 5-7=-51, 7-11=-61, 2-20=-20,

3-18=-20, 12-17=-20

Concentrated Loads (lb)

Vert: 19=-492 (F), 15=-33 (F), 8=-43 (F), 23=-44 (F), 24=-43 (F), 25=-43 (F), 26=-43 (F), 27=-43 (F), 28=-43 (F), 29=-43 (F), 30=-43 (F), 31=-43 (F), 32=-162 (F), 33=-153 (F), 34=-183 (F), 35=-209 (F), 36=-33 (F), 37=-33 (F), 38=-33 (F), 39=-33 (F), 40=-33 (F), 41=-33 (F), 42=-33 (F), 43=-33 (F),

44=-33 (F)



S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 163476758 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.73 S Jan 4 2024 Print: 8.730 S Jan 4 2024 MiTek Industries, Inc. Tue Feb 06 14 ID:PYFB8TwCFR03w6gU18A2ETy6jcx-RfC?PsB70Hq3NSgPqnL8w3uITXbCKWrCDo

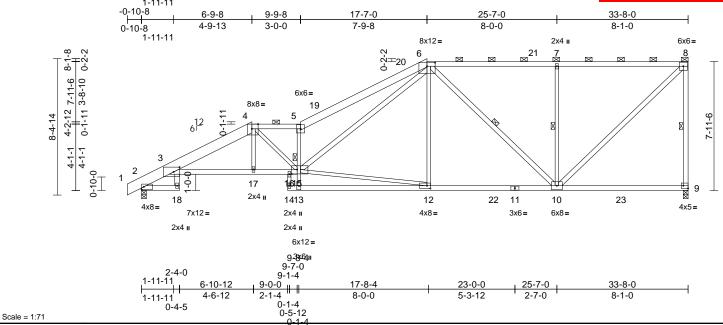


Plate Offsets (X, Y): [3:0-4-5,0-3-8], [4:0-4-10,Edge], [6:0-6-0,0-2-10], [9:Edge,0-2-0], [12:0-2-8,0-2-0], [15:0-4-0,0-3-4]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.71	Vert(LL)	-0.42	12-13	>943	360	MT20	197/144
Snow (Pf/Pg)	20.4/20.0	Lumber DOL	1.15	BC	0.60	Vert(CT)	-0.68	12-13	>589	240		
TCDL	10.0	Rep Stress Incr	YES	WB	0.97	Horz(CT)	0.29	9	n/a	n/a		
BCLL	10.0*	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.21	15	>999	240		
BCDL	10.0										Weight: 181 lb	FT = 10%

LUMBER

2x8 SP 2400F 2.0E *Except* 4-5:2x4 SPF TOP CHORD

No.2, 5-6:2x6 SP 2400F 2.0E, 6-8:2x4 SPF

2100F 1.8E **BOT CHORD**

2x4 SPF 2100F 1.8E *Except* 2-18:2x4 SPF

No.2

WEBS 2x3 SPF No.2 *Except*

8-9,18-3,6-10,8-10,6-15:2x4 SPF No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or

4-2-5 oc purlins, except end verticals, and

2-0-0 oc purlins (2-5-2 max.): 4-5, 6-8. **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc

bracing, Except: 6-0-0 oc bracing: 2-18.

WEBS 8-9, 5-13, 6-10, 7-10 1 Row at midpt

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

Max Horiz 2=320 (LC 9)

Max Uplift 2=-211 (LC 12), 9=-243 (LC 9) Max Grav 2=1917 (LC 3), 9=1940 (LC 47)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/8, 2-3=-1197/65, 3-4=-3907/413,

4-5=-4464/483, 5-6=-5204/678, 6-7=-1574/197, 7-8=-1574/197,

8-9=-1726/276

BOT CHORD 2-18=-40/0, 3-17=-447/3623

16-17=-445/3627, 15-16=-445/3627,

13-14=0/0, 12-13=0/139, 10-12=-292/2089,

9-10=-106/80

WFBS 3-18=0/81, 14-16=-300/0, 4-17=0/199,

4-15=-60/1176, 6-12=-21/371, 13-15=0/563,

5-15=-2442/445, 6-10=-791/136, 8-10=-272/2151, 7-10=-807/273

6-15=-525/3280, 12-15=-301/1962

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

- Wind: ASCE 7-16: Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0
- Unbalanced snow loads have been considered for this
- This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- All bearings are assumed to be SPF No.2
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 243 lb uplift at joint 9 and 211 lb uplift at joint 2.
- 11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard



February 8,2024



NOTES



Job Truss Truss Type Qty Ply Lot 17 TCR 230872 **B3** Roof Special Job Reference (optiona S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 163476759 LEE'S SUMMIT. MISSOUR

RELEASE FOR CONSTRUCTION

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.73 S Jan 4 2024 Print: 8.730 S Jan 4 2024 MiTek Industries, Inc. Tue Feb 06 14 WrCDoi 34z36 ID:LxMyZ9xSn2Gn9Qqt8ZCWJuy6jcv-RfC?PsB70Hq3NSgPqnL8w3uITXbGl

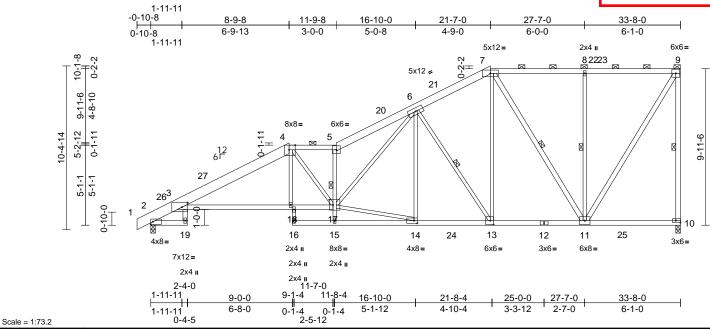


Plate Offsets (X, Y): [3:0-4-5,0-3-8], [4:0-4-10,Edge], [10:Edge,0-1-8], [13:0-2-8,0-3-0], [14:0-2-8,0-2-0], [17:0-2-12,0-4-0]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.68	Vert(LL)	-0.40	3-18	>999	360	MT20	197/144
Snow (Pf/Pg)	20.4/20.0	Lumber DOL	1.15	BC	0.73	Vert(CT)	-0.63	3-18	>638	240		
TCDL	10.0	Rep Stress Incr	YES	WB	0.91	Horz(CT)	0.33	10	n/a	n/a		
BCLL	10.0*	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.21	17	>999	240		
BCDL	10.0										Weight: 199 lb	FT = 10%

LUMBER

2x4 SPF No.2 *Except* 5-7:2x6 SPF No.2. TOP CHORD

4-1:2x8 SP 2400F 2.0E

BOT CHORD 2x4 SPF No.2 *Except* 3-17:2x4 SPF 2100F

1.8E

WEBS 2x3 SPF No.2 *Except* 9-10:2x4 SPF 2100F

1.8E, 19-3,11-7,11-9:2x4 SPF No.2

BRACING

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

2-0-0 oc purlins (2-6-10 max.): 4-5, 7-9.

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

bracing, Except:

6-0-0 oc bracing: 2-19. WEBS 1 Row at midpt 9-10, 5-15, 6-13, 7-11,

8-11

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

Max Horiz 2=403 (LC 11)

Max Uplift 2=-231 (LC 12), 10=-228 (LC 9) Max Grav 2=1988 (LC 48), 10=1908 (LC 3)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 4-5=-3691/467, 5-6=-4262/603,

6-7=-1745/266, 7-8=-999/182, 8-9=-998/181, 9-10=-1748/244, 1-2=0/8, 2-3=-1285/51,

3-4=-3615/412

BOT CHORD 2-19=-40/0, 3-18=-462/3296,

17-18=-458/3306, 15-16=0/6, 14-15=-1/80,

13-14=-272/2179, 11-13=-238/1519,

10-11=-136/103

3-19=0/81, 16-18=0/58, 15-17=0/239,

5-17=-1946/339, 6-17=-407/2512, 6-13=-1294/281, 7-13=-166/1375, 7-11=-1034/166, 8-11=-608/215,

9-11=-219/1884, 4-17=-37/636, 4-18=0/408,

6-14=-200/113, 14-17=-278/2137

- 1) Unbalanced roof live loads have been considered for this design
- Wind: ASCE 7-16: Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0
- Unbalanced snow loads have been considered for this
- This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- All bearings are assumed to be SPF No.2
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 228 lb uplift at joint 10 and 231 lb uplift at joint 2.
- 11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard



February 8,2024

WFBS



 Job
 Truss
 Truss Type
 Qty
 Ply
 Lot 17 TCR

 230872
 B4
 Roof Special
 1
 1
 Job Reference (optional)

TCR

AS NOTED FOR PLAN REVIEW

DEVELOPMENT SERVICES
163476760

LEE'S SUMMIT, MISSOURI

RELEASE FOR CONSTRUCTION

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.73 S Jan 4 2024 Print: 8.730 S Jan 4 2024 MiTek Industries, Inc. Tue Feb 06 13 25 1/0 7/2 19:24
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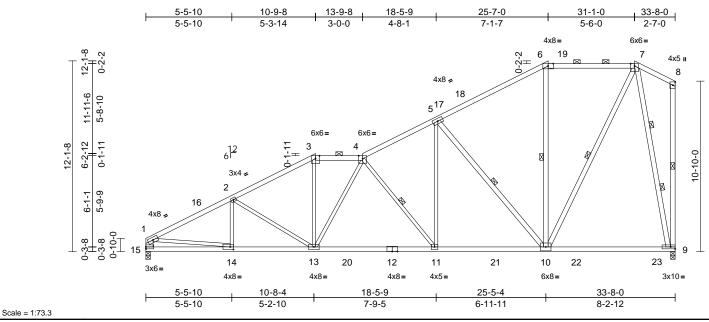


Plate Offsets (X, Y): [14:0-2-8,0-2-0]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.75	Vert(LL)	-0.28	9-10	>999	360	MT20	197/144
Snow (Pf/Pg)	20.4/20.0	Lumber DOL	1.15	BC	0.56	Vert(CT)	-0.43	11-13	>931	240		
TCDL	10.0	Rep Stress Incr	YES	WB	0.82	Horz(CT)	0.06	9	n/a	n/a		
BCLL	10.0*	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.09	11-13	>999	240		
BCDL	10.0										Weight: 179 lb	FT = 10%

LUMBER

TOP CHORD 2x4 SPF No.2

BOT CHORD 2x4 SPF 2100F 1.8E *Except* 12-9:2x4 SPF

2400F 2.0E

WEBS 2x3 SPF No.2 *Except*

10-5,10-6,10-7,9-7:2x4 SPF No.2, 9-8:2x4

SPF 2100F 1.8E, 15-1:2x6 SPF No.2

BRACING

BOT CHORD

TOP CHORD Structural wood sheathing directly applied or 2-11-4 oc purlins, except end verticals, and

2-0-0 oc purlins (3-8-2 max.): 3-4, 6-7. Rigid ceiling directly applied or 10-0-0 oc

bracing.

WEBS 1 Row at midpt 4-11, 5-10, 6-10, 7-10,

8-9
WEBS 2 Rows at 1/3 pts 7-9
REACTIONS (size) 9=0-3-8 15=0-3-8

9=0-3-8, 15=0-3-8 Max Horiz 15=456 (LC 9)

Max Uplift 9=-198 (LC 12), 15=-221 (LC 12) Max Grav 9=1911 (LC 3), 15=1942 (LC 50)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-3070/365, 2-3=-2774/357,

3-4=-2395/355, 4-5=-2281/314, 5-6=-1269/236, 6-7=-1032/263,

7-8=-219/164, 8-9=-215/117, 1-15=-1788/249

BOT CHORD 14-15=-426/525, 13-14=-481/2675,

11-13=-376/2601, 10-11=-235/2003,

9-10=-138/366

2-14=-161/90, 2-13=-336/145, 3-13=-33/940,

4-11=-967/226, 5-11=-84/1172, 5-10=-1507/329, 6-10=-61/259, 7-10=-233/1610, 7-9=-1667/265, 1-14=-218/2241, 4-13=-446/40

NOTES

WEBS

 Unbalanced roof live loads have been considered for this design.

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0
- Unbalanced snow loads have been considered for this design.
- 5) 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.
- 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, with BCDL = 10.0psf.
- 3) All bearings are assumed to be SPF No.2
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 221 lb uplift at joint 15 and 198 lb uplift at joint 9.
- 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 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



February 8,2024



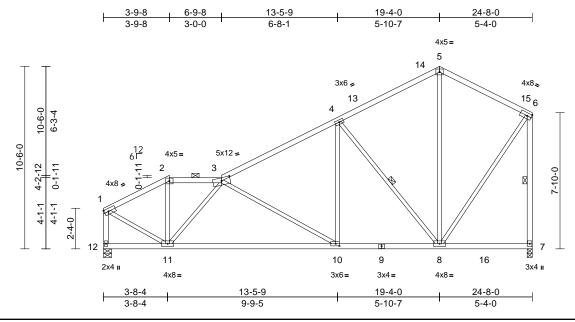
Ply Truss Type Job Truss Qty Lot 17 TCR 230872 C1 Roof Special Job Reference (optiona

S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 163476761 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.73 S Jan 4 2024 Print: 8.730 S Jan 4 2024 MiTek Industries, Inc. Tue Feb 06 12 ID:Aen3yqQYMKJ6yZtZUywvxKy6jcH-RfC?PsB70Hq3NSgPqnL8w3uITXbGl WrCDoi



Scale = 1:66.3

Plate Offsets (X, Y): [3:0-6-0,0-2-3], [10:0-2-8,0-1-8]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.69	Vert(LL)	-0.32	10-11	>915	360	MT20	197/144
Snow (Pf/Pg)	20.4/20.0	Lumber DOL	1.15	BC	0.60	Vert(CT)	-0.50	10-11	>583	240		
TCDL	10.0	Rep Stress Incr	YES	WB	0.88	Horz(CT)	0.03	7	n/a	n/a		
BCLL	10.0*	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.05	10-11	>999	240		
BCDL	10.0										Weight: 114 lb	FT = 10%

LUMBER

TOP CHORD 2x4 SPF No 2

BOT CHORD 2x4 SPF 2100F 1.8E *Except* 9-7:2x4 SPF

No.2

WEBS 2x3 SPF No.2 *Except* 7-6,12-1:2x4 SPF

BRACING

TOP CHORD Structural wood sheathing directly applied or

3-9-1 oc purlins, except end verticals, and 2-0-0 oc purlins (5-4-1 max.): 2-3.

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

bracing, Except:

6-0-0 oc bracing: 11-12. **WEBS** 1 Row at midpt 6-7, 4-8

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

Max Horiz 12=342 (LC 11)

Max Uplift 7=-160 (LC 12), 12=-159 (LC 12)

Max Grav 7=1370 (LC 3), 12=1355 (LC 46)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=-1335/135, 2-3=-1139/150,

3-4=-1492/190, 4-5=-741/175, 5-6=-693/197,

6-7=-1225/197, 1-12=-1360/153

BOT CHORD 11-12=-333/144, 10-11=-297/1667, 8-10=-142/1264, 7-8=-104/81

2-11=0/418, 6-8=-101/976, 1-11=-88/1320,

5-8=-61/378, 4-8=-1101/248, 4-10=0/719,

3-10=-510/184, 3-11=-843/160

NOTES

WEBS

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

- 3) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0
- Unbalanced snow loads have been considered for this design.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- All bearings are assumed to be SPF No.2.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 159 lb uplift at joint 12 and 160 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.



February 8,2024



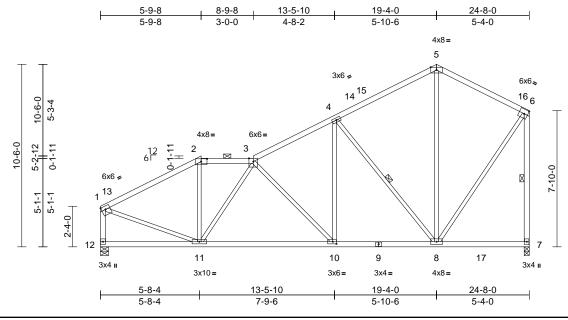
Ply Truss Type Job Truss Qty Lot 17 TCR 230872 C2 Roof Special Job Reference (optiona

S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 163476762 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.73 S Jan 4 2024 Print: 8.730 S Jan 4 2024 MiTek Industries, Inc. Tue Feb 06 14 ID:fqLS9ARA7eRzajSl2gR8UXy6jcG-RfC?PsB70Hq3NSgPqnL8w3uITXbGKVrCDoi7



Scale = 1:66.3

Plate Offsets (X, Y): [1:Edge,0-2-4], [2:0-4-0,0-1-15], [10:0-2-8,0-1-8]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.62	Vert(LL)	-0.17	10-11	>999	360	MT20	197/144
Snow (Pf/Pg)	20.4/20.0	Lumber DOL	1.15	BC	0.77	Vert(CT)	-0.28	10-11	>999	240		
TCDL	10.0	Rep Stress Incr	YES	WB	0.83	Horz(CT)	0.03	7	n/a	n/a		
BCLL	10.0*	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.05	10-11	>999	240		
BCDL	10.0										Weight: 117 lb	FT = 10%

LUMBER

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

WEBS 2x3 SPF No.2 *Except* 7-6,12-1:2x4 SPF

No.2

BRACING TOP CHORD

WEBS

Structural wood sheathing directly applied or

3-11-8 oc purlins, except end verticals, and 2-0-0 oc purlins (5-1-5 max.): 2-3.

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

bracing.

1 Row at midpt 6-7, 4-8

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

> Max Horiz 12=342 (LC 9) Max Uplift 7=-160 (LC 12), 12=-159 (LC 12)

> Max Grav 7=1370 (LC 3), 12=1370 (LC 46)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-1485/176, 2-3=-1246/202,

3-4=-1403/202, 4-5=-744/171, 5-6=-696/197, 6-7=-1231/196, 1-12=-1261/182

BOT CHORD 11-12=-328/179, 10-11=-243/1524,

8-10=-142/1222, 7-8=-105/81 **WEBS** 2-11=0/395, 3-11=-523/64, 6-8=-101/983,

1-11=-84/1258, 5-8=-50/349, 4-8=-1036/244,

4-10=-25/730, 3-10=-481/156

NOTES

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

- 3) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0
- Unbalanced snow loads have been considered for this design.
- Provide adequate drainage to prevent water ponding.
- 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, with BCDL = 10.0psf.
- All bearings are assumed to be SPF No.2.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 159 lb uplift at joint 12 and 160 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



February 8,2024



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

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

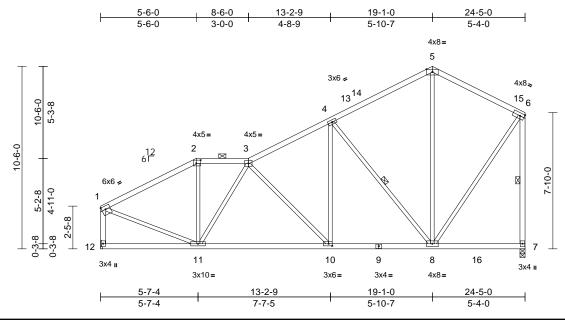


Job Truss Truss Type Qty Ply Lot 17 TCR 230872 C3 Roof Special Job Reference (optiona S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 163476763 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.73 S Jan 4 2024 Print: 8.730 S Jan 4 2024 MiTek Industries, Inc. Tue Feb 06 14 ID:ivArcs?bcav4GBiqx6oh0xy6jcq-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrtDoi7J4z



Scale = 1:66.3

Plate Offsets (X, Y): [1:Edge,0-2-4], [2:0-3-0,0-2-4], [10:0-2-8,0-1-8]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.55	Vert(LL)	-0.16	10-11	>999	360	MT20	197/144
Snow (Pf/Pg)	20.4/20.0	Lumber DOL	1.15	BC	0.74	Vert(CT)	-0.26	10-11	>999	240		
TCDL	10.0	Rep Stress Incr	YES	WB	0.81	Horz(CT)	0.03	7	n/a	n/a		
BCLL	10.0*	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.04	10-11	>999	240		
BCDL	10.0										Weight: 116 lb	FT = 10%

LUMBER

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

WEBS 2x3 SPF No.2 *Except* 7-6,12-1:2x4 SPF

No.2 BRACING

TOP CHORD Structural wood sheathing directly applied or

4-1-4 oc purlins, except end verticals, and 2-0-0 oc purlins (5-2-13 max.): 2-3.

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

bracing.

WEBS 1 Row at midpt 6-7, 4-8

REACTIONS 7=0-3-8, 12= Mechanical (size)

Max Horiz 12=342 (LC 9)

Max Uplift 7=-157 (LC 12), 12=-157 (LC 12)

Max Grav 7=1359 (LC 3), 12=1355 (LC 46)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-1418/171, 2-3=-1198/193,

3-4=-1373/199, 4-5=-738/170, 5-6=-691/195,

6-7=-1221/193, 1-12=-1247/180 **BOT CHORD** 11-12=-324/169, 10-11=-233/1466,

8-10=-143/1205, 7-8=-105/81

WEBS 2-11=0/388, 3-11=-531/70, 6-8=-99/973,

1-11=-87/1216, 5-8=-49/344, 4-8=-1014/241,

4-10=-19/688, 3-10=-427/146

NOTES

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

- 3) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0
- Unbalanced snow loads have been considered for this design.
- Provide adequate drainage to prevent water ponding.
- 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, with BCDL = 10.0psf.
- All bearings are assumed to be SPF No.2.
- Refer to girder(s) for truss to truss connections.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 157 lb uplift at joint 12 and 157 lb uplift at joint 7.
- 11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard



February 8,2024



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

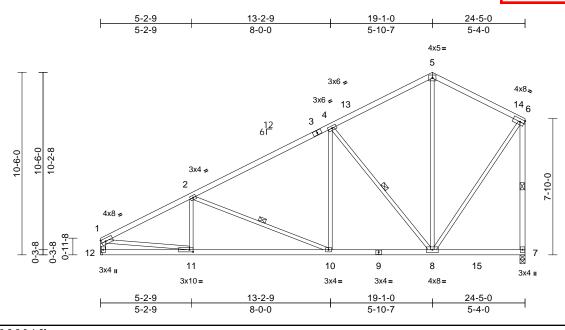
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not



Ply Truss Type Qty Job Truss Lot 17 TCR 230872 C4 3 Common Job Reference (optiona RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 163476764 LEE'S SUMMIT. MISSOURI

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.73 S Jan 4 2024 Print: 8.730 S Jan 4 2024 MiTek Industries, Inc. Tue Feb 06 14 ID:ivArcs?bcav4GBiqx6oh0xy6jcq-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrtDoi7J4z



Scale = 1:66.3

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.66	Vert(LL)	-0.20	10-11	>999	360	MT20	197/144
Snow (Pf/Pg)	15.4/20.0	Lumber DOL	1.15	BC	0.87	Vert(CT)	-0.34	10-11	>863	240		
TCDL	10.0	Rep Stress Incr	YES	WB	0.80	Horz(CT)	0.04	7	n/a	n/a		
BCLL	10.0*	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.06	10-11	>999	240		
BCDL	10.0										Weight: 110 lb	FT = 10%

LUMBER

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

WEBS 2x3 SPF No.2 *Except* 7-6,12-1:2x4 SPF

BRACING

TOP CHORD Structural wood sheathing directly applied or

3-7-11 oc purlins, except end verticals.

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

bracing. WFBS

1 Row at midpt 6-7, 4-8, 2-10 REACTIONS 7=0-3-8. 12= Mechanical

(size)

Max Horiz 12=347 (LC 9)

Max Uplift 7=-162 (LC 12), 12=-152 (LC 12)

Max Grav 7=1359 (LC 3), 12=1316 (LC 3)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-2013/240, 2-4=-1415/198,

4-5=-723/178, 5-6=-689/198, 6-7=-1219/198,

1-12=-1215/171

BOT CHORD 11-12=-326/256, 10-11=-338/1796,

8-10=-150/1212, 7-8=-105/81 **WEBS**

6-8=-102/981, 1-11=-147/1597, 5-8=-66/329, 4-8=-993/265, 2-11=-54/255, 2-10=-631/205,

4-10=0/657

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
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10

- 4) Unbalanced snow loads have been considered for this design.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- All bearings are assumed to be SPF No.2. Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to
- bearing plate capable of withstanding 152 lb uplift at joint 12 and 162 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.

LOAD CASE(S) Standard



February 8,2024



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

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



Job Truss Truss Type Qty Ply Lot 17 TCR 230872 C5 2 Common Job Reference (optiona

S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 163476765 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.73 S Jan 4 2024 Print: 8.730 S Jan 4 2024 MiTek Industries, Inc. Tue Feb 06 12 ID:A5jDpC0DNu1wtLH0VpJwZ9y6jcp-RfC?PsB70Hq3NSgPqnL8w3uITXbGkWrCDoi7

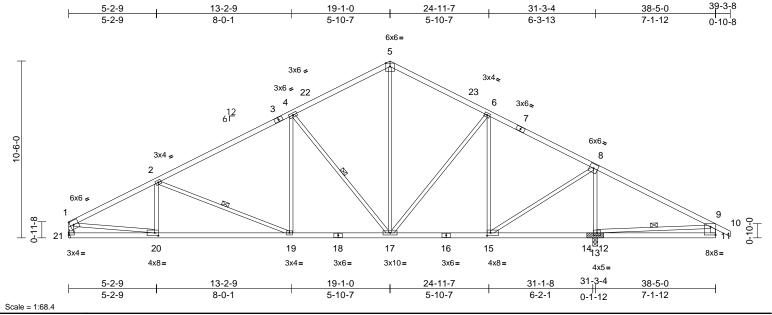


Plate Offsets (X, Y): [11:Edge,0-5-13], [15:0-2-8,0-2-0], [20:0-2-8,0-2-0]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.69	Vert(LL)	-0.25	19-20	>999	360	MT20	197/144
Snow (Pf/Pg)	15.4/20.0	Lumber DOL	1.15	BC	0.97	Vert(CT)	-0.40	19-20	>927	240		
TCDL	10.0	Rep Stress Incr	YES	WB	0.93	Horz(CT)	0.05	13	n/a	n/a		
BCLL	10.0*	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.08	19-20	>999	240		
BCDL	10.0										Weight: 158 lb	FT = 10%

LUMBER

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

WEBS 2x3 SPF No.2 *Except* 21-1,11-9:2x4 SPF No.2

BRACING

TOP CHORD

Structural wood sheathing directly applied or 2-10-4 oc purlins, except end verticals.

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

bracing.

WFBS 1 Row at midpt

9-13, 4-17, 2-19

REACTIONS (size)

13=(0-3-8 + bearing block), (req.

0-4-2), 21= Mechanical

Max Horiz 21=-167 (LC 13) Max Uplift 13=-291 (LC 13), 21=-190 (LC 12)

Max Grav 13=2631 (LC 3), 21=1606 (LC 3)

FORCES

(lb) - Maximum Compression/Maximum

Tension TOP CHORD

1-2=-2516/307, 2-4=-1999/275,

4-5=-1316/256, 5-6=-1308/275,

6-8=-1103/189, 8-9=-138/798, 9-10=0/32,

1-21=-1502/209, 9-11=-28/184

BOT CHORD 20-21=-166/307, 19-20=-366/2261,

17-19=-186/1749, 15-17=-14/939, 13-15=-629/186, 11-13=-131/335

WEBS 1-20=-202/2022, 9-13=-968/318,

5-17=-130/810, 8-13=-2172/346,

4-17=-969/262, 2-20=-103/204,

2-19=-559/194, 4-19=0/635, 6-17=-41/337,

6-15=-717/118, 8-15=-81/1831

NOTES

- 2x4 SPF No.2 bearing block 12" long at jt. 13 attached to front face with 2 rows of 10d (0.131"x3") nails spaced 3' o.c. 8 Total fasteners. Bearing is assumed to be SPF No.2.
- 2) Unbalanced roof live loads have been considered for this design.

- 3) 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
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- All bearings are assumed to be SPF No.2
- 10) Refer to girder(s) for truss to truss connections.
- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 190 lb uplift at joint 21 and 291 lb uplift at joint 13.
- 12) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



February 8,2024

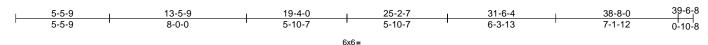


Job Truss Truss Type Qty Ply Lot 17 TCR 230872 C6 6 Common Job Reference (optiona

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 163476766 LEE'S SUMMIT. MISSOURI

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.73 S Jan 4 2024 Print: 8.730 S Jan 4 2024 MiTek Industries, Inc. Tue Feb 06 12 ID:6UrzEu1TvVHe7eRPcELOeay6jcn-RfC?PsB70Hq3NSgPqnL8w3uITXbGkWrCDoi



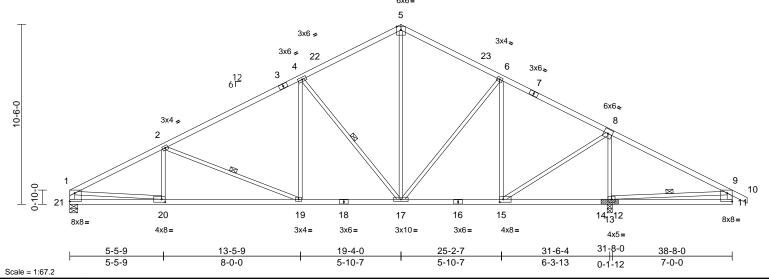


Plate Offsets (X, Y): [11:Edge,0-5-13], [15:0-2-8,0-2-0], [20:0-2-8,0-2-0], [21:Edge,0-5-13]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.69	Vert(LL)	-0.26	19-20	>999	360	MT20	197/144
Snow (Pf/Pg)	15.4/20.0	Lumber DOL	1.15	BC	1.00	Vert(CT)	-0.42	19-20	>903	240		
TCDL	10.0	Rep Stress Incr	YES	WB	0.94	Horz(CT)	0.05	13	n/a	n/a		
BCLL	10.0*	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.08	19-20	>999	240		
BCDL	10.0										Weight: 159 lb	FT = 10%

LUMBER

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

WEBS 2x3 SPF No.2 *Except* 21-1,11-9:2x4 SPF No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or

2-9-12 oc purlins, except end verticals.

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

bracing. WFBS

1 Row at midpt 9-13, 4-17, 2-19

13=(0-3-8 + bearing block), (req. REACTIONS (size)

0-4-2), 21=0-5-8

Max Horiz 21=-167 (LC 13)

Max Uplift 13=-291 (LC 13), 21=-192 (LC 12)

Max Grav 13=2642 (LC 3), 21=1618 (LC 3)

FORCES (lb) - Maximum Compression/Maximum

Tension TOP CHORD

1-2=-2633/321, 2-4=-2031/280, 4-5=-1330/258. 5-6=-1322/277

6-8=-1113/190, 8-9=-138/798, 9-10=0/32,

1-21=-1504/213, 9-11=-28/184

BOT CHORD 20-21=-184/400, 19-20=-380/2359, 17-19=-190/1777, 15-17=-15/948,

13-15=-629/186, 11-13=-131/335

WEBS 1-20=-196/2018, 9-13=-967/318,

5-17=-132/822, 6-17=-41/342,

6-15=-723/118, 8-15=-83/1842, 8-13=-2183/346, 4-17=-992/265,

2-20=-55/254, 2-19=-634/205, 4-19=0/654

NOTES

- 2x4 SPF No.2 bearing block 12" long at jt. 13 attached to front face with 2 rows of 10d (0.131"x3") nails spaced 3' o.c. 8 Total fasteners. Bearing is assumed to be SPF No.2.
- 2) Unbalanced roof live loads have been considered for this design.

- 3) 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
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- All bearings are assumed to be SPF No.2
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 192 lb uplift at joint 21 and 291 lb uplift at joint 13.
- 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.



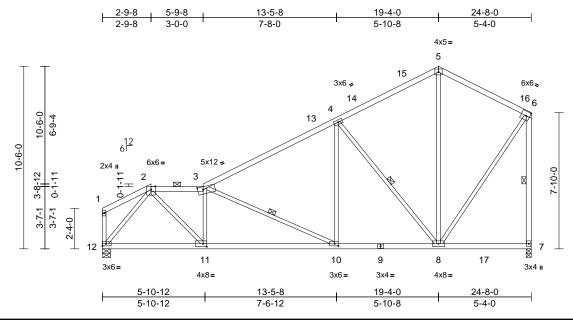
February 8,2024



Truss Type Job Truss Qty Ply Lot 17 TCR 230872 C7 Roof Special 2 Job Reference (optiona RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 163476767 LEE'S SUMMIT. MISSOURI

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.73 S Jan 4 2024 Print: 8.730 S Jan 4 2024 MiTek Industries, Inc. Tue Feb 06 12 ID:70vqNWSouyZqCt1xcNyN0ly6jcF-RfC?PsB70Hq3NSgPqnL8w3uITXbGK\VrCDoi7



Scale = 1:66.3

Plate Offsets (X, Y): [3:0-3-12,0-2-0], [10:0-2-8,0-1-8], [11:0-2-8,0-2-0]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.94	Vert(LL)	-0.17	10-11	>999	360	MT20	197/144
Snow (Pf/Pg)	20.4/20.0	Lumber DOL	1.15	BC	0.82	Vert(CT)	-0.28	10-11	>999	240		
TCDL	10.0	Rep Stress Incr	YES	WB	0.88	Horz(CT)	0.04	7	n/a	n/a		
BCLL	10.0*	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.06	10-11	>999	240		
BCDL	10.0										Weight: 114 lb	FT = 10%

LUMBER

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

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

BRACING

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

(3-11-12 max.): 2-3.

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

bracing. 6-7, 4-8, 3-10

WEBS 1 Row at midpt

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

Max Horiz 12=342 (LC 9)

Max Uplift 7=-160 (LC 12), 12=-159 (LC 12) Max Grav 7=1372 (LC 3), 12=1345 (LC 46)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-108/46, 2-3=-1882/232, 3-4=-1497/192,

4-5=-738/177, 5-6=-697/197, 6-7=-1233/196,

1-12=-137/43

BOT CHORD 11-12=-262/951, 10-11=-294/1861,

8-10=-149/1259, 7-8=-105/81 2-11=-120/1417, 3-11=-704/179, 6-8=-99/985, **WEBS**

2-12=-1430/180, 5-8=-68/408,

4-8=-1093/265, 4-10=0/671, 3-10=-699/160

NOTES

- Unbalanced roof live loads have been considered for 1) this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0

- 4) Unbalanced snow loads have been considered for this design.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom
- chord live load nonconcurrent with any other live loads. * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- All bearings are assumed to be SPF No.2
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 160 lb uplift at joint 7 and 159 lb uplift at joint 12.
- 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



February 8,2024

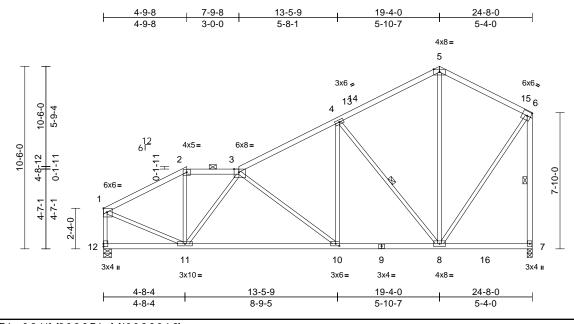


Truss Type Job Truss Qty Ply Lot 17 TCR 230872 C8 Roof Special 2 Job Reference (optiona S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 163476768 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.73 S Jan 4 2024 Print: 8.730 S Jan 4 2024 MiTek Industries, Inc. Tue Feb 06 12 ID:bDTCasSQfFhgp1c8A5UcZyy6jcE-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7



Scale = 1:66.3

Plate Offsets (X, Y): [1:Edge,0-2-11], [3:0-3-6,Edge], [10:0-2-8,0-1-8]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.57	Vert(LL)	-0.27	10-11	>999	360	MT20	197/144
Snow (Pf/Pg)	20.4/20.0	Lumber DOL	1.15	BC	0.92	Vert(CT)	-0.43	10-11	>676	240		
TCDL	10.0	Rep Stress Incr	YES	WB	0.86	Horz(CT)	0.04	7	n/a	n/a		
BCLL	10.0*	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.05	10-11	>999	240		
BCDL	10.0										Weight: 115 lb	FT = 10%

LUMBER

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

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 4-3-10 oc purlins, except end verticals, and

2-0-0 oc purlins (5-2-13 max.): 2-3.

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

bracing. WEBS

1 Row at midpt 6-7, 4-8 REACTIONS 7=0-3-8, 12=0-5-8 (size)

Max Horiz 12=342 (LC 9)

Max Uplift 7=-160 (LC 12), 12=-159 (LC 12)

Max Grav 7=1372 (LC 3), 12=1368 (LC 46)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-1440/161, 2-3=-1221/183,

3-4=-1463/197, 4-5=-748/173, 5-6=-696/197, 6-7=-1230/197, 1-12=-1305/170

BOT CHORD 11-12=-328/146, 10-11=-271/1610,

8-10=-141/1250, 7-8=-104/81 **WEBS** 2-11=0/412, 6-8=-102/987, 1-11=-97/1316,

5-8=-55/357, 4-8=-1071/246, 4-10=-7/726,

3-10=-499/170, 3-11=-670/107

NOTES

- Unbalanced roof live loads have been considered for 1) this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0

- 4) Unbalanced snow loads have been considered for this design.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- All bearings are assumed to be SPF No.2
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 159 lb uplift at joint 12 and 160 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



February 8,2024



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

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

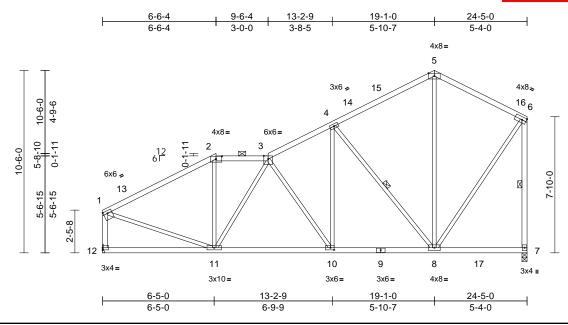


Ply Job Truss Truss Type Qty Lot 17 TCR 230872 C9 Roof Special 2 Job Reference (optiona S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 163476769 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.73 S Jan 4 2024 Print: 8.730 S Jan 4 2024 MiTek Industries, Inc. Tue Feb 06 14 ID:6UrzEu1TvVHe7eRPcELOeay6jcn-RfC?PsB70Hq3NSgPqnL8w3uITXbGkWrCDoi7



Scale = 1:66.3

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.82	Vert(LL)	-0.11	10-11	>999	360	MT20	197/144
Snow (Pf/Pg)	20.4/20.0	Lumber DOL	1.15	BC	0.67	Vert(CT)	-0.18	10-11	>999	240		
TCDL	10.0	Rep Stress Incr	YES	WB	0.79	Horz(CT)	0.03	7	n/a	n/a		
BCLL	10.0*	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.04	10-11	>999	240		
BCDL	10.0										Weight: 117 lb	FT = 10%

LUMBER

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

WEBS 2x3 SPF No.2 *Except* 7-6,12-1:2x4 SPF

BRACING TOP CHORD

Structural wood sheathing directly applied or

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

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

bracing.

WEBS 1 Row at midpt 4-8, 6-7

REACTIONS 7=0-3-8, 12= Mechanical (size)

Max Horiz 12=342 (LC 9)

Max Uplift 7=-157 (LC 12), 12=-157 (LC 12)

Max Grav 7=1359 (LC 3), 12=1361 (LC 46)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-1457/178, 2-3=-1213/210,

3-4=-1346/204, 4-5=-735/169, 5-6=-692/195,

6-7=-1223/193, 1-12=-1222/187 11-12=-326/202, 10-11=-211/1409,

8-10=-143/1184, 7-8=-105/81

WEBS 2-11=0/356, 3-11=-414/28, 4-8=-989/241,

5-8=-46/339, 6-8=-99/974, 1-11=-73/1192,

3-10=-446/138, 4-10=-36/714

NOTES

BOT CHORD

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

- 3) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0
- Unbalanced snow loads have been considered for this design.
- Provide adequate drainage to prevent water ponding.
- 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, with BCDL = 10.0psf.
- All bearings are assumed to be SPF No.2.
- Refer to girder(s) for truss to truss connections.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 157 lb uplift at joint 12 and 157 lb uplift at joint 7.
- 11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard



February 8,2024



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

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

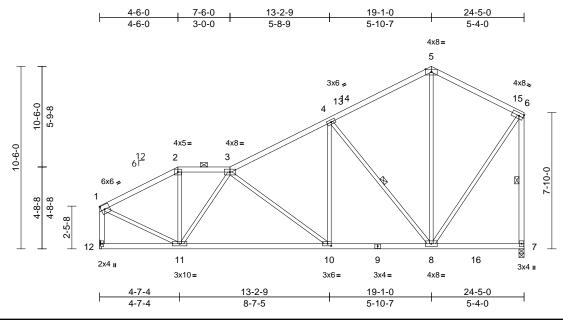


Ply Job Truss Truss Type Qty Lot 17 TCR 230872 C10 Roof Special 2 Job Reference (optiona S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 163476770 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.73 S Jan 4 2024 Print: 8.730 S Jan 4 2024 MiTek Industries, Inc. Tue Feb 06 12 ID:EicSOW_yrHnDe17eNOHSUky6jcr-RfC?PsB70Hq3NSgPqnL8w3uITXbG<mark>L</mark>WrCDoi



Scale = 1:66.3

Plate Offsets (X, Y): [10:0-2-8,0-1-8]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.57	Vert(LL)	-0.25	10-11	>999	360	MT20	197/144
Snow (Pf/Pg)	20.4/20.0	Lumber DOL	1.15	BC	0.88	Vert(CT)	-0.40	10-11	>726	240		
TCDL	10.0	Rep Stress Incr	YES	WB	0.84	Horz(CT)	0.03	7	n/a	n/a		
BCLL	10.0*	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.04	10-11	>999	240		
BCDL	10.0										Weight: 115 lb	FT = 10%

LUMBER

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

WEBS 2x3 SPF No.2 *Except* 7-6,12-1:2x4 SPF

No.2

BRACING TOP CHORD

Structural wood sheathing directly applied or

4-4-14 oc purlins, except end verticals, and 2-0-0 oc purlins (5-4-13 max.): 2-3.

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

bracing.

WEBS 1 Row at midpt 6-7, 4-8

REACTIONS 7=0-3-8, 12= Mechanical (size)

Max Horiz 12=342 (LC 11)

Max Uplift 7=-157 (LC 12), 12=-157 (LC 12)

Max Grav 7=1359 (LC 3), 12=1350 (LC 46)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-1357/154, 2-3=-1159/171

3-4=-1430/193, 4-5=-742/171, 5-6=-689/196, 6-7=-1217/194, 1-12=-1290/168

BOT CHORD 11-12=-327/149, 10-11=-258/1532,

8-10=-143/1229, 7-8=-104/81

WEBS 2-11=0/405, 6-8=-99/977, 1-11=-92/1245, 5-8=-53/351, 4-8=-1045/242, 4-10=-1/682,

3-10=-433/158, 3-11=-679/113

NOTES

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

- 3) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0
- Unbalanced snow loads have been considered for this design.
- Provide adequate drainage to prevent water ponding.
- 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, with BCDL = 10.0psf. All bearings are assumed to be SPF No.2.
- Refer to girder(s) for truss to truss connections.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 157 lb uplift at joint 12 and 157 lb uplift at joint 7.
- 11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard



February 8,2024



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

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



Job	Truss	Truss Type	Qty	Ply	Lot 17 TCR	
230872	D1	Piggyback Base	2	1	Job Reference (optional	

Wheeler Lumber, Waverly, KS - 66871,

2 | 1 | Job Reference (optional Run: 8.73 S Jan 4 2024 Print: 8.730 S Jan 4 2024 MiTek Industries, Inc. Tue Feb 06 1227 07/2924

ID:WFyq9TSMCIESMGmBo9U8iSy6jdX-RfC?PsB70Hq3NSgPqnL8w3ulTXb6KWrCDov/2027 07/2924

30-5-12

6-11-8

AS NOTED FOR PLAN REVIEW
DEVELOPMENT SERVICES
163476771

-0-10-8 6-3-15 12-4-6 18-4-0 23-5-0 30-4-8 32-4-0 37-8-0 5-11-10 6-0-7 5-1-0 6-11-8 1-11-8 5-4-0 0-10-8 6-3-15 6x6= 4x5= 2x4 II 6x6= 23 6 8 9 3x4 💋 6x6 II 3x6 = 6¹² 5 4) 122 21 1-4-0 4x8 ڃ 322 27 28 φ 10x12= 8x8= 13 မှ 3x6 II 7x12= 26 17 18 25 16 2x4 II 3x6= 4x8= 5x12= 6x12=

23-6-4

5-1-0

Scale = 1:72.4

10-0-0

Plate Offsets (X, Y): [2:Edge,0-3-8], [6:0-4-4,0-2-8], [9:0-4-0,0-2-8], [11:Edge,0-3-8], [13:Edge,0-2-8]

9-3-4

9-3-4

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.71	Vert(LL)	-0.39	16-18	>999	360	MT20	197/144
Snow (Pf/Pg)	20.4/20.0	Lumber DOL	1.15	BC	0.83	Vert(CT)	-0.58	16-18	>770	240		
TCDL	10.0	Rep Stress Incr	YES	WB	0.77	Horz(CT)	0.16	21	n/a	n/a		
BCLL	10.0*	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.07	16-18	>999	240		
BCDL	10.0										Weight: 182 lb	FT = 10%

LUMBER

TOP CHORD 2x4 SPF No.2

BOT CHORD 2x4 SPF 2100F 1.8E *Except* 15-7,13-8:2x3

SPF No.2, 14-13,12-11:2x4 SPF No.2 WEBS 2x3 SPF No.2 *Except* 11-10:2x4 SPF 2100F

1.8E, 11-9,19-3:2x4 SPF No.2, 19-2:2x6 SPF

No.2 OTHERS 2x4 SPF No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or

2-9-3 oc purlins, except end verticals, and

2-0-0 oc purlins (3-6-12 max.): 6-9.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc

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

1 Row at midpt 7-14

WEBS 1 Row at midpt 6-16, 7-12, 9-11, 3-19,

5-16

REACTIONS (size) 19=0-3-8, 21=0-3-2 Max Horiz 19=218 (LC 9)

Max Uplift 19=-22 (LC 12)

Max Grav 19=2112 (LC 3), 21=2027 (LC 3)

FORCES (Ib) - Maximum Compression/Maximum Tension

Tension
TOP CHORD 1-2=0/35, 2-3=-850/92, 3-5=-3198/49,

5-6=-2329/59, 6-7=-2221/62, 7-8=-1802/45, 8-9=-1806/43, 9-10=-290/55, 11-20=0/1799,

10-20=0/1799, 2-19=-603/94

BOT CHORD 18-19=-155/2842, 16-18=-87/2521,

15-16=-62/5, 14-15=0/72, 7-14=-307/295,

13-14=0/44, 12-13=0/207, 8-12=-486/98,

11-12=-42/1360

WEBS 6-16=-23/542, 14-16=-40/2135, 6-14=-65/549, 12-14=-76/2233,

18-5-4

9-2-0

7-12=-621/35, 9-12=-49/1627,

9-11=-1977/44, 3-19=-2538/0,

3-18=-187/134, 5-18=0/662, 5-16=-887/133,

10-21=-2083/0

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); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60

 TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0

 Unbalanced snow loads have been considered for this design.

5) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.

Provide adequate drainage to prevent water ponding.

7) 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.

 WARNING: Required bearing size at joint(s) 21 greater than input bearing size.

10) All bearings are assumed to be SPF No.2

11) Bearing at joint(s) 21 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface. 12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 22 lb uplift at joint 19.

6-10-12

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.

14) 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



February 8,2024





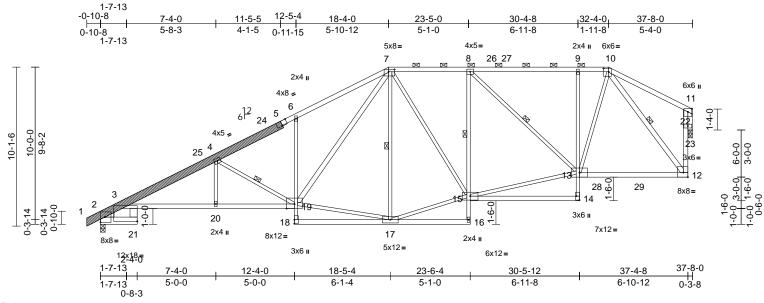
Job Truss Truss Type Qty Ply Lot 17 TCR 230872 D2 2 Piggyback Base

S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 163476772 LEE'S SUMMIT. MISSOUR Job Reference (optiona

RELEASE FOR CONSTRUCTION

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.73 S Jan 4 2024 Print: 8.730 S Jan 4 2024 MiTek Industries, Inc. Tue Feb 0614 ID:dy36VbxO3V_WxwNTp6bmcGy6mwe-RfC?PsB70Hq3NSgPqnL8w3uITXtGKWrCD



Scale = 1:73.3

Plate Offsets (X, Y): [5:0-4-0,Edge], [7:0-4-8,0-1-12], [10:0-4-0,0-2-8], [12:Edge,0-3-8], [14:Edge,0-2-8], [21:Edge,0-3-4]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.99	Vert(LL)	-0.33	14-15	>999	360	MT20	197/144
Snow (Pf/Pg)	20.4/20.0	Lumber DOL	1.15	BC	0.83	Vert(CT)	-0.53	14-15	>852	240		
TCDL	10.0	Rep Stress Incr	YES	WB	0.76	Horz(CT)	0.31	23	n/a	n/a		
BCLL	10.0*	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.12	6	>999	240		
BCDL	10.0										Weight: 239 lb	FT = 10%

LUMBER

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

2.0E

BOT CHORD 2x3 SPF No.2 *Except* 2-21:2x6 SPF No.2,

3-19:2x4 SPF 2100F 1.8E, 18-16,15-14,13-12:2x4 SPF No.2

WEBS 2x3 SPF No.2 *Except* 21-3:2x6 SPF No.2,

19-7,12-10:2x4 SPF No.2, 12-11:2x4 SPF

2100F 1.8E

OTHERS 2x4 SPF No.2

LBR SCAB 1-5 SP 2400F 2.0E one side

WEDGE Left: 2x4 SPF No.2

BRACING TOP CHORD

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

(3-7-2 max.): 7-10.

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

bracing, Except:

6-0-0 oc bracing: 2-21,16-17.

1 Row at midpt 8-15

4-19, 7-17, 8-13, 10-12 WEBS 1 Row at midpt

REACTIONS 2=0-3-8, 23=0-3-2 (size) Max Horiz 2=211 (LC 9)

Max Uplift 2=-12 (LC 12)

Max Grav 2=2115 (LC 3), 23=2013 (LC 3)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/6, 2-3=-1297/0, 3-4=-4328/58,

4-6=-3376/66, 6-7=-3335/158, 7-8=-2197/60,

8-9=-1788/44, 9-10=-1792/42 10-11=-289/55, 12-22=0/1786, 11-22=0/1786

2-21=-99/0, 3-20=-166/3967, BOT CHORD

19-20=-166/3966, 18-19=0/159

6-19=-443/131, 17-18=0/141, 16-17=-38/13, 15-16=0/113, 8-15=-303/289, 14-15=0/44, 13-14=0/208, 9-13=-487/98, 12-13=-41/1350 WEBS 3-21=0/151, 4-19=-1244/105,

17-19=-64/1859, 7-19=-156/1754, 7-17=-621/102, 15-17=-44/2072, 7-15=-61/574, 13-15=-74/2209,

8-13=-607/35. 10-13=-48/1614. 10-12=-1961/43, 4-20=0/387, 11-23=-2070/0

NOTES

- Attached 14-0-0 scab 1 to 5, front face(s) 2x6 SP 2400F 1) 2.0E with 2 row(s) of 10d (0.131"x3") nails spaced 9" o.c.except: starting at 0-2-14 from end at joint 1, nail 2 row(s) at 4" o.c. for 3-5-2.
- Unbalanced roof live loads have been considered for this design
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0
- Unbalanced snow loads have been considered for this desian.
- This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- 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.
- 10) WARNING: Required bearing size at joint(s) 23 greater than input bearing size.
- 11) All bearings are assumed to be SPF No.2.

- 12) 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.
- 13) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 12 lb uplift at joint
- 14) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 15) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard



February 8,2024





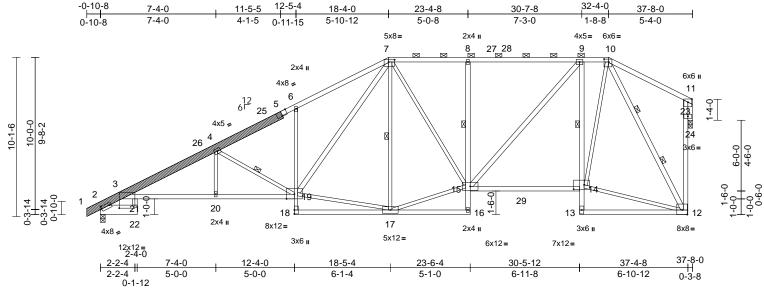
Job	Truss	Truss Type	Qty	Ply	Lot 17 TCR	
230872	D3	Piggyback Base	6	1	Job Reference (optional	

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.73 S Jan 4 2024 Print: 8.730 S Jan 4 2024 MiTek Industries, Inc. Tue Feb 06 14 ID:P0BL?rVtG_kuru3y1?Z4sly6jdT-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWCDoi7J42

LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 163476773



Scale = 1:73.3

Plate Offsets (X, Y): [2:0-1-0,0-2-0], [5:0-4-0,Edge], [7:0-4-8,0-1-12], [10:0-3-8,0-2-4], [14:0-8-0,0-3-8], [22:0-7-7,0-2-6]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.99	Vert(LL)	-0.39	14-15	>999	360	MT20	197/144
Snow (Pf/Pg)	20.4/20.0	Lumber DOL	1.15	BC	0.92	Vert(CT)	-0.61	14-15	>731	240		
TCDL	10.0	Rep Stress Incr	YES	WB	0.89	Horz(CT)	0.40	24	n/a	n/a		
BCLL	10.0*	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.13	6	>999	240		
BCDL	10.0										Weight: 260 lb	FT = 10%

LUMBER

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

2.0E

BOT CHORD 2x4 SPF No.2 *Except* 2-22:2x8 SP 2400F

2.0E, 3-19:2x4 SPF 2100F 1.8E, 6-18:2x3

SPF No.2

WEBS 2x3 SPF No.2 *Except*

22-21,19-7,15-9,12-10:2x4 SPF No.2,

12-11:2x4 SPF 2100F 1.8E

OTHERS 2x4 SPF No.2

LBR SCAB 1-5 SP 2400F 2.0E one side

BRACING

WEBS

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

(3-2-5 max.): 7-10.

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

bracing, Except:

6-0-0 oc bracing: 16-17

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

1 Row at midpt 8-15, 9-14

4-19, 7-17 1 Row at midpt

WEBS 2 Rows at 1/3 pts 10-12

REACTIONS (size) 2=0-3-8, 24=0-3-2 Max Horiz 2=248 (LC 9)

Max Uplift 2=-24 (LC 12)

Max Grav 2=2095 (LC 3), 24=2021 (LC 3)

FORCES

(lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/11, 2-3=-1339/0, 3-4=-4373/52,

4-6=-3389/61, 6-7=-3349/155, 7-8=-2221/61,

8-9=-2235/62, 9-10=-1436/32

10-11=-199/88, 12-23=-8/1868, 11-23=-8/1868

BOT CHORD 2-22=0/0, 3-21=-161/3983, 20-21=-161/3983,

19-20=-161/3983, 18-19=0/161,

6-19=-444/135, 17-18=0/149, 16-17=-39/32, 15-16=0/116, 8-15=-591/113,

14-15=-83/1456, 13-14=0/195, 9-14=-1167/136, 12-13=-2/39

WEBS 21-22=-23/335, 4-19=-1252/96 17-19=-96/1864, 7-19=-144/1754,

7-17=-620/116, 15-17=-76/2076, 7-15=-45/601, 9-15=-44/1194,

12-14=-70/1068, 10-14=-65/1814, 10-12=-2163/66, 4-20=0/434, 11-24=-2072/0

NOTES

- Attached 14-0-0 scab 1 to 5, front face(s) 2x6 SP 2400F 2.0E with 2 row(s) of 10d (0.131"x3") nails spaced 9" o.c.except: starting at 0-3-0 from end at joint 1, nail 2 row(s) at 3" o.c. for 3-5-9
- Unbalanced roof live loads have been considered for
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0
- Unbalanced snow loads have been considered for this
- This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- 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.

- 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, with BCDL = 10.0psf.
- 10) WARNING: Required bearing size at joint(s) 24 greater than input bearing size.
- 11) All bearings are assumed to be SPF No.2.
- 12) Bearing at joint(s) 24 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 13) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 24 lb uplift at joint
- 14) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 15) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard



February 8,2024



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



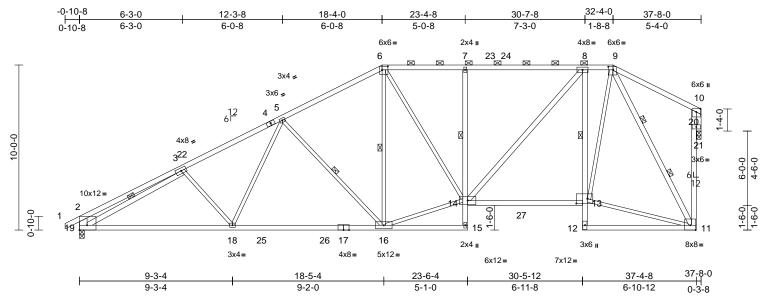
Job Truss Truss Type Qty Ply Lot 17 TCR 230872 D4 2 Piggyback Base Job Reference (optiona

S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 163476774 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.73 S Jan 4 2024 Print: 8.730 S Jan 4 2024 MiTek Industries, Inc. Tue Feb 06 14 ID:pbtTdsYlZv6TiLoXj76nUxy6jdQ-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4



Scale = 1:69.8

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.86	Vert(LL)	-0.40	16-18	>999	360	MT20	197/144
Snow (Pf/Pg)	20.4/20.0	Lumber DOL	1.15	BC	0.92	Vert(CT)	-0.59	16-18	>756	240		
TCDL	10.0	Rep Stress Incr	YES	WB	0.90	Horz(CT)	0.27	21	n/a	n/a		
BCLL	10.0*	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.08	7-14	>999	240		
BCDL	10.0										Weight: 201 lb	FT = 10%

LUMBER **BOT CHORD**

TOP CHORD 2x4 SPF No.2

2x4 SPF No.2 *Except* 19-17,17-15:2x4 SPF

2100F 1.8E

WEBS 2x3 SPF No.2 *Except* 14-8,11-9,19-3:2x4

SPF No.2, 11-10:2x4 SPF 2100F 1.8E,

19-2:2x6 SPF No.2 2x4 SPF No.2

OTHERS

BRACING

BOT CHORD

TOP CHORD

TOP CHORD Structural wood sheathing directly applied or

2-9-1 oc purlins, except end verticals, and

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

bracing. Except:

1 Row at midpt 7-14, 8-13

WEBS 1 Row at midpt 5-16, 6-16, 3-19

WEBS 2 Rows at 1/3 pts 9-11

REACTIONS 19=0-3-8, 21=0-3-2, (req. 0-3-3) (size)

Max Horiz 19=255 (LC 9)

Max Uplift 19=-24 (LC 12)

Max Grav 19=2121 (LC 3), 21=2035 (LC 3) (lb) - Maximum Compression/Maximum

FORCES Tension

1-2=0/35, 2-3=-846/87, 3-5=-3210/50,

5-6=-2346/62, 6-7=-2248/64, 7-8=-2261/64, 8-9=-1448/33, 9-10=-200/88, 11-20=-9/1882,

10-20=-9/1882, 2-19=-599/91

BOT CHORD 18-19=-151/2851, 16-18=-121/2545

15-16=-69/22, 14-15=0/75, 7-14=-593/113,

13-14=-84/1468, 12-13=0/194, 8-13=-1181/137 11-12=-2/39

WFBS 3-18=-182/133, 5-18=0/651, 5-16=-893/132,

> 6-16=-25/519, 14-16=-72/2147, 6-14=-48/570, 8-14=-46/1215, 11-13=-71/1076, 9-13=-67/1830

9-11=-2181/67, 3-19=-2552/0, 10-21=-2086/0

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

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

TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0

- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- 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.
- WARNING: Required bearing size at joint(s) 21 greater than input bearing size
- 10) All bearings are assumed to be SPF No.2.
- 11) Bearing at joint(s) 21 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 24 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.
- 14) 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



February 8,2024



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



RELEASE FOR CONSTRUCTION

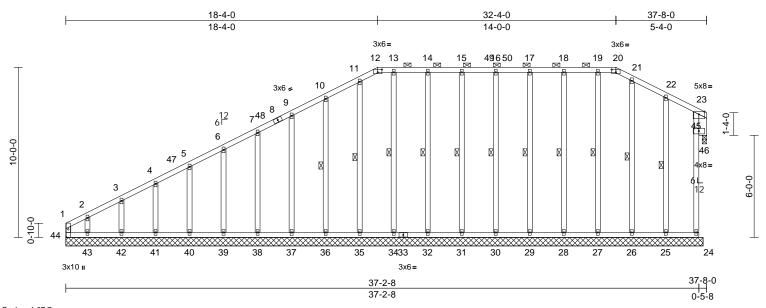
AS NOTED FOR PLAN REVIEW

DEVELOPMENT SERVICES
163476775

LEE'S SUMMIT. MISSOURI

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.73 S Jan 4 2024 Print: 8.730 S Jan 4 2024 MiTek Industries, Inc. Tue Feb 06 13 22 5 0 7 / 2 69: 24
ID:HnRrrCYNKDEKKVNjGqd008y6jdP-RfC?PsB70Hq3NSgPqnL8w3uITXbGkWrCDon 42 5 6 7 / 2 69: 24



Scale = 1:67.7

 $Plate \ Offsets \ (X, \ Y); \quad [12:0\text{-}3\text{-}0,0\text{-}2\text{-}0], \ [20:0\text{-}3\text{-}0,0\text{-}2\text{-}0], \ [44:0\text{-}5\text{-}9,0\text{-}1\text{-}8]$

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)	0.00	24-25	>999	240	MT20	197/144
Snow (Pf/Pg)	20.4/20.0	Lumber DOL	1.15	BC	0.11	Vert(CT)	0.00	24-25	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.16	Horz(CT)	-0.03	46	n/a	n/a		
BCLL	10.0*	Code	IRC2018/TPI2014	Matrix-S								
BCDL	10.0										Weight: 245 lb	FT = 10%

L	U	N	ΛE	3	E	F	2

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

OTHERS 2x4 SPF No.2 *Except* 0-0,45-23:2x6 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.): 12-20.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc

bracing.

WEBS 1 Row at midpt 10-36, 11-35, 13-34, 14-32, 15-31, 16-30, 17-29, 18-28, 19-27, 21-26, 22-25

REACTIONS (size)

24=37-5-8, 25=37-5-8, 26=37-5-8, 27=37-5-8, 28=37-5-8, 29=37-5-8, 30=37-5-8, 31=37-5-8, 32=37-5-8, 34=37-5-8, 35=37-5-8, 36=37-5-8, 37=37-5-8, 41=37-5-8, 42=37-5-8, 43=37-5-8, 44=37-5-8, 46=0-3-2

Max Horiz 44=309 (LC 9)

Max Uplift 24=-270 (LC 17), 25=-54 (LC 13), 26=-31 (LC 13), 27=-35 (LC 9), 28=-41 (LC 8), 29=-34 (LC 9), 30=-34 (LC 8), 31=-34 (LC 9), 32=-43 (LC 8), 34=-39 (LC 9), 35=-22 (LC 9), 36=-62 (LC 12), 37=-53 (LC 12), 38=-54 (LC 12), 39=-54 (LC 12), 40=-53 (LC 12),

41=-59 (LC 12), 42=-34 (LC 12), 43=-222 (LC 12), 44=-57 (LC 10), 46=-250 (LC 8) Max Grav 24=218 (LC 8), 25=229 (LC 46), 26=201 (LC 36), 27=205 (LC 35), 28=217 (LC 35), 29=215 (LC 35), 30=215 (LC 35), 31=215 (LC 35), 31=215 (LC 35), 35=211 (LC 44), 36=217 (LC 36), 37=215 (LC 36), 38=214 (LC 36), 39=217 (LC 36), 41=184 (LC 25), 42=190 (LC 3), 43=195 (LC 25), 44=282 (LC 9),

46=326 (LC 11)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-44=-192/41, 1-2=-312/80, 2-3=-250/74,

3-4=-226/74, 4-5=-197/76, 5-6=-179/81, 6-7=-164/90, 7-9=-149/104, 9-10=-134/117, 10-11=-122/133, 11-12=-95/128, 12-13=-85/125, 13-14=-85/125, 14-15=-85/125, 15-16=-85/125,

16-17=-85/125, 17-18=-85/125, 18-19=-85/125, 19-20=-85/125, 20-21=-92/126, 21-22=-105/117, 22-23=-112/96, 24-45=-186/257,

23-45=-186/257 BOT CHORD 43-44=-81/61, 4:

2 3-43-160,251 43-44-81/61, 42-43-81/61, 41-42-81/61, 40-41-81/61, 39-40-81/61, 38-39-81/61, 37-38-81/61, 36-37-81/61, 35-36-81/61, 34-35-81/61, 32-34-81/61, 31-32-81/61,

30-31=-81/61, 29-30=-81/61, 28-29=-81/61, 27-28=-81/61, 26-27=-81/61, 25-26=-81/61,

24-25=-81/61

WEBS 2-43=-122/149, 3-42=-144/71, 4-41=-139/80, 5-40=-162/78, 6-39=-177/78, 7-38=-174/78, 9-37=-175/77, 10-36=-177/86, 11-35=-164/46, 13-34=-161/63, 14-32=-177/67, 15-31=-175/58,

14-32=-177/67, 15-31=-175/58, 16-30=-175/58, 17-29=-175/58, 18-28=-177/65, 19-27=-165/60, 21-26=-161/51, 22-25=-179/99,

23-46=-350/269

NOTES

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



February 8,2024

Continued on page 2

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



Qty Job Truss Truss Type Ply Lot 17 TCR 230872 D5 Piggyback Base Supported Gable 2 Job Reference (optional

S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 163476775 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.73 S Jan 4 2024 Print: 8.730 S Jan 4 2024 MiTek Industries, Inc. Tue Feb 06 14 12-25 ID:HnRrrCYNKDEKKVNjGqd008y6jdP-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDor342324f

TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 4) Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0

Unbalanced snow loads have been considered for this design.

- Provide adequate drainage to prevent water ponding.
- All plates are 2x4 MT20 unless otherwise indicated.
- Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- Gable studs spaced at 2-0-0 oc.
- 10) 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.
- 12) All bearings are assumed to be SPF No.2.
- 13) Bearing at joint(s) 46 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 14) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 57 lb uplift at joint 44, 270 lb uplift at joint 24, 222 lb uplift at joint 43, 34 lb uplift at joint 42, 59 lb uplift at joint 41, 53 lb uplift at joint 40, 54 lb uplift at joint 39, 54 lb uplift at joint 38, 53 lb uplift at joint 37, 62 lb uplift at joint 36, 22 lb uplift at joint 35, 39 lb uplift at joint 34, 43 lb uplift at joint 32, 34 lb uplift at joint 31, 34 lb uplift at joint 30, 34 lb uplift at joint 29, 41 lb uplift at joint 28, 35 lb uplift at joint 27, 31 lb uplift at joint 26, 54 lb uplift at joint 25 and 250 lb uplift at joint 46.
- 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.
- 16) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



Job Truss Truss Type Qty Ply Lot 17 TCR 230872 E1 Piggyback Base Supported Gable 2 Job Reference (optional

S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 163476776 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.73 S Jan 4 2024 Print: 8.730 S Jan 4 2024 MiTek Industries, Inc. Tue Feb 06 14 ID:bgPLSD25gpPVko0bAytdBny6jcm-RfC?PsB70Hq3NSgPqnL8w3uITXbGkWrCDoi7

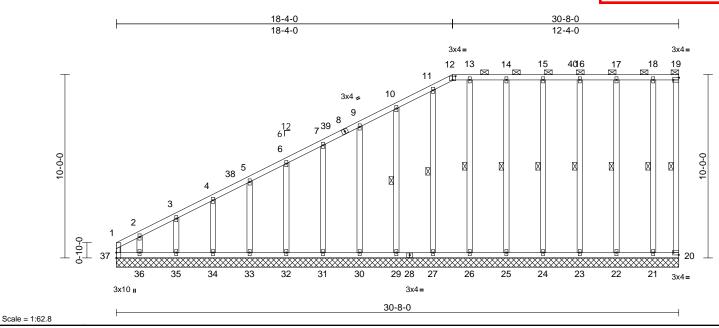


Plate Offsets (X, Y): [12:0-2-0,0-2-8], [19:Edge,0-1-8], [20:Edge,0-1-8]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.43	Vert(LL)	n/a	-	n/a	999	MT20	197/144
Snow (Pf/Pg)	20.4/20.0	Lumber DOL	1.15	BC	0.18	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.16	Horiz(TL)	-0.01	20	n/a	n/a		
BCLL	10.0*	Code	IRC2018/TPI2014	Matrix-R								
BCDL	10.0										Weight: 199 lb	FT = 10%

LUMBER

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

WEBS 2x3 SPF No.2 *Except* 19-20:2x4 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, and

2-0-0 oc purlins (6-0-0 max.): 12-19. Rigid ceiling directly applied or 10-0-0 oc

BOT CHORD bracing.

REACTIONS (size)

WEBS 19-20, 10-29, 11-27, 1 Row at midpt

13-26, 14-25, 15-24,

16-23, 17-22, 18-21

20=30-8-0, 21=30-8-0, 22=30-8-0,

23=30-8-0, 24=30-8-0, 25=30-8-0, 26=30-8-0, 27=30-8-0, 29=30-8-0,

30=30-8-0, 31=30-8-0, 32=30-8-0,

33=30-8-0, 34=30-8-0, 35=30-8-0,

36=30-8-0, 37=30-8-0

Max Horiz 37=402 (LC 11)

Max Uplift 20=-23 (LC 9), 21=-52 (LC 8),

22=-47 (LC 9), 23=-39 (LC 8),

24=-35 (LC 9), 25=-42 (LC 8),

26=-59 (LC 9), 27=-38 (LC 9), 29=-61 (LC 12), 30=-53 (LC 12),

31=-54 (LC 12), 32=-54 (LC 12),

33=-53 (LC 12), 34=-60 (LC 12),

35=-32 (LC 12), 36=-226 (LC 12),

37=-39 (LC 10)

FORCES

37=336 (LC 9) (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-37=-235/29, 1-2=-381/63, 2-3=-316/63,

3-4=-293/63, 4-5=-264/66, 5-6=-237/70, 6-7=-222/70, 7-9=-207/81, 9-10=-192/94,

Max Grav 20=49 (LC 32), 21=193 (LC 42),

22=223 (LC 32), 23=214 (LC 32),

24=215 (LC 32), 25=217 (LC 32),

26=201 (LC 32), 27=209 (LC 37),

29=217 (LC 33), 30=215 (LC 33), 31=214 (LC 33), 32=217 (LC 33),

33=202 (LC 33), 34=184 (LC 25),

35=190 (LC 3), 36=189 (LC 25),

10-11=-181/110. 11-12=-148/108.

12-13=-137/104, 13-14=-137/104,

14-15=-137/104, 15-16=-137/104, 16-17=-137/104 17-18=-137/104

18-19=-137/104, 19-20=-108/100 BOT CHORD 36-37=-139/105, 35-36=-139/105,

34-35=-139/105, 33-34=-139/105,

32-33=-139/105, 31-32=-139/105

30-31=-139/105, 29-30=-139/105, 27-29=-139/105, 26-27=-139/105,

25-26=-139/105, 24-25=-139/105, 23-24=-139/105, 22-23=-139/105,

21-22=-139/105, 20-21=-139/105

2-36=-123/153, 3-35=-144/70, 4-34=-139/80,

5-33=-162/78, 6-32=-177/78, 7-31=-174/78, 9-30=-175/77, 10-29=-177/85,

11-27=-165/62, 13-26=-161/83

14-25=-177/66, 15-24=-175/58,

16-23=-174/58, 17-22=-182/63,

18-21=-150/133

WEBS

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
- 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.
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0
- Unbalanced snow loads have been considered for this design
- Provide adequate drainage to prevent water ponding.
- 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).
- 10) Gable studs spaced at 2-0-0 oc.



February 8,2024



RELEASE FOR CONSTRUCTION Ply Qty Job Truss Truss Type Lot 17 TCR 230872 E1 Piggyback Base Supported Gable 2 Job Reference (optional

Run: 8.73 S Jan 4 2024 Print: 8.730 S Jan 4 2024 MiTek Industries, Inc. Tue Feb 06 14 2226 ID:bgPLSD25gpPVko0bAytdBny6jcm-RfC?PsB70Hq3NSgPqnL8w3uITXbGkWrCDoi7342367

Wheeler Lumber, Waverly, KS - 66871,

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

- 12) * This truss has been designed for a live load of 20.0psf on the bottom chord in 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.
- 13) All bearings are assumed to be SPF No.2
- 14) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 39 lb uplift at joint 37, 23 lb uplift at joint 20, 226 lb uplift at joint 36, 32 lb uplift at joint 35, 60 lb uplift at joint 34, 53 lb uplift at joint 33, 54 lb uplift at joint 32, 54 lb uplift at joint 31, 53 lb uplift at joint 30, 61 lb uplift at joint 29, 38 lb uplift at joint 27, 59 lb uplift at joint 26, 42 lb uplift at joint 25, 35 lb uplift at joint 24, 39 lb uplift at joint 23, 47 lb uplift at joint 22 and 52 lb uplift at joint 21.
- 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.
- 16) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard



AS NOTED FOR PLAN REVIEW

DEVELOPMENT SERVICES 163476776

LEE'S SUMMIT. MISSOURI

Ply Job Truss Truss Type Qty Lot 17 TCR 230872 E2 Piggyback Base Girder 2 Job Reference (optiona S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 163476777 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.73 S Jan 4 2024 Print: 8.730 S Jan 4 2024 MiTek Industries, Inc. Tue Feb 06 12 ID:t0K?wd8U0zHW4t2x4wVHzGy6jcf-RfC?PsB70Hq3NSgPqnL8w3uITXbGl

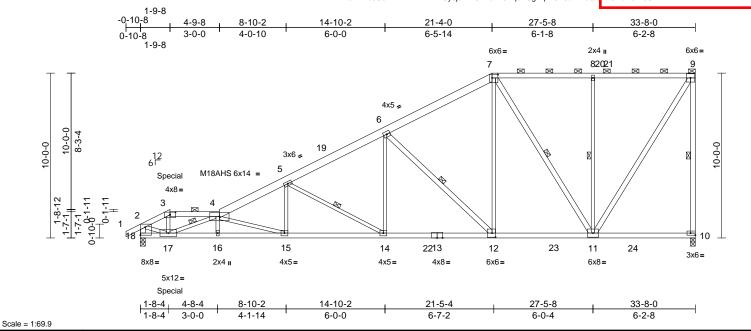


Plate Offsets (X, Y): [3:0-4-0,0-1-15], [7:0-4-4,0-2-8], [10:Edge,0-1-8], [12:0-2-8,0-3-0], [18:Edge,0-5-13]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.71	Vert(LL)	-0.30	15-16	>999	360	MT20	197/144
Snow (Pf/Pg)	20.4/20.0	Lumber DOL	1.15	BC	0.97	Vert(CT)	-0.47	14-15	>851	240	M18AHS	142/136
TCDL	10.0	Rep Stress Incr	NO	WB	0.90	Horz(CT)	0.12	10	n/a	n/a		
BCLL	10.0*	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.16	15-16	>999	240		
BCDL	10.0										Weight: 176 lb	FT = 10%

LUMBER

TOP CHORD 2x4 SPF No.2 *Except* 4-7:2x6 SPF No.2 2x4 SPF 2100F 1.8E *Except* 13-10:2x4 **BOT CHORD**

SPF No.2

WEBS 2x3 SPF No.2 *Except* 9-10:2x4 SPF 2100F

1.8E, 12-6,11-7,11-9,18-2:2x4 SPF No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or 3-4-7 oc purlins, except end verticals, and 2-0-0 oc purlins (3-8-11 max.): 3-4, 7-9. BOT CHORD Rigid ceiling directly applied or 9-1-3 oc

bracing.

WEBS 1 Row at midpt 9-10, 5-14, 6-12, 7-11, 8-11, 4-17

REACTIONS (size) 10=0-3-8, 18=0-3-8

Max Horiz 18=413 (LC 60)

Max Uplift 10=-233 (LC 9), 18=-237 (LC 12)

Max Grav 10=1901 (LC 3), 18=1911 (LC 48)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/40, 2-3=-2377/274, 3-4=-2075/257,

4-5=-4150/450, 5-6=-2884/334, 6-7=-1798/252, 7-8=-1005/181,

8-9=-1004/181, 9-10=-1736/252, 2-18=-1894/244

17-18=-385/209, 16-17=-748/5431, **BOT CHORD**

15-16=-752/5428, 14-15=-506/3684, 12-14=-297/2504, 11-12=-246/1535,

10-11=-137/103

WEBS 3-17=-94/873, 4-15=-1877/258,

5-15=-24/886, 5-14=-1352/244, 6-14=-40/1017, 6-12=-1446/302, 7-12=-131/1359, 7-11=-1066/167,

8-11=-611/217, 9-11=-226/1873 2-17=-234/2144. 4-17=-3665/383.

4-16=-42/105

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

TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0

3) Unbalanced snow loads have been considered for this design.

This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads

Provide adequate drainage to prevent water ponding.

All plates are MT20 plates unless otherwise indicated.

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

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

All bearings are assumed to be SPF No.2

10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 233 lb uplift at joint 10 and 237 lb uplift at joint 18.

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

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

13) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 121 lb down and 69 lb up at 1-9-8 on top chord, and 11 lb down and 8 lb up at 1-9-8 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

14) 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 + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (lb/ft)

Vert: 1-2=-51, 2-3=-51, 3-4=-61, 4-7=-51, 7-9=-61,

10-18=-20

Concentrated Loads (lb)

Vert: 17=1 (F)



February 8,2024

NOTES



Job Truss Truss Type Qty Ply Lot 17 TCR 230872 E3 2 Piggyback Base Job Reference (optiona RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 163476778 LEE'S SUMMIT. MISSOURI

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.73 S Jan 4 2024 Print: 8.730 S Jan 4 2024 MiTek Industries, Inc. Tue Feb 06 ID:qPSIKI9IYaYEJBCKCLXI2hy6jcd-RfC?PsB70Hq3NSgPqnL8w3uITXbGKV<mark>r</mark>CDoi7J

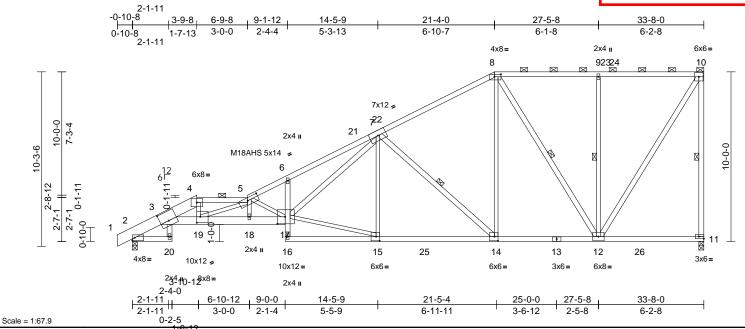


Plate Offsets (X, Y): [3:0-6-0,0-6-8], [5:0-7-12,0-2-0], [8:0-4-8,0-1-12], [11:Edge,0-1-8], [14:0-2-8,0-3-0], [15:0-2-8,0-3-0], [17:0-5-8,0-5-0], [19:0-2-8,0-4-4]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defI	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.78	Vert(LL)	-0.44	17	>906	360	MT20	197/144
Snow (Pf/Pg)	20.4/20.0	Lumber DOL	1.15	BC	0.95	Vert(CT)	-0.69	15-16	>576	240	M18AHS	142/136
TCDL	10.0	Rep Stress Incr	YES	WB	0.80	Horz(CT)	0.29	11	n/a	n/a		
BCLL	10.0*	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.25	17	>999	240		
BCDL	10.0										Weight: 190 lb	FT = 10%

LUMBER

TOP CHORD 2x4 SPF No.2 *Except* 1-4:2x8 SP 2400F

2.0E. 5-8:2x4 SPF 2100F 1.8E

2x4 SPF No.2 *Except* 3-17:2x6 SP 2400F **BOT CHORD** 2 0F

WEBS

2x3 SPF No.2 *Except* 10-11:2x4 SPF 2100F 1.8E, 20-3,6-16,17-7,14-7,12-8,12-10:2x4

SPF No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or 2-10-14 oc purlins, except end verticals, and

2-0-0 oc purlins (2-2-0 max.): 4-5, 8-10.

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

bracing, Except:

6-0-0 oc bracing: 2-20

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

10-11, 7-14, 8-12, 9-12 **WEBS** 1 Row at midpt

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

Max Horiz 2=406 (LC 9)

Max Uplift 2=-230 (LC 12), 11=-232 (LC 9) Max Grav 2=1944 (LC 48), 11=1900 (LC 3)

FORCES (lb) - Maximum Compression/Maximum

Tension TOP CHORD

1-2=0/8, 2-3=-1258/59, 3-4=-5303/717, 4-5=-5189/737, 5-6=-5608/694,

6-7=-5469/770, 7-8=-1793/249, 8-9=-1003/181, 9-10=-1003/181,

10-11=-1734/250 **BOT CHORD** 2-20=-40/0, 3-19=-836/5063,

18-19=-1023/7168, 17-18=-1015/7137, 15-16=-30/236, 14-15=-303/2519, 12-14=-243/1529. 11-12=-137/103

WEBS 3-20=0/81, 16-17=0/135, 6-17=-162/135, 4-19=-89/1369, 5-19=-2196/196,

5-17=-2561/370, 15-17=-283/2327, 7-17=-530/3217, 7-15=-226/140, 7-14=-1436/303, 8-14=-121/1324,

8-12=-1058/169, 9-12=-621/217, 10-12=-224/1871, 5-18=-386/97

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0
- Unbalanced snow loads have been considered for this
- This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads
- Provide adequate drainage to prevent water ponding. All plates are MT20 plates unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- All bearings are assumed to be SPF No.2
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 232 lb uplift at joint 11 and 230 lb uplift at joint 2.
- 11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

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



February 8,2024



Job Truss Truss Type Qty Ply Lot 17 TCR 230872 E4 2 Piggyback Base Job Reference (optiona RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 163476779 LEE'S SUMMIT. MISSOURI

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.73 S Jan 4 2024 Print: 8.730 S Jan 4 2024 MiTek Industries, Inc. Tue Feb 0612 ID:lb07YeANJug4xLnWm22_buy6jcc-RfC?PsB70Hq3NSgPqnL8w3ulTXbGK<mark>W</mark>rCDoi7

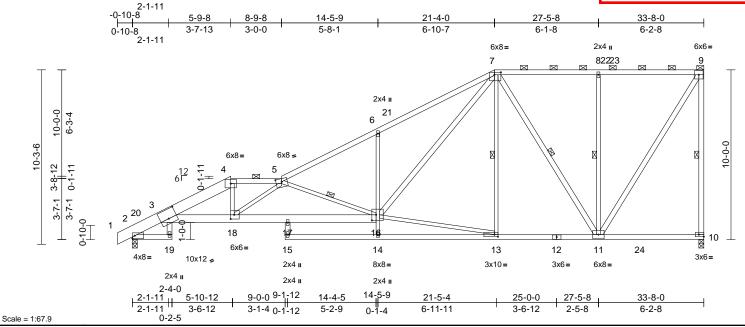


Plate Offsets (X, Y): [3:0-6-0,0-6-8], [5:0-4-0,0-2-3], [7:0-4-8,0-1-12], [10:Edge,0-1-8], [13:0-2-8,0-1-8], [16:0-3-0,0-4-0], [18:0-2-8,0-3-0]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.66	Vert(LL)	-0.36	14-15	>999	360	MT20	197/144
Snow (Pf/Pg)	20.4/20.0	Lumber DOL	1.15	BC	0.70	Vert(CT)	-0.56	14-15	>721	240		
TCDL	10.0	Rep Stress Incr	YES	WB	0.99	Horz(CT)	0.26	10	n/a	n/a		
BCLL	10.0*	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.18	14-15	>999	240		
BCDL	10.0										Weight: 202 lb	FT = 10%

LUMBER

2x4 SPF No.2 *Except* 1-4:2x8 SP 2400F TOP CHORD

2.0E, 5-7:2x4 SPF 2100F 1.8E

BOT CHORD 2x4 SPF No.2 *Except* 3-16:2x6 SP 2400F 2 0F

WEBS

2x3 SPF No.2 *Except* 9-10:2x4 SPF 2100F

1.8E, 19-3,17-15,11-7,11-9,16-7:2x4 SPF

BRACING

TOP CHORD Structural wood sheathing directly applied or 3-4-2 oc purlins, except end verticals, and

2-0-0 oc purlins (2-7-13 max.): 4-5, 7-9.

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

bracing, Except: 6-0-0 oc bracing: 2-19.

WEBS 9-10, 5-16, 7-13, 7-11, 1 Row at midpt

8-11

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

Max Horiz 2=406 (LC 11)

Max Uplift 2=-228 (LC 12), 10=-231 (LC 9)

Max Grav 2=1986 (LC 48), 10=1910 (LC 3)

FORCES

(lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/8, 2-3=-1285/55, 3-4=-4479/511, 4-5=-4209/531, 5-6=-3511/408,

6-7=-3564/579, 7-8=-1008/181,

8-9=-1008/181, 9-10=-1743/249

BOT CHORD 2-19=-40/0, 3-18=-596/4144,

17-18=-743/5200, 16-17=-743/5200, 14-15=0/0, 13-14=0/63, 11-13=-243/1542,

10-11=-137/103

WEBS 3-19=0/81, 15-17=0/117, 4-18=-38/1260,

5-18=-1267/185, 5-16=-2280/407, 14-16=0/415. 6-16=-627/287. 13-16=-251/1495, 7-13=-45/264 7-11=-1064/170, 8-11=-620/217

9-11=-223/1881, 7-16=-465/2563

LOAD CASE(S) Standard

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0
- Unbalanced snow loads have been considered for this
- This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom
- This truss has been designed for a live load of 20.0psf on the bottom chord in 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.

chord live load nonconcurrent with any other live loads

- All bearings are assumed to be SPF No.2.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 231 lb uplift at joint 10 and 228 lb uplift at joint 2.
- 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.



February 8,2024



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

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



Job Truss Truss Type Qty Ply Lot 17 TCR 230872 E5 2 Piggyback Base Job Reference (optiona RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 163476780 LEE'S SUMMIT. MISSOURI

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.73 S Jan 4 2024 Print: 8.730 S Jan 4 2024 MiTek Industries, Inc. Tue Feb 06 12 ID:E_7uzKBdrVwoBewvtT4SgJy6jca-RfC?PsB70Hq3NSgPqnL8w3uITXbGK\vrCDoi7

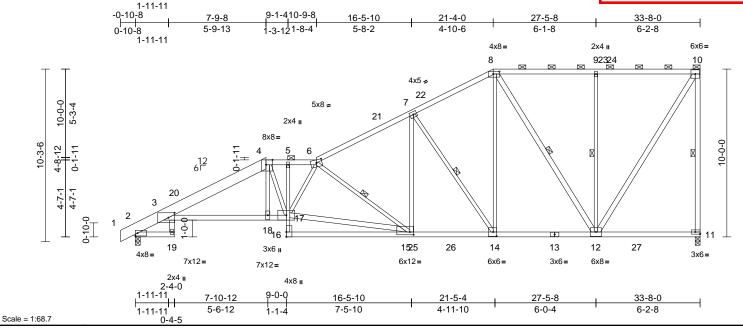


Plate Offsets (X, Y): [3:0-4-5,0-3-8], [4:0-4-10,Edge], [6:0-4-0,0-2-3], [8:0-4-8,0-1-12], [11:Edge,0-1-8], [14:0-2-8,0-3-0], [15:0-2-11,0-2-0]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.66	Vert(LL)	-0.37	15-16	>999	360	MT20	197/144
Snow (Pf/Pg)	20.4/20.0	Lumber DOL	1.15	BC	0.90	Vert(CT)	-0.60	15-16	>670	240		
TCDL	10.0	Rep Stress Incr	YES	WB	0.91	Horz(CT)	0.29	11	n/a	n/a		
BCLL	10.0*	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.18	16	>999	240		
BCDL	10.0										Weight: 190 lb	FT = 10%

LUMBER

TOP CHORD 2x4 SPF No.2 *Except* 1-4:2x8 SP 2400F

2.0E

BOT CHORD 2x4 SPF No.2 *Except* 3-17:2x4 SPF 2100F 1.8E. 5-16:2x3 SPF No.2

WFBS 2x3 SPF No.2 *Except* 10-11:2x4 SPF 2100F

1.8E, 19-3,15-17,12-8,12-10:2x4 SPF No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or 3-0-1 oc purlins, except end verticals, and

2-0-0 oc purlins (2-7-5 max.): 4-6, 8-10.

BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:

6-0-0 oc bracing: 2-19.

WEBS 10-11, 6-15, 7-14, 8-12, 1 Row at midpt

9-12

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

Max Horiz 2=406 (LC 11)

Max Uplift 2=-228 (LC 12), 11=-231 (LC 9)

Max Grav 2=1959 (LC 48), 11=1901 (LC 3)

FORCES

TOP CHORD

(lb) - Maximum Compression/Maximum

Tension

1-2=0/8, 2-3=-1268/52, 3-4=-3758/442,

4-5=-3589/477, 5-6=-3577/476, 6-7=-2568/311, 7-8=-1756/266,

8-9=-1005/181, 9-10=-1005/181,

10-11=-1737/248

BOT CHORD 2-19=-40/0, 3-18=-503/3455

17-18=-500/3469, 16-17=0/198, 5-17=-47/243, 15-16=-10/371,

14-15=-277/2183, 12-14=-243/1520,

11-12=-137/103

WEBS

3-19=0/81, 4-18=0/559, 4-17=-83/342, 15-17=-508/3299, 6-17=-218/48,

6-15=-1816/360, 7-15=-72/1032,

7-14=-1269/276, 8-14=-165/1354,

8-12=-1015/167, 9-12=-624/220, 10-12=-223/1877

NOTES

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

TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0

Unbalanced snow loads have been considered for this

This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.

Provide adequate drainage to prevent water ponding.

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

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

All bearings are assumed to be SPF No.2.

Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 231 lb uplift at joint 11 and 228 lb uplift at joint 2.

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



February 8,2024

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



Truss Type Job Truss Qty Ply Lot 17 TCR 230872 E6 2 Piggyback Base Job Reference (optiona S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 163476781 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.73 S Jan 4 2024 Print: 8.730 S Jan 4 2024 MiTek Industries, Inc. Tue Feb 06 12 ID:iAhGAgCFcp2fooV5RAbhCXy6jcZ-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7

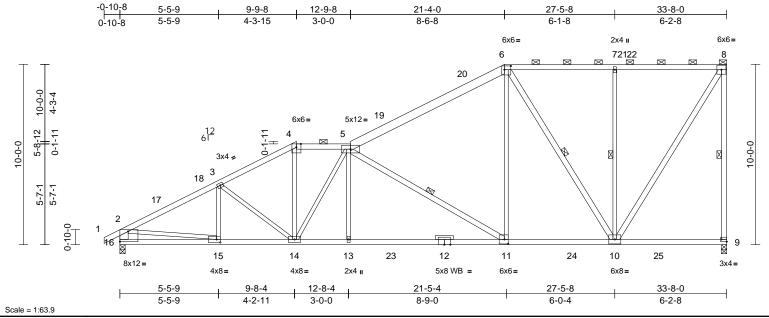


Plate Offsets (X, Y): [6:0-4-4,0-2-8], [9:Edge,0-1-8], [11:0-2-8,0-3-0], [15:0-2-8,0-2-0], [16:Edge,0-6-13]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.78	Vert(LL)	-0.32	11-13	>999	360	MT20	197/144
Snow (Pf/Pg)	20.4/20.0	Lumber DOL	1.15	BC	0.64	Vert(CT)	-0.51	11-13	>784	240		
TCDL	10.0	Rep Stress Incr	YES	WB	0.81	Horz(CT)	0.07	9	n/a	n/a		
BCLL	10.0*	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.10	11-13	>999	240		
BCDL	10.0										Weight: 175 lb	FT = 10%

LUMBER

TOP CHORD 2x4 SPF No.2 *Except* 5-6:2x6 SPF No.2

BOT CHORD 2x4 SPF 2100F 1.8E

WEBS 2x3 SPF No.2 *Except* 8-9:2x4 SPF 2100F

1.8E, 10-6,10-8,5-11:2x4 SPF No.2, 16-2:2x6 SPF No.2

OTHERS 2x3 SPF No.2

BRACING

BOT CHORD

TOP CHORD Structural wood sheathing directly applied or 2-11-9 oc purlins, except end verticals, and

2-0-0 oc purlins (3-7-13 max.): 4-5, 6-8. Rigid ceiling directly applied or 10-0-0 oc

bracing.

WEBS 1 Row at midpt 8-9, 6-10, 7-10, 5-11

REACTIONS 9=0-3-8 16=0-3-8 (size) Max Horiz 16=413 (LC 9)

Max Uplift 9=-231 (LC 9), 16=-237 (LC 12)

Max Grav 9=1892 (LC 3), 16=1942 (LC 48)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/43, 2-3=-2920/340, 3-4=-2680/353,

4-5=-2342/342, 5-6=-1821/227,

6-7=-996/181, 7-8=-994/181, 8-9=-1722/249,

2-16=-1798/264

15-16=-405/590, 14-15=-414/2526,

13-14=-344/2796, 11-13=-346/2788, 10-11=-242/1539, 9-10=-138/104

WEBS 3-14=-306/109, 4-14=-86/1001,

5-14=-904/36, 5-13=0/495, 6-11=-68/1220,

6-10=-1060/169. 7-10=-606/213.

8-10=-222/1855, 2-15=-136/2024

5-11=-1504/315, 3-15=-123/112

NOTES

BOT CHORD

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0
- 3) Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- All bearings are assumed to be SPF No.2.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 231 lb uplift at joint 9 and 237 lb uplift at joint 16.
- 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



February 8,2024



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

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



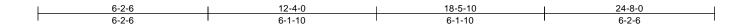
Truss Type Job Truss Qty Ply Lot 17 TCR 230872 G1 Flat 3 Job Reference (optiona

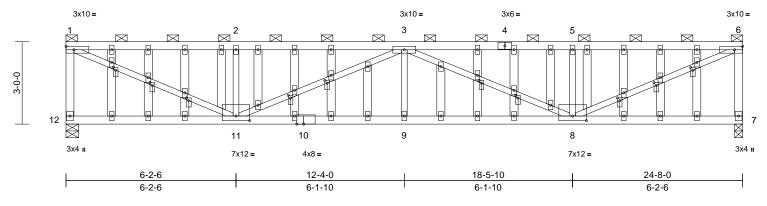
DEVELOPMENT SERVICES 163476782 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.73 S Jan 4 2024 Print: 8.730 S Jan 4 2024 MiTek Industries, Inc. Tue Feb 06 14 ID:S4f0E_H1fqNGlezcFKhqOwznrFY-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7





Scale = 1:42

[8:0-6-0,0-2-0], [10:0-3-0,Edge], [11:0-6-0,0-2-0], [15:0-1-3,0-1-0], [18:0-1-3,0-1-0], [25:0-1-4,0-1-0], [28:0-1-4,0-1-0], [31:0-1-4,0-1-0], [38:0-1-3,0-1-0], [41:0-1-3,0-Plate Offsets (X, Y): [48:0-1-4,0-1-0], [51:0-1-4,0-1-0], [54:0-1-4,0-1-0]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.52	Vert(LL)	-0.18	9-11	>999	360	MT20	197/144
Snow (Pf/Pg)	20.4/20.0	Lumber DOL	1.15	BC	0.77	Vert(CT)	-0.33	9-11	>886	240		
TCDL	10.0	Rep Stress Incr	YES	WB	0.76	Horz(CT)	0.05	7	n/a	n/a		
BCLL	10.0*	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.14	9	>999	240		
BCDL	10.0										Weight: 129 lb	FT = 10%

LUMBER

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

2x3 SPF No.2 *Except* 12-1,6-7:2x4 SPF WEBS

No.2 **OTHERS** 2x4 SPF No.2

BRACING

TOP CHORD 2-0-0 oc purlins (3-7-5 max.): 1-6, except

end verticals.

BOT CHORD Rigid ceiling directly applied or 8-1-7 oc

bracing.

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

Max Horiz 12=-103 (LC 8)

Max Uplift 7=-211 (LC 7), 12=-211 (LC 6) Max Grav 7=1127 (LC 3), 12=1127 (LC 3)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-12=-1036/239, 1-2=-1998/379,

2-3=-1998/379, 3-5=-1998/379, 5-6=-1998/379, 6-7=-1036/239

BOT CHORD 11-12=-84/90. 9-11=-525/2623.

8-9=-525/2623, 7-8=-33/54 WEBS 6-8=-401/2129, 2-11=-455/190.

1-11=-400/2129, 3-11=-684/140, 3-9=0/237,

3-8=-684/139, 5-8=-455/190

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.

- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0
- Provide adequate drainage to prevent water ponding.
- All plates are 2x4 MT20 unless otherwise indicated.
- Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- Gable studs spaced at 1-4-0 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, with BCDL = 10.0psf.
- 10) All bearings are assumed to be SPF No.2
- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 211 lb uplift at joint 12 and 211 lb uplift at joint 7.
- 12) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 13) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard



February 8,2024



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



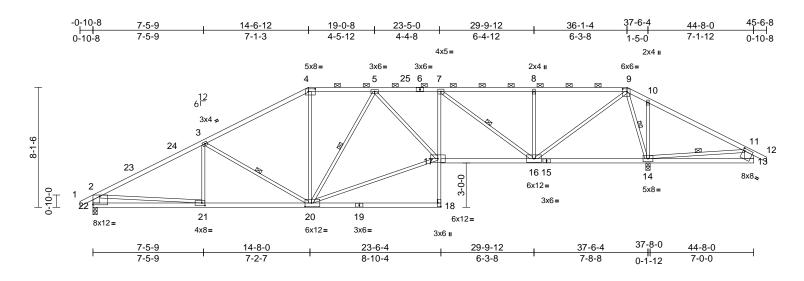
Job	Truss	Truss Type	Qty	Ply	Lot 17 TCR
230872	H1	Piggyback Base	1	1	Job Reference (optiona

S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 163476783 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.73 S Jan 4 2024 Print: 8.730 S Jan 4 2024 MiTek Industries, Inc. Tue Feb 06 14 ID:MUQohnLnnUZyEeQP8ipVi3y6jcN-RfC?PsB70Hq3NSgPqnL8w3ulTXbGkWrCDoi7y4z3v



Scale = 1:77.9

Plate Offsets (X, Y): [4:0-5-8,0-2-4], [9:0-3-8,0-2-4], [13:0-1-4,0-2-0], [18:Edge,0-2-8], [20:0-5-4,0-3-0], [21:0-2-8,0-2-0], [22:Edge,0-6-13]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.88	Vert(LL)	-0.34	18-20	>999	360	MT20	197/144
Snow (Pf/Pg)	20.4/20.0	Lumber DOL	1.15	BC	0.96	Vert(CT)	-0.65	18-20	>686	240		
TCDL	10.0	Rep Stress Incr	YES	WB	0.94	Horz(CT)	0.14	14	n/a	n/a		
BCLL	10.0*	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.16	18	>999	240		
BCDL	10.0										Weight: 185 lb	FT = 10%

LUMBER

TOP CHORD 2x4 SPF No 2

BOT CHORD 2x4 SPF No.2 *Except* 18-7:2x3 SPF No.2 **WEBS** 2x3 SPF No.2 *Except* 22-2:2x6 SPF No.2,

13-11:2x8 SP 2400F 2.0E

BRACING

TOP CHORD Structural wood sheathing directly applied,

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

(3-1-0 max.): 4-9.

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

bracing.

WEBS 1 Row at midpt 3-20, 5-20, 11-14, 9-14,

7-16

REACTIONS (size) 14=0-3-8, (req. 0-3-15), 22=0-3-8

Max Horiz 22=184 (LC 12)

Max Uplift 14=-318 (LC 9), 22=-197 (LC 12)

Max Grav 14=2496 (LC 3), 22=1749 (LC 54) (lb) - Maximum Compression/Maximum

FORCES Tension

TOP CHORD 1-2=0/35, 2-3=-2748/275, 3-4=-2234/285,

4-5=-1920/280, 5-7=-3026/478,

7-8=-2130/332, 8-9=-2130/332,

9-10=-57/701, 10-11=-145/908, 11-12=0/46,

2-22=-1647/238, 11-13=-30/114

BOT CHORD 21-22=-326/640, 20-21=-331/2372, 18-20=0/39, 17-18=0/153, 7-17=0/508,

16-17=-424/3040, 14-16=-336/342,

13-14=-137/349

WEBS 3-21=-23/176, 3-20=-709/236, 4-20=-17/660,

5-20=-1254/250, 17-20=-367/2488,

5-17=-121/971, 9-16=-344/2400,

2-21=-78/1760. 11-14=-1045/333. 9-14=-1905/338 10-14=-572/242

8-16=-610/202, 7-16=-1245/184

NOTES

 Unbalanced roof live loads have been considered for this design.

- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- 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.
- WARNING: Required bearing size at joint(s) 14 greater than input bearing size.
- 10) All bearings are assumed to be SPF No.2
- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 197 lb uplift at joint 22 and 318 lb uplift at joint 14.
- 12) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 13) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard



February 8,2024





Job	Truss	Truss Type	Qty	Ply	Lot 17 TCR
230872	H2	Piggyback Base	2	1	Job Reference (optional

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 163476784 LEE'S SUMMIT. MISSOURI

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.73 E Jan 4 2024 Print: 8.730 E Jan 4 2024 MiTek Industries, Inc. Wed Feb 0 1 1 12 1 ID:EAYcGuaerqU1ZpX6OFgU6Zy6jdN-HBeWYBeNB6dGpomuft9DLa_wVLXm62hq4rxxW

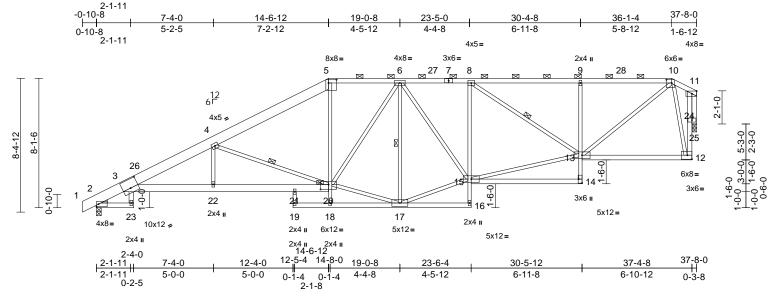


Plate Offsets (X, Y): [3:0-6-0,0-6-8], [5:0-6-0,0-2-8], [10:0-4-0,0-2-8], [14:Edge,0-2-8], [20:0-6-0,0-3-12]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.87	Vert(LL)	-0.26	14-15	>999	360	MT20	197/144
Snow (Pf/Pg)	20.4/20.0	Lumber DOL	1.15	BC	0.94	Vert(CT)	-0.49	14-15	>912	240		
TCDL	10.0	Rep Stress Incr	YES	WB	0.98	Horz(CT)	0.28	25	n/a	n/a		
BCLL	10.0*	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.17	20	>999	240		
BCDL	10.0										Weight: 216 lb	FT = 10%

LUMBER

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

2.0E

BOT CHORD 2x4 SPF No.2 *Except* 3-20:2x6 SPF No.2,

16-8.14-9:2x3 SPF No.2

WEBS 2x3 SPF No.2 *Except* 23-3,12-11:2x4 SPF

No.2

OTHERS 2x4 SPF No.2 WEDGE Left: 2x3 SPF No.2

BRACING

TOP CHORD

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

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

BOT CHORD bracing. WEBS 1 Row at midpt 4-20, 8-13, 6-17

JOINTS 1 Brace at Jt(s): 20

REACTIONS (lb/size) 2=1459/0-3-8, 25=1447/0-3-2

Max Horiz 2=265 (LC 12)

Max Uplift 2=-180 (LC 12), 25=-256 (LC 9)

Max Grav 2=1810 (LC 3), 25=1773 (LC 42)

FORCES (lb) - Maximum Compression/Maximum

Tension

1-2=0/6, 2-3=-1055/0, 3-26=-3917/384,

4-26=-3886/412, 4-5=-2727/346, 5-6=-2325/334, 6-27=-2502/387, 7-27=-2502/387, 7-8=-2502/387,

8-9=-2235/358, 9-28=-2243/356, 10-28=-2243/356, 10-11=-162/25 12-25=-294/1742. 11-25=-294/1742

BOT CHORD 2-23=-30/0 3-22=-554/3602

> 21-22=-553/3605, 20-21=-553/3605 18-19=0/0, 17-18=0/30, 16-17=-22/26

15-16=0/75, 8-15=-342/168, 14-15=-9/70 13-14=0/141, 9-13=-612/202, 12-13=-115/532 **WEBS**

3-23=0/60, 19-21=0/14, 4-20=-1466/367, 18-20=0/163, 5-20=-43/864, 13-15=-416/2497, 8-13=-395/67 10-13=-351/2239, 10-12=-1701/340, 4-22=0/324. 6-17=-1081/250. 17-20=-354/2121, 15-17=-339/2200, 6-15=-128/748, 6-20=-139/550,

NOTES

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

11-25=-1792/259

- 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
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- All bearings are assumed to be SPF No.2 crushing capacity of 425 psi.

- 10) Bearing at joint(s) 25 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 180 lb uplift at joint 2 and 256 lb uplift at joint 25.
- 12) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 13) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard



February 8,2024





 Job
 Truss
 Truss Type
 Qty
 Ply
 Lot 17 TCR

 230872
 H3
 Hip
 1
 1
 Job Reference (optional)

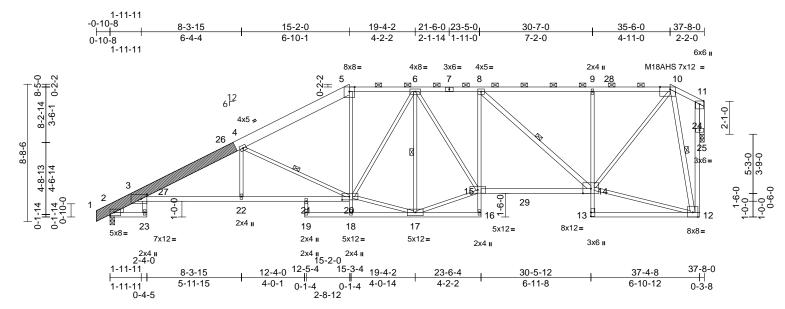
AS NOTED FOR PLAN REVIEW
DEVELOPMENT SERVICES
163476785
LEE'S SUMMIT, MISSOURI

RELEASE FOR CONSTRUCTION

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.73 S Jan 4 2024 Print: 8.730 S Jan 4 2024 MiTek Industries, Inc. Tu Feb 060 53/23/07/2924

ID:eIEkuwcW8ltcQGFh3ODBjCy6jdK-RfC?PsB70Hq3NSgPqnL8w3uITXbGK VrCDoi7.23/107/2924



Scale = 1:73

Plate Offsets (X, Y): [3:0-4-5,0-3-8], [10:0-7-12, Edge], [20:0-5-8,0-2-8]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.97	Vert(LL)	-0.36	14-15	>999	360	MT20	197/144
Snow (Pf/Pg)	20.4/20.0	Lumber DOL	1.15	BC	0.70	Vert(CT)	-0.57	14-15	>785	240	M18AHS	142/136
TCDL	10.0	Rep Stress Incr	YES	WB	0.90	Horz(CT)	0.35	25	n/a	n/a		
BCLL	10.0*	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.15	20	>999	240		
BCDL	10.0										Weight: 255 lb	FT = 10%

LUMBER

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

2.0E

BOT CHORD 2x4 SPF No.2 *Except* 3-20,15-14:2x4 SPF 2100F 1.8E, 16-8,9-13:2x3 SPF No.2

WEBS 2x3 SPF No.2 *Except*

23-3,14-8,12-10,12-11:2x4 SPF No.2 2x4 SPF No.2

OTHERS 2x4 SPF No.2 LBR SCAB 1-4 SP 2400F 2.0E one side

WEDGE Left: 2x4 SPF No.2

BRACING

BOT CHORD

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (3-0-12 max.): 5-10.

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

bracing.

WEBS 1 Row at midpt 4-20, 8-14, 10-12, 6-17

REACTIONS (size) 2=0-3-8, 25=0-3-2, (req. 0-3-3) Max Horiz 2=281 (LC 9)

Max Uplift 2=-188 (LC 12), 25=-247 (LC 9) Max Grav 2=2140 (LC 3), 25=2044 (LC 42)

FORCES (lb) - Maxim

(lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/6, 2-3=-1265/22, 3-4=-4250/353,

4-5=-3131/330, 5-6=-2705/317, 6-8=-2901/373, 8-9=-1931/248, 9-10=-1927/252, 10-11=-212/85,

12-24=-300/2009, 11-24=-301/2003

BOT CHORD 2-23=-35/0, 3-22=-514/3909,

21-22=-512/3909, 20-21=-512/3909,

18-19=0/0, 17-18=0/44, 16-17=-39/23, 15-16=0/105, 8-15=0/645, 14-15=-455/2914, 13-14=0/185, 9-14=-643/204, 12-13=-7/13

WEBS

3-23=0/72, 19-21=0/35, 4-20=-1441/312, 18-20=0/273, 5-20=-44/1061, 6-15=-150/879, 8-14=-1359/170, 12-14=-135/526, 10-14=-326/2347, 10-12=-1988/367, 4-22=0/426, 6-17=-1273/270, 15-17=-375/2622, 17-20=-387/2473,

NOTES

 Attached 10-0-0 scab 1 to 4, front face(s) 2x8 SP 2400F 2.0E with 2 row(s) of 10d (0.131"x3") nails spaced 9" o.c.except: starting at 0-3-13 from end at joint 1, nail 2 row(s) at 7" o.c. for 3-9-2.

6-20=-116/638, 11-25=-2064/247

- 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
- 4) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0
- Unbalanced snow loads have been considered for this design.
- 6) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- Provide adequate drainage to prevent water ponding.
- 8) 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
- 10) * This truss has been designed for a live load of 20.0psf on the bottom chord in 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.
- WARNING: Required bearing size at joint(s) 25 greater than input bearing size.

- 12) All bearings are assumed to be SPF No.2 .
- 13) Bearing at joint(s) 25 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 14) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 188 lb uplift at joint 2 and 247 lb uplift at joint 25.
- 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.
- 16) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard



February 8,2024





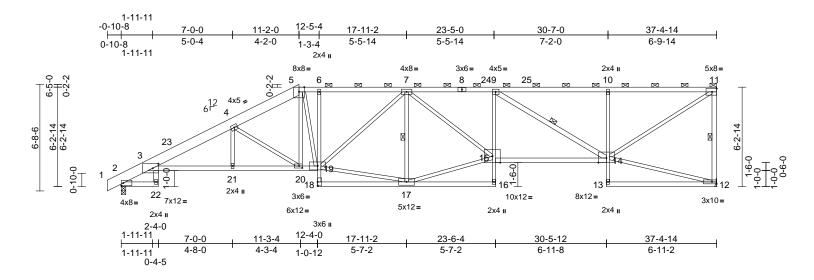
Job	Truss	Truss Type	Qty	Ply	Lot 17 TCR
230872	H4	Half Hip	1	1	Job Reference (optiona

S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 163476786 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.73 S Jan 4 2024 Print: 8.730 S Jan 4 2024 MiTek Industries, Inc. Tue Feb 06 14 ID:WWTFkHf1C_N2vuZSIDI7u2y6jdG-RfC?PsB70Hq3NSgPqnL8w3ulTXbGl(WrCDoi7y42se



Scale = 1:72.4

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	0.95	Vert(LL)	-0.33	14-15	>999	360	MT20	197/144
Snow (Pf/Pg)	20.4/20.0	Lumber DOL	1.15	BC	0.61	Vert(CT)	-0.60	14-15	>739	240		
TCDL	10.0	Rep Stress Incr	YES	WB	0.99	Horz(CT)	0.38	12	n/a	n/a		
BCLL	10.0*	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.23	16	>999	240		
BCDL	10.0										Weight: 196 lb	FT = 10%

LUMBER

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

2.0E

2x4 SPF 2100F 1.8E *Except* **BOT CHORD** 2-22.18-16:2x4 SPF No.2.

6-18,16-9,10-13:2x3 SPF No.2

2x3 SPF No.2 *Except* 11-12,22-3,14-9:2x4

SPF No.2

BRACING

WEBS

TOP CHORD Structural wood sheathing directly applied or

4-7-10 oc purlins, except end verticals, and

2-0-0 oc purlins (2-2-0 max.): 5-11. **BOT CHORD** Rigid ceiling directly applied or 6-0-0 oc

bracing.

WEBS 1 Row at midpt 11-12, 7-17, 9-14

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

Max Horiz 2=249 (LC 11)

Max Uplift 2=-157 (LC 12), 12=-305 (LC 9) Max Grav 2=1797 (LC 3), 12=1843 (LC 35)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD

1-2=0/8, 2-3=-1085/93, 3-4=-3808/469,

4-5=-3102/455, 5-6=-2843/450, 6-7=-2841/451, 7-9=-3654/595

9-10=-2326/372, 10-11=-2313/373,

11-12=-1770/353

BOT CHORD 2-22=-29/0, 3-21=-631/3539

20-21=-629/3538, 19-20=-513/2705, 18-19=0/99, 6-19=-370/130, 17-18=-27/231, 16-17=-19/48, 15-16=0/94, 9-15=0/484,

14-15=-697/3676, 13-14=0/133, 10-14=-659/226, 12-13=-5/17

WEBS

3-22=0/60, 7-19=-82/323, 7-17=-1175/324,

15-17=-522/2880, 7-15=-223/1096, 9-14=-1588/270, 12-14=-89/68, 11-14=-499/2748, 5-19=-194/756,

17-19=-500/2605, 4-21=0/180,

4-20=-1059/229, 5-20=-84/794

NOTES

- Unbalanced roof live loads have been considered for 1) this design
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- All bearings are assumed to be SPF No.2
- 10) Refer to girder(s) for truss to truss connections.
- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 305 lb uplift at joint 12 and 157 lb uplift at joint 2.
- 12) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

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

LOAD CASE(S) Standard



February 8,2024





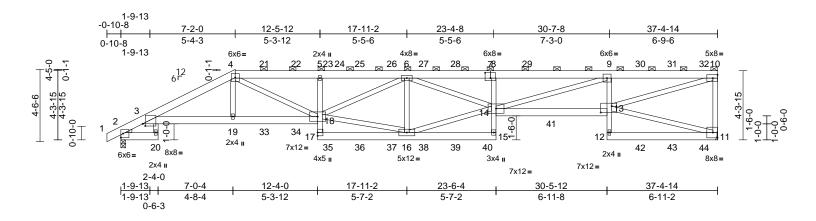
Job	Truss	Truss Type	Qty	Ply	Lot 17 TCR
230872	H5	Half Hip Girder	1	2	Job Reference (optional)

S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 163476787 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.73 E Jan 4 2024 Print: 8.730 E Jan 4 2024 MiTek Industries, Inc. Wed Feb 0 ID:psOvCglQY7F2EyboCCwmgWy6jd9-TaK6Qm_xbj9IA6vHIlfnUU8nad6kgnByWCjpVzzn My



Scale = 1:72.2

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	0.54	Vert(LL)	-0.34	15	>999	360	MT20	197/144
Snow (Pf/Pg)	20.4/20.0	Lumber DOL	1.15	BC	0.85	Vert(CT)	-0.60	15	>741	240		
TCDL	10.0	Rep Stress Incr	NO	WB	0.69	Horz(CT)	0.32	11	n/a	n/a		
BCLL	10.0*	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.43	15	>999	240		
BCDL	10.0										Weight: 444 lb	FT = 10%

2-20=-157/45, 3-19=-2244/5129,

LU	MB	ER	

TOP CHORD 2x6 SPF No.2 *Except* 1-4:2x6 SP 2400F

2.0E

BOT CHORD 2x6 SPF No.2 *Except* 5-17,15-8,9-12:2x4

SPF No 2 WFBS 2x4 SPF No.2 WEDGE Left: 2x3 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 (5-3-13 max.): 4-10.

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

bracing, Except: 6-0-0 oc bracing: 2-20 9-11-10 oc bracing: 13-14.

REACTIONS (lb/size) 2=1863/0-3-8, 11=1759/

Mechanical Max Horiz 2=162 (LC 9)

Max Uplift 2=-839 (LC 9), 11=-930 (LC 9)

Max Grav 2=2436 (LC 29), 11=2380 (LC 43)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/8, 2-3=-1595/553, 3-4=-5727/2341,

4-21=-6902/2871, 21-22=-6903/2872, 5-22=-6905/2872, 5-23=-6823/2836, 23-24=-6823/2836, 24-25=-6823/2836, 25-26=-6823/2836, 6-26=-6823/2836, 6-27=-8295/3362, 27-28=-8295/3362, 7-28=-8295/3362, 7-8=-8295/3362,

8-29=-8437/3411, 9-29=-8437/3411, 9-30=-6007/2401, 30-31=-6007/2401 31-32=-6007/2401, 10-32=-6007/2401,

10-11=-2181/937

BOT CHORD

19-33=-2234/5091, 33-34=-2234/5091, 18-34=-2234/5091, 17-18=-25/180, 5-18=-482/335, 17-35=-311/733, 35-36=-311/733. 36-37=-311/733.

16-37=-311/733, 16-38=-148/370, 38-39=-148/370, 39-40=-148/370, 15-40=-148/370. 14-15=-23/171. 8-14=-392/212, 14-41=-2531/6212, 13-41=-2534/6221, 12-13=0/155,

9-13=-1298/638, 12-42=-44/159, 42-43=-44/159, 43-44=-44/159,

11-44=-44/159 WEBS

3-20=-68/237, 4-19=-207/770, 4-18=-866/2104, 16-18=-2097/5071, 6-18=-596/1219, 6-16=-2201/1060,

14-16=-2308/5555, 6-14=-1148/2783, 9-14=-994/2480, 11-13=-149/67,

10-13=-2533/6234

NOTES

1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows: Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc, 2x4 - 1 row at 0-9-0 oc. Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc, 2x4 - 1 row at 0-9-0 oc. Web connected as follows: 2x4 - 1 row at 0-9-0 oc.

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

Unbalanced roof live loads have been considered for this design.

- 4) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- Unbalanced snow loads have been considered for this
- This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- 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.



February 8,2024



Ply Qty Job Truss Truss Type Lot 17 TCR 2 230872 H5 Half Hip Girder Job Reference (optional

Wheeler Lumber, Waverly, KS - 66871,

LEE'S SUMMIT. MISSOURI Run: 8.73 E Jan 4 2024 Print: 8.730 E Jan 4 2024 MiTek Industries, Inc. Wed Feb 0 ID:psOvCglQY7F2EyboCCwmgWy6jd9-TaK6Qm_xbj9IA6vHllfnUU8nad6kgn

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW

DEVELOPMENT SERVICES 163476787

10) * This truss has been designed for a live load of 20.0psf on the bottom chord in 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.

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

12) Refer to girder(s) for truss to truss connections.

13) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 930 lb uplift at joint 11 and 839 lb uplift at joint 2.

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

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

16) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 124 lb down and 121 lb up at 7-2-0, 142 lb down and 121 lb up at 9-0-0, 142 lb down and 121 lb up at 11-0-0, 84 lb down and 66 lb up at 13-0-0, 84 lb down and 66 lb up at 15-0-0, 84 lb down and 66 lb up at 17-0-0, 84 lb down and 66 lb up at 19-0-0, 84 lb down and 66 lb up at 21-0-0, 84 lb down and 66 lb up at 23-0-0, 84 lb down and 66 lb up at 30-7-0, 84 lb down and 66 lb up at 32-7-0, and 84 lb down and 66 lb up at 34-7-0, and 84 lb down and 64 lb up at 36-7-0 on top chord, and 277 lb down and 170 lb up at 7-2-0, at 9-0-0, at 11-0-0, 27 lb down and 18 lb up at 13-0-0, 27 lb down and 18 lb up at 15-0-0, 27 lb down and 18 lb up at 17-0-0, 27 lb down and 18 lb up at 19-0-0, 27 lb down and 18 lb up at 21-0-0, 27 lb down and 18 lb up at 23-0-0, 128 lb down and 140 lb up at 27-0-0, 27 lb down and 18 lb up at 30-7-8, 27 lb down and 18 lb up at 32-7-0, and 27 lb down and 18 lb up at 34-7-0, and 33 lb down and 16 lb up at 36-7-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

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

Uniform Loads (lb/ft)

Vert: 1-4=-51, 4-10=-61, 2-20=-20, 3-18=-20,

15-17=-20, 13-14=-20, 11-12=-20

Concentrated Loads (lb)

Vert: 4=-34 (B), 7=-6 (B), 9=-6 (B), 19=-242 (B), 13=-10 (B), 21=-30 (B), 22=-30 (B), 23=-6 (B), 25=-6 (B), 26=-6 (B), 27=-6 (B), 28=-6 (B), 30=-6 (B), 31=-6 (B), 32=-13 (B), 35=-10 (B), 36=-10 (B), 37=-10 (B), 38=-10 (B), 39=-10 (B), 40=-10 (B), 41=-112 (B), 42=-10 (B), 43=-10 (B), 44=-14 (B)



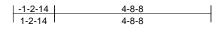
Ply Job Truss Truss Type Qty Lot 17 TCR 230872 J1 Diagonal Hip Girder 6 Job Reference (optiona

Wheeler Lumber, Waverly, KS - 66871,

S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 163476788 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION

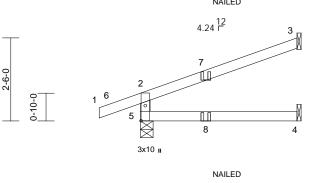
Run: 8.73 S Jan 4 2024 Print: 8.730 S Jan 4 2024 MiTek Industries, Inc. Tue Feb 06 14 ID:psOvCglQY7F2EyboCCwmgWy6jd9-RfC?PsB70Hq3NSgPqnL8w3ulTXb0 KWrCDdr7J42



NAILED

NAILED

NAILED 4-8-8



Scale = 1:34.6

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

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	0.36	Vert(LL)	-0.02	4-5	>999	360	MT20	197/144
Snow (Pf/Pg)	15.4/20.0	Lumber DOL	1.15	BC	0.23	Vert(CT)	-0.05	4-5	>999	240		
TCDL	10.0	Rep Stress Incr	NO	WB	0.00	Horz(CT)	0.02	3	n/a	n/a		
BCLL	10.0*	Code	IRC2018/TPI2014	Matrix-R		Wind(LL)	0.02	4-5	>999	240		
BCDL	10.0										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 4-8-8 oc purlins, except end verticals. **BOT CHORD**

Rigid ceiling directly applied or 10-0-0 oc

bracing.

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

5=0-4-9

Max Horiz 5=82 (LC 8) Max Uplift 3=-68 (LC 12), 5=-92 (LC 8)

Max Grav 3=147 (LC 19), 4=84 (LC 7), 5=322

(LC 19)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 2-5=-286/122, 1-2=0/32, 2-3=-82/38

BOT CHORD 4-5=0/0

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- 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.
- All bearings are assumed to be SPF No.2.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 92 lb uplift at joint 5 and 68 lb uplift at joint 3.
- 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 11) "NAILED" indicates 3-10d (0.148"x3") or 2-12d (0.148"x3.25") toe-nails per NDS guidlines.
- 12) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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

Uniform Loads (lb/ft)

Vert: 1-2=-51, 2-3=-51, 4-5=-20

Concentrated Loads (lb)

Vert: 8=2 (F=1, B=1)



February 8,2024



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

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



Job Truss Truss Type Qty Ply Lot 17 TCR 230872 J2 Jack-Open 12

Wheeler Lumber, Waverly, KS - 66871,

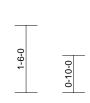
DEVELOPMENT SERVICES 163476789 LEE'S SUMMIT. MISSOURI Job Reference (optiona

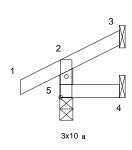
RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW

Run: 8.73 S Jan 4 2024 Print: 8.730 S Jan 4 2024 MiTek Industries, Inc. Tue Feb 06 14 ID:_A_no?GKzrDjRpY6soCO24y6jdn-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7542JG?

-0-10-8	1-3-15
0-10-8	1-3-15

12 6 Г







1-3-15

Scale = 1:25.6

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.07	Vert(LL)	0.00	4-5	>999	360	MT20	197/144
Snow (Pf/Pg)	15.4/20.0	Lumber DOL	1.15	BC	0.02	Vert(CT)	0.00	4-5	>999	240		
TCDL	10.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	3	n/a	n/a		
BCLL	10.0*	Code	IRC2018/TPI2014	Matrix-R		Wind(LL)	0.00	4-5	>999	240		
BCDL	10.0										Weight: 5 lb	FT = 10%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 1-3-15 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=37 (LC 9)

Max Uplift 3=-20 (LC 12), 4=-1 (LC 9), 5=-22

(LC 12)

Max Grav 3=17 (LC 2), 4=20 (LC 7), 5=155

(LC 2)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 2-5=-136/37, 1-2=0/32, 2-3=-29/5

BOT CHORD 4-5=0/0

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- 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.
- All bearings are assumed to be SPF No.2.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 22 lb uplift at joint 5, 1 lb uplift at joint 4 and 20 lb uplift at joint 3.
- 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



February 8,2024

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

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



Job Truss Truss Type Qty Ply Lot 17 TCR Jack-Open 230872 J3 15 Job Reference (optional

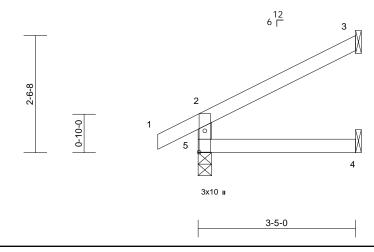
RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 163476790 LEE'S SUMMIT. MISSOURI

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.73 S Jan 4 2024 Print: 8.730 S Jan 4 2024 MiTek Industries, Inc. Tue Feb 06 14 ID:_A_no?GKzrDjRpY6soCO24y6jdn-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi734zJO

2-6-8

-0-10-8	3-5-0
0-10-8	3-5-0



Scale = 1:25

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.15	Vert(LL)	-0.01	4-5	>999	360	MT20	197/144
Snow (Pf/Pg)	15.4/20.0	Lumber DOL	1.15	BC	0.10	Vert(CT)	-0.01	4-5	>999	240		
TCDL	10.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.01	3	n/a	n/a		
BCLL	10.0*	Code	IRC2018/TPI2014	Matrix-R		Wind(LL)	0.01	4-5	>999	240		
BCDL	10.0										Weight: 10 lb	FT = 10%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 3-5-0 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=75 (LC 12)

Max Uplift 3=-58 (LC 12), 5=-24 (LC 12)

Max Grav 3=107 (LC 19), 4=60 (LC 7), 5=248

(LC 19)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 2-5=-220/58, 1-2=0/35, 2-3=-63/37

BOT CHORD 4-5=0/0

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- 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.
- All bearings are assumed to be SPF No.2.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 24 lb uplift at joint 5 and 58 lb uplift at joint 3.
- 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



February 8,2024



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

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



Job Truss Truss Type Qty Ply Lot 17 TCR 230872 J4 Diagonal Hip Girder 2 Job Reference (optional

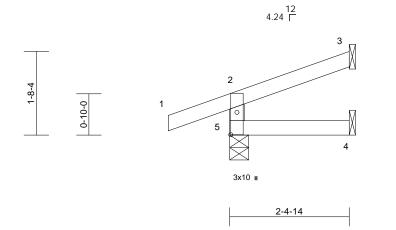
RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 163476791 LEE'S SUMMIT. MISSOURI

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.73 S Jan 4 2024 Print: 8.730 S Jan 4 2024 MiTek Industries, Inc. Tue Feb 06 14 ID:_A_no?GKzrDjRpY6soCO24y6jdn-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi754zJS

-8-4

-1-2-14	2-4-14
1-2-14	2-4-14



Scale = 1:23.2

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

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	0.15	Vert(LL)	0.00	4-5	>999	360	MT20	197/144
Snow (Pf/Pg)	15.4/20.0	Lumber DOL	1.15	BC	0.04	Vert(CT)	0.00	4-5	>999	240		
TCDL	10.0	Rep Stress Incr	NO	WB	0.00	Horz(CT)	0.00	3	n/a	n/a		
BCLL	10.0*	Code	IRC2018/TPI2014	Matrix-R		Wind(LL)	0.00	4-5	>999	240		
BCDL	10.0										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 2-4-14 oc purlins, except end verticals. **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc

bracing.

REACTIONS (size)

3= Mechanical, 4= Mechanical,

5=0-4-9

Max Horiz 5=49 (LC 8)

Max Uplift 3=-31 (LC 12), 5=-79 (LC 8)

Max Grav 3=54 (LC 19), 4=39 (LC 7), 5=230

(LC 19)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 2-5=-202/96, 1-2=0/33, 2-3=-34/13

BOT CHORD 4-5=0/0

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- 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.
- All bearings are assumed to be SPF No.2.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 79 lb uplift at joint 5 and 31 lb uplift at joint 3.
- 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



February 8,2024





Job Truss Truss Type Qty Ply Lot 17 TCR Jack-Open 230872 J5 2 Job Reference (optional

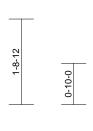
S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 163476792 LEE'S SUMMIT. MISSOURI

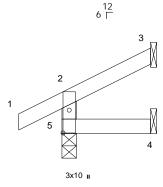
RELEASE FOR CONSTRUCTION

Wheeler Lumber, Waverly, KS - 66871,

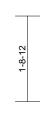
Run: 8.73 S Jan 4 2024 Print: 8.730 S Jan 4 2024 MiTek Industries, Inc. Tue Feb 06 14 ID:_A_no?GKzrDjRpY6soCO24y6jdn-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7s4zJe/f

-0-10-8	1-9-8
0-10-8	1-9-8





1-9-8



Scale = 1:23.3

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

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
Snow (Pf/Pg)	15.4/20.0	Lumber DOL	1.15	BC	0.02	Vert(CT)	0.00	4-5	>999	240		
TCDL	10.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	3	n/a	n/a		
BCLL	10.0*	Code	IRC2018/TPI2014	Matrix-R		Wind(LL)	0.00	4-5	>999	240		
BCDL	10.0										Weight: 6 lb	FT = 10%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 1-9-8 oc purlins, except end verticals.

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

bracing.

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

Max Horiz 5=43 (LC 9)

Max Uplift 3=-30 (LC 12), 5=-22 (LC 12)

Max Grav 3=40 (LC 19), 4=29 (LC 7), 5=171

(LC 19)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 2-5=-151/40, 1-2=0/33, 2-3=-35/13

BOT CHORD 4-5=0/0

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- 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.
- All bearings are assumed to be SPF No.2.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 22 lb uplift at joint 5 and 30 lb uplift at joint 3.
- 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



February 8,2024



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

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



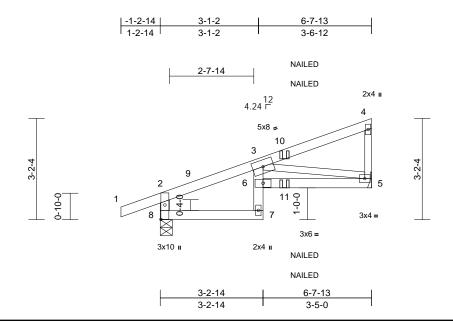
Ply Job Truss Truss Type Qty Lot 17 TCR 230872 J6 Diagonal Hip Girder Job Reference (optional

S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 163476793 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.73 S Jan 4 2024 Print: 8.730 S Jan 4 2024 MiTek Industries, Inc. Tue Feb 06 14 ID:Xbay?XUgBtxO3KmWHVW4eNy6jcC-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCD-7J42JC



Scale = 1:36.3

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

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	0.33	Vert(LL)	-0.04	5-6	>999	360	MT20	197/144
Snow (Pf/Pg)	15.4/20.0	Lumber DOL	1.15	BC	0.39	Vert(CT)	-0.07	5-6	>999	240		
TCDL	10.0	Rep Stress Incr	NO	WB	0.27	Horz(CT)	0.03	5	n/a	n/a		
BCLL	10.0*	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.03	5-6	>999	240		
BCDL	10.0										Weight: 23 lb	FT = 10%

LUMBER

TOP CHORD 2x4 SPF No 2

BOT CHORD 2x4 SPF No.2 *Except* 7-3:2x4 SPF 2100F

1.8E

WEBS 2x3 SPF No.2 *Except* 8-2:2x4 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, 8=0-4-9

Max Horiz 8=118 (LC 9)

Max Uplift 5=-87 (LC 12), 8=-121 (LC 8)

Max Grav 5=335 (LC 5), 8=414 (LC 2)

FORCES (lb) - Maximum Compression/Maximum

Tension TOP CHORD 2-8=-372/139. 1-2=0/32. 2-3=-379/70.

3-4=-99/20, 4-5=-121/47 **BOT CHORD** 7-8=-91/284, 6-7=0/52, 3-6=0/145,

5-6=-251/842

WEBS 3-5=-825/265

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.

- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- All bearings are assumed to be SPF No.2.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 121 lb uplift at joint 8 and 87 lb uplift at joint 5.
- 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) "NAILED" indicates 3-10d (0.148"x3") or 2-12d (0.148"x3.25") toe-nails per NDS guidlines.
- 12) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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

Increase=1.15

Uniform Loads (lb/ft) Vert: 1-2=-51, 2-4=-51, 7-8=-20, 5-6=-20

Concentrated Loads (lb)

Vert: 10=-3 (F=-1, B=-1), 11=-48 (F=-24, B=-24)



February 8,2024



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

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



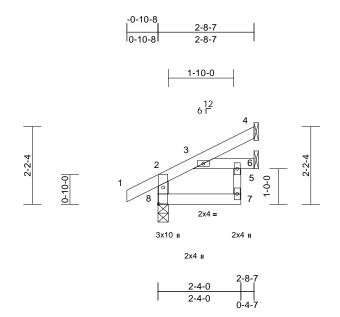
Job Truss Truss Type Qty Ply Lot 17 TCR 230872 J7 Jack-Open 2 Job Reference (optiona

S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 163476794 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.73 S Jan 4 2024 Print: 8.730 S Jan 4 2024 MiTek Industries, Inc. Tue Feb 06 14 ID:3P0aoBT2QZpXRBBKjo?r6Ay6jcD-RfC?PsB70Hq3NSgPqnL8w3uITXbGrWrCDoi7s4239?



Scale = 1:32.4

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.08	Vert(LL)	0.00	3-6	>999	360	MT20	197/144
Snow (Pf/Pg)	15.4/20.0	Lumber DOL	1.15	BC	0.07	Vert(CT)	0.00	3-6	>999	240		
TCDL	10.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	5	n/a	n/a		
BCLL	10.0*	Code	IRC2018/TPI2014	Matrix-R		Wind(LL)	0.00	3	>999	240		
BCDL	10.0										Weight: 10 lb	FT = 10%

LUMBER

2x4 SPF No.2 TOP CHORD

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

2x4 SPF No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or 2-8-7 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=60 (LC 12)

Max Uplift 4=-31 (LC 12), 5=-2 (LC 12), 8=-17

(LC 12)

Max Grav 4=65 (LC 19), 5=77 (LC 26), 8=221

(LC 19)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 2-8=-201/38, 1-2=0/34, 2-3=-74/0, 3-4=-25/24 BOT CHORD 7-8=-16/26, 6-7=0/42, 3-6=-26/16, 5-6=0/0

NOTES

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- All bearings are assumed to be SPF No.2.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 17 lb uplift at joint 8, 31 lb uplift at joint 4 and 2 lb uplift at joint 5.
- 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



February 8,2024



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

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



Job Truss Truss Type Qty Ply Lot 17 TCR 230872 J8 Diagonal Hip Girder Job Reference (optional

Wheeler Lumber, Waverly, KS - 66871,

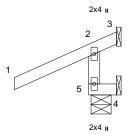
S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 163476795 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION

Run: 8.73 S Jan 4 2024 Print: 8.730 S Jan 4 2024 MiTek Industries, Inc. Tue Feb 06 14 ID:_A_no?GKzrDjRpY6soCO24y6jdn-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7542JG?1









Scale = 1:30.3

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.31	Vert(LL)	0.00	5	>999	360	MT20	197/144
Snow (Pf/Pg)	15.4/20.0	Lumber DOL	1.15	BC	0.05	Vert(CT)	0.00	4-5	>999	240		
TCDL	10.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.01	3	n/a	n/a		
BCLL	10.0*	Code	IRC2018/TPI2014	Matrix-R		Wind(LL)	0.00	5	>999	240		
BCDL	10.0	ļ		1							Weight: 5 lb	FT = 10%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or

0-8-12 oc purlins, except end verticals. **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc

bracing.

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

5=0-6-5 Max Horiz 5=49 (LC 9)

Max Uplift 3=-209 (LC 19), 4=-39 (LC 19),

5=-113 (LC 8)

Max Grav 3=68 (LC 8), 4=8 (LC 30), 5=448

(LC 19)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/61, 2-3=-102/28, 2-5=-398/126

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
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this 3)
- This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- All bearings are assumed to be SPF No.2. Refer to girder(s) for truss to truss connections
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 39 lb uplift at joint 4, 209 lb uplift at joint 3 and 113 lb uplift at joint 5.
- 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



February 8,2024



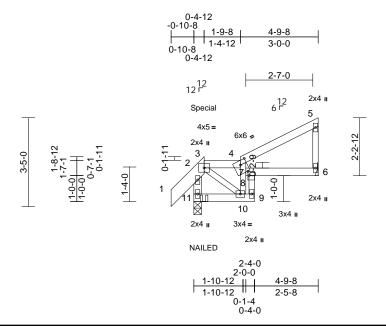
Job Truss Truss Type Qty Ply Lot 17 TCR 230872 J9 Jack-Closed Girder Job Reference (optiona

S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 163476796 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.73 S Jan 4 2024 Print: 8.730 S Jan 4 2024 MiTek Industries, Inc. Tue Feb 06 14 12:39 ID:xAG5dZWZUoJzwoU5ye3nG0y6jc9-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoFd42dC?



Scale = 1:44.4

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

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	0.21	Vert(LL)	-0.03	6-7	>999	360	MT20	197/144
Snow (Pf/Pg)	20.4/20.0	Lumber DOL	1.15	BC	0.31	Vert(CT)	-0.05	6-7	>999	240		
TCDL	10.0	Rep Stress Incr	NO	WB	0.05	Horz(CT)	0.02	6	n/a	n/a		
BCLL	10.0*	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.03	9	>999	240		
BCDL	10.0										Weight: 21 lb	FT = 10%

LUMBER

TOP CHORD 2x4 SPF No.2 *Except* 1-3:2x6 SPF No.2 **BOT CHORD** 2x4 SPF No.2 *Except* 9-7:2x3 SPF No.2 **WEBS** 2x3 SPF No.2 *Except* 11-2:2x4 SPF No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or 4-9-8 oc purlins, except end verticals, and

2-0-0 oc purlins: 3-4.

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

bracing, Except: 6-0-0 oc bracing: 7-8.

REACTIONS (size) 6= Mechanical, 11=0-3-8

Max Horiz 11=114 (LC 9)

Max Uplift 6=-54 (LC 75), 11=-150 (LC 59)

Max Grav 6=219 (LC 45), 11=314 (LC 47)

FORCES (lb) - Maximum Compression/Maximum

Tension TOP CHORD

1-2=0/73, 2-3=-130/22, 3-4=-110/13,

4-5=-92/28, 5-6=-129/49, 2-11=-255/139 **BOT CHORD** 10-11=-85/55, 9-10=-32/86, 7-9=-113/290,

7-8=-50/39, 6-7=-22/43

WEBS 3-10=-13/128, 8-10=-350/122, 4-8=-118/51

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0
- Unbalanced snow loads have been considered for this design.
- 4) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.

- 5) Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- All bearings are assumed to be SPF No.2
- Refer to girder(s) for truss to truss connections
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 54 lb uplift at joint 6 and 150 lb uplift at joint 11.
- 11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 13) "NAILED" indicates 3-10d (0.148"x3") or 2-12d (0.148"x3.25") toe-nails per NDS guidlines.
- 14) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 108 lb down and 285 lb up at $\,$ 0-4-12 on top chord, and 5 lb $\,$ down and 52 lb up at 0-1-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 15) 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 + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (lb/ft)

Vert: 1-2=-51, 2-3=-51, 3-4=-61, 4-5=-51, 9-11=-20,

6-7=-20

Concentrated Loads (lb)

Vert: 11=18 (B), 2=58 (B)



February 8,2024



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

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



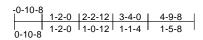
Job	Truss	Truss Type	Qty	Ply	Lot 17 TCR
230872	J10	Jack-Closed	1	1	Job Reference (optional

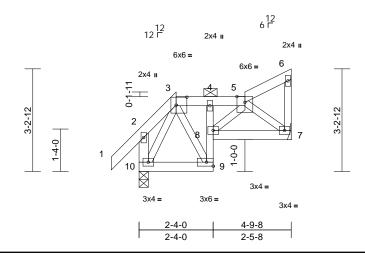
S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 163476797 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.73 S Jan 4 2024 Print: 8.730 S Jan 4 2024 MiTek Industries, Inc. Tue Feb 06 14 ID:WzQPbfFiCX5tqfzwJ4h9Wty6jdo-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKV rCDoi7J4zJ094





Scale = 1:36.3

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

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	0.13	Vert(LL)	-0.01	8	>999	360	MT20	197/144
Snow (Pf/Pg)	20.4/20.0	Lumber DOL	1.15	BC	0.27	Vert(CT)	-0.01	7-8	>999	240		
TCDL	10.0	Rep Stress Incr	YES	WB	0.04	Horz(CT)	0.02	7	n/a	n/a		
BCLL	10.0*	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.01	9	>999	240		
BCDL	10.0										Weight: 23 lb	FT = 10%

LUMBER

TOP CHORD 2x4 SPF No 2

BOT CHORD 2x4 SPF No.2 *Except* 9-4:2x3 SPF No.2 **WEBS** 2x3 SPF No.2 *Except* 10-2:2x4 SPF No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or

4-9-8 oc purlins, except end verticals, and

2-0-0 oc purlins: 3-5.

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

bracing.

REACTIONS (size)

7= Mechanical, 10=0-3-8

Max Horiz 10=115 (LC 9)

Max Uplift 7=-54 (LC 12), 10=-46 (LC 12)

Max Grav 7=203 (LC 3), 10=307 (LC 37)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 2-10=-181/80, 1-2=0/74, 2-3=-67/55

3-4=-114/32, 4-5=-178/46, 5-6=-54/22,

6-7=-54/18

BOT CHORD 9-10=-64/93, 8-9=-52/43, 4-8=-24/71,

7-8=-48/162

WEBS 3-10=-197/27, 3-9=-29/88, 5-7=-206/75,

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.: Ce=1.0: Cs=1.00: Ct=1.10. Lu=50-0-0
- Unbalanced snow loads have been considered for this design.

- 4) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- All bearings are assumed to be SPF No.2
- Refer to girder(s) for truss to truss connections.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 46 lb uplift at joint 10 and 54 lb uplift at joint 7.
- 11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard



February 8,2024



Job Truss Truss Type Qty Ply Lot 17 TCR 230872 J11 Jack-Closed

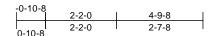
Wheeler Lumber, Waverly, KS - 66871,

DEVELOPMENT SERVICES 163476798 LEE'S SUMMIT. MISSOURI Job Reference (optiona

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW

Run: 8.73 S Jan 4 2024 Print: 8.730 S Jan 4 2024 MiTek Industries, Inc. Tue Feb 06 14 ID:Xn?hl5shCCWdRVMjol564dy6jd?-RfC?PsB70Hq3NSgPqnL8w3ulTXbGK VrCDoi7342JS

3-6-0



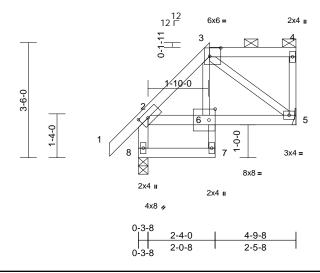


Plate Offsets (X, Y): [2:0-2-15,0-2-0], [3:0-4-1,0-3-0], [6:0-2-4,0-4-0]

Loading	(psf)	Spacing	2-0-0	csı		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.09	Vert(LL)	0.00	5-6	>999	360	MT20	197/144
Snow (Pf/Pg)	20.4/20.0	Lumber DOL	1.15	BC	0.08	Vert(CT)	0.00	5-6	>999	240		
TCDL	10.0	Rep Stress Incr	YES	WB	0.04	Horz(CT)	-0.01	5	n/a	n/a		
BCLL	10.0*	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.00	5-6	>999	240		
BCDL	10.0										Weight: 23 lb	FT = 10%

LUMBER

TOP CHORD 2x4 SPF No.2

BOT CHORD 2x4 SPF No.2 *Except* 7-6:2x3 SPF No.2 **WEBS** 2x3 SPF No.2 *Except* 8-2:2x4 SPF No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or

4-9-8 oc purlins, except end verticals, and

2-0-0 oc purlins: 3-4.

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

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

Max Horiz 8=121 (LC 7)

Max Uplift 5=-71 (LC 7), 8=-30 (LC 10) Max Grav 5=203 (LC 3), 8=284 (LC 2)

(lb) - Maximum Compression/Maximum

FORCES Tension

TOP CHORD 2-8=-262/57, 1-2=0/51, 2-3=-205/27,

3-4=-29/24, 4-5=-86/38

BOT CHORD 7-8=-51/38, 6-7=-12/48, 2-6=-22/111,

5-6=-73/136

3-5=-160/71, 3-6=-2/97

WEBS NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0
- This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- Provide adequate drainage to prevent water ponding.

- 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, with BCDL = 10.0psf.
- All bearings are assumed to be SPF No.2
- Refer to girder(s) for truss to truss connections.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 30 lb uplift at joint 8 and 71 lb uplift at joint 5.
- 11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard



February 8,2024





Job Truss Truss Type Qty Ply Lot 17 TCR 230872 J12 Jack-Closed Job Reference (optiona

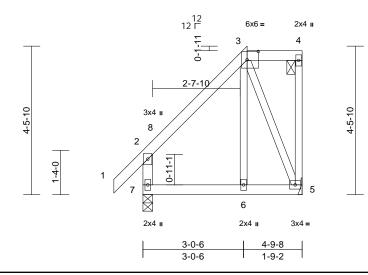
S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 163476799 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.73 S Jan 4 2024 Print: 8.730 S Jan 4 2024 MiTek Industries, Inc. Tue Feb 06 14 ID:Xn?hl5shCCWdRVMjol564dy6jd?-RfC?PsB70Hq3NSgPqnL8w3ulTXbGK VrCDoi7342JS





Scale = 1:34.7

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

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	0.17	Vert(LL)	0.00	5-6	>999	240	MT20	197/144
Snow (Pf/Pg)	20.4/20.0	Lumber DOL	1.15	BC	0.08	Vert(CT)	-0.01	6-7	>999	240		
TCDL	10.0	Rep Stress Incr	YES	WB	0.10	Horz(CT)	0.00	5	n/a	n/a		
BCLL	10.0*	Code	IRC2018/TPI2014	Matrix-S								
BCDL	10.0										Weight: 25 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

4-9-8 oc purlins, except end verticals, and

2-0-0 oc purlins: 3-4.

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

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

Max Horiz 7=176 (LC 9)

Max Uplift 5=-93 (LC 9), 7=-24 (LC 12)

Max Grav 5=227 (LC 37), 7=376 (LC 34)

FORCES

(lb) - Maximum Compression/Maximum Tension

TOP CHORD 2-7=-339/68, 1-2=0/74, 2-3=-220/42,

3-4=-58/45, 4-5=-77/43

BOT CHORD 6-7=-80/97, 5-6=-81/94

WEBS

3-6=-25/100, 3-5=-222/123

NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0
- Unbalanced snow loads have been considered for this
- This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.

- 6) Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- All bearings are assumed to be SPF No.2
- 10) Refer to girder(s) for truss to truss connections.
- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 24 lb uplift at joint 7 and 93 lb uplift at joint 5.
- 12) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 13) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard



February 8,2024



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

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



Job Truss Truss Type Qty Ply Lot 17 TCR 230872 J13 Jack-Closed Job Reference (optiona

S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 163476800 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.73 S Jan 4 2024 Print: 8.730 S Jan 4 2024 MiTek Industries, Inc. Tue Feb 06 14 ID:Xn?hl5shCCWdRVMjol564dy6jd?-RfC?PsB70Hq3NSgPqnL8w3ulTXbGK VrCDoi7342JS

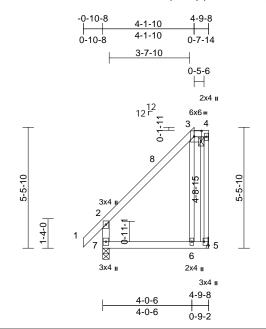


Plate Offsets (X, Y): [3:0-4-1,0-3-0], [5:Edge,0-2-8]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.33	Vert(LL)	-0.03	6-7	>999	360	MT20	197/144
Snow (Pf/Pg)	20.4/20.0	Lumber DOL	1.15	BC	0.23	Vert(CT)	-0.05	6-7	>999	240		
TCDL	10.0	Rep Stress Incr	YES	WB	0.09	Horz(CT)	0.00	5	n/a	n/a		
BCLL	10.0*	Code	IRC2018/TPI2014	Matrix-R		Wind(LL)	0.04	6-7	>999	240		
BCDL	10.0										Weight: 23 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

4-9-8 oc purlins, except end verticals, and

2-0-0 oc purlins: 3-4.

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

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

Max Horiz 7=216 (LC 11)

Max Uplift 5=-119 (LC 9), 7=-9 (LC 8)

Max Grav 5=290 (LC 38), 7=407 (LC 40)

(lb) - Maximum Compression/Maximum Tension

TOP CHORD 2-7=-340/46, 1-2=0/74, 2-3=-242/118,

3-4=-69/64, 4-5=-98/34

BOT CHORD 6-7=-74/62, 5-6=-77/63

WEBS 3-6=-141/145

NOTES

FORCES

- 1) Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0
- Unbalanced snow loads have been considered for this
- This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.

- 6) Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- All bearings are assumed to be SPF No.2
- 10) Refer to girder(s) for truss to truss connections.
- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 9 lb uplift at joint 7 and 119 lb uplift at joint 5.
- 12) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 13) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard



February 8,2024



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

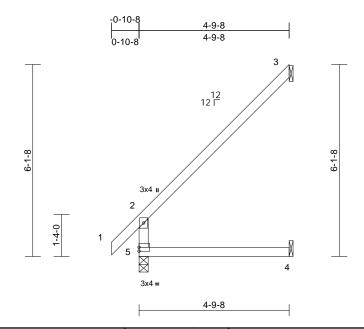
Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not



Ply Truss Type Job Truss Qty Lot 17 TCR 230872 J14 Jack-Open 10 Job Reference (optiona RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 163476801 LEE'S SUMMIT. MISSOURI

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.73 S Jan 4 2024 Print: 8.730 S Jan 4 2024 MiTek Industries, Inc. Tue Feb 06 14 ID:WzQPbfFiCX5tqfzwJ4h9Wty6jdo-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKV rCDoi7J4zJ094



Scale = 1:36.8

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.33	Vert(LL)	-0.03	4-5	>999	360	MT20	197/144
Snow (Pf/Pg)	15.4/20.0	Lumber DOL	1.15	BC	0.24	Vert(CT)	-0.05	4-5	>999	240		
TCDL	10.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.08	3	n/a	n/a		
BCLL	10.0*	Code	IRC2018/TPI2014	Matrix-R		Wind(LL)	0.05	4-5	>999	240		
BCDL	10.0										Weight: 16 lb	FT = 10%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or

4-9-8 oc purlins, except end verticals. **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc

bracing.

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

Max Horiz 5=145 (LC 10)

Max Uplift 3=-103 (LC 10), 4=-5 (LC 10) Max Grav 3=164 (LC 20), 4=98 (LC 20),

5=286 (LC 2)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 2-5=-251/0, 1-2=0/51, 2-3=-141/97

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); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- 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.

- 6) All bearings are assumed to be SPF No.2
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 103 lb uplift at joint 3 and 5 lb uplift at joint 4.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



February 8,2024



Ply Job Truss Truss Type Qty Lot 17 TCR 230872 J15 Jack-Open

Job Reference (optiona

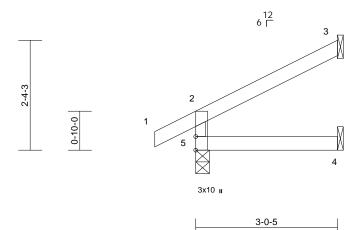
RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 163476802 LEE'S SUMMIT. MISSOURI

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.73 S Jan 4 2024 Print: 8.730 S Jan 4 2024 MiTek Industries, Inc. Tue Feb 06 14 ID:KfQKSi9HSXQ?IWr?5z0x7Zy45cZ-RfC?PsB70Hq3NSgPqnL8w3uITXbGkWrCDoi794z3e?

2-4-3

-0-10-8	3-0-5
0-10-8	3-0-5



Scale = 1:24.6

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	0.12	Vert(LL)	0.00	4-5	>999	360	MT20	197/144
Snow (Pf/Pg)	15.4/20.0	Lumber DOL	1.15	BC	0.07	Vert(CT)	-0.01	4-5	>999	240		
TCDL	10.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.01	3	n/a	n/a		
BCLL	10.0*	Code	IRC2018/TPI2014	Matrix-R		Wind(LL)	0.00	4-5	>999	240		
BCDL	10.0										Weight: 9 lb	FT = 10%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or

3-0-5 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=67 (LC 12)

Max Uplift 3=-54 (LC 12), 5=-23 (LC 12)

Max Grav 3=94 (LC 19), 4=55 (LC 7), 5=225

(LC 19)

FORCES (lb) - Maximum Compression/Maximum

TOP CHORD 2-5=-198/51, 1-2=0/33, 2-3=-57/32

BOT CHORD

- Tension
- 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
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - All bearings are assumed to be SPF No.2.
- Refer to girder(s) for truss to truss connections
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 23 lb uplift at joint 5 and 54 lb uplift at joint 3.
- 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



February 8,2024



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

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



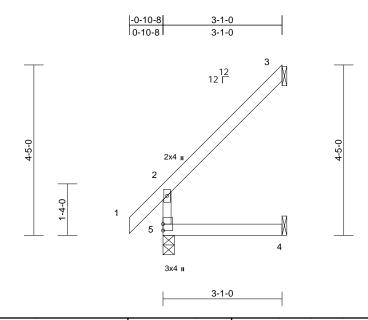
Truss Type Ply Job Truss Qty Lot 17 TCR 230872 J16 Jack-Open 10

DEVELOPMENT SERVICES 163476803 LEE'S SUMMIT. MISSOURI Job Reference (optiona

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.73 S Jan 4 2024 Print: 8.730 S Jan 4 2024 MiTek Industries, Inc. Tue Feb 06 14 ID:ZNTkLnGwKIYjtu1k7Mg2?Ty45cQ-RfC?PsB70Hq3NSgPqnL8w3ulTXbGkWrCDoi7



Scale = 1:29.9

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defI	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.18	Vert(LL)	0.00	4-5	>999	360	MT20	197/144
Snow (Pf/Pg)	15.4/20.0	Lumber DOL	1.15	BC	0.10	Vert(CT)	-0.01	4-5	>999	240		
TCDL	10.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.03	3	n/a	n/a		
BCLL	10.0*	Code	IRC2018/TPI2014	Matrix-R		Wind(LL)	0.01	4-5	>999	240		
BCDL	10.0										Weight: 11 lb	FT = 10%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or

3-1-0 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=97 (LC 10)

Max Uplift 3=-74 (LC 10), 4=-6 (LC 10) 3=106 (LC 20), 4=62 (LC 20), Max Grav

5=211 (LC 2)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 2-5=-184/0, 1-2=0/48, 2-3=-93/63

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); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- 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.

- 6) All bearings are assumed to be SPF No.2
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 74 lb uplift at joint 3 and 6 lb uplift at joint 4.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



February 8,2024



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

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



Job Truss Truss Type Qty Ply Lot 17 TCR 230872 J17 Diagonal Hip Girder 2

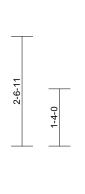
Wheeler Lumber, Waverly, KS - 66871,

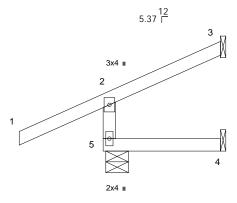
DEVELOPMENT SERVICES 163476804 LEE'S SUMMIT. MISSOURI Job Reference (optiona Run: 8.73 S Jan 4 2024 Print: 8.730 S Jan 4 2024 MiTek Industries, Inc. Tue Feb 06 14

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW

ID:s?wpN_ZzggaJlatLXP6gzXy45c2-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKVrCDoi7J42J59

1	-1-11-8	2-8-13
	1-11-8	2-8-13







Scale = 1:26.8

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defI	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.39	Vert(LL)	0.00	4-5	>999	360	MT20	197/144
Snow (Pf/Pg)	15.4/20.0	Lumber DOL	1.15	BC	0.10	Vert(CT)	0.00	4-5	>999	240		
TCDL	10.0	Rep Stress Incr	NO	WB	0.00	Horz(CT)	-0.02	3	n/a	n/a		
BCLL	10.0*	Code	IRC2018/TPI2014	Matrix-R		Wind(LL)	0.00	4-5	>999	240		
BCDL	10.0										Weight: 10 lb	FT = 10%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 2-8-13 oc purlins, except end verticals.

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

bracing.

REACTIONS (size) 3= Mechanical, 4= Mechanical, 5=0-6-5

Max Horiz 5=71 (LC 11)

3=-58 (LC 16), 4=-9 (LC 30), 5=-63 Max Uplift

(LC 16)

Max Grav 3=26 (LC 8), 4=17 (LC 21), 5=284

(LC 19)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 2-5=-261/85, 1-2=0/66, 2-3=-40/10

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
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this 3)
- This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- All bearings are assumed to be SPF No.2.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 63 lb uplift at joint 5, 58 lb uplift at joint 3 and 9 lb uplift at joint 4.
- 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 11) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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

Increase=1.15

Uniform Loads (lb/ft)

Vert: 1-2=-51

Trapezoidal Loads (lb/ft)

Vert: 2=-2 (F=24, B=24)-to-3=-35 (F=8, B=8), 5=0

(F=10, B=10)-to-4=-14 (F=3, B=3)



February 8,2024



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

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



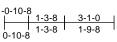
Job Truss Truss Type Qty Ply Lot 17 TCR 230872 J18 Half Hip Girder Job Reference (optiona

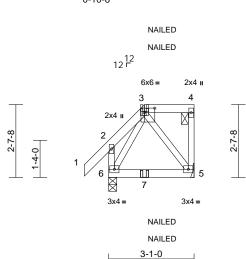
S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 163476805 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.73 S Jan 4 2024 Print: 8.730 S Jan 4 2024 MiTek Industries, Inc. Tue Feb 0614 ID:G7fo8e?By2E3iGCSBgGLzKy45bT-RfC?PsB70Hq3NSgPqnL8w3uITXbG (WrCDoi 1942) 2.ff





Scale = 1:41.6

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.12	Vert(LL)	0.00	5-6	>999	360	MT20	197/144
Snow (Pf/Pg)	20.4/20.0	Lumber DOL	1.15	BC	0.09	Vert(CT)	-0.01	5-6	>999	240		
TCDL	10.0	Rep Stress Incr	NO	WB	0.03	Horz(CT)	0.00	5	n/a	n/a		
BCLL	10.0*	Code	IRC2018/TPI2014	Matrix-P		Wind(LL)	0.00	5-6	>999	240		
BCDL	10.0										Weight: 16 lb	FT = 10%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or

3-1-0 oc purlins, except end verticals, and

2-0-0 oc purlins: 3-4.

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

bracing.

REACTIONS (size) 5= Mechanical, 6=0-3-8

Max Horiz 6=109 (LC 9)

Max Uplift 5=-136 (LC 9), 6=-134 (LC 12)

Max Grav 5=156 (LC 37), 6=260 (LC 40)

FORCES (lb) - Maximum Compression/Maximum Tension

1-2=0/71, 2-3=-98/94, 3-4=-34/25,

4-5=-87/25, 2-6=-206/116

BOT CHORD 5-6=-97/56

WEBS 3-5=-59/130, 3-6=-145/139

NOTES

TOP CHORD

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- Provide adequate drainage to prevent water ponding.

- 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, with BCDL = 10.0psf.
- All bearings are assumed to be SPF No.2.
- Refer to girder(s) for truss to truss connections.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 136 lb uplift at joint 5 and 134 lb uplift at joint 6.
- 11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 13) "NAILED" indicates 3-10d (0.148"x3") or 2-12d (0.148"x3.25") toe-nails per NDS guidlines.
- 14) 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 + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (lb/ft)

Vert: 1-2=-51, 2-3=-51, 3-4=-61, 5-6=-20

Concentrated Loads (lb)

Vert: 3=45 (F=22, B=22), 7=7 (F=4, B=4)



February 8,2024



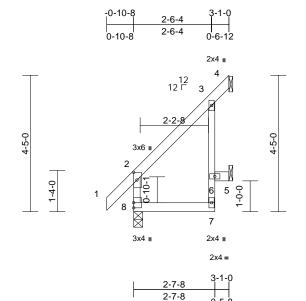
Ply Job Truss Truss Type Qty Lot 17 TCR 230872 J19 Jack-Open 3 Job Reference (optiona

S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 163476806 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.73 S Jan 4 2024 Print: 8.730 S Jan 4 2024 MiTek Industries, Inc. Tue Feb 06 14 ID:?U?QMNzQa7nxIJ9nEPha4iy45Yw-RfC?PsB70Hq3NSgPqnL8w3uITXbG WrCDoiy42961f



Scale = 1:37.3

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

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	0.22	Vert(LL)	0.02	7	>999	240	MT20	197/144
Snow (Pf/Pg)	15.4/20.0	Lumber DOL	1.15	BC	0.12	Vert(CT)	0.02	7	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.02	Horz(CT)	-0.07	4	n/a	n/a		
BCLL	10.0*	Code	IRC2018/TPI2014	Matrix-S								
BCDL	10.0										Weight: 14 lb	FT = 10%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 3-1-0 oc purlins, except end verticals. **BOT CHORD**

Rigid ceiling directly applied or 10-0-0 oc

bracing.

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

8=0-3-8

Max Horiz 8=138 (LC 10) Max Uplift 4=-132 (LC 10)

Max Grav 4=165 (LC 22), 5=10 (LC 5), 8=211

(LC 2)

FORCES (lb) - Maximum Compression/Maximum

Tension

2-8=-189/0, 1-2=0/48, 2-3=-120/41, TOP CHORD

3-4=-97/115 7-8=0/0, 5-6=0/0

BOT CHORD WEBS 6-7=-21/56, 3-6=-18/65

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- All bearings are assumed to be SPF No.2.
- Refer to girder(s) for truss to truss connections.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 132 lb uplift at joint
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



February 8,2024



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Job Truss Truss Type Qty Ply Lot 17 TCR 230872 J20 Jack-Open Job Reference (optional

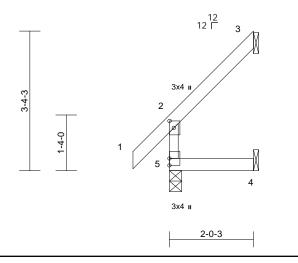
S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 163476807 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.73 S Jan 4 2024 Print: 8.730 S Jan 4 2024 MiTek Industries, Inc. Tue Feb 06 14 ID:?03GU?OIZZ36qYIJEYIYSty45YO-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi734z3e?

-0-10-8	2-0-3
0-10-8	2-0-3



Scale = 1:27.6

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

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	0.15	Vert(LL)	0.00	4-5	>999	240	MT20	197/144
Snow (Pf/Pg)	15.4/20.0	Lumber DOL	1.15	BC	0.08	Vert(CT)	0.00	4-5	>999	180	1	
TCDL	10.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.02	3	n/a	n/a		
BCLL	10.0*	Code	IRC2018/TPI2014	Matrix-R								
BCDL	10.0										Weight: 8 lb	FT = 10%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 2-0-3 oc purlins, except end verticals.

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

bracing.

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

5=0-3-8

Max Horiz 5=94 (LC 10)

Max Uplift 3=-77 (LC 10), 4=-21 (LC 10)

Max Grav 3=66 (LC 22), 4=44 (LC 18), 5=170

(LC 2)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 2-5=-150/0, 1-2=0/48, 2-3=-78/39

BOT CHORD 4-5=0/0

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- 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, with BCDL = 10.0psf.
- All bearings are assumed to be SPF No.2.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 77 lb uplift at joint 3 and 21 lb uplift at joint 4.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



February 8,2024



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



Truss Type Job Truss Qty Ply Lot 17 TCR Jack-Open 230872 J21

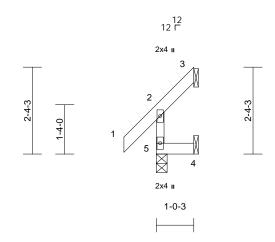
Wheeler Lumber, Waverly, KS - 66871,

DEVELOPMENT SERVICES 163476808 LEE'S SUMMIT. MISSOURI Job Reference (optiona

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW

Run: 8.73 S Jan 4 2024 Print: 8.730 S Jan 4 2024 MiTek Industries, Inc. Tue Feb 06 14 ID:El6gN4VPSKBrPwx2GxzfJmy45YF-RfC?PsB70Hq3NSgPqnL8w3ulTXbG (WrCDoi) 4236 ff

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



Scale = 1:31.1

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	0.10	Vert(LL)	0.00	4-5	>999	240	MT20	197/144
Snow (Pf/Pg)	15.4/20.0	Lumber DOL	1.15	BC	0.04	Vert(CT)	0.00	4-5	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.01	3	n/a	n/a		
BCLL	10.0*	Code	IRC2018/TPI2014	Matrix-R								
BCDL	10.0										Weight: 5 lb	FT = 10%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or

1-0-3 oc purlins, except end verticals. **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc

bracing.

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

Max Horiz 5=61 (LC 7)

Max Uplift 3=-41 (LC 10), 4=-30 (LC 10) Max Grav 3=23 (LC 8), 4=33 (LC 8), 5=146

(LC 2)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 2-5=-133/7, 1-2=0/48, 2-3=-49/15

BOT CHORD 4-5=0/0

- 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
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads. 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.

- 6) All bearings are assumed to be SPF No.2
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 30 lb uplift at joint 4 and 41 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



February 8,2024



Job Truss Truss Type Qty Ply Lot 17 TCR 230872 J22 Diagonal Hip Girder Job Reference (optiona

S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 163476809 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.73 S Jan 4 2024 Print: 8.730 S Jan 4 2024 MiTek Industries, Inc. Tue Feb 06 14 ID:MWw0gKsDNYza0XEp0EVhX5y45Xn-RfC?PsB70Hq3NSgPqnL8w3uITXt GKWrCDef7342JC

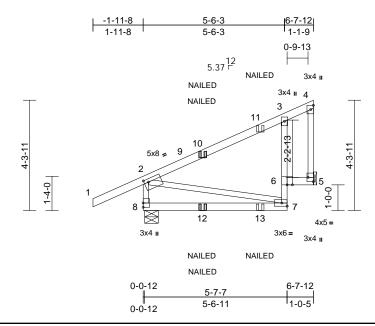


Plate Offsets (X, Y): [2:0-2-0,0-1-8], [5:Edge,0-2-8]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.36	Vert(LL)	-0.04	7-8	>999	360	MT20	197/144
Snow (Pf/Pg)	15.4/20.0	Lumber DOL	1.15	BC	0.40	Vert(CT)	-0.08	7-8	>999	240		
TCDL	10.0	Rep Stress Incr	NO	WB	0.03	Horz(CT)	-0.01	5	n/a	n/a		
BCLL	10.0*	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.04	7-8	>999	240		
BCDL	10.0										Weight: 28 lb	FT = 10%

LUMBER

TOP CHORD 2x4 SPF No 2

BOT CHORD 2x4 SPF No.2 *Except* 7-3:2x3 SPF No.2

WEBS 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, 8=0-6-5

Max Horiz 8=167 (LC 9)

Max Uplift 5=-143 (LC 9), 8=-140 (LC 12)

Max Grav 5=314 (LC 26), 8=470 (LC 29) (lb) - Maximum Compression/Maximum

FORCES Tension

TOP CHORD 2-8=-387/145, 1-2=0/59, 2-3=-261/66,

3-4=-56/39, 4-5=-94/26

BOT CHORD 7-8=-195/114, 6-7=-34/113, 3-6=-144/107,

5-6=-41/45

WEBS 2-7=-22/124

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- All bearings are assumed to be SPF No.2.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 140 lb uplift at joint 8 and 143 lb uplift at joint 5.
- 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) "NAILED" indicates 2-12d (0.148"x3.25") toe-nails per
- 12) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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

Increase=1.15

Uniform Loads (lb/ft)

Vert: 1-2=-51, 2-4=-51, 7-8=-20, 5-6=-20

Concentrated Loads (lb)

Vert: 10=23 (B), 12=-1 (F=-3, B=2), 13=0 (B)



February 8,2024



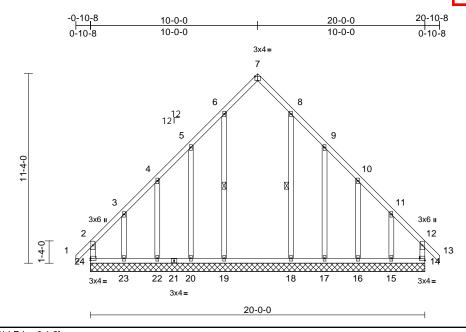
Job Truss Truss Type Qty Ply Lot 17 TCR 230872 K1 3 Common Supported Gable Job Reference (optiona

S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 163476810 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.73 S Jan 4 2024 Print: 8.730 S Jan 4 2024 MiTek Industries, Inc. Tue Feb 06 14 ID:_A_no?GKzrDjRpY6soCO24y6jdn-RfC?PsB70Hq3NSgPqnL8w3uITXbGK WrCDoi7



Scale = 1:68.9

Plate Offsets (X, Y): [7:0-2-0,Edge], [14:Edge,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	0.24	Vert(LL)	n/a	-	n/a	999	MT20	197/144
Snow (Pf/Pg)	15.4/20.0	Lumber DOL	1.15	BC	0.26	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.13	Horz(CT)	0.01	14	n/a	n/a		
BCLL	10.0*	Code	IRC2018/TPI2014	Matrix-R								
BCDL	10.0										Weight: 113 lb	FT = 10%

LUMBER

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

BRACING

BOT CHORD

TOP CHORD Structural wood sheathing directly applied or

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

bracing.

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

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, 22=20-0-0, 23=20-0-0, 24=20-0-0

Max Horiz 24=-327 (LC 8)

14=-139 (LC 9), 15=-381 (LC 11), 16=-41 (LC 11), 17=-193 (LC 11),

20=-191 (LC 10), 22=-41 (LC 10), 23=-384 (LC 10), 24=-149 (LC 8)

Max Grav 14=421 (LC 25), 15=322 (LC 23), 16=257 (LC 23), 17=211 (LC 23), 18=397 (LC 23), 19=404 (LC 22),

20=209 (LC 22), 22=256 (LC 22), 23=326 (LC 22), 24=425 (LC 24)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 12-14=-311/101, 7-8=-131/100, 8-9=-129/122, 9-10=-163/86, 10-11=-211/118,

11-12=-420/204, 12-13=0/51, 1-2=0/51, 2-3=-425/214, 3-4=-215/126, 4-5=-169/94 5-6=-137/127, 6-7=-131/102, 2-24=-313/110

BOT CHORD 23-24=-162/292, 22-23=-162/292, 20-22=-162/292, 19-20=-162/292,

18-19=-162/292, 17-18=-162/292, 16-17=-162/292, 15-16=-162/292,

14-15=-162/292

WEBS

8-18=-183/24, 9-17=-152/201, 10-16=-155/99, 11-15=-184/274, 6-19=-190/33, 5-20=-149/199, 4-22=-155/99, 3-23=-186/275

NOTES

- Unbalanced roof live loads have been considered for 1) this design
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- 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, with BCDL = 10.0psf.
- 12) All bearings are assumed to be SPF No.2.

- 13) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 139 lb uplift at joint 14, 149 lb uplift at joint 24, 193 lb uplift at joint 17, 41 lb uplift at joint 16, 381 lb uplift at joint 15, 191 lb uplift at joint 20, 41 lb uplift at joint 22 and 384 lb uplift at joint
- 14) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



February 8,2024



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

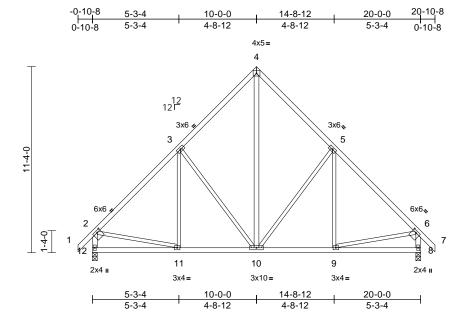
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not



Ply Truss Type Job Truss Qty Lot 17 TCR 230872 K2 Common Job Reference (optiona RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 163476811 LEE'S SUMMIT. MISSOURI

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.73 S Jan 4 2024 Print: 8.730 S Jan 4 2024 MiTek Industries, Inc. Tu e Feb 0614 ID:SMY90LHyk8La3z6IQVjdbly6jdm-RfC?PsB70Hq3NSgPqnL8w3uITXbGK /rCDoi7



Scale = 1:70.2

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.29	Vert(LL)	-0.03	9-10	>999	360	MT20	197/144
Snow (Pf/Pg)	15.4/20.0	Lumber DOL	1.15	BC	0.26	Vert(CT)	-0.05	9-10	>999	240		
TCDL	10.0	Rep Stress Incr	YES	WB	0.55	Horz(CT)	0.01	8	n/a	n/a		
BCLL	10.0*	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.02	10-11	>999	240		
BCDL	10.0										Weight: 103 lb	FT = 10%

LUMBER

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

WEBS 2x3 SPF No.2 *Except* 12-2,8-6,10-4:2x4

SPF No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or

5-10-8 oc purlins, except end verticals.

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

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

Max Horiz 12=-327 (LC 8)

Max Uplift 8=-93 (LC 11), 12=-93 (LC 10)

Max Grav 8=981 (LC 22), 12=981 (LC 23)

FORCES (lb) - Maximum Compression/Maximum

Tension TOP CHORD

1-2=0/51, 2-3=-961/154, 3-4=-735/247,

4-5=-735/247, 5-6=-961/154, 6-7=0/51,

2-12=-908/120, 6-8=-908/120 11-12=-314/386, 10-11=-107/760,

BOT CHORD 9-10=0/649, 8-9=-76/127

2-11=0/551, 6-9=0/556, 3-11=0/142,

5-9=0/142, 3-10=-371/245, 4-10=-211/606,

5-10=-371/245

NOTES

WEBS

- Unbalanced roof live loads have been considered for 1) this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=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
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.: Ce=1.0: Cs=1.00: Ct=1.10

- 4) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- All bearings are assumed to be SPF No.2
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 93 lb uplift at joint 12 and 93 lb uplift at joint 8.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



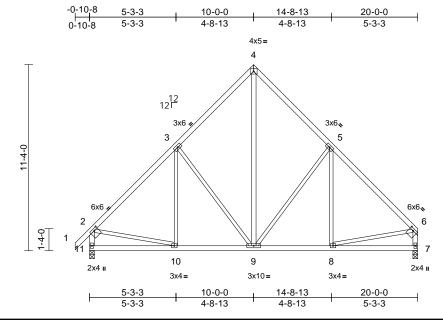
February 8,2024



Ply Truss Type Job Truss Qty Lot 17 TCR 230872 K3 Common Job Reference (optiona RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 163476812 LEE'S SUMMIT. MISSOURI

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.73 S Jan 4 2024 Print: 8.730 S Jan 4 2024 MiTek Industries, Inc. Tue Feb 06 14 ID:qg_Bv6MPYohpso?biPKkEGy6jcM-RfC?PsB70Hq3NSgPqnL8w3uITXbGl<mark>-</mark>WrCDoi**n-4z3c?**



Scale = 1:70.2

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.32	Vert(LL)	-0.03	8-9	>999	360	MT20	197/144
Snow (Pf/Pg)	15.4/20.0	Lumber DOL	1.15	BC	0.26	Vert(CT)	-0.05	9-10	>999	240		
TCDL	10.0	Rep Stress Incr	YES	WB	0.56	Horz(CT)	0.01	7	n/a	n/a		
BCLL	10.0*	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.02	9-10	>999	240		
BCDL	10.0										Weight: 101 lb	FT = 10%

LUMBER

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

WEBS 2x3 SPF No.2 *Except* 11-2,7-6,9-4:2x4 SPF

BRACING

TOP CHORD

Structural wood sheathing directly applied or

5-8-10 oc purlins, except end verticals.

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

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

Max Horiz 11=318 (LC 7)

Max Uplift 7=-88 (LC 10), 11=-93 (LC 10) Max Grav 7=934 (LC 22), 11=983 (LC 23)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/51, 2-3=-963/153, 3-4=-737/247,

4-5=-739/248, 5-6=-962/150, 2-11=-910/120,

6-7=-850/115

BOT CHORD 10-11=-324/369, 9-10=-117/748, 8-9=-13/641,

7-8=-59/103

WEBS 2-10=0/553, 6-8=-2/566, 3-10=0/142,

3-9=-371/245, 4-9=-213/612, 5-9=-379/247,

5-8=-4/140

NOTES

- Unbalanced roof live loads have been considered for 1) this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.: Ce=1.0: Cs=1.00: Ct=1.10

- 4) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- All bearings are assumed to be SPF No.2
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 93 lb uplift at joint 11 and 88 lb uplift at joint 7.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



February 8,2024



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

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



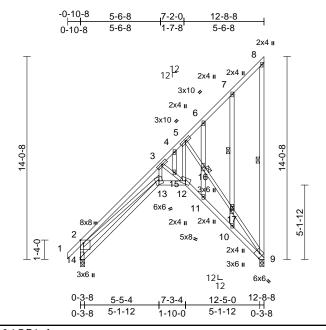
Job	Truss	Truss Type	Qty	Ply	Lot 17 TCR
230872	L1	Monopitch	2	1	Job Reference (optional)

S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 163476813 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.73 S Jan 4 2024 Print: 8.730 S Jan 4 2024 MiTek Industries, Inc. Tue Feb 06 14 ID:xY5XDhHaVSTRh7hU_DEs7Vy6jdl-RfC?PsB70Hq3NSgPqnL8w3ulTXbG (WrCDoix-42se-fi



Scale = 1:79.8

Plate Offsets (X, Y): [2:0-2-8,Edge], [9:0-2-7,Edge], [14:0-1-7,Edge]

Loading	(psf)	Spacing	2-0-0	csı		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.50	Vert(LL)	-0.14	13	>999	360	MT20	197/144
Snow (Pf/Pg)	15.4/20.0	Lumber DOL	1.15	BC	0.34	Vert(CT)	-0.25	13-14	>601	240		
TCDL	10.0	Rep Stress Incr	YES	WB	0.93	Horz(CT)	0.48	9	n/a	n/a		
BCLL	10.0*	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.21	13	>697	240		
BCDL	10.0										Weight: 95 lb	FT = 10%

LUMBER

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

WEBS 2x3 SPF No.2 *Except* 8-9:2x4 SPF No.2

OTHERS 2x4 SPF No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or

3-2-6 oc purlins, except end verticals.

BOT CHORD Rigid ceiling directly applied or 5-7-2 oc

bracing.

WEBS 1 Row at midpt 8-9, 7-17

JOINTS 1 Brace at Jt(s): 16,

TOP CHORD

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

Max Horiz 14=526 (LC 10)

Max Uplift 9=-409 (LC 10) Max Grav 9=726 (LC 22), 14=635 (LC 24)

FORCES (lb) - Maximum Compression/Maximum

Tension

2-14=-861/451, 1-2=0/48, 2-3=-2513/1121,

3-4=-1059/357, 4-5=-905/277, 5-6=-240/52, 6-7=-188/80, 7-8=-71/78, 8-9=-114/80

BOT CHORD 13-14=-872/533, 12-13=-1103/1682,

11-12=-711/1205, 10-11=-710/1202, 9-10=-684/1161

WEBS 2-13=-705/1813, 3-13=-934/1507,

3-15=-1197/852, 12-15=-1097/777, 5-12=-971/1576, 5-16=-1429/850, 16-17=-1468/874, 9-17=-1585/941, 4-15=-123/163, 6-16=-16/55, 11-16=0/64,

7-17=-134/141. 10-17=-14/62

NOTES

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

- 2) 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.
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- 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, with BCDL = 10.0psf.
- All bearings are assumed to be SPF No.2
- 10) Bearing at joint(s) 14, 9 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 409 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



February 8,2024



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

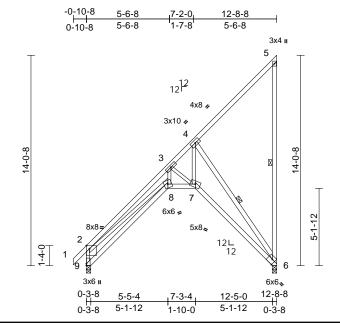
Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not



Truss Type Job Truss Qty Ply Lot 17 TCR 230872 L2 6 Monopitch Job Reference (optiona RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 163476814 LEE'S SUMMIT. MISSOURI

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.73 S Jan 4 2024 Print: 8.730 S Jan 4 2024 MiTek Industries, Inc. Tue Feb 06 14 ID:xY5XDhHaVSTRh7hU_DEs7Vy6jdl-RfC?PsB70Hq3NSgPqnL8w3ulTXbG (WrCDoix-42bc-f



Scale = 1:76.9

Plate Offsets (X, Y): [2:0-2-8,Edge], [6:0-2-7,Edge], [9:0-1-7,Edge]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.52	Vert(LL)	-0.14	8-9	>999	360	MT20	197/144
Snow (Pf/Pg)	15.4/20.0	Lumber DOL	1.15	BC	0.43	Vert(CT)	-0.25	8-9	>605	240		
TCDL	10.0	Rep Stress Incr	YES	WB	0.89	Horz(CT)	0.47	6	n/a	n/a		
BCLL	10.0*	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.21	8	>713	240		
BCDL	10.0										Weight: 79 lb	FT = 10%

LUMBER

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

WEBS 2x3 SPF No.2 *Except* 5-6,6-4:2x4 SPF No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or

3-1-13 oc purlins, except end verticals.

BOT CHORD Rigid ceiling directly applied or 5-7-9 oc

bracing.

WFBS 1 Row at midpt 5-6. 4-6

REACTIONS 6=0-3-8. 9=0-3-8 (size)

Max Horiz 9=526 (LC 10)

Max Uplift 6=-409 (LC 10) Max Grav 6=726 (LC 22), 9=635 (LC 24)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 2-9=-866/456, 1-2=0/48, 2-3=-2494/1102,

3-4=-999/305, 4-5=-199/126, 5-6=-185/162

BOT CHORD 8-9=-879/540, 7-8=-1086/1667,

6-7=-745/1275

WEBS 2-8=-679/1787, 3-8=-946/1492,

3-7=-1099/761, 4-7=-961/1706,

4-6=-1555/942

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left exposed; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.

- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- All bearings are assumed to be SPF No.2.
- Bearing at joint(s) 9, 6 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 409 lb uplift at joint
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



February 8,2024



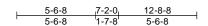


Ply Job Truss Truss Type Qty Lot 17 TCR 230872 L3 6 Monopitch Job Reference (optiona

Wheeler Lumber, Waverly, KS - 66871,

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 163476815 LEE'S SUMMIT. MISSOURI

Run: 8.73 S Jan 4 2024 Print: 8.730 S Jan 4 2024 MiTek Industries, Inc. Tue Feb 06 14 ID:qg_Bv6MPYohpso?biPKkEGy6jcM-RfC?PsB70Hq3NSgPqnL8w3uITXbGl<mark>-</mark>WrCDoi**n-4z3c?**



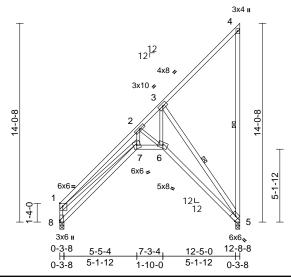


Plate Offsets (X, Y): [1:Edge,0-2-7], [5:0-2-7,Edge], [8:0-1-7,Edge]

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	0.74	Vert(LL)	-0.14	7	>999	360	MT20	197/144
Snow (Pf/Pg)	15.4/20.0	Lumber DOL	1.15	BC	0.43	Vert(CT)	-0.25	7-8	>593	240		
TCDL	10.0	Rep Stress Incr	YES	WB	0.99	Horz(CT)	0.48	5	n/a	n/a		
BCLL	10.0*	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.21	7	>698	240		
BCDL	10.0										Weight: 78 lb	FT = 10%

LUMBER

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

WEBS 2x3 SPF No.2 *Except* 4-5,5-3:2x4 SPF No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or

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

BOT CHORD Rigid ceiling directly applied or 5-7-5 oc

bracing.

WFBS 1 Row at midpt 4-5, 3-5

REACTIONS 5=0-3-8. 8=0-3-8 (size) Max Horiz 8=491 (LC 10)

Max Uplift 5=-407 (LC 10)

Max Grav 5=728 (LC 21), 8=601 (LC 23)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-8=-762/384, 1-2=-2523/1102,

2-3=-1014/309, 3-4=-199/127, 4-5=-185/162

BOT CHORD 7-8=-807/485, 6-7=-1093/1695, 5-6=-741/1279

WEBS 1-7=-751/1873, 2-7=-938/1505,

2-6=-1132/773, 3-6=-966/1730,

3-5=-1560/937

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left exposed; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 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, with BCDL = 10.0psf.
- All bearings are assumed to be SPF No.2 .
- Bearing at joint(s) 8, 5 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 407 lb uplift at joint
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



February 8,2024





Truss Type Job Truss Qty Ply Lot 17 TCR 230872 LAY1 Lay-In Gable 3 Job Reference (optiona

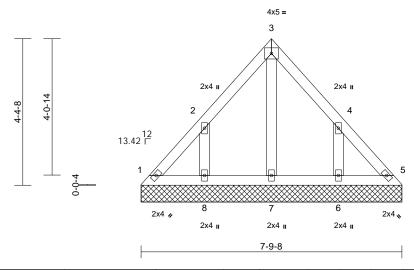
S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 163476816 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.73 S Jan 4 2024 Print: 8.730 S Jan 4 2024 MiTek Industries, Inc. Tue Feb 06 14 ID:xY5XDhHaVSTRh7hU_DEs7Vy6jdl-RfC?PsB70Hq3NSgPqnL8w3ulTXbG (WrCDoix-42bc-f





Scale = 1:34.4

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	0.06	Vert(LL)	n/a	-	n/a	999	MT20	197/144
Snow (Pf/Pg)	15.4/20.0	Lumber DOL	1.15	BC	0.03	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.03	Horiz(TL)	0.00	5	n/a	n/a		
BCLL	10.0*	Code	IRC2018/TPI2014	Matrix-P								
BCDL	10.0										Weight: 29 lb	FT = 10%

LUMBER

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

BRACING

Structural wood sheathing directly applied or TOP CHORD

6-0-0 oc purlins.

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

bracing.

REACTIONS (size) 1=7-9-8, 5=7-9-8, 6=7-9-8, 7=7-9-8,

8=7-9-8

Max Horiz 1=108 (LC 9) Max Uplift

1=-27 (LC 6), 5=-10 (LC 7), 6=-154 (LC 11), 8=-154 (LC 10)

1=108 (LC 23), 5=100 (LC 24), Max Grav

6=258 (LC 22), 7=152 (LC 24),

8=259 (LC 21)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-121/92, 2-3=-101/79, 3-4=-92/64,

4-5=-106/69

BOT CHORD 1-8=-45/94, 7-8=-45/94, 6-7=-45/94,

5-6=-45/94

WEBS 3-7=-82/0. 2-8=-189/178. 4-6=-189/178

NOTES

- Unbalanced roof live loads have been considered for 1) this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.

- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 2-0-0 oc. 6)
- 7) 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 8) on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- All bearings are assumed to be SPF No.2
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 27 lb uplift at joint 1, 10 lb uplift at joint 5, 154 lb uplift at joint 8 and 154 lb uplift at joint 6.
- 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



February 8,2024



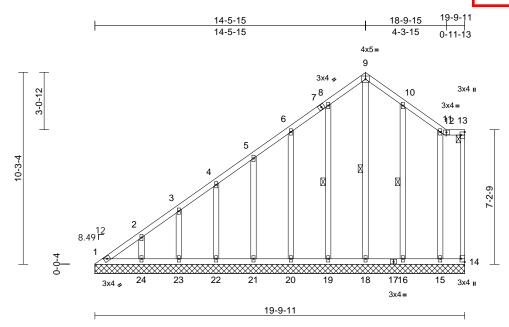
Job Truss Truss Type Qty Ply Lot 17 TCR 230872 LAY2 Lay-In Gable Job Reference (optional

S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 163476817 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.73 S Jan 4 2024 Print: 8.730 S Jan 4 2024 MiTek Industries, Inc. Tue Feb 06 14 ID:xY5XDhHaVSTRh7hU_DEs7Vy6jdl-RfC?PsB70Hq3NSgPqnL8w3ulTXbG (WrCDoix



Scale = 1:61.7

Plate Offsets	(X, Y):	[13:Edge,0-2-8],	[14:Edge,0-2-8]
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Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.42	Vert(LL)	n/a	-	n/a	999	MT20	197/144
Snow (Pf/Pg)	20.4/20.0	Lumber DOL	1.15	BC	0.10	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.13	Horiz(TL)	0.00	14	n/a	n/a		
BCLL	10.0*	Code	IRC2018/TPI2014	Matrix-S								
BCDL	10.0										Weight: 116 lb	FT = 10%

LU	M	В	E	R	

TOP CHORD 2x4 SPF No 2 BOT CHORD 2x4 SPF No.2 **WEBS** 2x3 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, and 2-0-0 oc purlins (6-0-0 max.): 12-13. Rigid ceiling directly applied or 10-0-0 oc

BOT CHORD

bracing. **WEBS** 1 Row at midpt 9-18, 8-19, 10-16 REACTIONS (size) 1=19-9-11, 14=19-9-11,

15=19-9-11, 16=19-9-11, 18=19-9-11, 19=19-9-11, 20=19-9-11, 21=19-9-11, 22=19-9-11, 23=19-9-11,

24=19-9-11 Max Horiz 1=355 (LC 7)

Max Uplift 1=-101 (LC 8), 14=-9 (LC 7), 15=-70 (LC 6), 16=-84 (LC 11) 18=-107 (LC 9), 19=-71 (LC 10), 20=-78 (LC 10), 21=-74 (LC 10), 22=-75 (LC 10), 23=-71 (LC 10),

24=-86 (LC 10)

1=201 (LC 22), 14=38 (LC 3), Max Grav 15=230 (LC 22), 16=222 (LC 22), 18=244 (LC 21), 19=231 (LC 21), 20=215 (LC 21), 21=218 (LC 21), 22=220 (LC 21), 23=209 (LC 21),

24=252 (LC 21)

(lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-351/265, 2-3=-308/234, 3-4=-275/210,

4-5=-256/202, 5-6=-235/196, 6-8=-218/194, 8-9=-192/180, 9-10=-174/163, 10-11=-146/123, 11-12=-124/93,

12-13=-98/74. 13-14=-70/62

1-24=-98/75, 23-24=-98/75, 22-23=-98/75, 21-22=-98/75, 20-21=-98/75, 19-20=-98/75, 18-19=-98/75, 16-18=-98/75, 15-16=-98/75,

14-15=-98/75

WERS 9-18=-187/150, 8-19=-161/96,

6-20=-145/101, 5-21=-148/98, 4-22=-149/99, 3-23=-143/96, 2-24=-167/108

10-16=-159/102, 11-15=-120/84

NOTES

BOT CHORD

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=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.
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0
- Provide adequate drainage to prevent water ponding. 6)
- 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.

- 10) * This truss has been designed for a live load of 20.0psf on the bottom chord in 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.
- 11) All bearings are assumed to be SPF No.2.
- 12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 9 lb uplift at joint 14, 101 lb uplift at joint 1, 107 lb uplift at joint 18, 71 lb uplift at joint 19, 78 lb uplift at joint 20, 74 lb uplift at joint 21, 75 lb uplift at joint 22, 71 lb uplift at joint 23, 86 lb uplift at joint 24, 84 lb uplift at joint 16 and 70 lb uplift at joint 15
- 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
- 14) 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



February 8,2024

FORCES



Job Truss Truss Type Qty Ply Lot 17 TCR 230872 LAY3 Lay-In Gable Job Reference (optiona

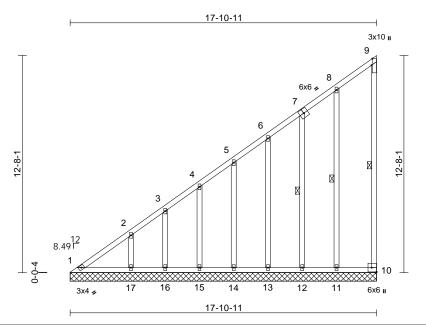
LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW

DEVELOPMENT SERVICES 163476818

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.73 S Jan 4 2024 Print: 8.730 S Jan 4 2024 MiTek Industries, Inc. Tue Feb 06 14 ID:PlfvR1ICGmbIIHGhYwl5gjy6jdk-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWCDoi7J42c?



Scale = 1:67.3

Plate Offsets (X, Y): [9:0-4-10,Edge], [10:Edge,0-3-8]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defI	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.40	Vert(LL)	n/a	-	n/a	999	MT20	197/144
Snow (Pf/Pg)	15.4/20.0	Lumber DOL	1.15	BC	0.29	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.16	Horiz(TL)	0.00	10	n/a	n/a		
BCLL	10.0*	Code	IRC2018/TPI2014	Matrix-S								
BCDL	10.0										Weight: 108 lb	FT = 10%

LUMBER

2x4 SPF No 2 TOP CHORD BOT CHORD 2x4 SPF No.2 **WEBS** 2x4 SPF 2400F 2.0E **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 9-10, 7-12, 8-11 REACTIONS (size) 1=17-10-11, 10=17-10-11, 11=17-10-11, 12=17-10-11,

13=17-10-11, 14=17-10-11, 15=17-10-11, 16=17-10-11,

17=17-10-11 Max Horiz 1=488 (LC 7)

Max Uplift 1=-90 (LC 8), 10=-113 (LC 9),

11=-97 (LC 10), 12=-63 (LC 10), 13=-80 (LC 10), 14=-72 (LC 10),

15=-78 (LC 10), 16=-59 (LC 10),

17=-119 (LC 10)

Max Grav 1=268 (LC 22), 10=136 (LC 21), 11=247 (LC 21), 12=215 (LC 21),

13=218 (LC 21), 14=216 (LC 21), 15=230 (LC 21), 16=170 (LC 21), 17=349 (LC 21)

FORCES (lb) - Maximum Compression/Maximum

TOP CHORD 1-2=-452/296, 2-3=-392/244, 3-4=-356/228,

4-5=-315/201, 5-6=-295/186, 6-8=-270/187, 8-9=-174/122, 9-10=-73/36 **BOT CHORD**

1-17=-175/133, 16-17=-175/133, 15-16=-175/133, 14-15=-175/133, 13-14=-175/133, 12-13=-175/133, 11-12=-175/133, 10-11=-175/133

WEBS

2-17=-228/147, 3-16=-120/82,

4-15=-155/102, 5-14=-146/98, 6-13=-150/96,

7-12=-136/117, 8-11=-204/130

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 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, with BCDL = 10.0psf.
- All bearings are assumed to be SPF No.2.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 113 lb uplift at joint 10, 90 lb uplift at joint 1, 119 lb uplift at joint 17, 59 lb uplift at joint 16, 78 lb uplift at joint 15, 72 lb uplift at joint 14, 80 lb uplift at joint 13, 63 lb uplift at joint 12 and 97 lb uplift at joint 11.
- 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



February 8,2024



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

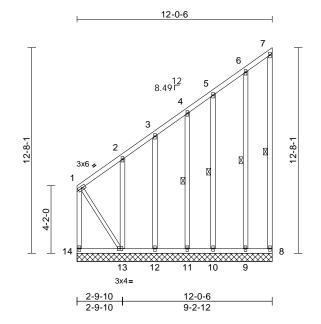


Job Truss Truss Type Qty Ply Lot 17 TCR 230872 LAY4 Lay-In Gable Job Reference (optiona S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 163476819 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.73 S Jan 4 2024 Print: 8.730 S Jan 4 2024 MiTek Industries, Inc. Tue Feb 06 14 ID:PlfvR1ICGmbIIHGhYwl5gjy6jdk-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWiCDoi7J42vC?



Scale = 1:71

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.05	Vert(LL)	n/a	-	n/a	999	MT20	197/144
Snow (Pf/Pg)	15.4/20.0	Lumber DOL	1.15	BC	0.02	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.15	Horiz(TL)	0.00	8	n/a	n/a		
BCLL	10.0*	Code	IRC2018/TPI2014	Matrix-S								
BCDL	10.0										Weight: 100 lb	FT = 10%

LUMBER

TOP CHORD 2x4 SPF 2100F 1.8E **BOT CHORD** 2x4 SPF 2400F 2.0E

WFBS 2x4 SPF 2100F 1.8E *Except* 7-8:2x4 SPF

No.2, 13-1:2x3 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 7-8, 6-9, 5-10, 4-11 REACTIONS (size) 8=12-0-6, 9=12-0-6, 10=12-0-6,

11=12-0-6, 12=12-0-6, 13=12-0-6,

14=12-0-6

Max Horiz 14=339 (LC 10)

Max Uplift 8=-25 (LC 10), 9=-66 (LC 10),

10=-69 (LC 10), 11=-65 (LC 10), 12=-71 (LC 10), 13=-601 (LC 10),

14=-198 (LC 8)

Max Grav 8=64 (LC 21), 9=208 (LC 21),

10=196 (LC 21), 11=194 (LC 21), 12=203 (LC 21), 13=429 (LC 21),

14=700 (LC 10)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-14=-683/220, 1-2=-380/151, 2-3=-289/111,

> 3-4=-221/90, 4-5=-157/67, 5-6=-94/56, 6-7=-42/20, 7-8=-44/30

BOT CHORD 13-14=-338/124, 12-13=0/0, 11-12=0/0,

10-11=0/0, 9-10=0/0, 8-9=0/0

WEBS 2-13=-193/128, 3-12=-139/94, 6-9=-139/92,

5-10=-135/90, 4-11=-131/87, 1-13=-221/604

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 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, with BCDL = 10.0psf.
- 10) All bearings are assumed to be SPF No.2
- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 198 lb uplift at joint 14, 25 lb uplift at joint 8, 601 lb uplift at joint 13, 71 lb uplift at joint 12, 66 lb uplift at joint 9, 69 lb uplift at joint 10 and 65 lb uplift at joint 11.
- 12) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



February 8,2024



NOTES



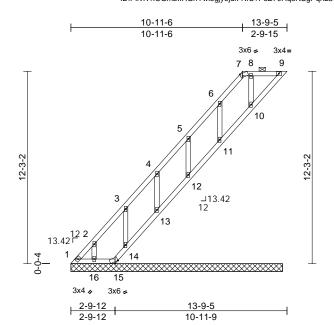
Job Truss Truss Type Qty Ply Lot 17 TCR 230872 LAY5 Lay-In Gable Job Reference (optional

Wheeler Lumber, Waverly, KS - 66871,

LEE'S SUMMIT. MISSOURI Run: 8.73 S Jan 4 2024 Print: 8.730 S Jan 4 2024 MiTek Industries, Inc. Tue Feb 06 14 ID:PlfvR1ICGmbIIHGhYwl5gjy6jdk-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWiCDoi7J42d

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW

DEVELOPMENT SERVICES 163476820



Scale = 1:73.4

Plate Offsets (X, Y): [7:0-1-9,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	0.06	Vert(LL)	n/a	-	n/a	999	MT20	197/144
Snow (Pf/Pg)	20.4/20.0	Lumber DOL	1.15	BC	0.03	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.03	Horiz(TL)	-0.01	9	n/a	n/a		
BCLL	10.0*	Code	IRC2018/TPI2014	Matrix-S								
BCDL	10.0										Weight: 58 lb	FT = 10%

LUMBER

2x4 SPF No 2 TOP CHORD 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, except 2-0-0 oc purlins (6-0-0 max.): 7-9.

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

bracing, Except:

6-0-0 oc bracing: 9-10.

REACTIONS (size)

1=13-5-13, 9=13-5-13, 10=13-5-13, 11=13-5-13, 12=13-5-13, 13=13-5-13. 14=13-5-13. 15=13-5-13, 16=13-5-13

Max Horiz 1=488 (LC 10)

Max Uplift 1=-134 (LC 8), 9=-120 (LC 10),

10=-24 (LC 6), 11=-113 (LC 10), 12=-143 (LC 10), 13=-132 (LC 10),

14=-154 (LC 10), 15=-40 (LC 8), 16=-122 (LC 10)

1=409 (LC 10), 9=95 (LC 21), Max Grav

10=218 (LC 23), 11=226 (LC 21), 12=241 (LC 21), 13=239 (LC 21),

14=232 (LC 21), 15=129 (LC 10), 16=203 (LC 21)

FORCES (lb) - Maximum Compression/Maximum

TOP CHORD 1-2=-556/219, 2-3=-444/177, 3-4=-303/123,

4-5=-169/79, 5-6=-64/41, 6-7=-81/108,

7-8=-42/101, 8-9=-42/101 **BOT CHORD** 1-16=-101/42, 15-16=-101/42,

14-15=-159/77, 13-14=-160/81,

12-13=-161/79, 11-12=-160/80, 10-11=-161/81, 9-10=-160/76

WEBS

2-16=-147/136, 3-14=-172/164, 4-13=-166/157, 5-12=-171/167,

6-11=-158/137, 8-10=-148/48

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

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

Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1

TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0

- Provide adequate drainage to prevent water ponding.
- 6) All plates are 2x4 MT20 unless otherwise indicated.
- 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.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- All bearings are assumed to be SPF No.2
- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 134 lb uplift at joint 1, 120 lb uplift at joint 9, 40 lb uplift at joint 15, 122 lb uplift at joint 16, 154 lb uplift at joint 14, 132 lb uplift at joint 13, 143 lb uplift at joint 12, 113 lb uplift at joint 11 and 24 lb uplift at joint 10.
- Non Standard bearing condition. Review required.

- 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.
- 14) 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



February 8,2024



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

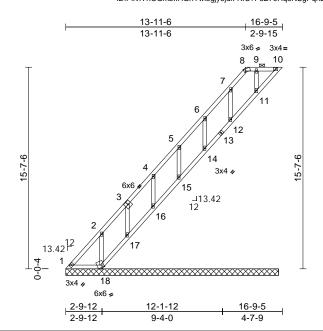


Job	Truss	Truss Type	Qty	Ply	Lot 17 TCR
230872	LAY6	Lay-In Gable	2	1	Job Reference (optional)

Wheeler Lumber, Waverly, KS - 66871,

LEE'S SUMMIT. MISSOURI Run: 8.73 S Jan 4 2024 Print: 8.730 S Jan 4 2024 MiTek Industries, Inc. Tue Feb 06 14 🕰 ID:PlfvR1ICGmbIIHGhYwl5gjy6jdk-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWlCDoi7J42c?

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 163476821



Scale = 1:89.2

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.10	Vert(LL)	n/a	-	n/a	999	MT20	197/144
Snow (Pf/Pg)	20.4/20.0	Lumber DOL	1.15	BC	0.05	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.03	Horiz(TL)	-0.01	10	n/a	n/a		
BCLL	10.0*	Code	IRC2018/TPI2014	Matrix-S								
BCDL	10.0										Weight: 73 lb	FT = 10%

LUMBER

2x4 SPF No 2 TOP CHORD 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, except 2-0-0 oc purlins (6-0-0 max.): 8-10.

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

bracing, Except:

6-0-0 oc bracing: 12-14,10-11.

REACTIONS (size)

1=16-5-13. 10=16-5-13. 11=16-5-13, 12=16-5-13, 14=16-5-13. 15=16-5-13. 16=16-5-13, 17=16-5-13,

18=16-5-13

Max Horiz 1=625 (LC 10)

Max Uplift 1=-133 (LC 8), 10=-150 (LC 10), 11=-30 (LC 6), 12=-75 (LC 10),

14=-152 (LC 10), 15=-130 (LC 10), 16=-142 (LC 10), 17=-125 (LC 10),

18=-34 (LC 10)

Max Grav 1=493 (LC 10), 10=94 (LC 21), 11=214 (LC 23), 12=214 (LC 21),

14=244 (LC 21), 15=235 (LC 21), 16=245 (LC 21), 17=224 (LC 21),

18=244 (LC 21)

FORCES (lb) - Maximum Compression/Maximum

Tension

1-2=-683/275, 2-4=-521/205, 4-5=-255/107,

5-6=-122/66, 6-7=-67/51, 7-8=-87/131, 8-9=-47/120, 9-10=-47/120

BOT CHORD 1-18=-126/52, 17-18=-191/92

16-17=-189/88, 15-16=-189/88, 14-15=-189/88, 12-14=-188/88, 11-12=-189/88, 10-11=-186/79

WEBS

9-11=-144/53, 7-12=-144/100, 6-14=-174/176, 5-15=-165/155, 4-16=-175/166, 3-17=-151/146,

2-18=-206/190

NOTES

- Unbalanced roof live loads have been considered for 1) this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0
- Provide adequate drainage to prevent water ponding.
- 6) All plates are 2x4 MT20 unless otherwise indicated.
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom 8) 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, with BCDL = 10.0psf.
- 10) All bearings are assumed to be SPF No.2.
- 11) Bearing at joint(s) 10, 11, 12 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.

- 12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 150 lb uplift at joint 10, 133 lb uplift at joint 1, 30 lb uplift at joint 11, 75 lb uplift at joint 12, 152 lb uplift at joint 14, 130 lb uplift at joint 15, 142 lb uplift at joint 16, 125 lb uplift at joint 17 and 34 lb uplift at joint 18.
- 13) Non Standard bearing condition. Review required.
- 14) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 15) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard



February 8,2024



TOP CHORD

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



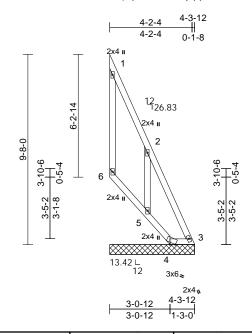
Job	Truss	Truss Type	Qty	Ply	Lot 17 TCR
230872	LAY7	Lay-In Gable	1	1	Job Reference (optional)

S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 163476822 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.73 S Jan 4 2024 Print: 8.730 S Jan 4 2024 MiTek Industries, Inc. Tue Feb 06 14 2248 ID:txDleNJq13j9wQrt5eGKDwy6jdj-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWCDoi7J42dC



Scale = 1:58.6

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	0.23	Vert(LL)	n/a	-	n/a	999	MT20	197/144
Snow (Pf/Pg)	15.4/20.0	Lumber DOL	1.15	BC	0.08	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.10	Horiz(TL)	0.01	3	n/a	n/a		
BCLL	10.0*	Code	IRC2018/TPI2014	Matrix-P								
BCDL	10.0										Weight: 29 lb	FT = 10%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or

4-3-14 oc purlins, except end verticals. BOT CHORD Rigid ceiling directly applied or 6-0-0 oc

bracing.

REACTIONS (size) 3=4-3-12, 4=4-3-12, 5=4-3-12,

6=4-3-12

Max Horiz 6=-290 (LC 6)

Max Uplift 3=-339 (LC 9), 4=-351 (LC 11), 5=-531 (LC 11), 6=-74 (LC 9)

Max Grav 3=487 (LC 11), 4=268 (LC 9),

5=432 (LC 22), 6=329 (LC 11)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-6=-174/201, 1-2=-248/181, 2-3=-561/445 5-6=-335/464, 4-5=-333/481, 3-4=-213/306

BOT CHORD

WFBS 2-5=-376/573

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 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, with BCDL = 10.0psf.
- All bearings are assumed to be SPF No.2.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 74 lb uplift at joint 6, 339 lb uplift at joint 3, 351 lb uplift at joint 4 and 531 lb uplift at joint 5.
- 10) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 6, 5.
- 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



February 8,2024



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

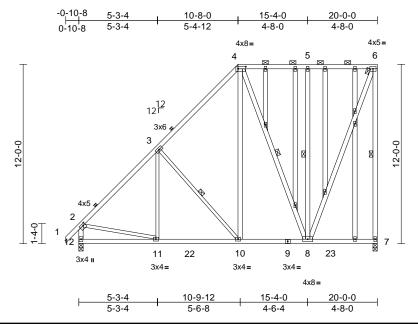
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not



Job Truss Truss Type Qty Ply Lot 17 TCR 230872 M1 Piggyback Base Structural Gable 2 Job Reference (optiona RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 163476823 LEE'S SUMMIT. MISSOURI

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.73 S Jan 4 2024 Print: 8.730 S Jan 4 2024 MiTek Industries, Inc. Tue Feb 06 14 ID:IsXZ6SN1J6pgUyanF6sznUy6jcL-RfC?PsB70Hq3NSgPqnL8w3uITXbGK\ /rCDoi7J42JC



Scale = 1:77.2

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

Loading	(psf)	Spacing	2-0-0	csı		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.58	Vert(LL)	-0.06	10-11	>999	360	MT20	197/144
Snow (Pf/Pg)	20.4/20.0	Lumber DOL	1.15	BC	0.41	Vert(CT)	-0.10	10-11	>999	240		
TCDL	10.0	Rep Stress Incr	YES	WB	0.54	Horz(CT)	0.01	7	n/a	n/a		
BCLL	10.0*	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.02	10-11	>999	240		
BCDL	10.0										Weight: 174 lb	FT = 10%

LUMBER

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

WEBS 2x4 SPF No.2 *Except* 3-11,10-3,11-2:2x3

SPF No.2 **OTHERS** 2x4 SPF No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or

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

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

bracing, Except:

8-3-10 oc bracing: 11-12. **WEBS** 1 Row at midpt 6-7, 3-10, 5-8, 4-8

REACTIONS (size) 7=0-3-8 12=0-3-8

Max Horiz 12=451 (LC 10)

Max Uplift 7=-197 (LC 7), 12=-11 (LC 10)

Max Grav 7=1139 (LC 3), 12=1170 (LC 22)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/51, 2-3=-1117/8, 3-4=-804/91

4-5=-355/70, 5-6=-354/70, 6-7=-1015/219,

2-12=-1058/38

BOT CHORD 11-12=-507/269, 10-11=-327/803,

8-10=-148/502, 7-8=-1/4

WEBS 3-11=0/277, 3-10=-466/272, 4-10=-144/634, 6-8=-194/972, 2-11=0/651, 5-8=-363/164,

4-8=-447/212

NOTES

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

- 2) 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.
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0
- This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- Provide adequate drainage to prevent water ponding.
- All plates are 2x4 MT20 unless otherwise indicated.
- Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- Gable studs spaced at 2-0-0 oc.
- 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.
- 11) All bearings are assumed to be SPF No.2
- 12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 197 lb uplift at joint 7 and 11 lb uplift at joint 12.
- 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.
- 14) 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



February 8,2024



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

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



Job Truss Truss Type Qty Ply Lot 17 TCR 230872 M2 6 Piggyback Base Job Reference (optiona

DEVELOPMENT SERVICES 163476824 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.73 S Jan 4 2024 Print: 8.730 S Jan 4 2024 MiTek Industries, Inc. Tue Feb 06 14 ID:IsXZ6SN1J6pgUyanF6sznUy6jcL-RfC?PsB70Hq3NSgPqnL8w3uITXbGK

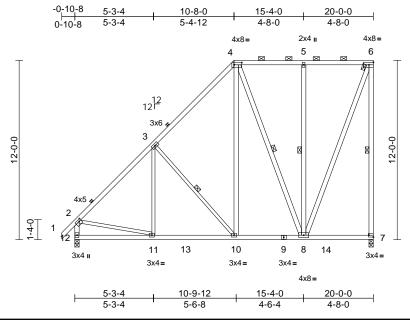


Plate Offsets (X, Y): [2:0-1-12,0-1-8], [4:0-6-4,0-1-12], [7:Edge,0-1-8]

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	0.44	Vert(LL)	-0.06	10-11	>999	360	MT20	197/144
Snow (Pf/Pg)	20.4/20.0	Lumber DOL	1.15	BC	0.41	Vert(CT)	-0.09	10-11	>999	240		
TCDL	10.0	Rep Stress Incr	YES	WB	0.66	Horz(CT)	-0.01	7	n/a	n/a		
BCLL	10.0*	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	-0.03	7-8	>999	240		
BCDL	10.0										Weight: 136 lb	FT = 10%

LUMBER

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

WEBS 2x4 SPF No.2 *Except* 6-7:2x4 SPF 2400F 2.0E, 3-11,10-3,11-2:2x3 SPF No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or

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

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

bracing, Except:

8-5-13 oc bracing: 11-12.

WEBS 1 Row at midpt 6-7, 3-10, 5-8, 4-8

REACTIONS (size) 7=0-3-8, 12=0-3-8 Max Horiz 12=483 (LC 7)

Max Uplift 7=-255 (LC 7), 12=-80 (LC 10) Max Grav 7=1139 (LC 3), 12=1163 (LC 3)

FORCES (lb) - Maximum Compression/Maximum

TOP CHORD

Tension

1-2=0/51, 2-3=-1143/89, 3-4=-834/179, 4-5=-405/160, 5-6=-404/160, 6-7=-1015/251,

2-12=-1051/107

BOT CHORD 11-12=-485/359, 10-11=-318/868,

8-10=-238/565, 7-8=-166/126

WEBS 3-11=0/277, 3-10=-469/263, 4-10=-128/639,

6-8=-239/970, 2-11=-6/681, 5-8=-361/179,

4-8=-475/146

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0

- 3) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- All bearings are assumed to be SPF No.2
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 255 lb uplift at joint 7 and 80 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.
- 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



February 8,2024



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

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



Job Truss Truss Type Qty Ply Lot 17 TCR 230872 **M3** 14 Piggyback Base Job Reference (optiona

S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 163476825 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.73 S Jan 4 2024 Print: 8.730 S Jan 4 2024 MiTek Industries, Inc. Tue Feb 06 14 ID:IsXZ6SN1J6pgUyanF6sznUy6jcL-RfC?PsB70Hq3NSgPqnL8w3uITXbGK /rCDoi7J

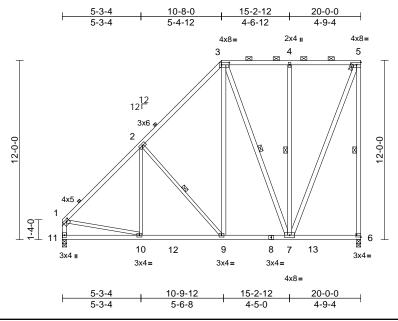


Plate Offsets (X, Y): [1:0-2-0,0-1-8], [3:0-6-4,0-1-12], [6:Edge,0-1-8]

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	0.44	Vert(LL)	-0.06	9-10	>999	360	MT20	197/144
Snow (Pf/Pg)	20.4/20.0	Lumber DOL	1.15	BC	0.41	Vert(CT)	-0.09	9-10	>999	240		
TCDL	10.0	Rep Stress Incr	YES	WB	0.67	Horz(CT)	-0.01	6	n/a	n/a		
BCLL	10.0*	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	-0.03	6-7	>999	240		
BCDL	10.0										Weight: 134 lb	FT = 10%

LUMBER

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

WEBS 2x4 SPF No.2 *Except* 5-6:2x4 SPF 2400F 2.0E, 2-10,9-2,10-1:2x3 SPF No.2

BRACING TOP CHORD

Structural wood sheathing directly applied or

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

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

bracing, Except:

8-8-5 oc bracing: 10-11.

WEBS 1 Row at midpt 5-6, 2-9, 4-7, 3-7

REACTIONS (size) 6=0-3-8, 11=0-3-8

Max Horiz 11=465 (LC 9) Max Uplift 6=-255 (LC 7), 11=-57 (LC 10)

Max Grav 6=1141 (LC 3), 11=1116 (LC 24)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-1145/82, 2-3=-836/180, 3-4=-410/161,

4-5=-409/161, 5-6=-1013/252, 1-11=-1004/83 **BOT CHORD** 10-11=-462/339, 9-10=-318/874,

7-9=-238/566, 6-7=-166/126

WEBS 2-10=0/276, 2-9=-477/265, 3-9=-130/641,

5-7=-238/967, 1-10=-4/690, 4-7=-361/179,

3-7=-467/144

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.: Ce=1.0: Cs=1.00: Ct=1.10. Lu=50-0-0
- Provide adequate drainage to prevent water ponding.

- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- All bearings are assumed to be SPF No.2.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 255 lb uplift at joint 6 and 57 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



February 8,2024



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

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



Job Truss Truss Type Qty Ply Lot 17 TCR 230872 N₁ Roof Special Job Reference (optiona

S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 163476826 LEE'S SUMMIT. MISSOURI

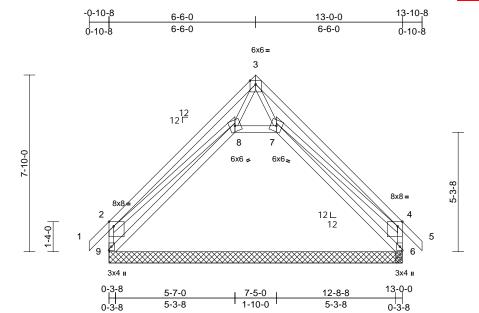
RELEASE FOR CONSTRUCTION

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.73 S Jan 4 2024 Print: 8.730 S Jan 4 2024 MiTek Industries, Inc. Tue Feb 06 14 ID:HWvQGOLjK_5knuaSnmq1qZy6jdg-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoFd4250?

0-3-8

5-3-8



Scale = 1:51.1

Plate Offsets (X, Y): [2:0-2-8,Edge], [4:0-2-8,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	0.62	Vert(LL)	-0.04	6-7	>999	360	MT20	197/144
Snow (Pf/Pg)	15.4/20.0	Lumber DOL	1.15	BC	0.25	Vert(CT)	-0.09	6-7	>755	240		
TCDL	10.0	Rep Stress Incr	YES	WB	0.28	Horz(CT)	0.01	6	n/a	n/a		
BCLL	10.0*	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	-0.01	6-7	>999	240		
BCDL	10.0										Weight: 62 lb	FT = 10%

1-10-0

LUMBER

2x4 SPF No 2 TOP CHORD **BOT CHORD** 2x4 SPF No 2 **WEBS** 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 9-2-14 oc

bracing.

REACTIONS (size) 6=13-0-0, 7=13-0-0, 8=13-0-0,

9=13-0-0

Max Horiz 9=-239 (LC 8)

Max Uplift 6=-202 (LC 11), 7=-71 (LC 7),

9=-193 (LC 11)

6=425 (LC 23), 7=449 (LC 22), Max Grav 8=366 (LC 22), 9=422 (LC 23)

(lb) - Maximum Compression/Maximum

Tension TOP CHORD

2-9=-505/362, 1-2=0/48, 2-3=-272/170, 3-4=-272/173, 4-5=0/48, 4-6=-511/364

BOT CHORD 8-9=-398/572, 7-8=-82/201, 6-7=-205/327 WEBS 3-7=-227/119, 4-7=-205/232, 3-8=-222/112,

2-8=-204/231

NOTES

FORCES

- 1) Unbalanced roof live loads have been considered for this design
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10

- 4) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- All bearings are assumed to be SPF No.2
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 193 lb uplift at joint 9, 202 lb uplift at joint 6 and 71 lb uplift at joint 7.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

5-3-8



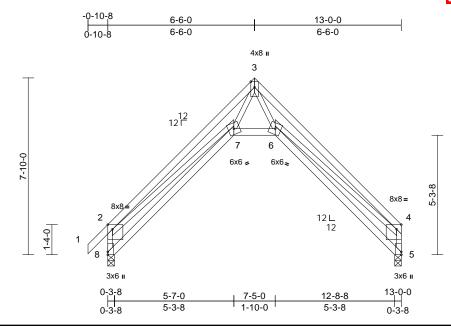
February 8,2024



Job Truss Truss Type Qty Ply Lot 17 TCR 230872 N2 Roof Special Job Reference (optiona RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 163476827 LEE'S SUMMIT. MISSOURI

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.73 S Jan 4 2024 Print: 8.730 S Jan 4 2024 MiTek Industries, Inc. Tue Feb 06 14 ID:iRDhlUPwb1BFLPIMxFPgP6y6jcl-RfC?PsB70Hq3NSgPqnL8w3ulTXbGK\ VrCDoi7J42J69



Scale = 1:51

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.65	Vert(LL)	-0.18	6-7	>875	360	MT20	197/144
Snow (Pf/Pg)	15.4/20.0	Lumber DOL	1.15	BC	0.29	Vert(CT)	-0.31	6-7	>492	240		
TCDL	10.0	Rep Stress Incr	YES	WB	0.54	Horz(CT)	0.63	5	n/a	n/a		
BCLL	10.0*	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.11	6-7	>999	240		
BCDL	10.0										Weight: 60 lb	FT = 10%

LUMBER

2x4 SPF 2100F 1.8E TOP CHORD **BOT CHORD** 2x4 SPF No 2 **WEBS** 2x3 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 9-2-3 oc

bracing.

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

Max Horiz 8=230 (LC 7)

Max Uplift 5=-61 (LC 10), 8=-64 (LC 11)

Max Grav 5=611 (LC 22), 8=659 (LC 23)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 2-8=-923/309, 1-2=0/48, 2-3=-2536/172,

3-4=-2558/215, 4-5=-657/156

BOT CHORD 7-8=-404/590, 6-7=-138/1130, 5-6=-135/281

WEBS 3-6=-83/1611, 4-6=-253/2031,

3-7=-195/1702, 2-7=0/1762

NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- 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.
- All bearings are assumed to be SPF No.2.
- Bearing at joint(s) 8, 5 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 64 lb uplift at joint 8 and 61 lb uplift at joint 5.
- 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



February 8,2024



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

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

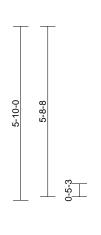


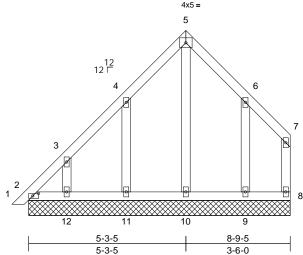
Job Truss Truss Type Qty Ply Lot 17 TCR 230872 Р1 Piggyback 2 Job Reference (optiona RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 163476828 LEE'S SUMMIT. MISSOURI

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.73 S Jan 4 2024 Print: 8.730 S Jan 4 2024 MiTek Industries, Inc. Tue Feb 06 14 ID:L7ngsiKToNr0YaQ3fLoZl8y6jdi-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4296?







Scale = 1:38.7

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.07	Vert(LL)	n/a	-	n/a	999	MT20	197/144
Snow (Pf/Pg)	15.4/20.0	Lumber DOL	1.15	BC	0.02	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.09	Horz(CT)	0.00	8	n/a	n/a		
BCLL	10.0*	Code	IRC2018/TPI2014	Matrix-P								
BCDL	10.0										Weight: 42 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

REACTIONS (size) 2=8-9-5, 8=8-9-5, 9=8-9-5, 10=8-9-5, 11=8-9-5, 12=8-9-5

Max Horiz 2=172 (LC 7)

Max Uplift 2=-109 (LC 6), 8=-32 (LC 6),

9=-122 (LC 11), 10=-75 (LC 9), 11=-133 (LC 10), 12=-107 (LC 10)

Max Grav 2=160 (LC 23), 8=71 (LC 23),

9=233 (LC 23), 10=238 (LC 22) 11=255 (LC 22), 12=204 (LC 22)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/15, 2-3=-206/186, 3-4=-173/163,

4-5=-141/152, 5-6=-117/131, 6-7=-54/55,

7-8=-55/38 **BOT CHORD**

2-12=-28/22, 11-12=-28/22, 10-11=-28/22, 9-10=-28/22, 8-9=-28/22

WEBS 5-10=-182/116, 4-11=-184/157, 3-12=-141/129, 6-9=-168/144

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.
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- 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.
- 10) * This truss has been designed for a live load of 20.0psf on the bottom chord in 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.
- 11) All bearings are assumed to be SPF No.2
- 12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 32 lb uplift at joint 8, 109 lb uplift at joint 2, 75 lb uplift at joint 10, 133 lb uplift at joint 11, 107 lb uplift at joint 12 and 122 lb uplift at joint 9.
- 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.
- 14) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

LOAD CASE(S) Standard



February 8,2024

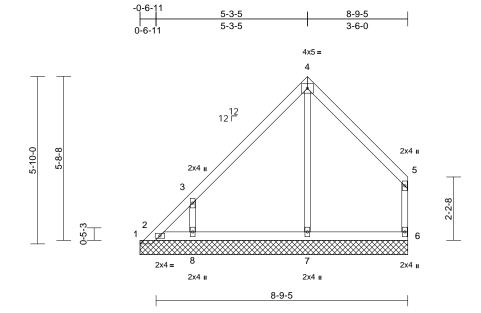


Truss Type Job Truss Qty Ply Lot 17 TCR 230872 P2 Piggyback 16 Job Reference (optiona S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 163476829 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.73 S Jan 4 2024 Print: 8.730 S Jan 4 2024 MiTek Industries, Inc. Tue Feb 06 14 ID:pJL232K5Zhzt9k?GD3JoILy6jdh-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J



Scal	le	=	1	:4	0	1.2

Loading	(psf)	Spacing	2-0-0	csı		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.23	Vert(LL)	n/a	-	n/a	999	MT20	197/144
Snow (Pf/Pg)	15.4/20.0	Lumber DOL	1.15	BC	0.10	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.18	Horiz(TL)	0.00	6	n/a	n/a		
BCLL	10.0*	Code	IRC2018/TPI2014	Matrix-P								
BCDL	10.0										Weight: 32 lb	FT = 10%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or

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

BOT CHORD bracing.

REACTIONS (size)

1=9-4-0, 2=9-4-0, 6=9-4-0, 7=9-4-0,

8=9-4-0 Max Horiz 1=173 (LC 7)

1=-81 (LC 6), 2=-169 (LC 22), Max Uplift 6=-89 (LC 11), 7=-26 (LC 7),

8=-284 (LC 10)

Max Grav 1=157 (LC 23), 2=173 (LC 10),

6=200 (LC 23), 7=417 (LC 22),

8=487 (LC 22)

FORCES (lb) - Maximum Compression/Maximum

Tension

1-2=-215/164, 2-3=-240/245, 3-4=-199/158,

4-5=-111/97, 5-6=-156/104

BOT CHORD 2-8=-28/21, 7-8=-28/21, 6-7=-28/21

WEBS 4-7=-269/77, 3-8=-371/324

NOTES

TOP CHORD

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

- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 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 7) chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- All bearings are assumed to be SPF No.2
- 10) Bearing at joint(s) 1, 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 81 lb uplift at joint 1, 89 lb uplift at joint 6, 169 lb uplift at joint 2, 26 lb uplift at joint 7 and 284 lb uplift at joint 8.
- 12) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 13) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

LOAD CASE(S) Standard



February 8,2024



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

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



Job Truss Truss Type Qty Ply Lot 17 TCR 230872 Р3 Piggyback 2 Job Reference (optiona

S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 163476830 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.73 S Jan 4 2024 Print: 8.730 S Jan 4 2024 MiTek Industries, Inc. Tue Feb 06 14 ID:pJL232K5Zhzt9k?GD3JoILy6jdh-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKW<mark>r</mark>CDoi7J²

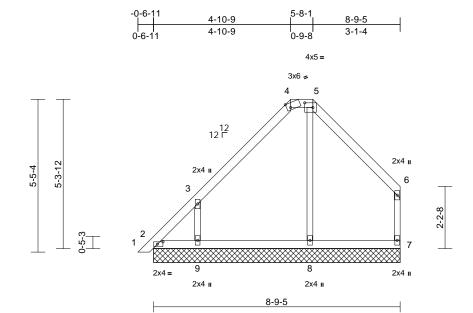


Plate Offsets (X, Y): [2:0-2-6,0-1-0], [4:0-1-11,Edge], [5:0-3-8,0-2-0]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.19	Vert(LL)	n/a	-	n/a	999	MT20	197/144
Snow (Pf/Pg)	20.4/20.0	Lumber DOL	1.15	BC	0.09	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.14	Horz(CT)	0.00	7	n/a	n/a		
BCLL	10.0*	Code	IRC2018/TPI2014	Matrix-S								
BCDL	10.0										Weight: 31 lb	FT = 10%

LUMBER

2x4 SPF No.2 TOP CHORD **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, and

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

BOT CHORD bracing.

REACTIONS 2=8-9-5, 7=8-9-5, 8=8-9-5, 9=8-9-5 (size)

Max Horiz 2=161 (LC 7)

Max Uplift 2=-120 (LC 6), 7=-77 (LC 11), 8=-20 (LC 7), 9=-191 (LC 10)

2=152 (LC 9), 7=188 (LC 23), 8=352 (LC 22), 9=424 (LC 22)

FORCES (lb) - Maximum Compression/Maximum

Tension

1-2=0/15, 2-3=-204/187, 3-4=-181/124, 4-5=-69/111, 5-6=-128/94, 6-7=-148/92

BOT CHORD 2-9=-29/27, 8-9=-29/27, 7-8=-30/30 WEBS 5-8=-222/74, 3-9=-311/236

NOTES

TOP CHORD

- Unbalanced roof live loads have been considered for 1)
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 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) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0
- This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- Provide adequate drainage to prevent water ponding.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 10) * This truss has been designed for a live load of 20.0psf on the bottom chord in 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.
- 11) All bearings are assumed to be SPF No.2
- 12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 77 lb uplift at joint 7, 120 lb uplift at joint 2, 20 lb uplift at joint 8 and 191 lb uplift at joint 9.
- 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.
- 14) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.
- 15) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord

LOAD CASE(S) Standard



February 8,2024



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

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

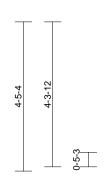


Job Truss Truss Type Qty Ply Lot 17 TCR 230872 Ρ4 Piggyback 2 Job Reference (optiona RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 163476831 LEE'S SUMMIT. MISSOURI

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.73 S Jan 4 2024 Print: 8.730 S Jan 4 2024 MiTek Industries, Inc. Tue Feb 06 14 ID:pJL232K5Zhzt9k?GD3JoILy6jdh-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKW<mark>r</mark>CDoi7J





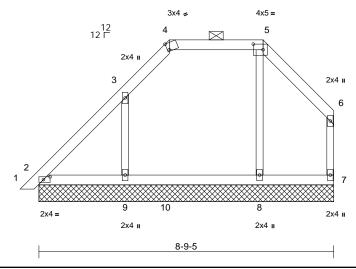


Plate Offsets (X, Y): [2:0-2-6,0-1-0], [4:0-0-11,Edge], [5:0-3-8,0-2-0]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.18	Vert(LL)	n/a	-	n/a	999	MT20	197/144
Snow (Pf/Pg)	20.4/20.0	Lumber DOL	1.15	BC	0.14	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.08	Horz(CT)	0.00	7	n/a	n/a		
BCLL	10.0*	Code	IRC2018/TPI2014	Matrix-S								
BCDL	10.0										Weight: 30 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, and

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

BOT CHORD bracing.

REACTIONS 2=8-9-5, 7=8-9-5, 8=8-9-5, 9=8-9-5 (size)

Max Horiz 2=135 (LC 9)

Max Uplift 2=-56 (LC 6), 7=-41 (LC 10),

9=-107 (LC 7)

Max Grav 2=176 (LC 23), 7=121 (LC 23),

8=356 (LC 31), 9=489 (LC 22)

FORCES (lb) - Maximum Compression/Maximum

Tension

1-2=0/15, 2-3=-146/134, 3-4=-128/77, 4-5=-48/66, 5-6=-91/64, 6-7=-101/51

BOT CHORD 2-9=-37/25, 8-9=-37/25, 7-8=-37/25

WEBS 5-8=-185/53, 3-9=-277/150

NOTES

TOP CHORD

- Unbalanced roof live loads have been considered for 1)
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 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) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0
- This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- Provide adequate drainage to prevent water ponding.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 10) * This truss has been designed for a live load of 20.0psf on the bottom chord in 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.
- 11) All bearings are assumed to be SPF No.2
- 12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 41 lb uplift at joint 56 lb uplift at joint 2 and 107 lb uplift at joint 9.
- 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.
- See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.
- 15) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or

LOAD CASE(S) Standard



February 8,2024



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

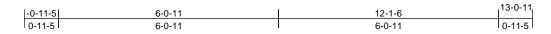
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not

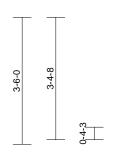


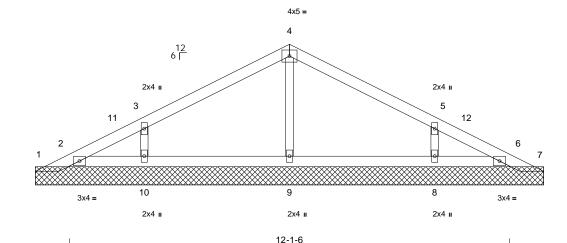
Ply Truss Type Job Truss Qty Lot 17 TCR 230872 Р8 Piggyback 12 Job Reference (optiona RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 163476832 LEE'S SUMMIT. MISSOURI

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.73 S Jan 4 2024 Print: 8.730 S Jan 4 2024 MiTek Industries, Inc. Tue Feb 06 14 ID:asq4lnR6g8_k7zcohkSgc1y6jdZ-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4







Scale	=	1:31	.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	0.19	Vert(LL)	n/a	-	n/a	999	MT20	197/144
Snow (Pf/Pg)	15.4/20.0	Lumber DOL	1.15	BC	0.10	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.06	Horiz(TL)	0.00	7	n/a	n/a		
BCLL	10.0*	Code	IRC2018/TPI2014	Matrix-S								
BCDL	10.0										Weight: 35 lb	FT = 10%

LUMBER

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

BRACING

Structural wood sheathing directly applied or TOP CHORD

6-0-0 oc purlins.

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

bracing.

REACTIONS (size)

1=14-0-0, 2=14-0-0, 6=14-0-0, 7=14-0-0, 8=14-0-0, 9=14-0-0, 10=14-0-0

Max Horiz 1=59 (LC 12)

Max Uplift 1=-26 (LC 13), 2=-3 (LC 12), 7=-10

(LC 13), 8=-111 (LC 13), 10=-112

(LC 12)

Max Grav 1=42 (LC 19), 2=84 (LC 2), 6=84

(LC 2), 7=42 (LC 20), 8=366 (LC 20), 9=336 (LC 3), 10=366 (LC 19)

FORCES (lb) - Maximum Compression/Maximum

Tension

1-2=-63/70, 2-3=-73/40, 3-4=-110/84,

4-5=-110/68, 5-6=-55/29, 6-7=-15/12 2-10=0/55, 9-10=0/55, 8-9=0/55, 6-8=0/55

BOT CHORD WEBS 4-9=-227/38, 3-10=-300/153, 5-8=-300/152

NOTES

TOP CHORD

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

- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this desian.
- 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, with BCDL = 10.0psf.
- 10) All bearings are assumed to be SPF No.2
- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 26 lb uplift at joint 1, 10 lb uplift at joint 7, 3 lb uplift at joint 2, 112 lb uplift at joint 10 and 111 lb uplift at joint 8.
- 12) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 13) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

LOAD CASE(S) Standard



February 8,2024

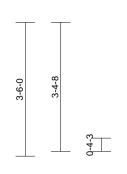


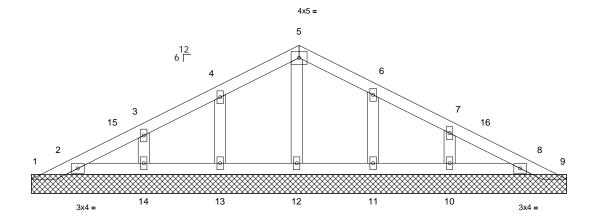
Job Truss Truss Type Qty Ply Lot 17 TCR 230872 Р9 Piggyback 2 Job Reference (optiona RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 163476833 LEE'S SUMMIT. MISSOURI

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.73 S Jan 4 2024 Print: 8.730 S Jan 4 2024 MiTek Industries, Inc. Tue Feb 06 12 ID:asq4lnR6g8_k7zcohkSgc1y6jdZ-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKW<mark>-</mark>CDoi7J²

-0-11-5	6-0-11	12-1-6	13-0-11
0-11-5	6-0-11	6-0-11	0-11-5





12-1-6

Scale	=	1:30.1

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.06	Vert(LL)	n/a	-	n/a	999	MT20	197/144
Snow (Pf/Pg)	15.4/20.0	Lumber DOL	1.15	BC	0.03	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.03	Horiz(TL)	0.00	9	n/a	n/a		
BCLL	10.0*	Code	IRC2018/TPI2014	Matrix-S								
BCDL	10.0										Weight: 41 lb	FT = 10%

LUMBER

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

BRACING

Structural wood sheathing directly applied or TOP CHORD

6-0-0 oc purlins.

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

bracing.

REACTIONS (size)

1=14-0-0, 2=14-0-0, 8=14-0-0, 9=14-0-0, 10=14-0-0, 11=14-0-0, 12=14-0-0, 13=14-0-0, 14=14-0-0

Max Horiz 1=59 (LC 16)

Max Uplift 1=-23 (LC 17), 2=-34 (LC 12), 8=-24 (LC 13), 9=-10 (LC 35),

10=-57 (LC 13), 11=-56 (LC 13), 13=-60 (LC 12), 14=-55 (LC 12)

Max Grav 1=31 (LC 12), 2=149 (LC 2), 8=161 (LC 2), 9=8 (LC 13), 10=205 (LC

6), 11=207 (LC 20), 12=174 (LC 29), 13=216 (LC 19), 14=195 (LC

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD

1-2=-66/74 2-3=-69/41 3-4=-46/58 4-5=-51/84, 5-6=-50/76, 6-7=-46/35,

7-8=-53/26, 8-9=-2/26

BOT CHORD 2-14=-4/54, 13-14=-4/54, 12-13=-4/54, 11-12=-4/55, 10-11=-4/55, 8-10=-4/55 WEBS

3-14=-145/79, 4-13=-177/84, 5-12=-115/0,

6-11=-169/80, 7-10=-153/82

NOTES

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

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 5) Unbalanced snow loads have been considered for this design.
- 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.
- 10) * This truss has been designed for a live load of 20.0psf on the bottom chord in 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.
- 11) All bearings are assumed to be SPF No.2
- 12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 23 lb uplift at joint 1, 10 lb uplift at joint 9, 34 lb uplift at joint 2, 24 lb uplift at joint 8, 55 lb uplift at joint 14, 60 lb uplift at joint 13, 56 lb uplift at joint 11 and 57 lb uplift at joint 10.
- 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.
- 14) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

LOAD CASE(S) Standard



February 8,2024

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

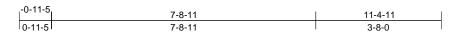
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not

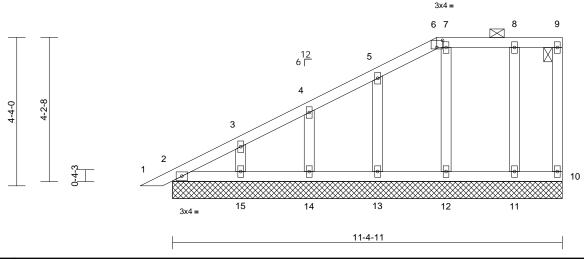


Job Truss Truss Type Qty Ply Lot 17 TCR 230872 P10 2 Piggyback Job Reference (optiona RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 163476834 LEE'S SUMMIT. MISSOURI

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.73 S Jan 4 2024 Print: 8.730 S Jan 4 2024 MiTek Industries, Inc. Tue Feb 0612 ID:L7ngsiKToNr0YaQ3fLoZl8y6jdi-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWr





Scale = 1:33.7

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.06	Vert(LL)	n/a	-	n/a	999	MT20	197/144
Snow (Pf/Pg)	20.4/20.0	Lumber DOL	1.15	BC	0.03	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.05	Horz(CT)	0.00	10	n/a	n/a		
BCLL	10.0*	Code	IRC2018/TPI2014	Matrix-S								
BCDL	10.0										Weight: 47 lb	FT = 10%

LUMBER

2x4 SPF No 2 TOP CHORD 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, and

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

bracing.

REACTIONS (size)

2=11-4-11, 10=11-4-11, 11=11-4-11, 12=11-4-11, 13=11-4-11, 14=11-4-11, 15=11-4-11

Max Horiz 2=168 (LC 9)

Max Uplift 2=-1 (LC 8), 10=-10 (LC 9), 11=-37

(LC 8), 12=-44 (LC 9), 13=-55 (LC 12), 14=-53 (LC 12), 15=-59 (LC

Max Grav 2=156 (LC 40), 10=45 (LC 33),

11=199 (LC 33), 12=188 (LC 3), 13=221 (LC 34), 14=210 (LC 34),

15=230 (LC 34)

FORCES (lb) - Maximum Compression/Maximum

Tension TOP CHORD

1-2=0/22, 2-3=-138/50, 3-4=-108/46, 4-5=-93/48, 5-6=-84/44, 6-7=-55/42,

7-8=-55/42, 8-9=-55/42, 9-10=-37/25

BOT CHORD 2-15=-56/42, 14-15=-56/42, 13-14=-56/42, 12-13=-56/42, 11-12=-56/42, 10-11=-56/42

WEBS 3-15=-182/82, 4-14=-172/78, 5-13=-181/78,

7-12=-141/66, 8-11=-163/62

NOTES

1) Unbalanced roof live loads have been considered for

- 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
- 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.
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0 Unbalanced snow loads have been considered for this
- design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- Provide adequate drainage to prevent water ponding.
- All plates are 2x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing. 9)
- 10) Gable studs spaced at 2-0-0 oc.
- 11) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 12) * This truss has been designed for a live load of 20.0psf on the bottom chord in 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.
- 13) All bearings are assumed to be SPF No.2
- 14) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 10 lb uplift at joint 10, 1 lb uplift at joint 2, 59 lb uplift at joint 15, 53 lb uplift at joint 14, 55 lb uplift at joint 13, 44 lb uplift at joint 12 and 37 lb uplift at joint 11.
- 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.

- 16) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.
- 17) 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



February 8,2024

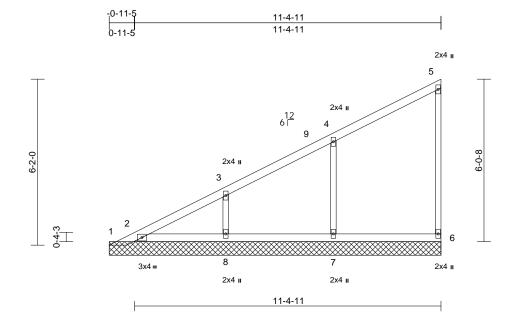




Truss Type Job Truss Qty Ply Lot 17 TCR P11 230872 Piggyback Job Reference (optiona RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 163476835 LEE'S SUMMIT. MISSOURI

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.73 S Jan 4 2024 Print: 8.730 S Jan 4 2024 MiTek Industries, Inc. Tue Feb 06 14 ID:L7ngsiKToNr0YaQ3fLoZl8y6jdi-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWr Doi7J4296?



Scale = 1:42.8

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.28	Vert(LL)	n/a	-	n/a	999	MT20	197/144
Snow (Pf/Pg)	15.4/20.0	Lumber DOL	1.15	BC	0.19	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.11	Horiz(TL)	0.00	6	n/a	n/a		
BCLL	10.0*	Code	IRC2018/TPI2014	Matrix-S								
BCDL	10.0										Weight: 37 lb	FT = 10%

LUMBER

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

BRACING

BOT CHORD

TOP CHORD Structural wood sheathing directly applied or

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

bracing.

REACTIONS (size)

1=12-4-0, 2=12-4-0, 6=12-4-0,

7=12-4-0, 8=12-4-0 Max Horiz 1=243 (LC 9)

Max Uplift 1=-88 (LC 26), 2=-51 (LC 12),

6=-35 (LC 9), 7=-120 (LC 12),

8=-101 (LC 12)

Max Grav 1=120 (LC 9), 2=292 (LC 26),

6=209 (LC 5), 7=516 (LC 5), 8=401

(LC 3)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-270/92, 2-3=-197/65, 3-4=-154/73,

4-5=-135/61, 5-6=-128/46

BOT CHORD 2-8=-80/62, 7-8=-80/62, 6-7=-80/62 WEBS 4-7=-317/161, 3-8=-258/149

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.

- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this desian.
- 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, with BCDL = 10.0psf.
- All bearings are assumed to be SPF No.2.
- 10) Bearing at joint(s) 1, 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 88 lb uplift at joint 1, 35 lb uplift at joint 6, 51 lb uplift at joint 2, 120 lb uplift at joint 7 and 101 lb uplift at joint 8.
- 12) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 13) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

LOAD CASE(S) Standard



February 8,2024



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

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

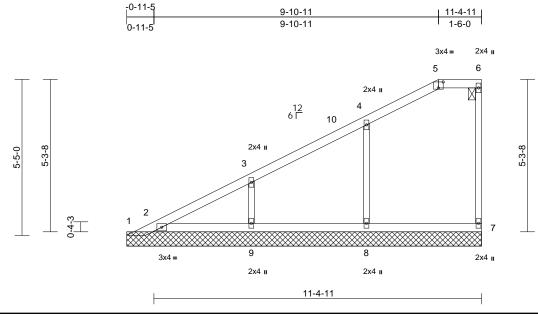


Job Truss Truss Type Qty Ply Lot 17 TCR P12 230872 Piggyback 2 Job Reference (optiona S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 163476836 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.73 S Jan 4 2024 Print: 8.730 S Jan 4 2024 MiTek Industries, Inc. Tue Feb 06 14 ID:Xn?hl5shCCWdRVMjol564dy6jd?-RfC?PsB70Hq3NSgPqnL8w3ulTXbGK VrCDoi7



Scale = 1:40.1

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.25	Vert(LL)	n/a	-	n/a	999	MT20	197/144
Snow (Pf/Pg)	20.4/20.0	Lumber DOL	1.15	BC	0.19	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.13	Horiz(TL)	0.00	7	n/a	n/a		
BCLL	10.0*	Code	IRC2018/TPI2014	Matrix-S								
BCDL	10.0										Weight: 36 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, and 2-0-0 oc purlins (6-0-0 max.): 5-6.

Rigid ceiling directly applied or 10-0-0 oc

BOT CHORD bracing.

REACTIONS (size) 1=12-4-0, 2=12-4-0, 7=12-4-0.

8=12-4-0, 9=12-4-0

Max Horiz 1=215 (LC 9)

Max Uplift 1=-95 (LC 38), 2=-51 (LC 12),

7=-35 (LC 9), 8=-96 (LC 12),

9=-107 (LC 12)

Max Grav 1=110 (LC 9), 2=328 (LC 38), 7=196 (LC 35), 8=552 (LC 36),

9=452 (LC 36) (lb) - Maximum Compression/Maximum

FORCES Tension

1-2=-240/93, 2-3=-169/72, 3-4=-153/80,

TOP CHORD 4-5=-122/54, 5-6=-70/53, 6-7=-109/46

2-9=-72/54, 8-9=-72/54, 7-8=-72/54

WEBS 4-8=-367/141, 3-9=-326/154

NOTES

BOT CHORD

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

- 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.
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.: Ce=1.0: Cs=1.00: Ct=1.10. Lu=50-0-0
- Unbalanced snow loads have been considered for this design.
- Provide adequate drainage to prevent water ponding.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 11) All bearings are assumed to be SPF No.2.
- 12) Bearing at joint(s) 1, 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 13) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 95 lb uplift at joint 1, 35 lb uplift at joint 7, 51 lb uplift at joint 2, 96 lb uplift at joint 8 and 107 lb uplift at joint 9.
- 14) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 15) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.
- 16) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard



February 8,2024



Ply Job Truss Truss Type Qty Lot 17 TCR 230872 P13 Piggyback Job Reference (optiona

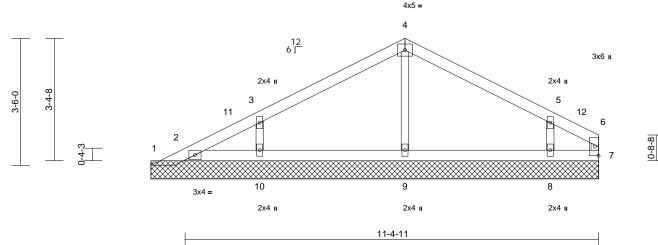
S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 163476837 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.73 S Jan 4 2024 Print: 8.730 S Jan 4 2024 MiTek Industries, Inc. Tue Feb 06 14 ID:Xn?hl5shCCWdRVMjol564dy6jd?-RfC?PsB70Hq3NSgPqnL8w3ulTXbGK VrCDoi7342J





Scal	le =	1:31	.7

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.20	Vert(LL)	n/a	-	n/a	999	MT20	197/144
Snow (Pf/Pg)	15.4/20.0	Lumber DOL	1.15	BC	0.10	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.07	Horiz(TL)	0.00	7	n/a	n/a		
BCLL	10.0*	Code	IRC2018/TPI2014	Matrix-S								
BCDL	10.0										Weight: 33 lb	FT = 10%

LUMBER

TOP CHORD 2x4 SPF No.2 **BOT CHORD** 2x4 SPF No.2 2x3 SPF No 2 WFBS 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=12-4-0, 2=12-4-0, 7=12-4-0, 8=12-4-0, 9=12-4-0, 10=12-4-0

Max Horiz 1=67 (LC 12) Max Uplift

1=-11 (LC 8), 2=-5 (LC 12), 7=-49 (LC 20), 8=-122 (LC 13), 10=-112

(LC 12)

Max Grav 1=42 (LC 19), 2=73 (LC 2), 7=38

(LC 13), 8=371 (LC 20), 9=354 (LC

3), 10=366 (LC 19)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-68/45, 2-3=-61/53, 3-4=-95/75, 4-5=-87/59, 5-6=-40/52, 6-7=-38/50

BOT CHORD 2-10=-11/22, 9-10=-11/22, 8-9=-11/22,

7-8=-11/22

WFBS 4-9=-248/41, 3-10=-300/153, 5-8=-311/159

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.

- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this desian.
- 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, with BCDL = 10.0psf.
- 10) All bearings are assumed to be SPF No.2
- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 11 lb uplift at joint 1, 49 lb uplift at joint 7, 5 lb uplift at joint 2, 112 lb uplift at joint 10 and 122 lb uplift at joint 8.
- 12) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 13) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

LOAD CASE(S) Standard



February 8,2024



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

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

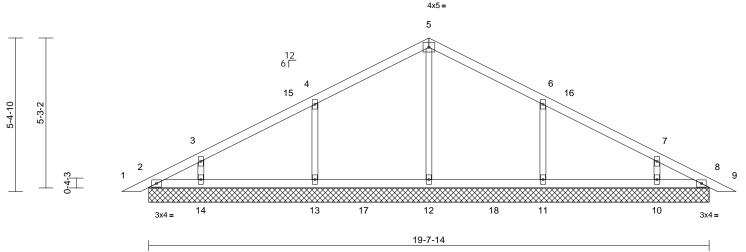


Job Truss Truss Type Qty Ply Lot 17 TCR P18 230872 Piggyback Job Reference (optiona RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 163476838 LEE'S SUMMIT. MISSOURI

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.73 S Jan 4 2024 Print: 8.730 S Jan 4 2024 MiTek Industries, Inc. Tue Feb 06 12 ID:pJL232K5Zhzt9k?GD3JoILy6jdh-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKW<mark>r</mark>CDoi7J





Scale = 1:40.4

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	0.21	Vert(LL)	n/a	-	n/a	999	MT20	197/144
Snow (Pf/Pg)	15.4/20.0	Lumber DOL	1.15	BC	0.17	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.13	Horz(CT)	0.00	8	n/a	n/a		
BCLL	10.0*	Code	IRC2018/TPI2014	Matrix-S								
BCDL	10.0	ļ									Weight: 59 lb	FT = 10%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins.

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

bracing.

REACTIONS (size) 2=19-7-14, 8=19-7-14, 10=19-7-14, 11=19-7-14, 12=19-7-14,

13=19-7-14, 14=19-7-14

Max Horiz 2=92 (LC 16)

Max Uplift 2=-16 (LC 8), 8=-4 (LC 9), 10=-85 (LC 13), 11=-124 (LC 13), 13=-124

(LC 12), 14=-85 (LC 12) 2=103 (LC 2), 8=103 (LC 2)

Max Grav 10=347 (LC 3), 11=473 (LC 6),

12=435 (LC 26), 13=473 (LC 5),

14=347 (LC 3)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/17, 2-3=-110/46, 3-4=-103/78, 4-5=-109/131, 5-6=-109/116, 6-7=-94/46,

7-8=-80/20, 8-9=0/17

BOT CHORD 2-14=-2/81, 13-14=-2/81, 12-13=-2/81,

11-12=-2/81, 10-11=-2/81, 8-10=-2/81

WFBS 5-12=-216/3, 4-13=-315/173, 3-14=-224/128,

6-11=-315/173, 7-10=-224/127

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.
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this 5) design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- All plates are 2x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.
- 10) 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.
- 12) All bearings are assumed to be SPF No.2
- 13) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 16 lb uplift at joint 2, 4 lb uplift at joint 8, 124 lb uplift at joint 13, 85 lb uplift at joint 14, 124 lb uplift at joint 11 and 85 lb uplift at joint 10
- 14) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 15) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

LOAD CASE(S) Standard



February 8,2024



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

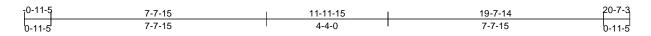
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not

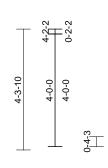


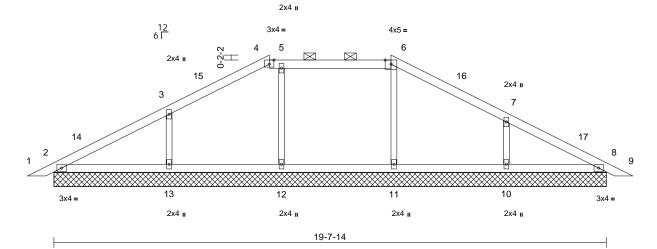
Job Truss Truss Type Qty Ply Lot 17 TCR 230872 P19 Piggyback Job Reference (optiona RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 163476839 LEE'S SUMMIT. MISSOURI

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.73 S Jan 4 2024 Print: 8.730 S Jan 4 2024 MiTek Industries, Inc. Tue Feb 06 14 ID:6gGhXSQUvqstVp1c71xR4qy6jda-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7







Scale = 1:41

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.26	Vert(LL)	n/a		n/a	999	MT20	197/144
Snow (Pf/Pg)	20.4/20.0	Lumber DOL	1.15	BC	0.13	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.10	Horz(CT)	0.00	8	n/a	n/a		
BCLL	10.0*	Code	IRC2018/TPI2014	Matrix-S								
BCDL	10.0										Weight: 58 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.): 4-6.

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

REACTIONS (size) 2=19-7-14, 8=19-7-14, 10=19-7-14,

11=19-7-14. 12=19-7-14. 13=19-7-14

Max Horiz 2=-72 (LC 17)

Max Uplift 2=-21 (LC 12), 8=-19 (LC 13),

10=-125 (LC 13), 11=-27 (LC 8), 12=-43 (LC 9), 13=-123 (LC 12)

Max Grav 2=260 (LC 37), 8=226 (LC 37),

10=480 (LC 37), 11=365 (LC 55), 12=367 (LC 5), 13=498 (LC 37)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/22, 2-3=-134/79, 3-4=-143/91,

4-5=-71/89, 5-6=-56/92, 6-7=-144/84,

7-8=-112/92, 8-9=0/22 **BOT CHORD** 2-13=-26/82, 12-13=-26/82, 11-12=-26/82,

10-11=-33/79. 8-10=-33/79

WEBS 6-11=-277/76, 5-12=-286/91, 3-13=-394/169,

7-10=-390/170

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.
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.: Ce=1.0: Cs=1.00: Ct=1.10. Lu=50-0-0
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- Provide adequate drainage to prevent water ponding.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.
- 10) 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.
- 12) All bearings are assumed to be SPF No.2.
- 13) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 21 lb uplift at joint 2, 19 lb uplift at joint 8, 27 lb uplift at joint 11, 43 lb uplift at joint 12, 123 lb uplift at joint 13 and 125 lb uplift at joint 10.
- 14) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 15) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.
- 16) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard



February 8,2024

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

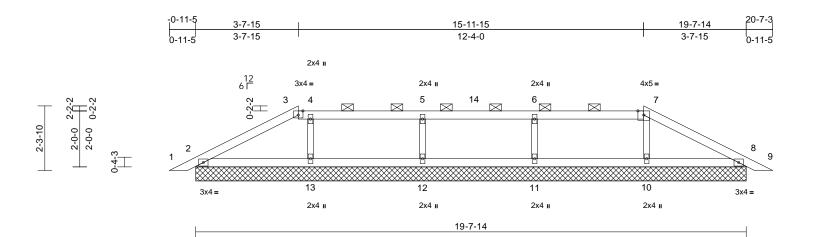
Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not



Job Truss Truss Type Qty Ply Lot 17 TCR P20 230872 Piggyback Job Reference (optiona RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 163476840 LEE'S SUMMIT. MISSOURI

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.73 S Jan 4 2024 Print: 8.730 S Jan 4 2024 MiTek Industries, Inc. Tue Feb 06 14 ID:asq4lnR6g8_k7zcohkSgc1y6jdZ-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4



Scale = 1:41.1

Plate Offsets	(X,	Y):	[3:0-2-0,Edge]
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Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.24	Vert(LL)	n/a	-	n/a	999	MT20	197/144
Snow (Pf/Pg)	20.4/20.0	Lumber DOL	1.15	BC	0.14	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.07	Horz(CT)	0.00	8	n/a	n/a		
BCLL	10.0*	Code	IRC2018/TPI2014	Matrix-S								
BCDL	10.0										Weight: 53 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.): 3-7. **BOT CHORD** Rigid ceiling directly applied or 6-0-0 oc

bracing

REACTIONS (size)

2=19-7-14, 8=19-7-14, 10=19-7-14, 11=19-7-14. 12=19-7-14.

13=19-7-14

Max Horiz 2=-36 (LC 13)

Max Uplift 2=-52 (LC 12), 8=-49 (LC 13),

10=-38 (LC 8), 11=-76 (LC 9), 12=-77 (LC 8), 13=-45 (LC 9)

Max Grav 2=277 (LC 37), 8=262 (LC 37)

10=375 (LC 55), 11=448 (LC 36), 12=437 (LC 36), 13=402 (LC 54)

FORCES (lb) - Maximum Compression/Maximum

Tension

1-2=0/22, 2-3=-154/55, 3-4=-94/58,

4-5=-74/51, 5-6=-74/51, 6-7=-75/52, 7-8=-142/89, 8-9=0/22

BOT CHORD 2-13=-19/83, 12-13=-19/83, 11-12=-19/83,

10-11=-19/83, 8-10=-29/78 7-10=-270/83, 6-11=-369/124

WEBS 5-12=-360/123, 4-13=-286/94

NOTES

TOP CHORD

- Unbalanced roof live loads have been considered for this design
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=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.
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- Provide adequate drainage to prevent water ponding.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.
- 10) 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.
- 12) All bearings are assumed to be SPF No.2.
- 13) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 52 lb uplift at joint 2, 49 lb uplift at joint 8, 38 lb uplift at joint 10, 76 lb uplift at joint 11, 77 lb uplift at joint 12 and 45 lb uplift at joint 13.
- 14) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 15) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.
- 16) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard



February 8,2024

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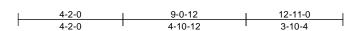
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 Truss
 Truss Type
 Qty
 Ply
 Lot 17 TCR

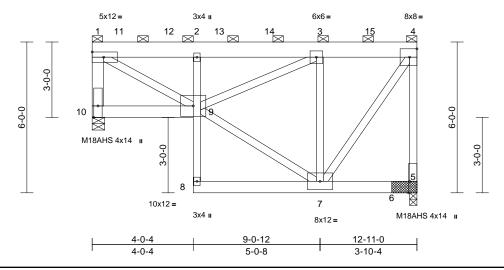
 230872
 R1
 Roof Special Girder
 1
 2
 Job Reference (optional)

Wheeler Lumber, Waverly, KS - 66871.

RELEASE FOR CONSTRUCTION
AS NOTED FOR PLAN REVIEW

DEVELOPMENT SERVICES 163476841





Scale = 1:45.8

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.80	Vert(LL)	-0.08	2	>999	360	M18AHS	142/136
Snow (Pf/Pg)	20.4/20.0	Lumber DOL	1.15	BC	0.35	Vert(CT)	-0.13	2	>999	240	MT20	197/144
TCDL	10.0	Rep Stress Incr	NO	WB	0.82	Horz(CT)	0.04	5	n/a	n/a		
BCLL	10.0*	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	-0.01	2	>999	240		
BCDL	10.0										Weight: 221 lb	FT = 10%

LUMBER

TOP CHORD 2x8 SP 2400F 2.0E

BOT CHORD 2x6 SPF No.2 *Except* 2-8:2x4 SPF No.2 WEBS 2x4 SPF No.2 *Except* 10-1:2x6 SPF No.2

2x4 SPF No.2 *Except* 10-1:2x6 SPF No.2, 9-1:2x4 SPF 2100F 1.8E

BRACING

TOP CHORD 2-0-0 oc purlins (6-0-0 max.): 1-4, except

end verticals.

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

bracing

REACTIONS (size) 5=(0-3-8 + bearing block), (req.

0-5-2), 10=0-6-0

Max Horiz 10=147 (LC 9) Max Grav 5=6552 (LC 19), 10=7162 (LC 20)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-10=-6941/0, 1-2=-7937/0, 2-3=-7963/0,

3-4=-3641/0. 4-5=-6430/0

BOT CHORD 9-10=-20/417, 8-9=0/141, 2-9=-4764/0,

7-8=0/139. 5-7=-51/61

WEBS 1-9=0/8916, 7-9=0/4067, 3-9=0/4908,

3-7=-7346/0, 4-7=0/6344

NOTES

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

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

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

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.

- 2x6 SPF No.2 bearing block 12" long at jt. 5 attached to each face with 3 rows of 10d (0.131"x3") nails spaced 3" o.c. 12 Total fasteners per block. Bearing is assumed to be SPF No.2.
- 4) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 5) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0
- 6) Provide adequate drainage to prevent water ponding.
- 7) All plates are MT20 plates unless otherwise indicated.8) This truss has been designed for a 10.0 psf bottom
- chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 10) All bearings are assumed to be SPF No.2.
- 11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 13) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 338 lb down and 238 lb up at 12-9-4 on top chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

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

Uniform Loads (lb/ft)

Vert: 1-4=-61, 9-10=-20, 5-8=-20

Concentrated Loads (lb)

Vert: 3=-1393, 11=-1396, 12=-1394, 13=-1393, 14=-1393, 15=-1390



February 8,2024





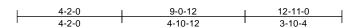
Ply Job Truss Truss Type Qty Lot 17 TCR 230872 R2 Roof Special Girder 2

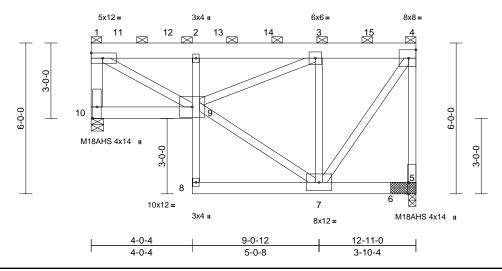
Wheeler Lumber, Waverly, KS - 66871,

DEVELOPMENT SERVICES 163476842 LEE'S SUMMIT. MISSOURI Job Reference (optional

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW

Run: 8.73 S Jan 4 2024 Print: 8.730 S Jan 4 2024 MiTek Industries, Inc. Tue Feb 06 14 ID:m35xKoOf4PxX569_pqNCJhy6jcK-RfC?PsB70Hq3NSgPqnL8w3uITXbGk WrCDoi794z36?/





Scale = 1:45.8

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.80	Vert(LL)	-0.08	2	>999	360	M18AHS	142/136
Snow (Pf/Pg)	20.4/20.0	Lumber DOL	1.15	BC	0.35	Vert(CT)	-0.13	2	>999	240	MT20	197/144
TCDL	10.0	Rep Stress Incr	NO	WB	0.82	Horz(CT)	0.04	5	n/a	n/a		
BCLL	10.0*	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	-0.01	2	>999	240		
BCDL	10.0										Weight: 221 lb	FT = 10%

LUMBER

TOP CHORD 2x8 SP 2400F 2.0E

BOT CHORD 2x6 SPF No.2 *Except* 2-8:2x4 SPF No.2 **WEBS**

2x4 SPF No.2 *Except* 10-1:2x6 SPF No.2, 9-1:2x4 SPF 2100F 1.8E

BRACING

TOP CHORD 2-0-0 oc purlins (6-0-0 max.): 1-4, except

end verticals.

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

bracing

REACTIONS (size) 5=(0-3-8 + bearing block), (req. 0-5-2), 10=0-6-0

Max Horiz 10=147 (LC 9)

Max Grav 5=6552 (LC 19), 10=7162 (LC 20)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-10=-6941/0, 1-2=-7937/0, 2-3=-7963/0,

3-4=-3641/0 4-5=-6430/0

BOT CHORD 9-10=-20/417, 8-9=0/141, 2-9=-4764/0,

7-8=0/139. 5-7=-51/61

WFBS 1-9=0/8916, 7-9=0/4067, 3-9=0/4908,

3-7=-7346/0, 4-7=0/6344

NOTES

1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows: Top chords connected as follows: 2x6 - 2 rows

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

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

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.

- 3) 2x6 SPF No.2 bearing block 12" long at jt. 5 attached to each face with 3 rows of 10d (0.131"x3") nails spaced 3" o.c. 12 Total fasteners per block. Bearing is assumed to be SPF No.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); cantilever left and right exposed: end vertical left and right exposed: Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0
- 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.
- 10) All bearings are assumed to be SPF No.2.
- 11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 13) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 338 lb down and 238 lb up at 12-9-4 on top chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

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

Uniform Loads (lb/ft)

Vert: 1-4=-61, 9-10=-20, 5-8=-20

Concentrated Loads (lb) Vert: 3=-1393, 11=-1396, 12=-1394, 13=-1393, 14=-1393 15=-1390



February 8,2024



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

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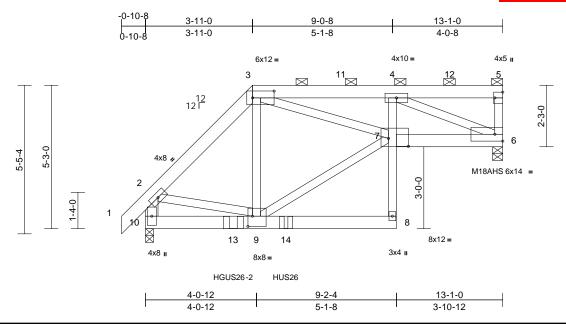
Job	Truss	Truss Type	Qty	Ply	Lot 17 TCR
230872	R3	Half Hip Girder	1	2	Job Reference (optional

S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 163476843 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.73 S Jan 4 2024 Print: 8.730 S Jan 4 2024 MiTek Industries, Inc. Tue Feb 06 14 ID:iRDhIUPwb1BFLPIMxFPgP6y6jcl-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKVrCDoi7342JS4



Scale = 1:42.2

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.66	Vert(LL)	-0.12	8	>999	360	MT20	197/144
Snow (Pf/Pg)	20.4/20.0	Lumber DOL	1.15	BC	0.59	Vert(CT)	-0.19	8	>785	240	M18AHS	142/136
TCDL	10.0	Rep Stress Incr	NO	WB	0.96	Horz(CT)	0.11	6	n/a	n/a		
BCLL	10.0*	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.08	8	>999	240		
BCDL	10.0										Weight: 196 lb	FT = 10%

LUMBER

TOP CHORD 2x6 SPF No.2 *Except* 3-5:2x6 SP 2400F

2.0E

BOT CHORD 2x6 SP 2400F 2.0E *Except* 8-4:2x4 SPF No.2

WFBS 2x4 SPF No.2 *Except* 10-2:2x6 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 (5-4-14 max.): 3-5 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc

bracing

REACTIONS (size) 6=0-4-8, 10=0-3-8, (req. 0-4-4)

Max Horiz 10=132 (LC 7)

Max Uplift 6=-890 (LC 7), 10=-1127 (LC 10)

Max Grav 6=5782 (LC 16), 10=5405 (LC 16) FORCES

Tension

(lb) - Maximum Compression/Maximum

TOP CHORD

1-2=0/55, 2-3=-5660/1134, 3-4=-11340/1803,

4-5=-413/73, 5-6=-1085/172, 2-10=-5027/983 **BOT CHORD** 9-10=-269/487, 8-9=-31/219, 7-8=0/280,

4-7=-243/829, 6-7=-1779/11077

WEBS 3-9=-381/719, 7-9=-982/4515

3-7=-1010/7676, 4-6=-11744/1878,

2-9=-682/3722

NOTES

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

Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc, 2x4 - 1 row at 0-9-0 oc. Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-5-0 oc, 2x4 - 1 row at 0-9-0 oc. Web connected as follows: 2x4 - 1 row at 0-9-0 oc.

- 2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B). unless otherwise indicated.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0
- This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- 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.
- 10) WARNING: Required bearing size at joint(s) 6, 10 greater than input bearing size.
- 11) All bearings are assumed to be SPF No.2
- 12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 890 lb uplift at joint 6 and 1127 lb uplift at joint 10.
- 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.
- 14) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

- 15) Use Simpson Strong-Tie HGUS26-2 (20-10d Girder, 8-10d Truss) or equivalent at 3-2-9 from the left end to connect truss(es) to front face of bottom chord.
- 16) Use Simpson Strong-Tie HUS26 (14-10d Girder, 6-10d Truss) or equivalent at 5-1-12 from the left end to connect truss(es) to front face of bottom chord.
- Fill all nail holes where hanger is in contact with lumber.
- 18) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 2098 lb down and 241 lb up at 7-1-12, and 1828 lb down and 250 lb up at 9-1-12, and 1828 lb down and 250 lb up at 11-1-12 on top chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

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

Uniform Loads (lb/ft)

Vert: 1-2=-51, 2-3=-51, 3-5=-61, 8-10=-20, 6-7=-20 Concentrated Loads (lb)

Vert: 4=-1689, 11=-1637, 12=-1689, 13=-2064 (F), 14=-1818 (F)



February 8,2024

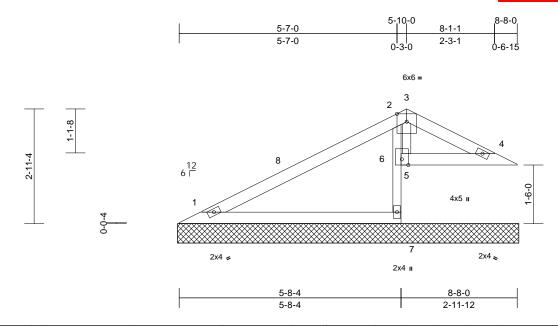
MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.



Truss Type Job Truss Qty Ply Lot 17 TCR 230872 V3 Valley 3 Job Reference (optiona RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 163476844 LEE'S SUMMIT. MISSOURI

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.73 S Jan 4 2024 Print: 8.730 S Jan 4 2024 MiTek Industries, Inc. Tue Feb 06 14 ID:Du0Bh4NzscLS0CkruBsVw_y6jde-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7



Scale = 1:29.5

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	0.21	Vert(LL)	n/a	-	n/a	999	MT20	197/144
Snow (Pf/Pg)	15.4/20.0	Lumber DOL	1.15	BC	0.26	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.21	Horiz(TL)	0.00	4	n/a	n/a		
BCLL	10.0*	Code	IRC2018/TPI2014	Matrix-P							1	
BCDL	10.0										Weight: 22 lb	FT = 10%

LUMBER

2x4 SPF 2100F 1.8E *Except* 3-4:2x4 SPF TOP CHORD

No 2

BOT CHORD 2x4 SPF No.2 *Except* 7-2:2x3 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 6-0-0 oc

bracing

REACTIONS (size) 1=8-9-0, 4=8-9-0, 5=8-9-0, 6=8-9-0,

7=8-9-0 Max Horiz 1=81 (LC 12)

1=-7 (LC 12), 4=-32 (LC 13), Max Uplift 5=-543 (LC 31), 6=-511 (LC 12)

1=202 (LC 33), 4=105 (LC 19), 5=408 (LC 12), 6=837 (LC 2), Max Grav

7=100 (LC 7)

FORCES (lb) - Maximum Compression/Maximum

Tension

1-2=-66/98, 2-3=-290/184, 3-4=-28/44 TOP CHORD **BOT CHORD**

1-7=-4/3, 6-7=0/0, 2-6=-880/485, 5-6=-11/6, 4-5=-11/6

WEBS 3-5=-362/618

NOTES

- Unbalanced roof live loads have been considered for 1) this design
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.

- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this desian.
- 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, with BCDL = 10.0psf.
- 10) All bearings are assumed to be SPF No.2.
- 11) 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.
- 12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 7 lb uplift at joint 1, 32 lb uplift at joint 4, 511 lb uplift at joint 6 and 543 lb uplift at joint 5.
- 13) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 4, 5.
- 14) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



February 8,2024



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

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



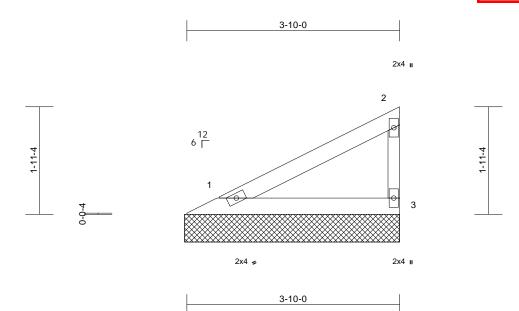
Ply Job Truss Truss Type Qty Lot 17 TCR 230872 V4 Valley 3 Job Reference (optional

S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 163476845 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.73 S Jan 4 2024 Print: 8.730 S Jan 4 2024 MiTek Industries, Inc. Tue Feb 06 14 ID:Du0Bh4NzscLS0CkruBsVw_y6jde-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7



Scale = 1:20.8

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.19	Vert(LL)	n/a	-	n/a	999	MT20	197/144
Snow (Pf/Pg)	15.4/20.0	Lumber DOL	1.15	BC	0.10	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.00	Horiz(TL)	0.00	3	n/a	n/a		
BCLL	10.0*	Code	IRC2018/TPI2014	Matrix-P								
BCDL	10.0										Weight: 10 lb	FT = 10%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 3-10-8 oc purlins, except end verticals.

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

bracing.

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

Max Horiz 1=66 (LC 9)

Max Uplift 1=-18 (LC 12), 3=-35 (LC 12)

Max Grav 1=150 (LC 5), 3=150 (LC 5) (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-60/41, 2-3=-116/54

BOT CHORD 1-3=-22/17

NOTES

FORCES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 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.
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- Gable requires continuous bottom chord bearing.
- 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.

- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- All bearings are assumed to be SPF No.2.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 18 lb uplift at joint 1 and 35 lb uplift at joint 3.
- 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



February 8,2024



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

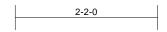
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not



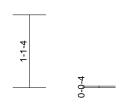
Ply Job Truss Truss Type Qty Lot 17 TCR 230872 V5 Valley 2 Job Reference (optional

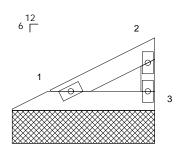
Wheeler Lumber, Waverly, KS - 66871,

LEE'S SUMMIT. MISSOURI Run: 8.73 S Jan 4 2024 Print: 8.730 S Jan 4 2024 MiTek Industries, Inc. Tue Feb 06 14 ID:Du0Bh4NzscLS0CkruBsVw_y6jde-RfC?PsB70Hq3NSgPqnL8w3uITXbGkWrCDoi7s4zJe/f



2x4 II







RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW

DEVELOPMENT SERVICES 163476846

2-2-0

Scale = 1:17.5

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	0.03	Vert(LL)	n/a	-	n/a	999	MT20	197/144
Snow (Pf/Pg)	15.4/20.0	Lumber DOL	1.15	BC	0.02	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.00	Horiz(TL)	0.00	3	n/a	n/a		
BCLL	10.0*	Code	IRC2018/TPI2014	Matrix-P								
BCDL	10.0	1									Weight: 5 lb	FT = 10%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or

2-2-8 oc purlins, except end verticals. **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc

bracing.

1=2-2-0, 3=2-2-0 REACTIONS (size)

Max Horiz 1=31 (LC 9)

Max Uplift 1=-8 (LC 12), 3=-16 (LC 12)

Max Grav 1=68 (LC 3), 3=69 (LC 25)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=-28/19, 2-3=-52/25

BOT CHORD 1-3=-11/8

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- Gable requires continuous bottom chord bearing.
- 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.

- * This truss has been designed for a live load of 20.0psf on the bottom chord in 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.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 8 lb uplift at joint 1 and 16 lb uplift at joint 3.

All bearings are assumed to be SPF No.2.

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



February 8,2024



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

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



Ply Job Truss Truss Type Qty Lot 17 TCR 230872 V6 Valley Job Reference (optional

S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 163476847 LEE'S SUMMIT. MISSOURI

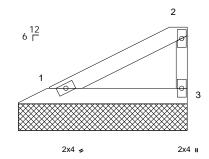
RELEASE FOR CONSTRUCTION

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.73 S Jan 4 2024 Print: 8.730 S Jan 4 2024 MiTek Industries, Inc. Tue Feb 06 14 ID:Du0Bh4NzscLS0CkruBsVw_y6jde-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi734z3e?f

		3-2-0
0-6-15	2-10-0	
0-6-15	2-3-1	

2x4 II



3-2-0

Scale = 1:21.6

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	0.11	Vert(LL)	n/a	-	n/a	999	MT20	197/144
Snow (Pf/Pg)	15.4/20.0	Lumber DOL	1.15	BC	0.06	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.00	Horiz(TL)	0.00	3	n/a	n/a		
BCLL	10.0*	Code	IRC2018/TPI2014	Matrix-P								
BCDL	10.0			1							Weight: 8 lb	FT = 10%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 3-2-8 oc purlins, except end verticals.

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

bracing.

REACTIONS (size) 1=3-2-0, 3=3-2-0

Max Horiz 1=52 (LC 11) Max Uplift 1=-14 (LC 12), 3=-27 (LC 12)

Max Grav 1=115 (LC 5), 3=116 (LC 25)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=-47/32, 2-3=-88/42

BOT CHORD 1-3=-18/13

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 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.
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- Provide adequate drainage to prevent water ponding.
- Gable requires continuous bottom chord bearing.
- 7) 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, with BCDL = 10.0psf.
- 10) All bearings are assumed to be SPF No.2. 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 14 lb uplift at joint 1 and 27 lb uplift at joint 3.
- 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



February 8,2024



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

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

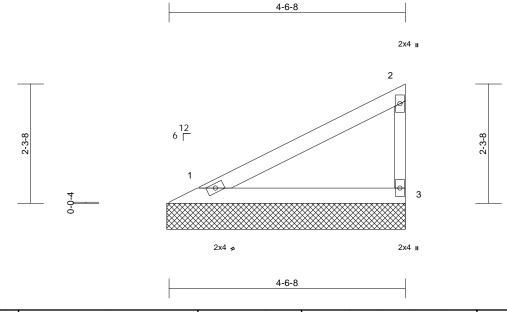


Ply Job Truss Truss Type Qty Lot 17 TCR 230872 V7 Valley

DEVELOPMENT SERVICES 163476848 LEE'S SUMMIT. MISSOURI Job Reference (optional

Run: 8.73 S Jan 4 2024 Print: 8.730 S Jan 4 2024 MiTek Industries, Inc. Tue Feb 06 14 Wheeler Lumber, Waverly, KS - 66871, ID:i5aZvQNbdvTJeLl1SuNkSBy6jdd-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKV/rCDoi7J2Jb9

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW



Scale = 1:22.1

Loading	(psf)	Spacing	2-0-0	csı		DEFL	in	(loc)	I/defI	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.30	Vert(LL)	n/a	-	n/a	999	MT20	197/144
Snow (Pf/Pg)	15.4/20.0	Lumber DOL	1.15	BC	0.15	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.00	Horiz(TL)	0.00	3	n/a	n/a		
BCLL	10.0*	Code	IRC2018/TPI2014	Matrix-P								
BCDL	10.0										Weight: 12 lb	FT = 10%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 4-7-0 oc purlins, except end verticals.

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

bracing.

1=4-7-0, 3=4-7-0 REACTIONS (size)

Max Horiz 1=80 (LC 9)

Max Uplift 1=-22 (LC 12), 3=-42 (LC 12)

Max Grav 1=187 (LC 5), 3=187 (LC 5)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=-73/53, 2-3=-146/66

BOT CHORD 1-3=-27/21

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- Gable requires continuous bottom chord bearing.
- 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.

- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - All bearings are assumed to be SPF No.2.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 22 lb uplift at joint 1 and 42 lb uplift at joint 3.
- 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



February 8,2024

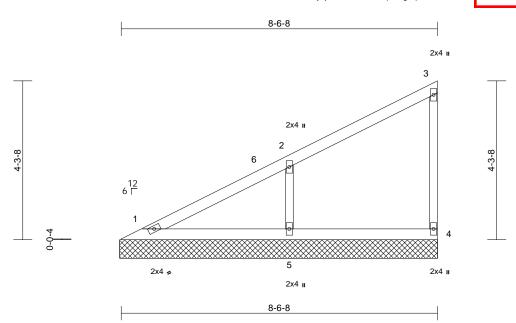


Ply Job Truss Truss Type Qty Lot 17 TCR 230872 V8 Valley Job Reference (optiona

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 163476849 LEE'S SUMMIT. MISSOURI

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.73 S Jan 4 2024 Print: 8.730 S Jan 4 2024 MiTek Industries, Inc. Tue Feb 06 14 ID:i5aZvQNbdvTJeLl1SuNkSBy6jdd-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKVrCDoi7J42J5



Scale = 1:31.1

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	0.25	Vert(LL)	n/a	-	n/a	999	MT20	197/144
Snow (Pf/Pg)	15.4/20.0	Lumber DOL	1.15	BC	0.13	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.07	Horiz(TL)	0.00	4	n/a	n/a		
BCLL	10.0*	Code	IRC2018/TPI2014	Matrix-P								
BCDL	10.0										Weight: 24 lb	FT = 10%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or

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

bracing

BOT CHORD REACTIONS (size)

1=8-7-0, 4=8-7-0, 5=8-7-0

Max Horiz 1=164 (LC 11)

Max Uplift 4=-27 (LC 9), 5=-132 (LC 12) Max Grav 1=160 (LC 26), 4=152 (LC 18),

5=453 (LC 3)

FORCES (lb) - Maximum Compression/Maximum

Tension

1-2=-131/79, 2-3=-118/43, 3-4=-123/44 TOP CHORD

BOT CHORD 1-5=-56/42, 4-5=-56/42

WEBS 2-5=-343/191

NOTES

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design. 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, with BCDL = 10.0psf.
- All bearings are assumed to be SPF No.2.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 27 lb uplift at joint 4 and 132 lb uplift at joint 5.
- 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



February 8,2024



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

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



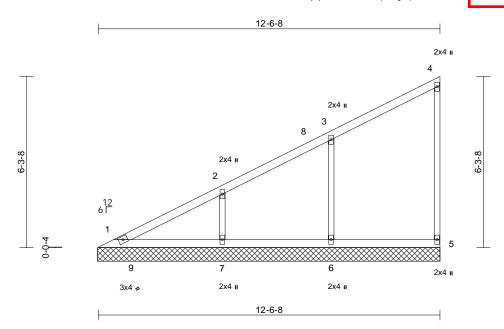
Job Truss Truss Type Qty Ply Lot 17 TCR 230872 V9 Valley Job Reference (optiona

S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 163476850 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.73 S Jan 4 2024 Print: 8.730 S Jan 4 2024 MiTek Industries, Inc. Tue Feb 06 14 ID:i5aZvQNbdvTJeLl1SuNkSBy6jdd-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKVrCDoi7J42J5



Scale = $1:42$.	3
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Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.31	Vert(LL)	n/a	-	n/a	999	MT20	197/144
Snow (Pf/Pg)	15.4/20.0	Lumber DOL	1.15	BC	0.19	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.13	Horiz(TL)	0.00	5	n/a	n/a		
BCLL	10.0*	Code	IRC2018/TPI2014	Matrix-S								
BCDL	10.0	1									Weight: 39 lb	FT = 10%

LUMBER

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

BRACING

BOT CHORD

TOP CHORD Structural wood sheathing directly applied or

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

bracing.

REACTIONS (size) 1=12-7-0, 5=12-7-0, 6=12-7-0,

7=12-7-0 Max Horiz 1=247 (LC 9)

Max Uplift 5=-37 (LC 9), 6=-115 (LC 12),

7=-119 (LC 12)

Max Grav 1=205 (LC 26), 5=212 (LC 5),

6=502 (LC 5), 7=467 (LC 3)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-205/79, 2-3=-160/71, 3-4=-137/64,

4-5=-130/46

BOT CHORD 1-7=-84/64, 6-7=-84/64, 5-6=-84/64

3-6=-309/155, 2-7=-301/168 WFBS

NOTES

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10

- 4) Unbalanced snow loads have been considered for this design.
- Gable requires continuous bottom chord bearing.
- 6) 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, with BCDL = 10.0psf.
- All bearings are assumed to be SPF No.2.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 37 lb uplift at joint 5, 115 lb uplift at joint 6 and 119 lb uplift at joint 7.
- 11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



February 8,2024



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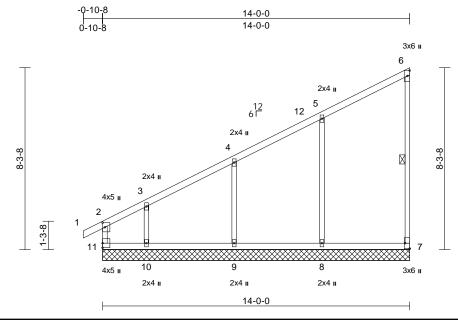


Job	Truss	Truss Type	Qty	Ply	Lot 17 TCR
230872	V10	Valley	2	1	Job Reference (option

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 163476851 LEE'S SUMMIT. MISSOURI

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.73 S Jan 4 2024 Print: 8.730 S Jan 4 2024 MiTek Industries, Inc. Tue Feb 06 14 ID:liToUkML5IDbP29eKTLGNmy6jdf-RfC?PsB70Hq3NSgPqnL8w3uITXbGKVrCDoi7



Scale = 1:52.5

Plate Offsets (X, Y): [2:0-2-8,0-1-4], [7: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	0.55	Vert(LL)	n/a	-	n/a	999	MT20	197/144
Snow (Pf/Pg)	15.4/20.0	Lumber DOL	1.15	BC	0.14	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.28	Horz(CT)	0.00	7	n/a	n/a		
BCLL	10.0*	Code	IRC2018/TPI2014	Matrix-R								
BCDL	10.0										Weight: 51 lb	FT = 10%

LUMBER

2x4 SPF No 2 TOP CHORD BOT CHORD 2x4 SPF 2100F 1.8E **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.

WEBS 1 Row at midpt 6-7

REACTIONS (size) 7=14-0-0, 8=14-0-0, 9=14-0-0,

10=14-0-0, 11=14-0-0

Max Horiz 11=336 (LC 11)

Max Uplift 7=-46 (LC 9), 8=-120 (LC 12),

9=-95 (LC 12), 10=-229 (LC 12),

11=-15 (LC 10)

Max Grav 7=206 (LC 26), 8=545 (LC 5),

9=463 (LC 3), 10=369 (LC 26),

11=275 (LC 27)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 2-11=-202/20, 1-2=0/31, 2-3=-298/65,

3-4=-218/82, 4-5=-190/83, 5-6=-154/83,

6-7=-129/47

BOT CHORD 10-11=-114/86, 9-10=-114/86, 8-9=-114/86,

7-8=-114/86

WEBS 5-8=-313/147, 4-9=-284/157, 3-10=-219/197

NOTES

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

- 2) 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.
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- 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 4-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 10) * This truss has been designed for a live load of 20.0psf on the bottom chord in 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.
- 11) All bearings are assumed to be SPF 2100F 1.8E.
- 12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 15 lb uplift at joint 11, 46 lb uplift at joint 7, 120 lb uplift at joint 8, 95 lb uplift at joint 9 and 229 lb uplift at joint 10.
- 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



February 8,2024



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

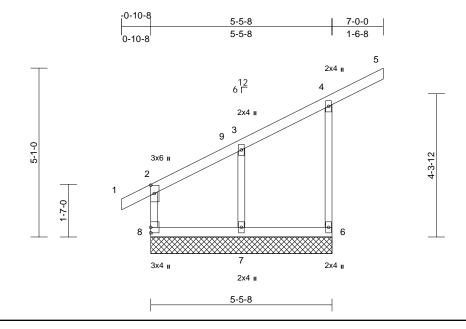
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not



Truss Type Job Truss Qty Ply Lot 17 TCR 230872 V11 Valley 2 Job Reference (optiona RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 163476852 LEE'S SUMMIT. MISSOURI

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.73 S Jan 4 2024 Print: 8.730 S Jan 4 2024 MiTek Industries, Inc. Tue Feb 06 14 ID:liToUkML5IDbP29eKTLGNmy6jdf-RfC?PsB70Hq3NSgPqnL8w3uITXbGKVrCDoi7



Scale = 1:34.7

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.28	Vert(LL)	n/a	-	n/a	999	MT20	197/144
Snow (Pf/Pg)	15.4/20.0	Lumber DOL	1.15	BC	0.14	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.04	Horz(CT)	0.00	6	n/a	n/a		
BCLL	10.0*	Code	IRC2018/TPI2014	Matrix-R								
BCDL	10.0										Weight: 22 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

5-5-8 oc purlins, except end verticals.

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

REACTIONS (size) 6=5-5-8, 7=5-5-8, 8=5-5-8

Max Horiz 8=201 (LC 9)

Max Uplift 6=-95 (LC 9), 7=-121 (LC 12),

8=-14 (LC 8)

6=285 (LC 19), 7=264 (LC 26),

8=227 (LC 27)

FORCES (lb) - Maximum Compression/Maximum

Tension

2-8=-169/26, 1-2=0/31, 2-3=-150/48,

TOP CHORD 3-4=-95/61, 4-5=-59/0, 4-6=-265/105

BOT CHORD 7-8=-60/42, 6-7=-60/42

WEBS 3-7=-161/121

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable. or consult qualified building designer as per ANSI/TPI 1.
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10

- 4) Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- 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 4-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 10) * This truss has been designed for a live load of 20.0psf on the bottom chord in 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.
- 11) All bearings are assumed to be SPF No.2
- 12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 14 lb uplift at joint 8, 95 lb uplift at joint 6 and 121 lb uplift at joint 7.
- 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



February 8,2024



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

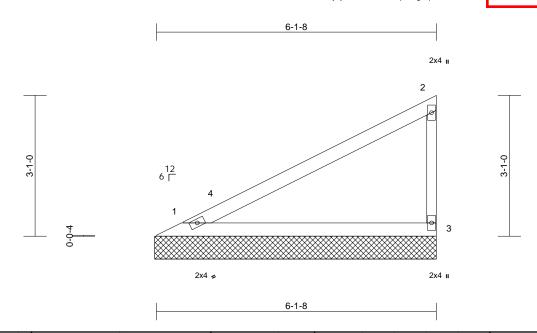
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not



Ply Job Truss Truss Type Qty Lot 17 TCR 230872 V12 Valley 2 Job Reference (optiona RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 163476853 LEE'S SUMMIT. MISSOURI

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.73 S Jan 4 2024 Print: 8.730 S Jan 4 2024 MiTek Industries, Inc. Tue Feb 06 14 ID:liToUkML5IDbP29eKTLGNmy6jdf-RfC?PsB70Hq3NSgPqnL8w3uITXbGK



Scale = 1:25.2

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.65	Vert(LL)	n/a	-	n/a	999	MT20	197/144
Snow (Pf/Pg)	15.4/20.0	Lumber DOL	1.15	BC	0.31	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.00	Horiz(TL)	0.00	3	n/a	n/a		
BCLL	10.0*	Code	IRC2018/TPI2014	Matrix-P								
BCDL	10.0										Weight: 16 lb	FT = 10%

LUMBER

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

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=6-2-0, 3=6-2-0

Max Horiz 1=113 (LC 9)

Max Uplift 1=-31 (LC 12), 3=-60 (LC 12)

Max Grav 1=255 (LC 5), 3=270 (LC 5)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=-104/77, 2-3=-215/92

BOT CHORD 1-3=-39/29

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- Gable requires continuous bottom chord bearing.
- 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.

- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- All bearings are assumed to be SPF No.2.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 31 lb uplift at joint 1 and 60 lb uplift at joint 3.
- 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



February 8,2024





Ply Job Truss Truss Type Qty Lot 17 TCR 230872 V13 Valley 2

Job Reference (optional

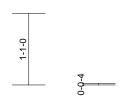
RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 163476854 LEE'S SUMMIT. MISSOURI

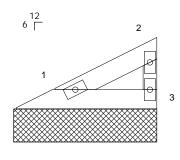
Wheeler Lumber, Waverly, KS - 66871,

Run: 8.73 S Jan 4 2024 Print: 8.730 S Jan 4 2024 MiTek Industries, Inc. Tue Feb 06 14 ID:liToUkML5IDbP29eKTLGNmy6jdf-RfC?PsB70Hq3NSgPqnL8w3uITXbGKVrCDoi7

2-1-8

2x4 II





2-1-8

Scale = 1:17.4

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	0.03	Vert(LL)	n/a	-	n/a	999	MT20	197/144
Snow (Pf/Pg)	15.4/20.0	Lumber DOL	1.15	BC	0.02	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.00	Horiz(TL)	0.00	3	n/a	n/a		
BCLL	10.0*	Code	IRC2018/TPI2014	Matrix-P								
BCDL	10.0	1									Weight: 5 lb	FT = 10%

LUMBER

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

BRACING

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

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

bracing.

1=2-2-0, 3=2-2-0 REACTIONS (size)

Max Horiz 1=30 (LC 9)

Max Uplift 1=-8 (LC 12), 3=-16 (LC 12)

Max Grav 1=66 (LC 3), 3=67 (LC 25)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=-27/18, 2-3=-50/24

BOT CHORD 1-3=-10/8

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- Gable requires continuous bottom chord bearing.
- 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.

- * This truss has been designed for a live load of 20.0psf on the bottom chord in 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.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 8 lb uplift at joint 1 and 16 lb uplift at joint 3.

All bearings are assumed to be SPF No.2.

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



February 8,2024



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

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



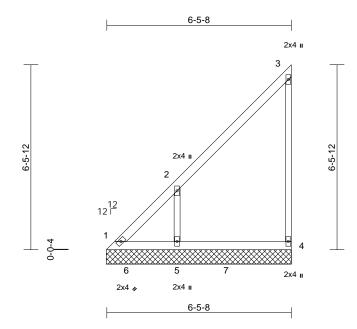
Ply Truss Type Job Truss Qty Lot 17 TCR 230872 V14 Valley 2 Job Reference (optiona

DEVELOPMENT SERVICES 163476855 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW

Run: 8.73 S Jan 4 2024 Print: 8.730 S Jan 4 2024 MiTek Industries, Inc. Tue Feb 06 14 ID:liToUkML5IDbP29eKTLGNmy6jdf-RfC?PsB70Hq3NSgPqnL8w3uITXbGK\vrCDoi7\d2\s

Wheeler Lumber, Waverly, KS - 66871,



Scale = 1:40.3

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.51	Vert(LL)	n/a	-	n/a	999	MT20	197/144
Snow (Pf/Pg)	15.4/20.0	Lumber DOL	1.15	BC	0.19	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.07	Horiz(TL)	0.00	4	n/a	n/a		
BCLL	10.0*	Code	IRC2018/TPI2014	Matrix-P								
BCDL	10.0	1									Weight: 24 lb	FT = 10%

LUMBER

TOP CHORD 2x4 SPF No.2 **BOT CHORD** 2x4 SPF No.2 2x3 SPF No 2 WFBS 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=6-5-12, 4=6-5-12, 5=6-5-12

Max Horiz 1=240 (LC 9)

1=-90 (LC 8), 4=-86 (LC 7), 5=-232 Max Uplift

(LC 10)

1=181 (LC 7), 4=248 (LC 21), Max Grav

5=539 (LC 21)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-257/189, 2-3=-204/108, 3-4=-148/105

BOT CHORD 1-5=-86/65, 4-5=-86/65

WEBS 2-5=-321/280

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 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, with BCDL = 10.0psf.
- All bearings are assumed to be SPF No.2.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 90 lb uplift at joint 1, 86 lb uplift at joint 4 and 232 lb uplift at joint 5.
- 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



February 8,2024



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

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



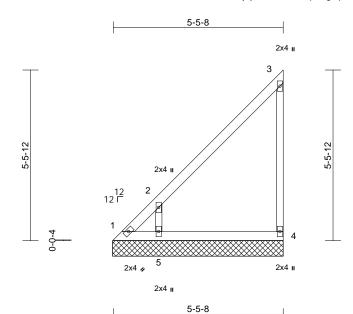
Ply Job Truss Truss Type Qty Lot 17 TCR 230872 V15 Valley 2 Job Reference (optiona

DEVELOPMENT SERVICES 163476856 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW

Run: 8.73 S Jan 4 2024 Print: 8.730 S Jan 4 2024 MiTek Industries, Inc. Tue Feb 06 14 ID:liToUkML5IDbP29eKTLGNmy6jdf-RfC?PsB70Hq3NSgPqnL8w3uITXbGK\vrCDoi7\d2j\s

Wheeler Lumber, Waverly, KS - 66871,



Scale = 1:37

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.35	Vert(LL)	n/a	-	n/a	999	MT20	197/144
Snow (Pf/Pg)	15.4/20.0	Lumber DOL	1.15	BC	0.10	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.07	Horiz(TL)	0.00	4	n/a	n/a		
BCLL	10.0*	Code	IRC2018/TPI2014	Matrix-P								
BCDL	10.0										Weight: 19 lb	FT = 10%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or

5-5-12 oc purlins, except end verticals. BOT CHORD Rigid ceiling directly applied or 10-0-0 oc

bracing

REACTIONS (size)

1=5-5-12, 4=5-5-12, 5=5-5-12

Max Horiz 1=200 (LC 9)

Max Uplift 1=-161 (LC 21), 4=-77 (LC 7),

5=-242 (LC 10)

Max Grav 1=198 (LC 10), 4=198 (LC 21),

5=483 (LC 21)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-255/193, 2-3=-189/98, 3-4=-143/96

BOT CHORD 1-5=-71/54, 4-5=-71/54

WEBS 2-5=-335/293

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 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, with BCDL = 10.0psf.
- All bearings are assumed to be SPF No.2.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 161 lb uplift at joint 1, 77 lb uplift at joint 4 and 242 lb uplift at joint 5.
- 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



February 8,2024



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

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



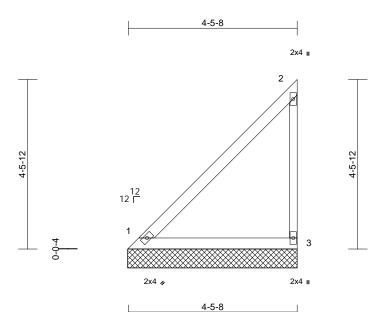
Ply Job Truss Truss Type Qty Lot 17 TCR 230872 V16 Valley 2

S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 163476857 LEE'S SUMMIT. MISSOURI Job Reference (optiona

RELEASE FOR CONSTRUCTION

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.73 S Jan 4 2024 Print: 8.730 S Jan 4 2024 MiTek Industries, Inc. Tue Feb 06 14 ID:liToUkML5IDbP29eKTLGNmy6jdf-RfC?PsB70Hq3NSgPqnL8w3uITXbGK VrCDoi7J42J69



Scal	e = 1	1:30	1.4
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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	0.31	Vert(LL)	n/a	-	n/a	999	MT20	197/144
Snow (Pf/Pg)	15.4/20.0	Lumber DOL	1.15	BC	0.16	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.00	Horiz(TL)	0.00	3	n/a	n/a		
BCLL	10.0*	Code	IRC2018/TPI2014	Matrix-P								
BCDL	10.0										Weight: 15 lb	FT = 10%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or

4-5-12 oc purlins, except end verticals. **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc

bracing.

REACTIONS (size) 1=4-5-12, 3=4-5-12

Max Horiz 1=160 (LC 7) Max Uplift 3=-78 (LC 7)

> Max Grav 1=229 (LC 22), 3=245 (LC 21) (lb) - Maximum Compression/Maximum

FORCES Tension

TOP CHORD 1-2=-150/118, 2-3=-175/103

BOT CHORD 1-3=-57/43

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 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, with BCDL = 10.0psf.
- All bearings are assumed to be SPF No.2.
- Provide mechanical connection (by others) of truss to 9) bearing plate capable of withstanding 78 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.



February 8,2024

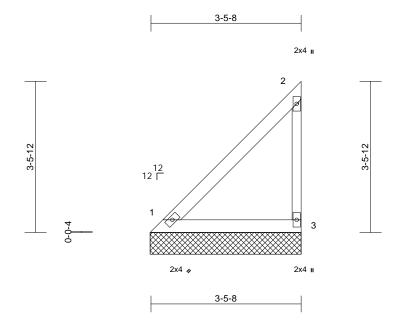


Ply Job Truss Truss Type Qty Lot 17 TCR 230872 V17 Valley 2 Job Reference (optiona

Wheeler Lumber, Waverly, KS - 66871,

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 163476858 LEE'S SUMMIT. MISSOURI

Run: 8.73 S Jan 4 2024 Print: 8.730 S Jan 4 2024 MiTek Industries, Inc. Tue Feb 06 14 ID:liToUkML5IDbP29eKTLGNmy6jdf-RfC?PsB70Hq3NSgPqnL8w3uITXbGK VrCDoi7J42J69



Scale = 1:26.5

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defI	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.17	Vert(LL)	n/a	-	n/a	999	MT20	197/144
Snow (Pf/Pg)	15.4/20.0	Lumber DOL	1.15	BC	0.09	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.00	Horiz(TL)	0.00	3	n/a	n/a		
BCLL	10.0*	Code	IRC2018/TPI2014	Matrix-P								
BCDL	10.0										Weight: 11 lb	FT = 10%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 3-5-12 oc purlins, except end verticals.

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

bracing.

REACTIONS (size) 1=3-5-12, 3=3-5-12

Max Horiz 1=120 (LC 9) Max Uplift 3=-59 (LC 7)

Max Grav 1=172 (LC 22), 3=184 (LC 21) (lb) - Maximum Compression/Maximum

FORCES Tension

1-2=-113/88, 2-3=-131/77 TOP CHORD

BOT CHORD 1-3=-43/33

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 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, with BCDL = 10.0psf.
 - All bearings are assumed to be SPF No.2.
- Provide mechanical connection (by others) of truss to 9) bearing plate capable of withstanding 59 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.



February 8,2024



Ply Job Truss Truss Type Qty Lot 17 TCR 230872 V18 Valley 2

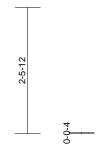
Wheeler Lumber, Waverly, KS - 66871,

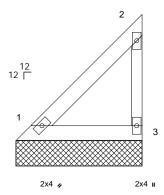
DEVELOPMENT SERVICES 163476859 LEE'S SUMMIT. MISSOURI Job Reference (optiona Run: 8.73 S Jan 4 2024 Print: 8.730 S Jan 4 2024 MiTek Industries, Inc. Tue Feb 06 14 ID:liToUkML5IDbP29eKTLGNmy6jdf-RfC?PsB70Hq3NSgPqnL8w3uITXbGKVrCDoi7

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW

2-5-8

2x4 II





2-5-8

Scale = 1:22.6

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.07	Vert(LL)	n/a	-	n/a	999	MT20	197/144
Snow (Pf/Pg)	15.4/20.0	Lumber DOL	1.15	BC	0.04	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.00	Horiz(TL)	0.00	3	n/a	n/a		
BCLL	10.0*	Code	IRC2018/TPI2014	Matrix-P								
BCDL	10.0										Weight: 8 lb	FT = 10%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 2-5-12 oc purlins, except end verticals.

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

bracing.

REACTIONS (size) 1=2-5-12, 3=2-5-12

Max Horiz 1=81 (LC 7) Max Uplift 3=-39 (LC 7)

Max Grav 1=115 (LC 22), 3=123 (LC 21) (lb) - Maximum Compression/Maximum

FORCES Tension

TOP CHORD 1-2=-76/59, 2-3=-88/52

BOT CHORD 1-3=-29/22

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 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, with BCDL = 10.0psf.
- All bearings are assumed to be SPF No.2.
- Provide mechanical connection (by others) of truss to 9) bearing plate capable of withstanding 39 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.



February 8,2024



Ply Job Truss Truss Type Qty Lot 17 TCR 230872 V19 Valley 2 Job Reference (optional

Wheeler Lumber, Waverly, KS - 66871,

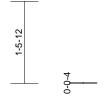
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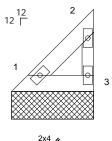
RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW

DEVELOPMENT SERVICES 163476860



2x4 II







2x4 II

1-5-8

Scale = 1:20.8

Loading	(psf)	Spacing	2-0-0	csı		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.02	Vert(LL)	n/a	-	n/a	999	MT20	197/144
Snow (Pf/Pg)	15.4/20.0	Lumber DOL	1.15	BC	0.01	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.00	Horiz(TL)	0.00	3	n/a	n/a		
BCLL	10.0*	Code	IRC2018/TPI2014	Matrix-P								
BCDL	10.0										Weight: 4 lb	FT = 10%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 1-5-12 oc purlins, except end verticals.

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

bracing.

REACTIONS (size) 1=1-5-12, 3=1-5-12

Max Horiz 1=41 (LC 7) Max Uplift 3=-20 (LC 7)

Max Grav 1=58 (LC 22), 3=62 (LC 21) (lb) - Maximum Compression/Maximum

FORCES Tension

1-2=-38/30, 2-3=-44/26

TOP CHORD BOT CHORD 1-3=-15/11

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 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.
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 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, with BCDL = 10.0psf.
- All bearings are assumed to be SPF No.2.
- Provide mechanical connection (by others) of truss to 9) bearing plate capable of withstanding 20 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



February 8,2024



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

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

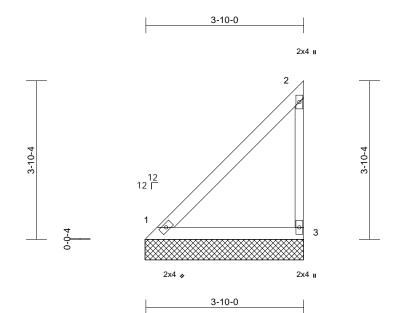


Ply Job Truss Truss Type Qty Lot 17 TCR 230872 V20 Valley 2 Job Reference (optiona

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 163476861 LEE'S SUMMIT. MISSOURI

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.73 S Jan 4 2024 Print: 8.730 S Jan 4 2024 MiTek Industries, Inc. Tue Feb 06 14 ID:liToUkML5IDbP29eKTLGNmy6jdf-RfC?PsB70Hq3NSgPqnL8w3uITXbGK



Scale = 1:28

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.22	Vert(LL)	n/a	-	n/a	999	MT20	197/144
Snow (Pf/Pg)	15.4/20.0	Lumber DOL	1.15	BC	0.11	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.00	Horiz(TL)	0.00	3	n/a	n/a		
BCLL	10.0*	Code	IRC2018/TPI2014	Matrix-P								
BCDL	10.0										Weight: 13 lb	FT = 10%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or

3-10-4 oc purlins, except end verticals. **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc

bracing.

REACTIONS 1=3-10-4, 3=3-10-4 (size) Max Horiz 1=135 (LC 7)

Max Uplift 3=-66 (LC 7)

Max Grav 1=193 (LC 22), 3=207 (LC 21) (lb) - Maximum Compression/Maximum

FORCES Tension

TOP CHORD 1-2=-127/99, 2-3=-148/87

BOT CHORD 1-3=-48/37

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 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, with BCDL = 10.0psf.
- All bearings are assumed to be SPF No.2
- Provide mechanical connection (by others) of truss to 9) bearing plate capable of withstanding 66 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.



February 8,2024



Job Truss Truss Type Qty Ply Lot 17 TCR 230872 V21 Valley 2

Wheeler Lumber, Waverly, KS - 66871,

DEVELOPMENT SERVICES 163476862 LEE'S SUMMIT. MISSOURI Job Reference (optional

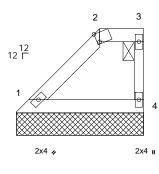
RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW

Run: 8.73 S Jan 4 2024 Print: 8.730 S Jan 4 2024 MiTek Industries, Inc. Tue Feb 06 14 ID:liToUkML5IDbP29eKTLGNmy6jdf-RfC?PsB70Hq3NSgPqnL8w3uITXbGK\vrCDoi7\d2JS4

1-10-4	2-10-0
1-10-4	0-11-12

2x4 II

3x4 -



2-10-0

Scale = 1:25.7

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.07	Vert(LL)	n/a	-	n/a	999	MT20	197/144
Snow (Pf/Pg)	20.4/20.0	Lumber DOL	1.15	BC	0.05	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.00	Horiz(TL)	0.00	4	n/a	n/a		
BCLL	10.0*	Code	IRC2018/TPI2014	Matrix-R								
BCDL	10.0										Weight: 8 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 2-10-4 oc purlins, except end verticals, and

2-0-0 oc purlins: 2-3.

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

bracing.

REACTIONS (size) 1=2-10-0, 4=2-10-0

Max Horiz 1=63 (LC 9)

Max Uplift 1=-6 (LC 10), 4=-32 (LC 7)

Max Grav 1=115 (LC 24), 4=111 (LC 3)

FORCES

(lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=-81/22, 2-3=-27/24, 3-4=-74/39

BOT CHORD 1-4=-26/27

NOTES

- Unbalanced roof live loads have been considered for 1)
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 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.
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0
- Provide adequate drainage to prevent water ponding.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.

- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- All bearings are assumed to be SPF No.2 .
- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 6 lb uplift at joint 1 and 32 lb uplift at joint 4.
- 12) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 13) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard



February 8,2024



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

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



Ply Job Truss Truss Type Qty Lot 17 TCR 230872 V22 Valley 2 Job Reference (optional

2x4 ı

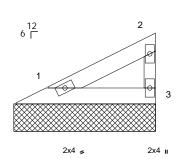
RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 163476863 LEE'S SUMMIT. MISSOURI

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.73 S Jan 4 2024 Print: 8.730 S Jan 4 2024 MiTek Industries, Inc. Tue Feb 06 14 ID:IiToUkML5IDbP29eKTLGNmy6jdf-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKtVrCDoi7

1	i i
0-6-15	2-6-8
0-6-15	1-11-9

1-3-8





2-6-8

Scale = 1:21

Loading	(psf)	Spacing	2-0-0	csı		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.06	Vert(LL)	n/a	-	n/a	999	MT20	197/144
Snow (Pf/Pg)	15.4/20.0	Lumber DOL	1.15	BC	0.03	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.00	Horiz(TL)	0.00	3	n/a	n/a		
BCLL	10.0*	Code	IRC2018/TPI2014	Matrix-P								
BCDL	10.0										Weight: 6 lb	FT = 10%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or

2-7-0 oc purlins, except end verticals. **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc

bracing.

1=2-7-0, 3=2-7-0 REACTIONS (size)

Max Horiz 1=39 (LC 9) Max Uplift 1=-11 (LC 12), 3=-20 (LC 12)

Max Grav 1=86 (LC 3), 3=87 (LC 25)

(lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-35/23, 2-3=-65/32

BOT CHORD 1-3=-13/10

NOTES

FORCES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 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.
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- Gable requires continuous bottom chord bearing.
- 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.

- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- All bearings are assumed to be SPF No.2.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 11 lb uplift at joint 1 and 20 lb uplift at joint 3.
- 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



February 8,2024



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

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



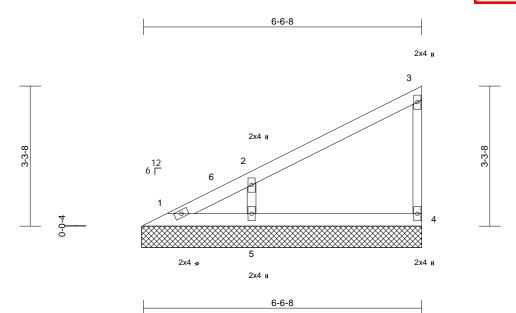
Ply Truss Type Job Truss Qty Lot 17 TCR 230872 V23 Valley 2 Job Reference (optiona

S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 163476864 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.73 S Jan 4 2024 Print: 8.730 S Jan 4 2024 MiTek Industries, Inc. Tue Feb 06 14 ID:liToUkML5IDbP29eKTLGNmy6jdf-RfC?PsB70Hq3NSgPqnL8w3uITXbGKVrCDoi7



Scale = 1:27.1

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.21	Vert(LL)	n/a	-	n/a	999	MT20	197/144
Snow (Pf/Pg)	15.4/20.0	Lumber DOL	1.15	BC	0.10	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.05	Horiz(TL)	0.00	4	n/a	n/a		
BCLL	10.0*	Code	IRC2018/TPI2014	Matrix-P								
BCDL	10.0	1									Weight: 18 lb	FT = 10%

LUMBER

TOP CHORD 2x4 SPF No.2 **BOT CHORD** 2x4 SPF No.2 2x3 SPF No 2 WFBS 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=6-7-0, 4=6-7-0, 5=6-7-0

Max Horiz 1=122 (LC 9)

Max Uplift 4=-28 (LC 12), 5=-108 (LC 12) Max Grav 1=50 (LC 26), 4=159 (LC 18),

5=391 (LC 5)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-106/55, 2-3=-103/43, 3-4=-127/47

BOT CHORD 1-5=-42/32, 4-5=-42/32

WEBS 2-5=-307/157

NOTES

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- 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, with BCDL = 10.0psf.
- All bearings are assumed to be SPF No.2.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 28 lb uplift at joint 4 and 108 lb uplift at joint 5.
- 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



February 8,2024



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

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



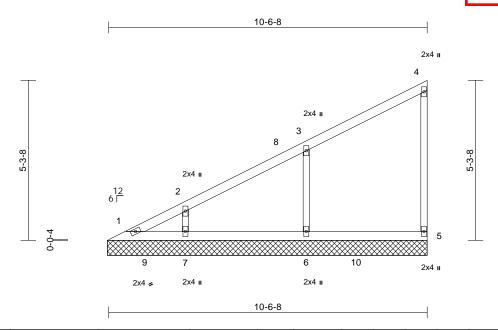
Job Truss Truss Type Qty Ply Lot 17 TCR 230872 V24 Valley 2 Job Reference (optiona

S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 163476865 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.73 S Jan 4 2024 Print: 8.730 S Jan 4 2024 MiTek Industries, Inc. Tue Feb 06 14 ID:liToUkML5IDbP29eKTLGNmy6jdf-RfC?PsB70Hq3NSgPqnL8w3uITXbGK



Scal	le =	1:38.

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.22	Vert(LL)	n/a	-	n/a	999	MT20	197/144
Snow (Pf/Pg)	15.4/20.0	Lumber DOL	1.15	BC	0.19	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.08	Horiz(TL)	0.00	5	n/a	n/a		
BCLL	10.0*	Code	IRC2018/TPI2014	Matrix-S								
BCDL	10.0	l									Weight: 31 lb	FT = 10%

LUMBER

TOP CHORD 2x4 SPF No.2 **BOT CHORD** 2x4 SPF No.2 2x3 SPF No 2 WFBS 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=10-7-0, 5=10-7-0, 6=10-7-0,

7=10-7-0 Max Horiz 1=205 (LC 11)

Max Uplift 5=-32 (LC 9), 6=-121 (LC 12),

7=-89 (LC 12)

1=94 (LC 26), 5=204 (LC 5), 6=502 Max Grav

(LC 5), 7=347 (LC 3)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-178/51, 2-3=-145/70, 3-4=-128/53,

4-5=-128/44

BOT CHORD 1-7=-69/54, 6-7=-69/54, 5-6=-69/54

3-6=-321/167, 2-7=-230/131 WFBS

NOTES

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10

- 4) Unbalanced snow loads have been considered for this design.
- Gable requires continuous bottom chord bearing.
- 6) 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, with BCDL = 10.0psf.
- All bearings are assumed to be SPF No.2.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 32 lb uplift at joint 5, 121 lb uplift at joint 6 and 89 lb uplift at joint 7.
- 11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



February 8,2024



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

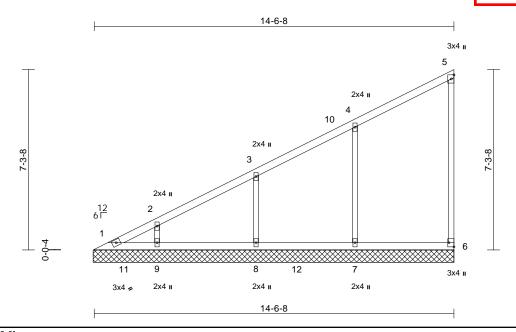


Job	Truss	Truss Type	Qty	Ply	Lot 17 TCR
230872	V25	Valley	2	1	Job Reference (optional

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 163476866 LEE'S SUMMIT. MISSOURI

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.73 S Jan 4 2024 Print: 8.730 S Jan 4 2024 MiTek Industries, Inc. Tue Feb 06 14 ID:Du0Bh4NzscLS0CkruBsVw_y6jde-RfC?PsB70Hq3NSgPqnL8w3ulTXbGkWrCDoi734z36?f



Scale = 1:46.6

Plate Offsets (X, Y): [6: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	0.43	Vert(LL)	n/a	-	n/a	999	MT20	197/144
Snow (Pf/Pg)	15.4/20.0	Lumber DOL	1.15	BC	0.21	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.19	Horiz(TL)	0.00	6	n/a	n/a		
BCLL	10.0*	Code	IRC2018/TPI2014	Matrix-S								
BCDL	10.0										Weight: 46 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

REACTIONS (size) 1=14-7-0, 6=14-7-0, 7=14-7-0, 8=14-7-0. 9=14-7-0

Max Horiz 1=288 (LC 9)

Max Uplift 6=-41 (LC 9), 7=-118 (LC 12),

8=-109 (LC 12), 9=-94 (LC 12) Max Grav

1=113 (LC 9), 6=208 (LC 5), 7=539 (LC 5), 8=439 (LC 3), 9=366 (LC 3)

FORCES (lb) - Maximum Compression/Maximum

Tension TOP CHORD

1-2=-253/62, 2-3=-213/77, 3-4=-174/78,

4-5=-146/74. 5-6=-129/47 BOT CHORD

1-9=-98/75, 8-9=-98/75, 7-8=-98/75,

6-7=-98/75

WFBS 4-7=-313/152, 3-8=-282/162, 2-9=-241/133

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.

- 3) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- 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, with BCDL = 10.0psf.
- All bearings are assumed to be SPF No.2.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 41 lb uplift at joint 6, 118 lb uplift at joint 7, 109 lb uplift at joint 8 and 94 lb uplift at joint 9.
- 11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



February 8,2024



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

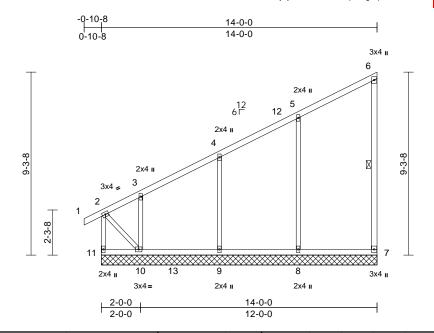
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not



Job Truss Truss Type Qty Ply Lot 17 TCR 230872 V26 Valley Job Reference (optiona RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 163476867 LEE'S SUMMIT. MISSOURI

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.73 S Jan 4 2024 Print: 8.730 S Jan 4 2024 MiTek Industries, Inc. Tue Feb 06 14 ID:Du0Bh4NzscLS0CkruBsVw_y6jde-RfC?PsB70Hq3NSgPqnL8w3uITXbGK<mark>W</mark>rCDoi7



Scale = 1:58.5

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	0.38	Vert(LL)	n/a	-	n/a	999	MT20	197/144
Snow (Pf/Pg)	15.4/20.0	Lumber DOL	1.15	BC	0.21	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.37	Horz(CT)	0.00	7	n/a	n/a		
BCLL	10.0*	Code	IRC2018/TPI2014	Matrix-S								
BCDL	10.0										Weight: 60 lb	FT = 10%

LUMBER

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

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

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, Except:

6-0-0 oc bracing: 10-11.

WEBS 1 Row at midpt

REACTIONS (size) 7=14-0-0, 8=14-0-0, 9=14-0-0,

10=14-0-0, 11=14-0-0 Max Horiz 11=373 (LC 9)

Max Uplift 7=-50 (LC 9), 8=-116 (LC 12),

9=-110 (LC 12), 10=-316 (LC 9),

11=-57 (LC 10)

Max Grav 7=210 (LC 26), 8=532 (LC 5),

9=493 (LC 3), 10=410 (LC 26),

11=405 (LC 9)

FORCES (lb) - Maximum Compression/Maximum

Tension

2-11=-396/62, 1-2=0/31, 2-3=-269/62, TOP CHORD

3-4=-231/85, 4-5=-206/85, 5-6=-166/94,

6-7=-130/50

BOT CHORD 10-11=-360/114, 9-10=-126/97, 8-9=-126/97,

7-8=-126/97

5-8=-307/141, 4-9=-285/166, 3-10=-220/124,

2-10=-95/400

WEBS NOTES

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

- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this 4) design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- 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 4-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 10) * This truss has been designed for a live load of 20.0psf on the bottom chord in 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.
- 11) All bearings are assumed to be SPF No.2.
- 12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 57 lb uplift at joint 11, 50 lb uplift at joint 7, 116 lb uplift at joint 8, 110 lb
- uplift at joint 9 and 316 lb uplift at joint 10. 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



February 8,2024



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

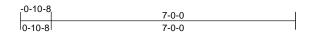
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not

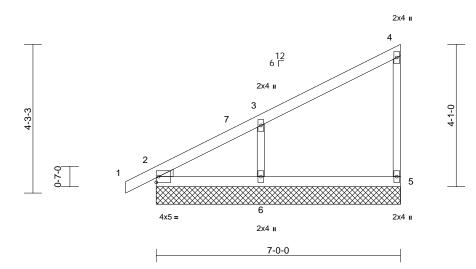


Truss Type Job Truss Qty Ply Lot 17 TCR 230872 V28 Valley Job Reference (optiona RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 163476868 LEE'S SUMMIT. MISSOURI

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.73 S Jan 4 2024 Print: 8.730 S Jan 4 2024 MiTek Industries, Inc. Tue Feb 06 14 ID:Du0Bh4NzscLS0CkruBsVw_y6jde-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7





Scale	=	1:33

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.22	Vert(LL)	n/a	-	n/a	999	MT20	197/144
Snow (Pf/Pg)	15.4/20.0	Lumber DOL	1.15	BC	0.10	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.06	Horz(CT)	0.00	5	n/a	n/a		
BCLL	10.0*	Code	IRC2018/TPI2014	Matrix-P								
BCDL	10.0										Weight: 23 lb	FT = 10%

LUMBER

TOP CHORD 2x4 SPF No.2 **BOT CHORD** 2x4 SPF No.2 2x3 SPF No 2 WFBS OTHERS 2x3 SPF No 2 WEDGE Left: 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 2=7-0-0, 5=7-0-0, 6=7-0-0 (size)

Max Horiz 2=158 (LC 9)

Max Uplift 2=-4 (LC 8), 5=-27 (LC 9), 6=-124

(LC 12)

Max Grav 2=167 (LC 27), 5=159 (LC 19),

6=404 (LC 5)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/11, 2-3=-130/70, 3-4=-113/45,

4-5=-128/45

2-6=-53/40, 5-6=-53/40

WEBS 3-6=-307/177

NOTES

BOT CHORD

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 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.
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10

- Unbalanced snow loads have been considered for this 4)
- This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- 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 8) 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.
- 10) All bearings are assumed to be SPF No.2
- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 27 lb uplift at joint 5, 4 lb uplift at joint 2 and 124 lb uplift at joint 6.
- 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.



February 8,2024



Job Truss Truss Type Qty Ply Lot 17 TCR 230872 V29 Valley Job Reference (optional

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.73 S Jan 4 2024 Print: 8.730 S Jan 4 2024 MiTek Industries, Inc. Tue Feb 06 12 ID:Du0Bh4NzscLS0CkruBsVw_y6jde-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7

I/defI

n/a 999

n/a 999

n/a n/a

(loc)

3

n/a

n/a

0.00

L/d

PLATES

Weight: 10 lb

MT20

GRIP

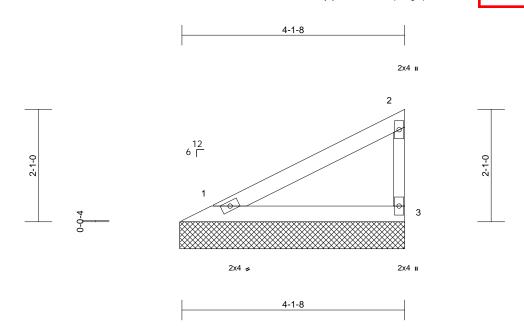
197/144

FT = 10%

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW

DEVELOPMENT SERVICES 163476869

LEE'S SUMMIT. MISSOURI



BCDL
LUMBER

TCDL

BCLL

TCLL (roof)

Snow (Pf/Pg)

Scale = 1:21.3 Loading

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 4-2-0 oc purlins, except end verticals.

(psf)

25.0

10.0

10.0

10.0

15 4/20 0

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

bracing.

REACTIONS (size) 1=4-2-0, 3=4-2-0

Max Horiz 1=72 (LC 9) Max Uplift 1=-20 (LC 12), 3=-38 (LC 12)

Max Grav 1=165 (LC 5), 3=165 (LC 5)

Spacing

Plate Grip DOL

Rep Stress Incr

Lumber DOL

2-0-0

1.15

1 15

YES

IRC2018/TPI2014

(lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-65/46, 2-3=-128/58

BOT CHORD 1-3=-24/19

NOTES

FORCES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 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.
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- Gable requires continuous bottom chord bearing.
- 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.

* This truss has been designed for a live load of 20.0psf on the bottom chord in 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.

DEFL

Vert(LL)

Vert(TL)

Horiz(TL)

0.23

0.12

0.00

All bearings are assumed to be SPF No.2.

CSI

TC

BC

WB

Matrix-P

- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 20 lb uplift at joint 1 and 38 lb uplift at joint 3.
- 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



February 8,2024



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

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



Center plate on joint unless x Offsets are indicated. Dimensions are in ft-in-sixtee Apply plates to both sides of and fully embed teeth. mbols Center plate on joint unless x, y Apply plates to both sides of truss Dimensions are in ft-in-sixteenths

₹ edge of truss. plates 0- 1/16" from outside For 4 x 2 orientation, locate

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

* Plate location details available in MiTek software or upon request

PLATE SIZE

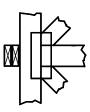
to slots. Second dimension is the length parallel to slots. width measured perpendicular The first dimension is the plate

LATERAL BRACING LOCATION



by text in the bracing section of the output. Use T or I bracing if indicated. Indicated by symbol shown and/or

BEARING



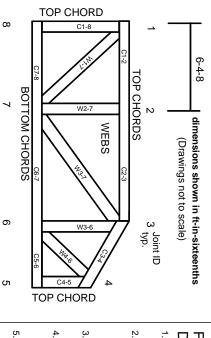
Min size shown is for crushing only number/letter where bearings occur reaction section indicates joint (supports) occur. Icons vary but Indicates location where bearings

Industry Standards:

National Design Specification for Metal Plate Connected Wood Trusses Installing, Restraining & Bracing of Metal Guide to Good Practice for Handling, Building Component Safety Information, Design Standard for Bracing. Plate Connected Wood Truss Construction.

DSB-22: ANSI/TPI1:

Numbering System



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

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

Product Code Approvals

ICC-ES Reports

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

Design General Notes

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

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

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Mile

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

General Safety Notes

Damage or Personal Injury Failure to Follow Could Cause Property

- Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI
- Ņ Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves may require bracing, or alternative Tor I bracing should be considered.
- Never exceed the design loading shown and never stack materials on inadequately braced trusses.
- Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
- Cut members to bear tightly against each other

'n

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

9

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