

RE: H314 Lot 14 H3 MiTek USA, Inc. 16023 Swingley Ridge Rd Chesterfield, MO 63017 314-434-1200

Site Information:

Customer: Project Name: H314

Lot/Block: Model:
Address: Subdivision:
City: State:

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

Design Code: IRC2018/TPI2014 Design Program: MiTek 20/20 8.4

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

This package includes 58 individual, dated Truss Design Drawings and 0 Additional Drawings.

No.	Seal#	Truss Name	Date	No.	Seal#	Truss Name	Date
1	148693611	A1	11/8/2021	21	I48693631	D5	11/8/2021
2	148693612	A2	11/8/2021	22	148693632	D6	11/8/2021
3	I48693613	A3	11/8/2021	23	148693633	E1	11/8/2021
4	148693614	A4	11/8/2021	24	148693634	G1	11/8/2021
5	I48693615	A5	11/8/2021	25	148693635	G2	11/8/2021
6	I48693616	B1	11/8/2021	26	148693636	G3	11/8/2021
7	148693617	B2	11/8/2021	27	148693637	G4	11/8/2021
8	I48693618	B3	11/8/2021	28	148693638	G5	11/8/2021
9	I48693619	B4	11/8/2021	29	148693639	J1	11/8/2021
10	148693620	B5	11/8/2021	30	148693640	J2	11/8/2021
11	I48693621	B6	11/8/2021	31	I48693641	J3	11/8/2021
12	148693622	C1	11/8/2021	32	148693642	J4	11/8/2021
13	148693623	C2	11/8/2021	33	148693643	J5	11/8/2021
14	148693624	C3	11/8/2021	34	148693644	J6	11/8/2021
15	148693625	C4	11/8/2021	35	148693645	LAY1	11/8/2021
16	148693626	C5	11/8/2021	36	148693646	LAY2	11/8/2021
17	148693627	D1	11/8/2021	37	148693647	LAY3	11/8/2021
18	148693628	D2	11/8/2021	38	148693648	LAY4	11/8/2021
19	148693629	D3	11/8/2021	39	148693649	P1	11/8/2021
20	148693630	D4	11/8/2021	40	148693650	P2	11/8/2021

The truss drawing(s) referenced above have been prepared by MiTek USA, Inc. under my direct supervision

based on the parameters provided by Wheeler - Waverly.

Truss Design Engineer's Name: Liu, Xuegang

My license renewal date for the state of Kansas is April 30, 2022.

Kansas COA: E-943

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







RE: H314 - Lot 14 H3

MiTek USA, Inc. 16023 Swingley Ridge Rd Chesterfield, MO 63017 314-434-1200

Site Information:

Project Customer: Project Name: H314

Lot/Block: Subdivision: Address:

City, County: State:

Seal#	Truss Name	Date
148693651	V1	11/8/2021
148693652	V2	11/8/2021
148693653	V3	11/8/2021
148693654	V4	11/8/2021
148693655	V5	11/8/2021
148693656	V6	11/8/2021
148693657	V7	11/8/2021
148693658	V8	11/8/2021
148693659	V9	11/8/2021
148693660	V10	11/8/2021
I48693661	V11	11/8/2021
148693662	V12	11/8/2021
148693663	V13	11/8/2021
148693664	V14	11/8/2021
148693665	V15	11/8/2021
148693666	V16	11/8/2021
148693667	V17	11/8/2021
148693668	V18	11/8/2021
	I48693651 I48693652 I48693653 I48693654 I48693655 I48693656 I48693657 I48693658 I48693659 I48693660 I48693661 I48693662 I48693663 I48693664 I48693665 I48693666	I48693651 V1 I48693652 V2 I48693653 V3 I48693654 V4 I48693655 V5 I48693656 V6 I48693657 V7 I48693658 V8 I48693659 V9 I48693660 V10 I48693661 V11 I48693662 V12 I48693663 V13 I48693664 V14 I48693665 V15 I48693666 V16 I48693667 V17

1/30/2021



RE: H314 Lot 14 H3 MiTek USA, Inc. 16023 Swingley Ridge Rd Chesterfield, MO 63017 314-434-1200

Site Information:

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Lot/Block: Model: Address: Subdivision: City: State:

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

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

This package includes 58 individual, dated Truss Design Drawings and 0 Additional Drawings.

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4	148693614	A4	11/8/2021	24	148693634	G1	11/8/2021
5	148693615	A5	11/8/2021	25	148693635	G2	11/8/2021
6	148693616	B1	11/8/2021	26	148693636	G3	11/8/2021
7	148693617	B2	11/8/2021	27	148693637	G4	11/8/2021
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20	148693630	D4	11/8/2021	40	148693650	P2	11/8/2021

The truss drawing(s) referenced above have been prepared by MiTek USA, Inc under my direct supervision

based on the parameters provided by Wheeler - Waverly.

Truss Design Engineer's Name: Liu, Xuegang

My license renewal date for the state of Missouri is December 31, 2022.

Missouri COA: 001193

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







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Lot/Block: Subdivision: Address:

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148693664	V14	11/8/2021
148693665	V15	11/8/2021
148693666	V16	11/8/2021
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Ply Job Truss Truss Type Qtv Lot 14 H3 H314 A1 Hip Girder Job Reference (optional

LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW

DEVELOPMENT SERVICES 148693611

Wheeler Lumber, Waverly, KS - 66871,

2-4-7 2-4-7 Run: 8.43 S Oct 11 2021 Print: 8.430 S Oct 11 2021 MiTek Industries, Inc. Fi Nov 0514:1543 📿 ID:M0g_zOYzQE8HUJ2W11Iq6GyMG9J-RfC?PsB70Hq3NSgPqnL8w3ulTXt GKWrCDdi7J4

11-6-4

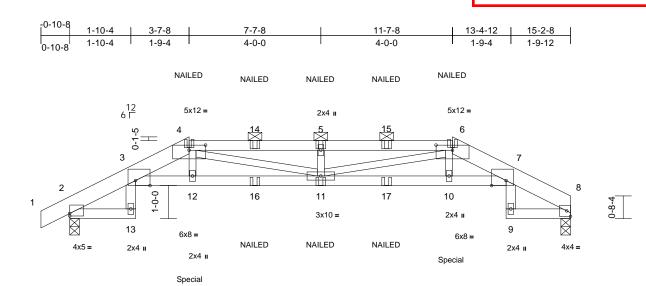
3-10-12

13-3-0

1-8-12

15-2-8

1-11-8



Scale = 1:35

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

2-0-0

2-0-0

3-8-12

1-8-12

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	0.99	Vert(LL)	-0.25	11	>713	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.64	Vert(CT)	-0.46	11	>391	240		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.26	Horz(CT)	0.39	8	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.24	11	>761	240	Weight: 53 lb	FT = 10%

7-7-8

3-10-12

LUMBER

TOP CHORD 2x6 SPF 1650F 1.4E *Except* 4-6:2x4 SPF

No.2

BOT CHORD 2x4 SPF No.2 *Except* 3-7:2x4 SPF 2100F 1 8F

WEBS

2x3 SPF No.2 *Except* 13-3,7-9:2x4 SPF

No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or

1-11-14 oc purlins, except

2-0-0 oc purlins (2-8-9 max.): 4-6. **BOT CHORD** Rigid ceiling directly applied or 9-3-2 oc

bracing.

REACTIONS (lb/size) 2=1066/0-3-8, 8=992/0-3-8

Max Horiz 2=43 (LC 8)

Max Uplift 2=-246 (LC 8), 8=-222 (LC 9)

FORCES

TOP CHORD

(lb) - Maximum Compression/Maximum

1-2=0/12, 2-3=-596/160, 3-4=-2845/731,

4-5=-3523/917, 5-6=-3523/917, 6-7=-2843/707, 7-8=-603/156

2-13=0/0, 3-12=-713/2827, 11-12=-714/2848, **BOT CHORD**

10-11=-670/2845, 7-10=-670/2824, 8-9=0/0

WEBS 3-13=-8/81, 7-9=-5/79, 4-12=-30/210,

6-10=-30/210, 6-11=-229/765 4-11=-229/757, 5-11=-297/149

NOTES

- Unbalanced roof live loads have been considered for 1) this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 222 lb uplift at joint 8 and 246 lb uplift at joint 2.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or
- "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidlines.
- 10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 211 lb down and 74 lb up at 3-7-8, and 211 lb down and 74 lb up at 11-6-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others
- 11) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

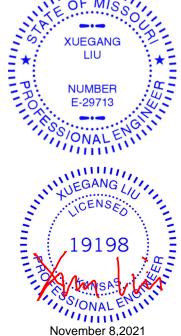
Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (lb/ft)

Vert: 1-4=-70, 4-6=-70, 6-8=-70, 2-13=-20, 3-7=-20, 8-9=-20

Concentrated Loads (lb)

Vert: 4=-23 (B), 6=-23 (B), 12=-211 (B), 10=-211 (B), 11=-35 (B), 5=-23 (B), 14=-23 (B), 15=-23 (B), 16=-35 (B), 17=-35 (B)



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not

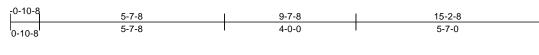
a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

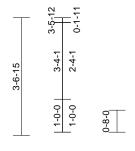


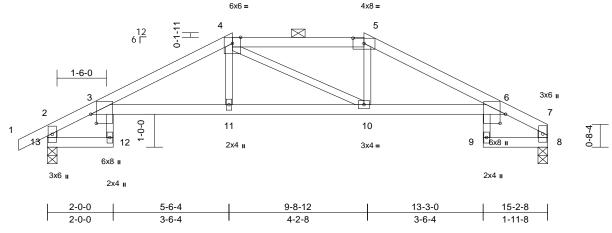
Ply Job Truss Truss Type Qty Lot 14 H3 H314 A2 Hip Job Reference (optiona RELEASE FOR CONSTRUCTION DEVELOPMENT SERVICES 148693612 LEE'S SUMMIT. MISSOURI

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.43 S Oct 11 2021 Print: 8.430 S Oct 11 2021 MiTek Industries, Inc. Fi Nov 0514:1545/ ID:MwZHi8kKRLZwKsrR2l4tMwyMGAN-RfC?PsB70Hq3NSgPqnL8w3uITXb0KWrCDoirJ4zJd?f







Scale = 1:35

Plate Offsets (X, Y): [3:0-3-5,0-2-0], [5:0-4-0,0-1-15], [6:0-3-5,0-2-0]

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	0.76	Vert(LL)	-0.21	12	>860	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.94	Vert(CT)	-0.38	12	>470	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.08	Horz(CT)	0.47	8	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.16	12	>999	240	Weight: 47 lb	FT = 10%

LUMBER

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

No.2

BOT CHORD 2x4 SPF No.2 *Except* 12-3,6-9:2x3 SPF No 2

WEBS 2x3 SPF No.2 *Except* 13-2,8-7:2x4 SPF

No.2

BRACING TOP CHORD

Structural wood sheathing directly applied or

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

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

bracing.

REACTIONS (lb/size) 8=681/0-3-8, 13=757/0-3-8

Max Horiz 13=61 (LC 5)

Max Uplift 8=-59 (LC 9), 13=-84 (LC 8)

FORCES

(lb) - Maximum Compression/Maximum Tension

1-2=0/32, 2-3=-297/55, 3-4=-1331/87,

4-5=-1191/104, 5-6=-1333/72, 6-7=-296/37,

2-13=-775/102, 7-8=-700/73

12-13=-26/0, 3-12=0/66, 3-11=-71/1197, **BOT CHORD**

10-11=-73/1189, 6-10=-26/1199, 6-9=0/64,

8-9=-25/0 **WEBS** 4-11=0/227, 4-10=-143/145, 5-10=0/228

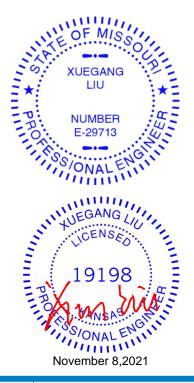
NOTES

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
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 84 lb uplift at joint 13 and 59 lb uplift at joint 8.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chorembers only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

AMSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

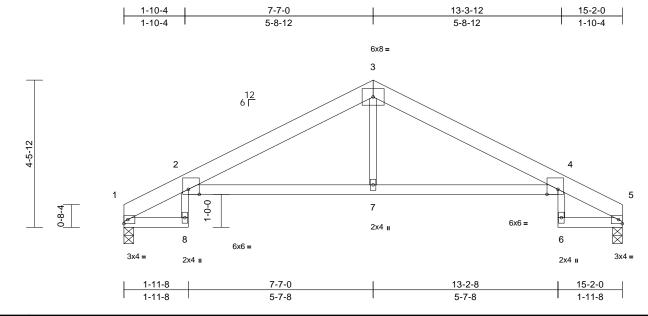


16023 Swingley Ridge Rd Chesterfield, MO 63017

Ply Job Truss Truss Type Qty Lot 14 H3 H314 **A3** Roof Special Job Reference (optional RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 148693613 LEE'S SUMMIT. MISSOURI

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.43 S Oct 11 2021 Print: 8.430 S Oct 11 2021 MiTek Industries, Inc. Fi Nov 05 14:15 46 ID:6rulz?bMaTjG3PgNY?OqY6yMGBr-RfC?PsB70Hq3NSgPqnL8w3ulTXbG (WrCDoi7J4zJC?f



Scale = 1:35.1

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	0.86	Vert(LL)	-0.20	4-7	>890	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.57	Vert(CT)	-0.37	4-7	>479	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.08	Horz(CT)	0.42	5	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.16	2-7	>999	240	Weight: 52 lb	FT = 10%

LUMBER

TOP CHORD 2x6 SPF No.2 **BOT CHORD** 2x4 SPF No.2 2x3 SPF No.2 WEBS

BRACING

TOP CHORD Structural wood sheathing directly applied or

2-2-0 oc purlins.

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

bracing.

REACTIONS (lb/size) 1=669/0-3-8, 5=669/0-3-8

Max Horiz 1=72 (LC 12)

Max Uplift 1=-82 (LC 8), 5=-82 (LC 9) **FORCES** (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-401/98, 2-3=-1090/105, 3-4=-1090/133,

4-5=-401/69

BOT CHORD 1-8=0/0, 2-7=-52/983, 4-7=-52/983, 5-6=0/0

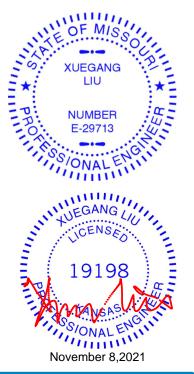
WEBS 2-8=0/58, 4-6=0/58, 3-7=0/263

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
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 82 lb uplift at joint 1 and 82 lb uplift at joint 5.

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

LOAD CASE(S) Standard





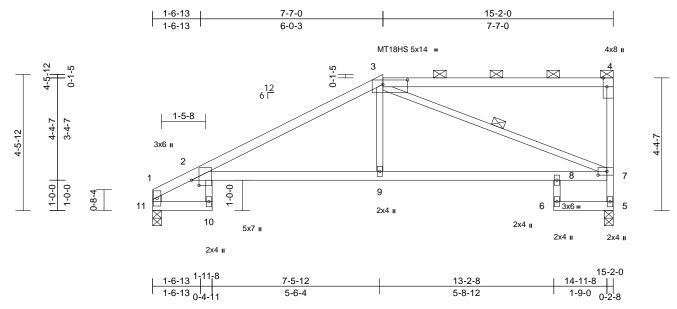


Job	Truss	Truss Type	Qty	Ply	Lot 14 H3
H314	A4	Half Hip	1	1	Job Reference (option

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 148693614 LEE'S SUMMIT. MISSOURI

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.43 S Oct 11 2021 Print: 8.430 S Oct 11 2021 MiTek Industries, Inc. F i Nov 0514:15 46 ID:18uo7Qoy6BPd8Gdhg8CMtByMGCt-RfC?PsB70Hq3NSgPqnL8w3ulTXb(KWrCDoil J4zJ 0?f



Scale = 1:37.9

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

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	0.83	Vert(LL)	-0.29	10	>618	360	MT18HS	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.92	Vert(CT)	-0.51	10	>350	240	MT20	197/144
BCLL	0.0*	Rep Stress Incr	YES	WB	0.60	Horz(CT)	0.36	5	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.27	10	>663	240	Weight: 52 lb	FT = 10%

LUMBER

TOP CHORD 2x4 SPF 2100F 1.8E *Except* 3-4:2x4 SPF

No.2

BOT CHORD 2x4 SPF No.2 *Except* 8-6:2x3 SPF No.2 **WEBS** 2x3 SPF No.2 *Except* 11-1:2x4 SPF No.2

BRACING

Structural wood sheathing directly applied or TOP CHORD 3-11-15 oc purlins, except end verticals, and

2-0-0 oc purlins (6-0-0 max.): 3-4.

Rigid ceiling directly applied or 2-2-0 oc

BOT CHORD bracing.

WEBS 1 Row at midpt 3-7

REACTIONS (lb/size) 5=672/0-3-8, 11=682/0-3-8

Max Horiz 11=167 (LC 7)

Max Uplift 5=-118 (LC 5), 11=-74 (LC 8)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=-322/41, 2-3=-1086/98, 3-4=-71/43,

5-7=-648/131, 4-7=-252/107, 1-11=-693/97

BOT CHORD 10-11=-32/8, 2-9=-189/945, 8-9=-192/938,

7-8=-197/947, 6-8=0/24, 5-6=-15/5

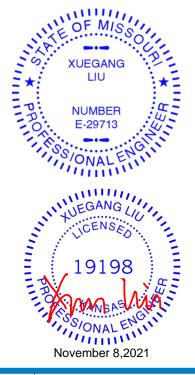
WEBS 2-10=-15/62, 3-9=0/361, 3-7=-956/149

NOTES

- 1) Unbalanced roof live loads have been considered for this design
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- All plates are MT20 plates unless otherwise indicated. This truss has been designed for a 10.0 psf bottom
- chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.

- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 118 lb uplift at joint 5 and 74 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





Job	Truss	Truss Type	Qty	Ply	Lot 14 H3
H314	A5	Half Hip	1	1	Job Reference (option

DEVELOPMENT SERVICES 148693615 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.43 S Oct 11 2021 Print: 8.430 S Oct 11 2021 MiTek Industries, Inc. Fi Nov 05 14:15 46 ID:he23x5KVICV9yH8BuS?DnzyMGDU-RfC?PsB70Hq3NSgPqnL8w3uITXb6KWrCDoi7J4zJe?f

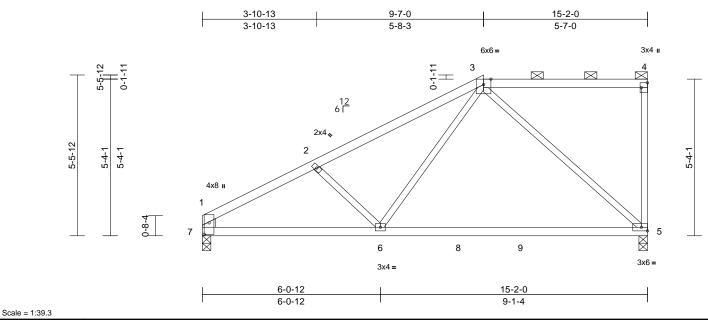


Plate Offsets (X, Y): [1:0-4-11,0-2-0], [4:Edge,0-2-8]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.46	Vert(LL)	-0.24	5-6	>751	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.47	Vert(CT)	-0.43	5-6	>416	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.83	Horz(CT)	0.01	5	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.05	5-6	>999	240	Weight: 54 lb	FT = 10%

LUMBER

TOP CHORD 2x4 SPF No.2 **BOT CHORD** 2x4 SPF 2100F 1.8E

2x3 SPF No.2 *Except* 7-1:2x6 SP DSS WEBS

BRACING

TOP CHORD Structural wood sheathing directly applied or

4-11-13 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 (lb/size) 5=668/0-3-8 7=668/0-3-8

Max Horiz 7=207 (LC 7)

Max Uplift 5=-113 (LC 5), 7=-89 (LC 8) Max Grav 5=707 (LC 2), 7=697 (LC 2)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-1063/161, 2-3=-911/129, 3-4=-77/56,

4-5=-184/81, 1-7=-600/105 **BOT CHORD** 6-7=-193/888, 5-6=-136/459

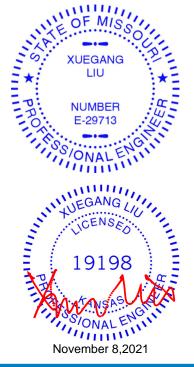
WEBS 2-6=-257/196. 3-6=-29/535. 3-5=-600/128

NOTES

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

- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 113 lb uplift at joint 5 and 89 lb uplift at joint 7.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard







Ply Job Truss Truss Type Qty Lot 14 H3 H314 В1 Piggyback Base Supported Gable Job Reference (optional

S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 148693616 LEE'S SUMMIT. MISSOURI

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.43 S Oct 11 2021 Print: 8.430 S Oct 11 2021 MiTek Industries, Inc. Fi Nov 0514:15 47 ID:vvDK1IM?eqam1cgOSb?XKOyMG8G-RfC?PsB70Hq3NSgPqnL8w3uITXt GKWrCDdi7J4zJC

RELEASE FOR CONSTRUCTION

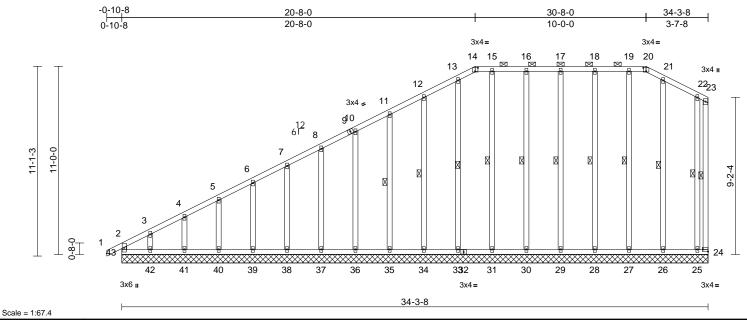


Plate Offsets (X, Y): [14:0-2-0,0-2-8], [20:0-2-0,0-2-8], [24:Edge,0-1-8]

26=191/34-3-8, 27=179/34-3-8,

28=179/34-3-8, 29=180/34-3-8,

30=179/34-3-8, 31=181/34-3-8,

33=180/34-3-8, 34=179/34-3-8,

35=180/34-3-8, 36=180/34-3-8,

37=180/34-3-8, 38=180/34-3-8,

39=180/34-3-8, 40=178/34-3-8,

41=188/34-3-8, 42=141/34-3-8,

26=-72 (LC 9), 27=-38 (LC 5),

28=-41 (LC 4), 29=-34 (LC 5),

30=-43 (LC 4), 31=-48 (LC 5),

33=-32 (LC 5), 34=-63 (LC 8),

35=-53 (LC 8), 36=-54 (LC 8),

37=-54 (LC 8), 38=-54 (LC 8),

39=-53 (LC 8), 40=-59 (LC 8),

41=-34 (LC 8), 42=-161 (LC 8),

43=151/34-3-8

43=-27 (LC 4)

Max Uplift 24=-96 (LC 7), 25=-151 (LC 4),

Max Horiz 43=403 (LC 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	0.37	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.16	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.13	Horz(CT)	-0.01	24	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R							Weight: 236 lb	FT = 10%

LUMBER TOP CHORD BOT CHORD WEBS OTHERS BRACING	2x4 SPF No.2 2x4 SPF No.2 2x4 SPF No.2 2x4 SPF No.2			Max Grav	24=61 (LC 4), 25=257 (LC 7), 26=191 (LC 22), 27=179 (LC 1), 28=182 (LC 21), 29=180 (LC 1), 30=182 (LC 22), 31=181 (LC 21), 33=180 (LC 21), 34=179 (LC 1), 35=180 (LC 21), 36=180 (LC 1),
TOP CHORD BOT CHORD	6-0-0 oc purlins, 6 2-0-0 oc purlins (6	neathing directly applied or except end verticals, and i-0-0 max.): 14-20. tly applied or 10-0-0 oc			37=180 (LC 1), 38=180 (LC 21), 39=180 (LC 1), 40=178 (LC 21), 41=188 (LC 1), 42=145 (LC 15), 43=266 (LC 16)
BOT CHOKD	bracing.	ily applied of 10-0-0 oc	FORCES	` '	kimum Compression/Maximum
WEBS	1 Row at midpt	23-24, 11-35, 12-34, 13-33, 15-31, 16-30, 17-29, 18-28, 19-27, 21-26, 22-25	TOP CHORD	3-4=-311 6-7=-237	1/31, 1-2=0/32, 2-3=-367/83, /79, 4-5=-288/80, 5-6=-259/80, /81, 7-8=-223/93, 8-10=-208/107,
REACTIONS	(lb/size) 24=1/34	4-3-8, 25=122/34-3-8,			93/120, 11-12=-178/133, 67/150, 13-14=-134/142

num 33. 9/80 08/107. 12-13=-167/150, 13-14=-134/142, 14-15=-125/139, 15-16=-125/139, 16-17=-125/139, 17-18=-125/139, 18-19=-125/139, 19-20=-125/139, 20-21=-130/139, 21-22=-163/144, 22-23=-202/156, 23-24=-201/154 BOT CHORD 42-43=-129/98, 41-42=-129/98,

40-41=-129/98, 39-40=-129/98, 38-39=-129/98, 37-38=-129/98, 36-37=-129/98, 35-36=-129/98, 34-35=-129/98, 33-34=-129/98, 31-33=-129/98, 30-31=-129/98, 29-30=-129/98, 28-29=-129/98, 27-28=-129/98, 26-27=-129/98, 25-26=-129/98. 24-25=-129/98

3-42=-109/133, 4-41=-146/68, 5-40=-139/80, 6-39=-140/77, 7-38=-140/78, 8-37=-140/78, 10-36=-140/78, 11-35=-140/77, 12-34=-139/87, 13-33=-140/56 15-31=-141/72, 16-30=-142/67 17-29=-140/58, 18-28=-142/65

19-27=-140/64, 21-26=-150/92,

22-25=-89/122

NOTES

- Unbalanced roof live loads have been considered for this design.
 Wind: ASCE 7-16; Vult=115mph (3-4ec@nd gdst)
- Vasd=91mph; TCD1=6.0pst; BCD1=6.0pst; D=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and ight 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 stude exposed to wind (normal to the face),see Standard Industry Gable End Details as applicable, or consult qualified building designed as per ANSI//PH1. Provide adequate grainage to payent water ponding.
- All plates are 2x4 MT20 unless otherwise indicated. 5)

- Gable requires continuous bottom chord bearing.

 Truss to be fully sheathed from one face of 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.



November 8,2021

Continued on page 2

Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE

WEBS

Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



16023 Swingley Ridge Rd Chesterfield, MO 63017

Ply Job Truss Truss Type Qty Lot 14 H3 H314 В1 Piggyback Base Supported Gable Job Reference (optional

LEE'S SUMMIT, MISSOURI Run: 8.43 S Oct 11 2021 Print: 8.430 S Oct 11 2021 MiTek Industries, Inc. Fi Nov 0514:154730/292
ID:vvDK1IM?eqam1cgOSb?XKOyMG8G-RfC?PsB70Hq3NSgPqnL8w3uITXt GKWrCDoi7J4z/C?

AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 148693616

RELEASE FOR CONSTRUCTION

Wheeler Lumber, Waverly, KS - 66871,

- 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.
- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 27 lb uplift at joint 43, 96 lb uplift at joint 24, 161 lb uplift at joint 42, 34 lb uplift at joint 41, 59 lb uplift at joint 40, 53 lb uplift at joint 39, 54 lb uplift at joint 38, 54 lb uplift at joint 37, 54 lb uplift at joint 36, 53 lb uplift at joint 35, 63 lb uplift at joint 34, 32 lb uplift at joint 33, 48 lb uplift at joint 31, 43 lb uplift at joint 30, 34 lb uplift at joint 29, 41 lb uplift at joint 28, 38 lb uplift at joint 27, 72 lb uplift at joint 26 and 151 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.



Ply Job Truss Truss Type Qty Lot 14 H3 H314 B2 Piggyback Base Job Reference (optiona RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 148693617 LEE'S SUMMIT. MISSOURI

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.43 S Oct 11 2021 Print: 8.430 S Oct 11 2021 MiTek Industries, Inc. F i Nov 05 14:15 48 ID:55VBcJJZ15XZ?IDZahw313yMG71-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4z

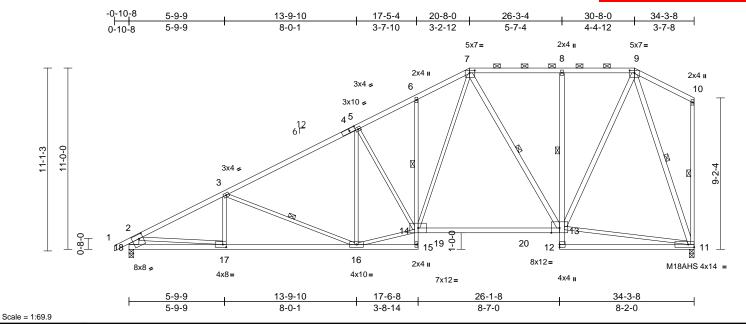


Plate Offsets (X, Y): [4:0-4-5,0-1-8], [7:0-3-12,0-1-12], [9:0-3-8,0-1-12], [17:0-2-8,0-2-0], [18:0-3-0,0-3-0]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.84	Vert(LL)	-0.32	13-14	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.87	Vert(CT)	-0.56	13-14	>731	240	M18AHS	142/136
BCLL	0.0*	Rep Stress Incr	YES	WB	0.90	Horz(CT)	0.09	11	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.10	16-17	>999	240	Weight: 189 lb	FT = 10%

LUMBER

TOP CHORD 2x4 SPF No.2

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

14-13:2x4 SPF 2100F 1.8E

WEBS 2x3 SPF No.2 *Except* 13-7,13-9,11-9:2x4

SPF No.2, 18-2:2x8 SP DSS

BRACING

TOP CHORD Structural wood sheathing directly applied,

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

(5-4-8 max.): 7-9. **BOT CHORD** Rigid ceiling directly applied or 6-0-0 oc

bracing. Except:

1 Row at midpt 6-14, 8-13

WEBS 7-13, 10-11, 9-11, 3-16 1 Row at midpt

REACTIONS (lb/size) 11=1523/0-3-8, 18=1609/0-3-8

Max Horiz 18=388 (LC 8)

Max Uplift 11=-150 (LC 8), 18=-208 (LC 8)

Max Grav 11=1614 (LC 2), 18=1665 (LC 2)

FORCES Tension

TOP CHORD

(lb) - Maximum Compression/Maximum

1-2=0/37, 2-3=-2707/303, 3-5=-2184/251,

5-6=-2000/302, 6-7=-1944/357,

7-8=-1053/161, 8-9=-1045/161, 9-10=-49/63,

10-11=-115/63, 2-18=-1575/232

BOT CHORD 17-18=-422/470, 16-17=-586/2360 15-16=-170/0, 14-15=0/21, 6-14=-116/81,

13-14=-222/1350, 12-13=0/173, 8-13=-399/168, 11-12=-21/42

WEBS 7-14=-266/1169, 7-13=-602/206

11-13=-55/481, 9-13=-153/1369, 9-11=-1528/186, 2-17=-165/1903,

3-17=-41/173, 3-16=-548/216, 5-16=-148/98,

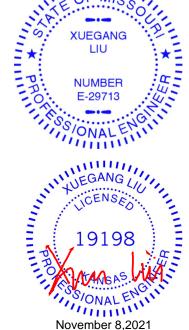
14-16=-341/2056, 5-14=-328/159

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 exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- All plates are MT20 plates unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom 5) chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 208 lb uplift at joint 18 and 150 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







Ply Job Truss Truss Type Qtv Lot 14 H3 H314 В3 Piggyback Base 2 Job Reference (optiona RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 148693618 LEE'S SUMMIT. MISSOURI

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.43 S Oct 11 2021 Print: 8.430 S Oct 11 2021 MiTek Industries, Inc. Fi Nov 05 14:15 48

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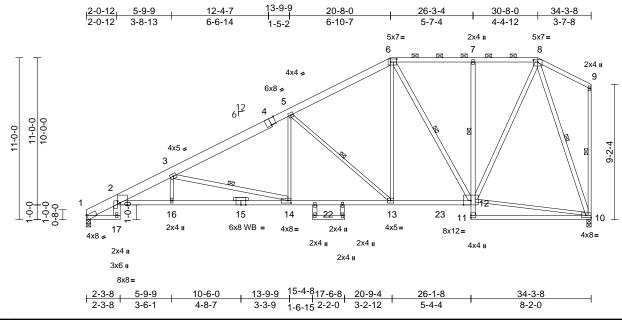


Plate Offsets (X, Y): [1:Edge,0-0-1], [2:0-5-14,Edge], [2:0-1-10,0-2-2], [4:0-4-0,Edge], [6:0-5-0,0-2-8], [8:0-3-8,0-1-12], [10:Edge,0-2-0], [14:0-2-8,0-2-0]

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	0.73	Vert(LL)	-0.29	14-16	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.61	Vert(CT)	-0.54	14-16	>763	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.89	Horz(CT)	0.29	10	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.22	14-16	>999	240	Weight: 213 lb	FT = 10%

LUMBER

BOT CHORD

Scale = 1:78.3

2x4 SPF No.2 *Except* 4-6:2x6 SPF No.2, TOP CHORD

4-1:2x8 SP DSS

2x4 SPF No.2 *Except* 2-15,11-10,15-12:2x4

SPF 2100F 1.8E

WEBS 2x3 SPF No.2 *Except* 17-2:2x6 SPF No.2,

14-3,12-6,12-8,10-8:2x4 SPF No.2

OTHERS 2x3 SPF No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or

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

BOT CHORD Rigid ceiling directly applied or 8-2-7 oc

bracing. Except:

1 Row at midpt 7-12

WEBS 1 Row at midpt 3-14, 5-13, 6-12, 9-10,

8-10

REACTIONS (lb/size) 1=1532/0-3-8, 10=1532/0-3-8

Max Horiz 1=395 (LC 8)

Max Uplift 1=-182 (LC 8), 10=-152 (LC 8) Max Grav 1=1614 (LC 2), 10=1624 (LC 2)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-874/0, 2-3=-3960/577, 3-5=-2620/327,

5-6=-1675/233, 6-7=-1046/165,

7-8=-1039/165, 8-9=-48/64, 9-10=-114/63 **BOT CHORD** 1-17=0/0, 2-16=-913/3817, 14-16=-908/3812,

13-14=-459/2244, 12-13=-215/1416, 11-12=0/173, 7-12=-387/165, 10-11=0/137

2-17=-1/68, 3-16=-36/162, 3-14=-1619/464,

5-13=-1120/327, 6-13=-139/1014,

6-12=-747/183, 10-12=-87/363,

8-12=-158/1362, 8-10=-1523/190, 5-14=-23/715

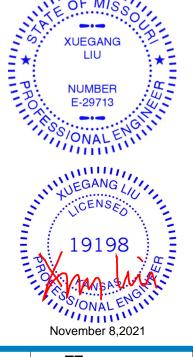
NOTES

WFBS

Unbalanced roof live loads have been considered for this design.

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- All plates are 2x4 MT20 unless otherwise indicated. 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 182 lb uplift at joint 1 and 152 lb uplift at joint 10.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802 10 2 and referenced standard ANSI/TPI 1
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard





Design Valid to its 90 mly with win New Commercials. This design is based only upon parameters shown, and is 10 at an individual outlining Component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

ANSI/TPI Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Ply Job Truss Truss Type Qty Lot 14 H3 H314 B4 Piggyback Base Job Reference (optional RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 148693619 LEE'S SUMMIT. MISSOURI

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.43 S Oct 11 2021 Print: 8.430 S Oct 11 2021 MiTek Industries, Inc. Fi Nov 05 14:15 49 ID:ZXM0xNjboYzc_sTdIWVBsXyMENU-RfC?PsB70Hq3NSgPqnL8w3uITXb(KWrCDoi7J4zJC?f

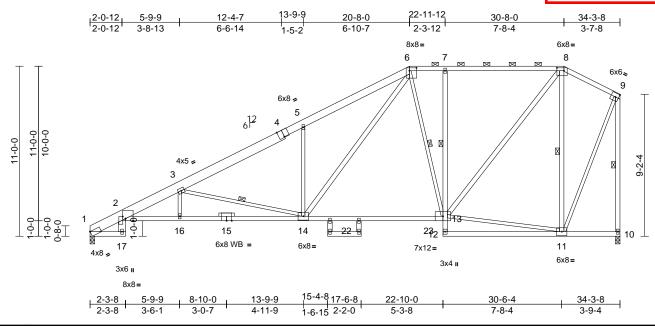


Plate Offsets (X, Y): [1:Edge,0-0-1], [2:0-5-14,Edge], [2:0-1-10,0-2-2], [4:0-4-0,Edge], [6:0-5-8,0-2-4], [8:0-5-8,0-2-4]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.83	Vert(LL)	-0.38	13-14	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.72	Vert(CT)	-0.65	13-14	>628	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.99	Horz(CT)	0.28	10	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.23	14-16	>999	240	Weight: 216 lb	FT = 10%

LUMBER

Scale = 1:74.6

2x4 SPF No.2 *Except* 4-6:2x6 SPF No.2, TOP CHORD

4-1:2x8 SP DSS

2x4 SPF No.2 *Except* 2-15,15-13:2x4 SPF BOT CHORD

2100F 1.8E

WEBS 2x3 SPF No.2 *Except* 17-2:2x6 SPF No.2,

14-6,13-8,11-8,10-9:2x4 SPF No.2

OTHERS 2x3 SPF No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or

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

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

bracing. Except:

1 Row at midpt 7-13

TOP CHORD

BOT CHORD

WEBS 1 Row at midpt 3-14, 6-13, 8-11, 9-10

REACTIONS (lb/size) 1=1530/0-3-8, 10=1530/0-3-8

Max Horiz 1=395 (LC 8)

Max Uplift 1=-182 (LC 8), 10=-152 (LC 8)

Max Grav 1=1607 (LC 2), 10=1617 (LC 2)

FORCES (lb) - Maximum Compression/Maximum

Tension

1-2=-871/0, 2-3=-3905/578, 3-5=-2629/321, 5-6=-2631/498, 6-7=-1309/217,

7-8=-1309/219, 8-9=-607/80, 9-10=-1591/158

1-17=0/0, 2-16=-913/3767, 14-16=-908/3761,

13-14=-224/1372, 12-13=0/142,

7-13=-491/212, 11-12=-58/13, 10-11=-1/3

WEBS 2-17=-1/68, 3-16=-53/132, 3-14=-1556/470,

> 6-14=-395/1520, 6-13=-348/203, 11-13=-41/538, 8-13=-218/1311,

8-11=-1112/213, 9-11=-131/1362,

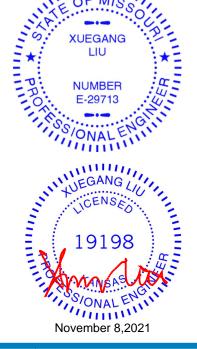
5-14=-571/319

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 exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- All plates are 2x4 MT20 unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 182 lb uplift at joint 1 and 152 lb uplift at joint 10.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard





WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chorembers only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

ANSI/TP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



16023 Swingley Ridge Rd Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Lot 14 H3
H314	B5	Piggyback Base	1	1	Job Reference (options

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 148693620 LEE'S SUMMIT. MISSOURI

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.43 S Oct 11 2021 Print: 8.430 S Oct 11 2021 MiTek Industries, Inc. F i Nov 05 14:15 49 ID:Lm7JIFtFtFOMKD4rjuhw43yMEKi-RfC?PsB70Hq3NSgPqnL8w3uITXbGK_VrCDoi7J4zJO?f

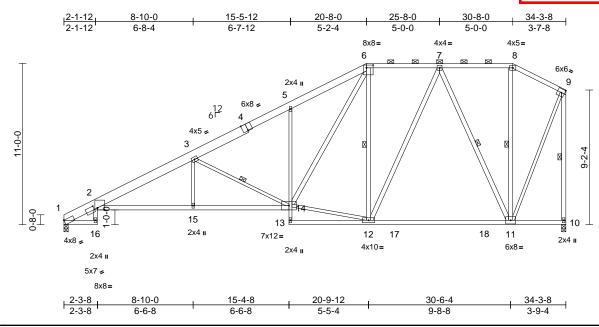


Plate Offsets (X, Y): [1:Edge,0-0-1], [2:0-5-14,Edge], [2:0-2-14,0-3-0], [4:0-4-0,Edge], [6:0-5-8,0-2-4]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.84	Vert(LL)	-0.34	11-12	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.60	Vert(CT)	-0.58	2-15	>704	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.85	Horz(CT)	0.34	10	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.27	2-15	>999	240	Weight: 214 lb	FT = 10%

LUMBER

BOT CHORD

Scale = 1:78.7

2x4 SPF No.2 *Except* 4-6:2x6 SPF No.2, TOP CHORD

4-1:2x8 SP DSS

2x4 SPF 2100F 1.8E *Except* 1-16:2x4 SPF

No.2. 5-13:2x3 SPF No.2

WEBS 2x4 SPF No.2 *Except*

3-15,14-3,12-14,11-9:2x3 SPF No.2

BRACING TOP CHORD

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

2-0-0 oc purlins (5-0-3 max.): 6-8.

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

bracing. WEBS 3-14, 6-12, 7-11, 8-11, 1 Row at midp

9-10

REACTIONS (lb/size) 1=1530/0-3-8, 10=1530/0-3-8

Max Horiz 1=395 (LC 8)

Max Uplift 1=-182 (LC 8), 10=-152 (LC 8) Max Grav 1=1595 (LC 2), 10=1642 (LC 2)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD

1-2=-859/0, 2-3=-3354/451, 3-5=-2324/317,

 $5-6=-2231/440,\ 6-7=-1276/228,\ 7-8=-530/83,$

8-9=-633/78, 9-10=-1659/150 **BOT CHORD**

1-16=0/0, 2-15=-727/3144, 14-15=-725/3141, 13-14=0/58, 5-14=-302/209, 12-13=-28/39,

11-12=-128/972, 10-11=-2/3

WEBS 2-16=0/69, 3-15=0/253, 3-14=-1356/381,

12-14=-166/1294, 6-14=-417/1396, 6-12=-633/269, 7-12=-146/744,

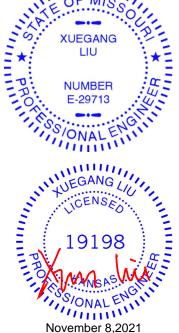
7-11=-1081/208, 8-11=-97/106, 9-11=-114/1406

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 exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 182 lb uplift at joint 1 and 152 lb uplift at joint 10.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard







Ply Job Truss Truss Type Qty Lot 14 H3 H314 В6 Piggyback Base Job Reference (optional S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 148693621 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.43 S Oct 11 2021 Print: 8.430 S Oct 11 2021 MiTek Industries, Inc. F i Nov 05 14:15 49 ID:MTWT2EXZ?soXtzoihXMfTzyMEY2-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4z

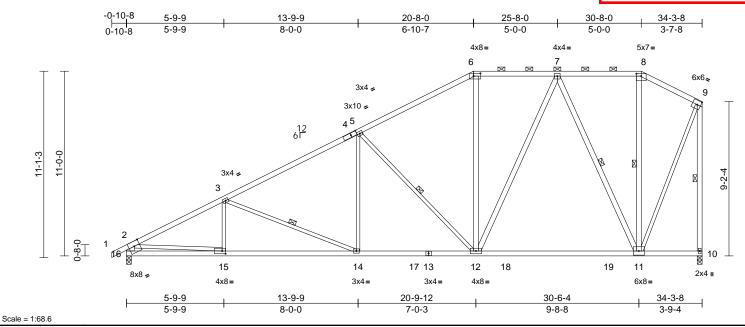


Plate Offsets (X, Y): [4:0-4-4,0-1-8], [6:0-5-0,0-2-0], [8:0-3-8,0-1-12], [15:0-2-8,0-2-0]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.76	Vert(LL)	-0.31	11-12	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.88	Vert(CT)	-0.51	11-12	>805	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.84	Horz(CT)	0.07	10	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.10	14-15	>999	240	Weight: 178 lb	FT = 10%

LUMBER

TOP CHORD 2x4 SPF No.2

2x4 SPF No.2 *Except* 13-10:2x4 SPF BOT CHORD

2100F 1.8E

WEBS 2x3 SPF No.2 *Except*

12-6,12-7,11-7,11-8,10-9:2x4 SPF No.2,

16-2:2x6 SPF No.2

BRACING

FORCES

TOP CHORD Structural wood sheathing directly applied or

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

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

bracing. WEBS 3-14, 5-12, 7-11, 8-11, 1 Row at midp

9-10

REACTIONS (lb/size) 10=1525/0-3-8, 16=1605/0-3-8

Max Horiz 16=389 (LC 8)

Max Uplift 10=-151 (LC 8), 16=-206 (LC 8) Max Grav 10=1659 (LC 2), 16=1684 (LC 2)

(lb) - Maximum Compression/Maximum

Tension TOP CHORD 1-2=0/35, 2-3=-2776/304, 3-5=-2240/256,

5-6=-1544/208, 6-7=-1293/229, 7-8=-536/82,

8-9=-640/78, 9-10=-1677/149,

2-16=-1592/231

BOT CHORD 15-16=-442/548, 14-15=-586/2419,

12-14=-394/1918, 11-12=-127/985,

WEBS 3-15=-20/187, 3-14=-551/207, 5-14=0/492,

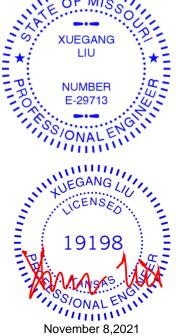
5-12=-909/295, 6-12=0/347, 7-12=-150/761, 7-11=-1098/206, 8-11=-97/109,

9-11=-113/1422, 2-15=-144/1881

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 exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 206 lb uplift at joint 16 and 151 lb uplift at joint 10.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.





Ply Job Truss Truss Type Qty Lot 14 H3 H314 C1 Piggyback Base Job Reference (optiona S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 148693622 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.43 S Oct 11 2021 Print: 8.430 S Oct 11 2021 MiTek Industries, Inc. Fi Nov 0514:1550 ID:S46Op_F4yHRa9hhKUHToAdyMEZi-RfC?PsB70Hq3NSgPqnL8w3ulTXb6KWrCDoi7J4zJe?f

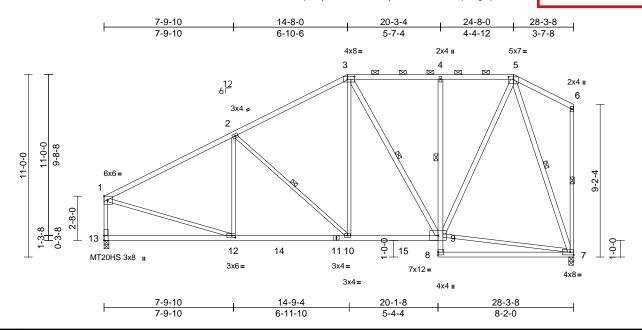


Plate Offsets (X, Y): [1:Edge,0-2-11], [3:0-5-0,0-2-0], [5:0-3-8,0-1-12], [12:0-2-8,0-1-8]

Loading	(psf)	Spacing	2-0-0	csı		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.82	Vert(LL)	-0.16	7-8	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.64	Vert(CT)	-0.33	7-8	>999	240	MT20HS	148/108
BCLL	0.0*	Rep Stress Incr	YES	WB	0.71	Horz(CT)	0.04	7	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.04	10-12	>999	240	Weight: 157 lb	FT = 10%

LUMBER

Scale = 1:69.4

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

2x3 SPF No.2 *Except* 9-3,9-5,7-5:2x4 SPF WEBS

BRACING TOP CHORD

Structural wood sheathing directly applied, 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:

1 Row at midpt 4-9

WEBS 1 Row at midpt 3-9, 6-7, 5-7, 2-10

REACTIONS (lb/size) 7=1264/0-3-8, 13=1264/0-3-8

Max Horiz 13=256 (LC 8)

Max Uplift 7=-114 (LC 5), 13=-127 (LC 8) Max Grav 7=1341 (LC 2), 13=1348 (LC 2)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-1542/159. 2-3=-1232/168.

3-4=-814/129, 4-5=-810/129, 5-6=-49/63, 6-7=-114/63, 1-13=-1229/166

12-13=-275/84, 10-12=-311/1302,

9-10=-152/1014, 8-9=0/173, 4-9=-401/169,

WEBS 3-10=-69/554, 3-9=-423/132, 7-9=-80/280,

5-9=-130/1041, 5-7=-1212/175, 1-12=-38/1292, 2-10=-422/215,

2-12=-200/112

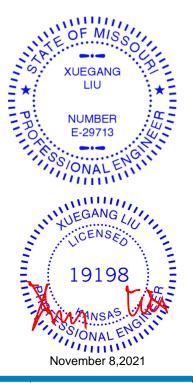
NOTES

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; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.

- All plates are MT20 plates unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 127 lb uplift at joint 13 and 114 lb uplift at joint 7.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard





Job	Truss	Truss Type	Qty	Ply	Lot 14 H3
H314	C2	Piggyback Base	1	1	Job Reference (option

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.43 S Oct 11 2021 Print: 8.430 S Oct 11 2021 MiTek Industries, Inc. F i Nov 05 14:15 50 ID:8qSuMYeuxcFtJP5reUldsMyMEH7-RfC?PsB70Hq3NSgPqnL8w3ulTXbGl(WrCDoi7J4zJC?

164 2

32-0-0

7-5-4

3x4 II

6x12= 32-0-8

0-0-8

39-6-7

7-5-15

S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 148693623 LEE'S SUMMIT. MISSOURI

₹2

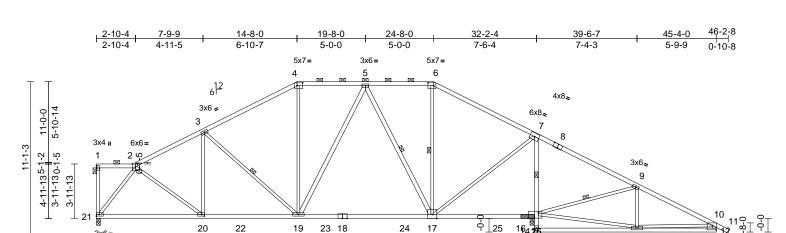
6x8=

3x10=

45-4-0

5-9-9

RELEASE FOR CONSTRUCTION



24

17

8x8=

Scale = 1:84.3

Plate Offsets (X, Y): [2:0-2-11,Edge], [4:0-5-0,0-2-8], [6:0-5-0,0-2-8], [8:0-4-0,Edge], [12:Edge,0-3-13], [15:0-9-0,0-4-8], [20:0-2-8,0-1-8]

19

3x10=

23 18

4x8=

24-6-12

9-9-8

20

3x6=

22

14-9-4

6-11-11

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.77	Vert(LL)	-0.29	17-19	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.76	Vert(CT)	-0.45	17-19	>848	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.77	Horz(CT)	0.02	15	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.04	19-20	>999	240	Weight: 207 lb	FT = 10%

LUMBER

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

1.8E

3x6=

BOT CHORD 2x4 SPF No.2 *Except* 18-15,16-15:2x4 SPF 2400F 2 0F

7-9-9

7-9-9

WEBS 2x3 SPF No.2 *Except* 19-5,17-5,12-10:2x4

SPF No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or

4-1-7 oc purlins, except end verticals, and 2-0-0 oc purlins (5-6-13 max.): 1-2, 4-6.

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

bracing, Except:

6-0-0 oc bracing: 15-17,13-14.

1 Row at midpt 7-15

WEBS 1 Row at midpt 3-19, 5-17, 6-17, 9-15

REACTIONS (lb/size) 15=2952/(0-3-8 + bearing block), (req. 0-4-14), 21=1177/0-3-8

Max Horiz 21=-263 (LC 4)

Max Uplift 15=-374 (LC 9), 21=-170 (LC 8)

Max Grav 15=3118 (LC 2), 21=1363 (LC 23)

FORCES Tension

(lb) - Maximum Compression/Maximum

TOP CHORD

1-21=-91/32, 1-2=-62/37, 2-3=-1507/182,

3-4=-1265/204, 4-5=-1047/229,

5-6=-516/153, 6-7=-614/146, 7-9=-272/1680, 9-10=-124/621, 10-11=0/32, 10-12=-15/82

BOT CHORD 20-21=-115/917, 19-20=-99/1302,

17-19=-36/859, 15-17=-1399/423,

14-15=-24/131, 7-15=-2675/401,

13-14=-97/37, 12-13=-63/126

2-21=-1449/225, 2-20=-8/533, 3-20=-130/114, 3-19=-410/167, 4-19=0/223,

5-19=-61/545, 5-17=-849/181, 6-17=-339/126, 7-17=-148/2174, 13-15=-374/125, 9-15=-999/273,

9-13=-73/373. 10-13=-593/224

- 1) 2x4 SPF 2400F 2.0E bearing block 12" long at jt. 15 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.
- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) 3) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 170 lb uplift at joint 21 and 374 lb uplift at joint 15.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard





WEBS

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chorembers only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

AMSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



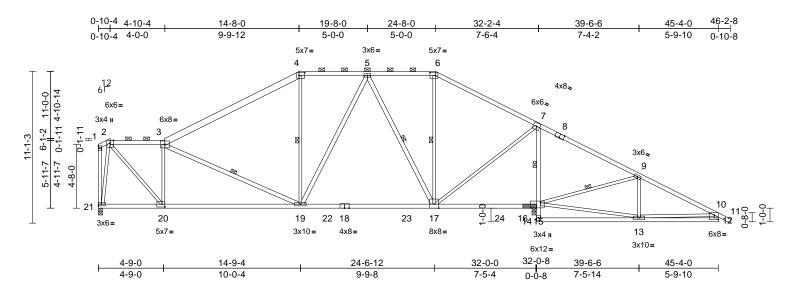
16023 Swingley Ridge Rd Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Lot 14 H3
H314	C3	Piggyback Base	1	1	Job Reference (option

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 148693624 LEE'S SUMMIT. MISSOURI

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.43 S Oct 11 2021 Print: 8.430 S Oct 11 2021 MiTek Industries, Inc. F i Nov 05 14:15 51 ID:F7P5sxxaLgzVOzj4xYAtlDyMEBa-RfC?PsB70Hq3NSgPqnL8w3uITXbGK VrCDoi7J4zJO?f/



Scale = 1:84.3

Plate Offsets (X, Y)	: [4:0-5-0,0-2-8], [6:0-5-0,0-2-8]	, [8:0-4-0,Edge], [12:Edge,0-3-13]	, [15:0-8-12,0-4-8], [20:0-2-8,0-2-8]
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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	0.83	Vert(LL)	-0.26	17-19	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.92	Vert(CT)	-0.41	19-20	>935	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.74	Horz(CT)	0.02	15	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.04	19-20	>999	240	Weight: 219 lb	FT = 10%

LUMBER

TOP CHORD 2x4 SPF No.2 *Except* 3-4:2x6 SPF No.2,

6-8:2x4 SPF 2100F 1.8E

2x4 SPF No.2 *Except* 18-15,16-15:2x4 SPF BOT CHORD

2400F 2 0F

WEBS 2x3 SPF No.2 *Except*

19-5,17-5,12-10,3-19:2x4 SPF No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals, and 2-0-0 oc purlins (5-1-4 max.): 2-3, 4-6.

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

bracing. Except:

1 Row at midpt 7-15 WEBS

1 Row at midpt 4-19, 5-17, 6-17, 9-15, 3-19

REACTIONS (lb/size) 15=2952/(0-3-8 + bearing block),(req. 0-4-14), 21=1177/0-3-8

Max Horiz 21=-283 (LC 4)

Max Uplift 15=-373 (LC 9), 21=-176 (LC 8)

Max Grav 15=3107 (LC 2), 21=1333 (LC 23)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-93/67, 2-3=-1185/123, 3-4=-1300/162,

4-5=-1048/221, 5-6=-504/150, 6-7=-601/143, 7-9=-272/1679, 9-10=-124/622, 10-11=0/32,

1-21=-99/55, 10-12=-15/82

BOT CHORD 20-21=-70/349, 19-20=-83/1205,

17-19=-28/845, 15-17=-1398/424,

14-15=-24/131, 7-15=-2658/403, 13-14=-100/35, 12-13=-63/127

WEBS 2-20=-174/1526, 3-20=-952/240,

4-19=-124/173, 5-19=-63/567,

5-17=-853/174, 6-17=-343/127, 7-17=-150/2157, 13-15=-371/127,

9-15=-998/273, 9-13=-74/372

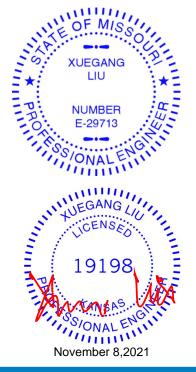
2-21=-1271/197, 10-13=-594/225,

3-19=-257/121

NOTES

- 1) 2x4 SPF 2400F 2.0E bearing block 12" long at jt. 15 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
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 373 lb uplift at joint 15 and 176 lb uplift at joint 21.
- This truss 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



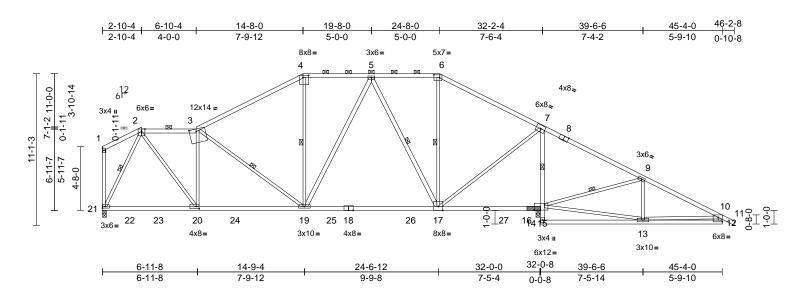


Job	Truss	Truss Type	Qty	Ply	Lot 14 H3
H314	C4	Piggyback Base	1	1	Job Reference (options

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 148693625 LEE'S SUMMIT. MISSOURI

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.43 S Oct 11 2021 Print: 8.430 S Oct 11 2021 MiTek Industries, Inc. Fi Nov 0514:1551 ID:Jfldl2k0ltPw5WUZaZXd9SyMGge-RfC?PsB70Hq3NSgPqnL8w3ulTXbGK VrCDoi7J4zJO?f



Scale = 1:84.3

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	0.77	Vert(LL)	-0.29	17-19	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.80	Vert(CT)	-0.44	17-19	>869	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.75	Horz(CT)	0.02	15	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.04	19-20	>999	240	Weight: 210 lb	FT = 10%

BOT CHORD

TOP CHORD 2x4 SPF No.2 *Except* 3-4,6-8:2x4 SPF

2100F 1.8E

2x4 SPF No.2 *Except* 18-15,16-15:2x4 SPF 2400F 2 0F

WEBS 2x3 SPF No.2 *Except* 19-5,17-5,12-10:2x4

SPF No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or

4-10-1 oc purlins, except end verticals, and 2-0-0 oc purlins (4-10-9 max.): 2-3, 4-6.

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

bracing, Except:

6-0-0 oc bracing: 15-17,13-14.

1 Row at midpt 7-15

BOT CHORD

WEBS 1 Row at midpt 3-19, 4-19, 5-17, 6-17,

9-15, 2-21

REACTIONS (lb/size) 15=2952/(0-3-8 + bearing block),

(req. 0-4-14), 21=1177/0-3-8

Max Horiz 21=-285 (LC 4)

Max Uplift 15=-373 (LC 9), 21=-175 (LC 8) Max Grav 15=3120 (LC 2), 21=1393 (LC 23)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-105/78, 2-3=-1326/173, 3-4=-1285/182,

4-5=-1057/223, 5-6=-517/149, 6-7=-615/142, 7-9=-272/1679, 9-10=-124/622, 10-11=0/32,

10-12=-15/82, 1-21=-118/55

20-21=-70/678, 19-20=-76/1313 17-19=-28/861, 15-17=-1399/424,

14-15=-24/131, 7-15=-2675/401,

13-14=-98/37, 12-13=-63/127 **WEBS** 2-20=-113/1269, 3-20=-779/188,

3-19=-360/133, 4-19=-46/212, 5-19=-63/554,

5-17=-848/177, 6-17=-341/127, 7-17=-148/2175, 13-15=-374/126, 9-15=-999/273, 9-13=-74/373, 10-13=-594/225, 2-21=-1324/198

NOTES

- 1) 2x4 SPF 2400F 2.0E bearing block 12" long at jt. 15 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
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 373 lb uplift at joint 15 and 175 lb uplift at joint 21.
- This truss 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



November 8,2021





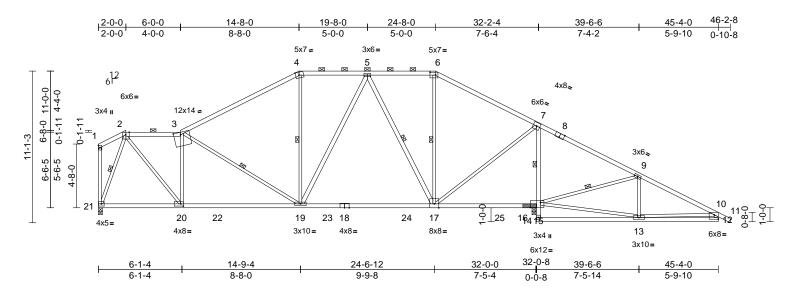
Job	Truss	Truss Type	Qty	Ply	Lot 14 H3
H314	C5	Piggyback Base	1	1	Job Reference (option

S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 148693626 LEE'S SUMMIT. MISSOURI

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.43 S Oct 11 2021 Print: 8.430 S Oct 11 2021 MiTek Industries, Inc. Fi Nov 05 14:15 52 2 ID:qcwgagFtV3q_6gxVoJYMAlyME60-RfC?PsB70Hq3NSgPqnL8w3ulTXbGl WrCDoi7J4zJC?

RELEASE FOR CONSTRUCTION



Scale = 1:84.3

Plate Offsets (X, Y): [3:0-6-0,0-2-3], [4:0-3-0,Edge], [6:0-5-0,0-2-8], [8:0-4-0,Edge], [12:Edge,0-3-13], [15:0-9-0,0-4-8], [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	0.85	Vert(LL)	-0.28	17-19	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.85	Vert(CT)	-0.42	17-19	>927	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.74	Horz(CT)	0.02	15	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.04	19-20	>999	240	Weight: 209 lb	FT = 10%

LUMBER

BOT CHORD

TOP CHORD 2x4 SPF No.2 *Except* 3-4,6-8:2x4 SPF

2100F 1.8E

2x4 SPF No.2 *Except* 18-15,16-15:2x4 SPF

2400F 2 0F

WEBS 2x3 SPF No.2 *Except* 19-5,17-5:2x4 SPF

No.2, 12-10:2x4 SPF 2400F 2.0E

BRACING

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

2-0-0 oc purlins (4-9-13 max.): 2-3, 4-6.

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

bracing, Except:

6-0-0 oc bracing: 15-17,13-14.

1 Row at midpt 7-15

TOP CHORD

WEBS 1 Row at midpt 4-19, 5-17, 6-17, 9-15,

2-21, 3-19

REACTIONS (lb/size) 15=2952/(0-3-8 + bearing block),

(req. 0-4-14), 21=1177/0-3-8

Max Horiz 21=-285 (LC 4)

Max Uplift 15=-373 (LC 9), 21=-175 (LC 8) Max Grav 15=3116 (LC 2), 21=1363 (LC 23)

FORCES (lb) - Maximum Compression/Maximum

Tension

1-2=-93/74, 2-3=-1300/162, 3-4=-1294/176,

4-5=-1055/224, 5-6=-512/150, 6-7=-610/143, 7-9=-272/1679, 9-10=-124/622, 10-11=0/32,

1-21=-99/52, 10-12=-15/82

20-21=-70/557, 19-20=-82/1284 BOT CHORD

17-19=-28/855, 15-17=-1398/424,

14-15=-24/131, 7-15=-2669/402,

13-14=-99/36, 12-13=-65/130 **WEBS**

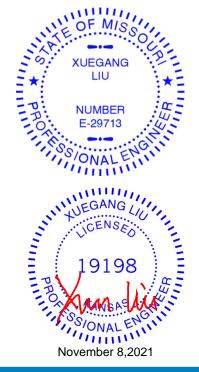
2-20=-149/1394, 3-20=-863/216, 4-19=-83/198, 5-19=-68/565, 5-17=-848/175,

6-17=-342/127. 7-17=-149/2168. 13-15=-373/126, 9-15=-998/273, 9-13=-74/373, 2-21=-1303/198, 10-13=-598/227, 3-19=-326/131

NOTES

- 1) 2x4 SPF 2400F 2.0E bearing block 12" long at jt. 15 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
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 373 lb uplift at joint 15 and 175 lb uplift at joint 21.
- This truss 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



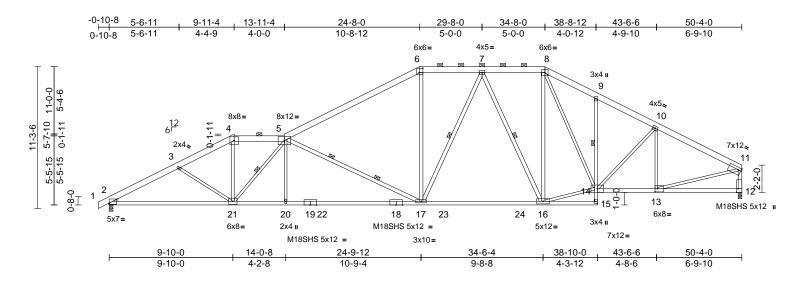


Job	Truss	Truss Type	Qty	Ply	Lot 14 H3
H314	D1	Piggyback Base	1	1	Job Reference (options

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 148693627 LEE'S SUMMIT. MISSOURI

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.43 E Aug 16 2021 Print: 8.430 E Aug 16 2021 MiTek Industries, Inc. 10n Nov 113352 ID:BBt71FY?JxJoR6d3ZHzS0syME4L-oQpSfRH0T9t4oAkfUXBsQIZpNB?2BMD6hE21JnyLFpV



Scale = 1:91.7

Plate Offsets (X, Y): [2:Edge,0-1-3], [6:0-3-8,0-4-0], [11:Edge,0-2-4], [12:0-3-8,Edge], [13:0-2-8,0-3-0], [15:Edge,0-2-8]

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	0.80	Vert(LL)	-0.47	17-20	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.97	Vert(CT)	-0.91	17-20	>663	240	M18SHS	197/144
BCLL	0.0*	Rep Stress Incr	YES	WB	1.00	Horz(CT)	0.21	12	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.22	17-20	>999	240	Weight: 273 lb	FT = 10%

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2x6 SPF No.2 *Except* 5-6:2x6 SPF 1650F TOP CHORD

1.4E

2x4 SPF 2100F 1.8E *Except* 15-9:2x3 SPF BOT CHORD

No.2, 14-12:2x4 SPF No.2

WEBS 2x3 SPF No.2 *Except*

17-6,17-7,16-7,16-8,12-11,5-17:2x4 SPF

No.2

WEDGE Left: 2x3 SPF No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or

2-2-1 oc purlins, except end verticals, and 2-0-0 oc purlins (3-7-14 max.): 4-5, 6-8.

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

bracing, Except: 9-8-7 oc bracing: 2-21

2-2-0 oc bracing: 17-20.

1 Row at midpt 9-14

WEBS 1 Row at midpt 5-21, 7-17, 7-16

WEBS 2 Rows at 1/3 pts 5-17

2=2324/0-3-8, (req. 0-3-13), REACTIONS (lb/size) 12=2251/0-3-8, (req. 0-3-12)

Max Horiz 2=222 (LC 8)

Max Uplift 2=-309 (LC 8), 12=-195 (LC 9)

Max Grav 2=2441 (LC 2), 12=2381 (LC 2)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250

(lb) or less except when shown. TOP CHORD

2-3=-4317/560, 3-4=-4177/495, 4-5=-3672/474, 5-6=-3387/359,

6-7=-2914/404, 7-8=-2478/287,

8-9=-3164/388, 9-10=-3207/299

10-11=-3128/254, 11-12=-2268/230

BOT CHORD 2-21=-630/3720, 20-21=-583/4722, 19-20=-582/4728, 19-22=-582/4728,

18-22=-582/4728, 17-18=-582/4728,

17-23=-132/2741, 23-24=-132/2741,

16-24=-132/2741, 9-14=-262/151,

13-14=-176/2722

WEBS 4-21=-146/1592, 5-21=-1691/168,

6-17=0/942, 7-17=-146/511, 7-16=-771/151,

8-16=-29/497, 14-16=-62/2479,

8-14=-232/839, 10-13=-547/124,

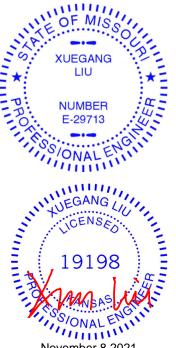
11-13=-154/2700, 5-20=0/327,

5-17=-2024/436

NOTES

- Unbalanced roof live loads have been considered for 1) this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- All plates are MT20 plates unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- WARNING: Required bearing size at joint(s) 2, 12 greater than input bearing size.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 309 lb uplift at joint 2 and 195 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



November 8,2021

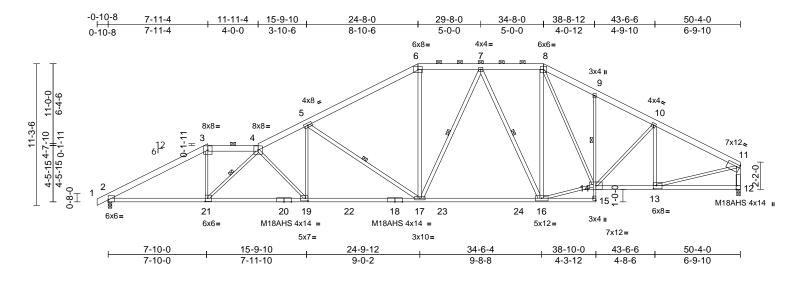


Job	Truss	Truss Type	Qty	Ply	Lot 14 H3
H314	D2	Piggyback Base	1	1	Job Reference (options

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 148693628 LEE'S SUMMIT. MISSOURI

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.43 S Oct 11 2021 Print: 8.430 S Oct 11 2021 MiTek Industries, Inc. F i Nov 05 14:15 53 2 ID:ZkkHpHdyXg0o70rVKezeDDyMDxC-RfC?PsB70Hq3NSgPqnL8w3uITXbCKWrCDoi7J4zJO?f



Scale = 1:91.7

Plate Offsets (X, Y): [2:Edge,0-1-14], [11:Edge,0-2-4], [12:0-3-8,Edge], [13:0-2-8,0-3-0], [15:Edge,0-2-8], [19:0-2-8,0-2-8], [21:0-2-8,0-3-0]

Loading	(psf)	Spacing	2-0-0	csı		DEFL	in	(loc)	l/defl	I /d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.78	Vert(LL)	-0.47	16-17	>999		MT20	197/144
TCDL	10.0	Lumber DOL	1.15	вс		Vert(CT)	-0.78	16-17	>766	240	M18AHS	142/136
BCLL	0.0*	Rep Stress Incr	YES	WB	0.97	Horz(CT)	0.21	12	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.22	17-19	>999	240	Weight: 271 lb	FT = 10%

LUMBER

TOP CHORD 2x6 SPF No.2

2x4 SPF 2100F 1.8E *Except* 15-9:2x3 SPF BOT CHORD

No.2. 14-12:2x4 SPF No.2

2x3 SPF No.2 *Except* WEBS

17-5,17-6,17-7,16-7,16-8,12-11:2x4 SPF

No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or 2-4-6 oc purlins, except end verticals, and

2-0-0 oc purlins (3-7-2 max.): 3-4, 6-8.

BOT CHORD Rigid ceiling directly applied or 9-8-7 oc

bracing. Except:

1 Row at midpt 9-14

BOT CHORD

WEBS 1 Row at midpt 4-21, 5-17, 7-17, 7-16

REACTIONS (lb/size) 2=2324/0-3-8, (req. 0-3-13),

12=2251/0-3-8, (req. 0-3-12) Max Horiz 2=222 (LC 8)

Max Uplift 2=-309 (LC 8), 12=-195 (LC 9)

Max Grav 2=2444 (LC 2), 12=2385 (LC 2)

FORCES (lb) - Maximum Compression/Maximum

Tension TOP CHORD 1-2=0/12, 2-3=-4457/496, 3-4=-3822/504,

4-5=-4828/544, 5-6=-3356/375,

6-7=-2905/398, 7-8=-2486/286,

8-9=-3173/388, 9-10=-3215/299

10-11=-3134/254, 11-12=-2272/230

2-21=-550/3863, 19-21=-655/5131, 17-19=-509/4299, 16-17=-135/2750

15-16=-12/76, 14-15=0/30, 9-14=-263/152,

13-14=-176/2728, 12-13=-27/120

WEBS 3-21=-16/1627, 4-21=-1868/150,

4-19=-1226/215, 5-19=-57/1218,

5-17=-1707/397, 6-17=-11/1036,

7-17=-125/468, 7-16=-774/157, 8-16=-31/513, 14-16=-60/2492,

8-14=-234/837. 10-14=-55/239.

10-13=-547/124, 11-13=-154/2706

NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16: Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- All plates are MT20 plates unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- WARNING: Required bearing size at joint(s) 2, 12 greater than input bearing size.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 309 lb uplift at joint 2 and 195 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



November 8,2021



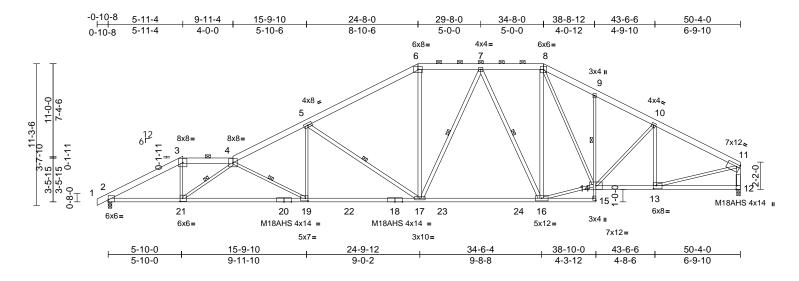


Job	Truss	Truss Type	Qty	Ply	Lot 14 H3
H314	D3	Piggyback Base	1	1	Job Reference (optiona

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 148693629 LEE'S SUMMIT. MISSOURI

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.43 S Oct 11 2021 Print: 8.430 S Oct 11 2021 MiTek Industries, Inc. F i Nov 05 14:15 54 2 ID:D7ZWbeb7iF5SjJyt0RPOT5yMDvy-RfC?PsB70Hq3NSgPqnL8w3uITXbGl WrCDoi7J4zJC?



Scale = 1:91.7

Plate Offsets (X, Y): [2:Edge,0-1-14], [11:Edge,0-2-4], [12:0-3-8,Edge], [13:0-2-8,0-3-0], [15:Edge,0-2-8], [19:0-2-8,0-2-8], [21:0-2-8,0-3-0]

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	0.56	Vert(LL)	-0.50	16-17	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.90	Vert(CT)	-0.84	16-17	>716	240	M18AHS	142/136
BCLL	0.0*	Rep Stress Incr	YES	WB	0.94	Horz(CT)	0.22	12	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.25	17-19	>999	240	Weight: 270 lb	FT = 10%

LUMBER

TOP CHORD 2x6 SPF No.2

2x4 SPF 2100F 1.8E *Except* 15-9:2x3 SPF BOT CHORD

No.2. 14-12:2x4 SPF No.2

2x3 SPF No.2 *Except* WEBS

17-5,17-6,17-7,16-7,16-8,12-11:2x4 SPF

No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or

3-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (3-6-10 max.): 3-4, 6-8.

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

bracing, Except: 8-9-2 oc bracing: 19-21.

1 Row at midpt 9-14

WEBS 1 Row at midpt 4-21, 4-19, 5-17, 7-17,

7-16

REACTIONS (lb/size) 2=2324/0-3-8, (req. 0-3-13),

12=2251/0-3-8, (req. 0-3-12)

Max Horiz 2=222 (LC 8)

Max Uplift 2=-309 (LC 8), 12=-195 (LC 9) Max Grav 2=2444 (LC 2), 12=2385 (LC 2)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/12, 2-3=-4564/494, 3-4=-3890/483,

4-5=-4868/535, 5-6=-3354/376,

6-7=-2903/399, 7-8=-2487/285, 8-9=-3173/388, 9-10=-3215/299 10-11=-3134/254, 11-12=-2272/230

BOT CHORD 2-21=-572/3950, 19-21=-792/5852,

17-19=-506/4315, 16-17=-135/2750

15-16=-13/75, 14-15=0/28, 9-14=-263/152, 13-14=-176/2728, 12-13=-27/120

WEBS

3-21=-70/1824, 4-21=-2482/281, 4-19=-1748/325, 5-19=-39/1203,

5-17=-1729/394, 6-17=-12/1039, 7-17=-125/464, 7-16=-772/159,

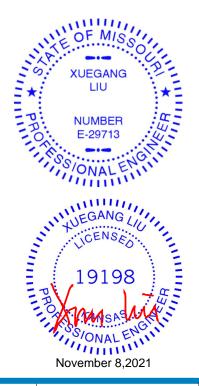
8-16=-31/514, 14-16=-60/2494, 8-14=-235/836, 10-14=-55/239,

10-13=-547/124, 11-13=-154/2705

NOTES

- Unbalanced roof live loads have been considered for 1) this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- All plates are MT20 plates unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- WARNING: Required bearing size at joint(s) 2, 12 greater than input bearing size.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 309 lb uplift at joint 2 and 195 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



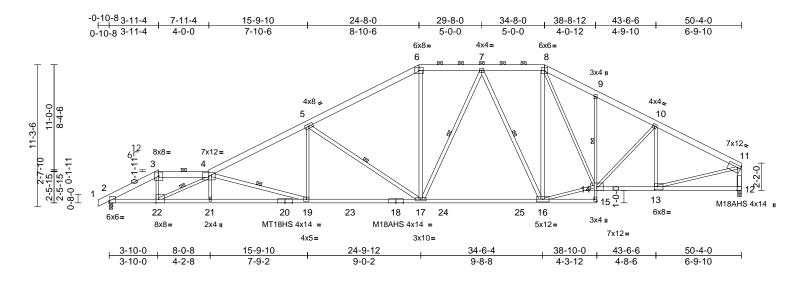


Job	Truss	Truss Type	Qty	Ply	Lot 14 H3
H314	D4	Piggyback Base	1	1	Job Reference (option

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 148693630 LEE'S SUMMIT. MISSOURI

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.43 S Oct 11 2021 Print: 8.430 S Oct 11 2021 MiTek Industries, Inc. F i Nov 0514:1554 ID:qA2yNUnENgZP6X1uJkgc_zyMDuP-RfC?PsB70Hq3NSgPqnL8w3ulTXb(KWrCDoil J4zJ 0?f



Scale = 1:91.7

Plate Offsets (X, Y): [2:Edge,0-1-14], [11:Edge,0-2-4], [12:0-3-8,Edge], [13:0-2-8,0-3-0], [15:Edge,0-2-8], [22:0-2-8,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	0.67	Vert(LL)	-0.55	16-17	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.97	Vert(CT)	-0.94	19-21	>637	240	MT18HS	197/144
BCLL	0.0*	Rep Stress Incr	YES	WB	0.98	Horz(CT)	0.24	12	n/a	n/a	M18AHS	142/136
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.33	19-21	>999	240	Weight: 274 lb	FT = 10%

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TOP CHORD 2x6 SPF No.2

2x4 SPF 2100F 1.8E *Except* 15-9:2x3 SPF BOT CHORD

No.2. 14-12:2x4 SPF No.2

2x3 SPF No.2 *Except* WEBS 17-6,17-7,16-7,16-8,12-11,4-19,5-17:2x4

SPF No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or

2-7-9 oc purlins, except end verticals, and 2-0-0 oc purlins (3-6-14 max.): 3-4, 6-8.

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

bracing, Except: 8-0-13 oc bracing: 21-22

2-2-0 oc bracing: 19-21.

1 Row at midpt 9-14

WEBS 4-22, 7-17, 7-16, 4-19, 1 Row at midpt

5-17

REACTIONS (lb/size) 2=2324/0-3-8, (req. 0-3-13),

12=2251/0-3-8, (req. 0-3-12) Max Horiz 2=222 (LC 8)

Max Uplift 2=-309 (LC 8), 12=-195 (LC 9)

Max Grav 2=2444 (LC 2), 12=2385 (LC 2)

FORCES

(lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/12, 2-3=-4528/523, 3-4=-3804/481,

4-5=-4899/535, 5-6=-3358/377, 6-7=-2902/397, 7-8=-2487/286,

8-9=-3173/388, 9-10=-3215/299 10-11=-3134/254, 11-12=-2272/230

BOT CHORD 2-22=-615/3897, 21-22=-947/7172,

19-21=-943/7180, 17-19=-518/4326, 16-17=-136/2750, 15-16=-12/75, 14-15=0/29,

9-14=-263/152, 13-14=-176/2728,

12-13=-27/120

WEBS 3-22=-147/1948, 4-22=-3812/383,

4-21=0/218, 6-17=-15/1054, 7-17=-122/460,

7-16=-773/158, 8-16=-32/515, 14-16=-61/2493, 8-14=-234/837

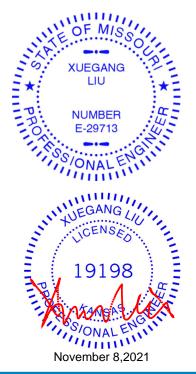
10-14=-55/239, 10-13=-547/124, 11-13=-154/2705, 4-19=-2961/441,

5-19=-19/1145, 5-17=-1744/410

NOTES

- Unbalanced roof live loads have been considered for 1) this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- All plates are MT20 plates unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- WARNING: Required bearing size at joint(s) 2, 12 greater than input bearing size.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 309 lb uplift at joint 2 and 195 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







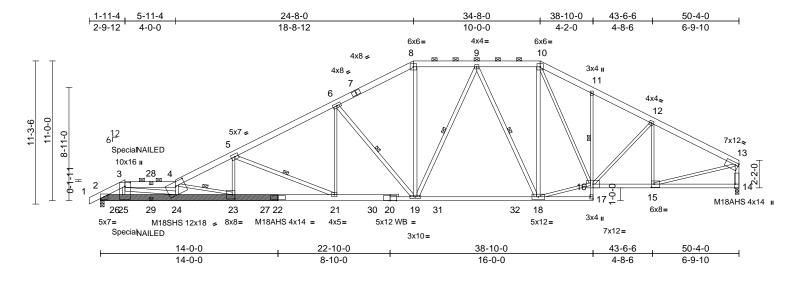
Job	Truss	Truss Type	Qty	Ply	Lot 14 H3
H314	D5	Piggyback Base Girder	1	1	Job Reference (optional

S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 148693631 LEE'S SUMMIT. MISSOURI

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.43 S Oct 11 2021 Print: 8.430 S Oct 11 2021 MiTek Industries, Inc. F i Nov 05 14:15 55 ID:NtAZ8rDFbxQfGf2aEWoHmryMDsZ-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJO?f

RELEASE FOR CONSTRUCTION



Scale = 1:90.8

Plate Offsets (X, Y): [3:0-3-8,0-5-0], [13:Edge,0-2-4], [14:0-3-8,Edge], [15:0-2-8,0-3-0], [17:Edge,0-2-8], [23:0-2-8,0-4-0], [24:0-8-12,0-4-0]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.85	Vert(LL)	-0.60	18-19	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	1.00	Vert(CT)	-1.01	18-19	>592	240	M18AHS	142/136
BCLL	0.0*	Rep Stress Incr	NO	WB	0.93	Horz(CT)	0.18	14	n/a	n/a	M18SHS	197/144
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.35	23-24	>999	240	Weight: 335 lb	FT = 10%

LUMBER	
TOP CHORD	2x6 SPF No.2 *Except* 3-4:2x6 SPF 1650F
	1.4E

BOT CHORD 2x6 SP 2400F 2.0E *Except* 17-11:2x3 SPF No.2, 16-14:2x4 SPF No.2, 20-17:2x4 SPF 2100F 1.8E, 22-20:2x6 SPF 1650F 1.4E

WEBS 2x3 SPF No.2 *Except* 19-8,19-9,18-9,18-10,14-13,6-19,21-5:2x4

SPF No.2, 3-24:2x4 SPF 2100F 1.8E **OTHERS** 2x3 SPF No.2

2-22 SP 2400F 2.0E one side LBR SCAB

BRACING

TOP CHORD Structural wood sheathing directly applied or 2-0-5 oc purlins, except end verticals, and

2-0-0 oc purlins (2-4-9 max.): 3-4, 8-10. Rigid ceiling directly applied or 10-0-0 oc

BOT CHORD bracing, Except: 9-9-9 oc bracing: 21-23

6-0-0 oc bracing: 16-17.

1 Row at midpt 11-16

WEBS 1 Row at midpt 9-19, 9-18, 6-19, 4-23,

REACTIONS (lb/size) 2=2324/(0-3-8 + bearing block). (req. 0-3-13), 14=2251/0-3-8, (req.

0-3-12)Max Horiz 2=222 (LC 8)

Max Uplift 2=-363 (LC 8), 14=-200 (LC 9) Max Grav 2=2438 (LC 2), 14=2385 (LC 2)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/17, 2-3=-5292/676, 3-4=-9106/1101, 4-5=-6626/748, 5-6=-4355/492,

6-8=-3307/402, 8-9=-2890/398, 9-10=-2488/292, 10-11=-3173/397 11-12=-3214/307, 12-13=-3134/261, 13-14=-2272/235

BOT CHORD 2-25=-777/4590, 24-25=-772/4490,

23-24=-1242/8896, 21-23=-793/5899, 19-21=-413/3804, 18-19=-146/2750, 17-18=-14/73, 16-17=-4/23, 11-16=-263/152, 15-16=-182/2727, 14-15=-27/120 WEBS 3-25=-54/1003, 4-24=-2171/289, 8-19=-73/1139, 9-19=-111/434, 9-18=-773/168, 10-18=-35/522, 16-18=-66/2498, 10-16=-236/835, 12-16=-57/240, 12-15=-547/125, 13-15=-161/2705 6-19=-1452/365 5-23=-74/1517, 4-23=-3082/462, 5-21=-2279/413, 6-21=-90/1139, 3-24=-514/4766

NOTES

- Attached 14-0-0 scab 2 to 22, 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 0-3-4 from end at joint 2, nail 2 row(s) at 7" o.c. for 2-8-4; starting at 3-0-2 from end at joint 2, nail 2 row(s) at 7" o.c. for 4-0-8.
- Scab(s) 2 to 22 to provide bearing enhancement at jt.2, a cluster of 12 evenly spaced - 10d (0.131"x3") nails are required within 12" of jt.2. Total nails to be divided equally between front and back if scabs are on both sides. Bearing is assumed to be SPF No.2.
- Unbalanced roof live loads have been considered for this design
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- All plates are MT20 plates unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- * This truss has been designed for a live load of 20.0psf o) Instruss has been designed for a live load of 20.0psf on the bottom chord in 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 \$COL = 10.0psf.
 9) WARNING: Required dearing size at joints 14 greater than input bearing size.
 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 363 lb uptift at joint 2 and 200 listuplift at joint 14.
 11) This truss is designed in accordance with the 2039.
- 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: 4/
- 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 (0.1481x81) 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) 110 lb down and 116 lb up at 1-11-4 on top chord, and 12 lb down and 28 lb up at 1-11-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.



November 8,2021

Continued on page 2

Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE

Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



16023 Swingley Ridge Rd Chesterfield, MO 63017

 Job
 Truss
 Truss Type
 Qty
 Ply
 Lot 14 H3

 H314
 D5
 Piggyback Base Girder
 1
 1
 1
 Job Reference (optional)

RELEASE FOR CONSTRUCTION
AS NOTED FOR PLAN REVIEW

Wheeler Lumber, Waverly, KS - 66871,

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

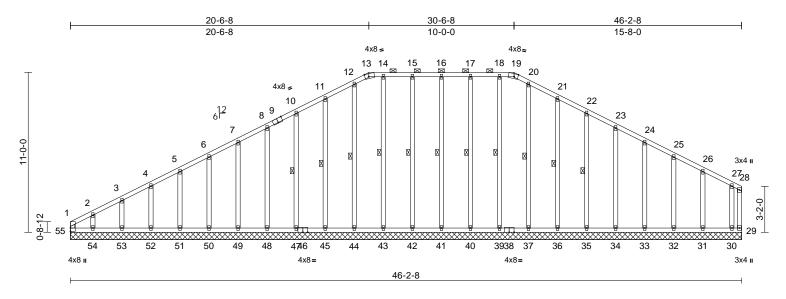
1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (lb/ft)
Vert: 1-3=-70, 3-4=-70, 4-8=-70, 8-10=-70, 10-13=-70, 2-17=-20, 14-16=-20
Concentrated Loads (lb)
Vert: 25=4 (B), 29=-4 (B)

Job	Truss	Truss Type	Qty	Ply	Lot 14 H3
H314	D6	Piggyback Base Supported Gable	1	1	Job Reference (optiona

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 148693632 LEE'S SUMMIT. MISSOURI

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.43 S Oct 11 2021 Print: 8.430 S Oct 11 2021 MiTek Industries, Inc. F i Nov 0514:15 56 ID:NSLiy0rk9WUf_Q6FDGq9mDyMDzV-RfC?PsB70Hq3NSgPqnL8w3uITXb_KWrCDo/7J4zJC?



Scale = 1:79.3

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	0.10	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.08	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.13	Horiz(TL)	0.00	29	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R							Weight: 294 lb	FT = 10%

Max Uplift 29=-29 (LC 7), 30=-117 (LC 9),

31=-58 (LC 9), 32=-53 (LC 9), 33=-54 (LC 9), 34=-54 (LC 9), 35=-51 (LC 9), 36=-73 (LC 9), 39=-6 (LC 5), 40=-47 (LC 4),

41=-32 (LC 5), 42=-48 (LC 4),

43=-9 (LC 5), 45=-68 (LC 8),

TOP CHORD	2x4 SPF No.2
BOT CHORD	2x4 SPF No.2
NEBS	2x4 SPF No.2
OTHERS	2x4 SPF No.2
_	

BRACING TOP CHORD

LUMBER

Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and

2-0-0 oc purlins (6-0-0 max.): 13-19.

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

bracing.

WEBS 1 Row at midpt 10-47, 11-45, 12-44,

14-43, 15-42, 16-41, 17-40, 18-39, 20-37,

21-36, 22-35

REACTIONS (lb/size)

29=4/46-2-8, 30=128/46-2-8, 31=188/46-2-8, 32=178/46-2-8, 33=180/46-2-8, 34=180/46-2-8, 35=180/46-2-8, 36=179/46-2-8, 37=180/46-2-8, 39=180/46-2-8, 40=179/46-2-8, 41=180/46-2-8, 42=179/46-2-8, 43=180/46-2-8, 44=180/46-2-8, 45=179/46-2-8, 47=180/46-2-8, 48=180/46-2-8,

53=183/46-2-8, 54=168/46-2-8,

49=180/46-2-8, 50=180/46-2-8, 51=180/46-2-8, 52=179/46-2-8,

55=47/46-2-8 Max Horiz 55=220 (LC 5)

47=-52 (LC 8), 48=-54 (LC 8), 49=-54 (LC 8), 50=-54 (LC 8), 51=-53 (LC 8), 52=-58 (LC 8), 53=-38 (LC 8), 54=-153 (LC 8), 55=-81 (LC 4) Max Grav 29=97 (LC 9), 30=145 (LC 16),

31=188 (LC 1), 32=178 (LC 1), 33=180 (LC 1), 34=180 (LC 22). 35=180 (LC 22), 36=179 (LC 1) 37=180 (LC 22), 39=180 (LC 22), 40=182 (LC 21), 41=180 (LC 1), 42=182 (LC 22), 43=181 (LC 21), 44=180 (LC 21), 45=179 (LC 1), 47=180 (LC 21), 48=180 (LC 1), 49=180 (LC 1), 50=180 (LC 21), 51=180 (LC 1), 52=179 (LC 21),

53=183 (LC 1), 54=186 (LC 15),

FORCES

55=180 (LC 12) (lb) - Maximum Compression/Maximum Tension

TOP CHORD

1-55=-127/66, 1-2=-244/136, 2-3=-186/126, 3-4=-165/136, 4-5=-149/150, 5-6=-135/165, 6-7=-120/191, 7-8=-105/217, 8-10=-90/243, 10-11=-78/268, 11-12=-67/301,

12-13=-55/284, 13-14=-49/283, 14-15=-49/283, 15-16=-49/283, 16-17=-49/283, 17-18=-49/283, 18-19=-49/283, 19-20=-55/282,

20-21=-58/281 21-22=-56/228

22-23=-56/184, 23-24=-56/138, 24-25=-57/107, 25-26=-57/81, 26-27=-56/55,

27-28=-74/36, 28-29=-69/20

BOT CHORD

54-55=-48/43, 53-54=-48/43, 52-53=-48/43, 51-52-48/43, 50-51=-48/43, 49-50=-48/43, 48-49=-48/43, 47-48=-48/43, 45-47=-48/43, 44-45=-48/43, 43-44=-48/43, 42-43=-48/43, 41-42=-48/43, 40-41=-48/43, 39-40=-48/43, 41-42=-48/43, 40-41=-48/43, 39-40=-48/43, 41-42=-48/43, 41-48/43, 4

37-39=48/43, 36-37=48/43, 36-36=-48/43, 34-35=-48/43, 33-34=-48/43, 32-33=-48/43, 30-31=-48/43, 29-30=-48/43 2-54+130/120, 3-53+143/72, 4-52+139/79, 5-51=-140/78, 6-50=-140/78, 7-49=-140/78,

8-48=-140/78, 10-47=-140/76, 11-45=-139/92, N2-44=-140/20,

11-43-139/92, 102-448-140/20, 14-43-141/33, 15-929-142/72, 16-41-40/56, 17-40-142/71, 18-39-140/30, 20-37-140/0, 21-36-139/97, 22-35-140/78, 23-34-140/78, 24-33-140/78, 25-32-139/76, 26-31-147/84, 27-30-140/40, 21-36-140/78, 24-33-140/78, 25-32-139/76, 26-31-147/84, 27-30-140/40, 24-33-140/78, 25-32-139/76, 26-31-147/84, 27-30-140/40, 24-33-140/78, 25-32-139/76, 26-31-147/84, 27-30-140/40, 24-33-140/78, 25-32-139/76, 26-31-147/84, 27-30-140/40, 24-33-140/78, 26-31-147/84, 27-30-140/40, 24-33-140/78, 26-31-147/84, 27-30-140/40, 24-33-140/78, 26-31-140/78, 2

27-30=-102/101

NOTES

WEBS

Unbalanced roof live loads have been considered for this design.



November 8,2021



Qty Job Truss Truss Type Ply Lot 14 H3 H314 D6 Piggyback Base Supported Gable Job Reference (optiona

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.43 S Oct 11 2021 Print: 8.430 S Oct 11 2021 MiTek Industries, Inc. Fi Nov 051: 1156/30/292
ID:NSLiy0rk9WUf_Q6FDGq9mDyMDzV-RfC?PsB70Hq3NSgPqnL8w3ulTXb kWrCDor;J4Juc;30/2992

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW

DEVELOPMENT SERVICES 148693632

LEE'S SUMMIT. MISSOURI

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Provide adequate drainage to prevent water ponding.
- All plates are 2x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Truss to be fully sheathed from one face or securely 7) 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.
- 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.
- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 81 lb uplift at joint 55, 29 lb uplift at joint 29, 153 lb uplift at joint 54, 38 lb uplift at joint 53, 58 lb uplift at joint 52, 53 lb uplift at joint 51, 54 lb uplift at joint 50, 54 lb uplift at joint 49, 54 lb uplift at joint 48, 52 lb uplift at joint 47, 68 lb uplift at joint 45, 9 lb uplift at joint 43, 48 lb uplift at joint 42, 32 lb uplift at joint 41, 47 lb uplift at joint 40, 6 lb uplift at joint 39, 73 lb uplift at joint 36, 51 lb uplift at joint 35, 54 lb uplift at joint 34, 54 lb uplift at joint 33, 53 lb uplift at joint 32, 58 lb uplift at joint 31 and 117 lb uplift at joint 30.
- 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.

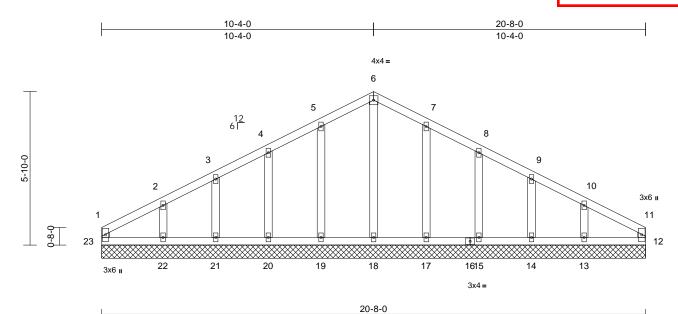
Ply Job Truss Truss Type Qtv Lot 14 H3 H314 E1 Common Supported Gable Job Reference (optional

S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 148693633 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.43 S Oct 11 2021 Print: 8.430 S Oct 11 2021 MiTek Industries, Inc. Fi Nov 0514:1557 ID:wO7KqXWHsxyTHaIBOAaysYyMGXu-RfC?PsB70Hq3NSgPqnL8w3uITXIGKWrCDei7J4zJC



Scale = 1:43.8

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	0.05	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.03	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.06	Horiz(TL)	0.00	12	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R							Weight: 82 lb	FT = 10%

LUMBER

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

BRACING

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

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

bracing.

REACTIONS (lb/size)

12=97/20-8-0, 13=208/20-8-0, 14=172/20-8-0, 15=180/20-8-0, 17=187/20-8-0, 18=144/20-8-0, 19=187/20-8-0, 20=180/20-8-0, 21=172/20-8-0, 22=208/20-8-0, 23=97/20-8-0

Max Horiz 23=-82 (LC 4)

12=-10 (LC 8), 13=-85 (LC 9), Max Uplift

14=-45 (LC 9), 15=-57 (LC 9), 17=-55 (LC 9), 19=-55 (LC 8), 20=-57 (LC 8), 21=-44 (LC 8),

21=172 (LC 1), 22=211 (LC 21),

22=-90 (LC 8), 23=-22 (LC 9) Max Grav 12=97 (LC 1), 13=211 (LC 22), 14=172 (LC 1), 15=180 (LC 1), 17=190 (LC 22), 18=159 (LC 18), 19=190 (LC 21), 20=180 (LC 1),

23=100 (LC 16)

FORCES (lb) - Maximum Compression/Maximum Tension

1-23=-79/32, 1-2=-97/50, 2-3=-72/75, TOP CHORD 3-4=-61/101, 4-5=-58/127, 5-6=-61/152, 6-7=-61/144, 7-8=-58/109, 8-9=-58/82,

9-10=-61/57, 10-11=-82/31, 11-12=-79/21 **BOT CHORD** 22-23=-20/58, 21-22=-20/58, 20-21=-20/58, 19-20=-20/58, 18-19=-20/58, 17-18=-20/58,

15-17=-20/58, 14-15=-20/58, 13-14=-20/58, 12-13=-20/58

WEBS

6-18=-119/0, 5-19=-150/79, 4-20=-140/80, 3-21=-135/71, 2-22=-161/102, 7-17=-150/79, 8-15=-140/80, 9-14=-135/72, 10-13=-161/99

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.
- All plates are 2x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 22 lb uplift at joint 23, 10 lb uplift at joint 12, 55 lb uplift at joint 19, 57 lb uplift at joint 20, 44 lb uplift at joint 21, 90 lb uplift at joint 22, 55 lb uplift at joint 17, 57 lb uplift at joint 15, 45 lb uplift at joint 14 and 85 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

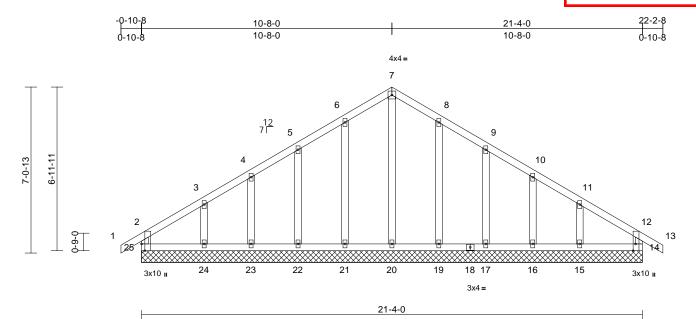




Ply Job Truss Truss Type Qtv Lot 14 H3 H314 G1 Common Supported Gable Job Reference (optional RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 148693634 LEE'S SUMMIT. MISSOURI

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.43 S Oct 11 2021 Print: 8.430 S Oct 11 2021 MiTek Industries, Inc. F i Nov 05 14:15 57 ID:jo51kuJFwPWvyqlXn7CaamyMGT_-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7U4zJC?f



Scale = 1:49.1

Plate Offsets (X, Y):	[14:0-3-8,Edge],	[25:0-3-8,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	0.07	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.05	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.11	Horz(CT)	0.00	14	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R							Weight: 95 lb	FT = 10%

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

REACTIONS (lb/size) 14=195/21-4-0, 15=209/21-4-0, 16=172/21-4-0, 17=181/21-4-0,

> 19=187/21-4-0, 20=150/21-4-0, 21=187/21-4-0. 22=181/21-4-0. 23=172/21-4-0, 24=209/21-4-0, 25=195/21-4-0

Max Horiz 25=196 (LC 7)

14=-25 (LC 8), 15=-102 (LC 9), 16=-48 (LC 9), 17=-66 (LC 9), 19=-59 (LC 9), 21=-60 (LC 8),

22=-67 (LC 8), 23=-46 (LC 8), 24=-109 (LC 8), 25=-42 (LC 4)

Max Grav 14=195 (LC 1), 15=237 (LC 16), 16=172 (LC 1), 17=187 (LC 16), 19=192 (LC 16), 20=189 (LC 18), 21=193 (LC 15), 22=188 (LC 15),

23=172 (LC 1), 24=247 (LC 15), 25=201 (LC 16)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD

12-14=-172/39, 7-8=-66/184, 8-9=-55/143, 9-10=-67/111, 10-11=-79/80, 11-12=-104/69, 12-13=0/36, 1-2=0/36, 2-3=-138/113 3-4=-110/102, 4-5=-99/133, 5-6=-87/165, 6-7=-77/193, 2-25=-172/53

BOT CHORD

24-25=-73/97, 23-24=-73/97, 22-23=-73/97, 21-22=-73/97, 20-21=-73/97, 19-20=-73/97, 17-19=-73/97, 16-17=-73/97, 15-16=-73/97, 14-15=-73/97

WEBS 7-20=-149/1, 8-19=-152/84, 9-17=-146/90, 10-16=-135/75, 11-15=-177/117, 6-21=-153/84, 5-22=-145/90, 4-23=-135/74,

3-24=-183/121

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- All plates are 2x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 25 lb uplift at joint 14, 42 lb uplift at joint 25, 59 lb uplift at joint 19, 66 lb uplift at joint 17, 48 lb uplift at joint 16, 102 lb uplift at joint 15, 60 lb uplift at joint 21, 67 lb uplift at joint 22, 46 lb uplift at joint 23 and 109 lb uplift at joint 24.

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.





Ply Job Truss Truss Type Qty Lot 14 H3 H314 G2 Common Structural Gable Job Reference (optiona RELEASE FOR CONSTRUCTION DEVELOPMENT SERVICES 148693635 LEE'S SUMMIT. MISSOURI

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.43 S Oct 11 2021 Print: 8.430 S Oct 11 2021 MiTek Industries, Inc. F i Nov 05 14:15 57 ID:IzJSHOzZuCfcGkiglhfU5SyMGQs-RfC?PsB70Hq3NSgPqnL8w3ulTXbGK VrCDoi7J4zJC?f

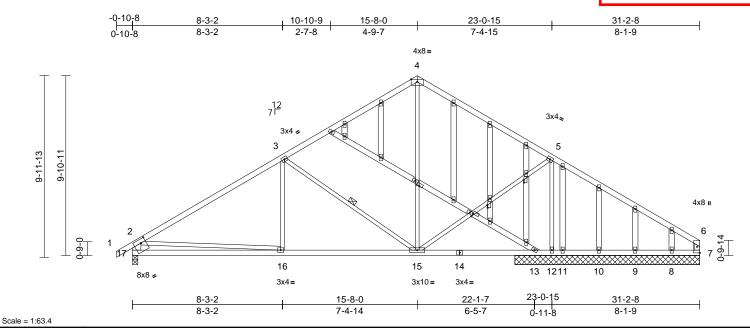


Plate Offsets (X, Y): [17:0-3-4,0-2-8], [19:0-1-12,0-0-4], [20:0-0-1,0-2-0], [29:0-1-13,0-0-4], [32:0-1-13,0-0-4]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.82	Vert(LL)	-0.10	16-17	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.60	Vert(CT)	-0.20	16-17	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.79	Horz(CT)	0.03	7	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.03	16	>999	240	Weight: 167 lb	FT = 10%

LUMBER

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

2x3 SPF No.2 *Except* 17-2:2x6 SPF No.2, WEBS

7-6,18-19,19-20,20-13:2x4 SPF No.2

OTHERS 2x4 SPF No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or

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

BOT CHORD Rigid ceiling directly applied or 9-4-10 oc bracing.

WEBS 1 Row at midpt 3-15

REACTIONS (lb/size) 7=282/10-2-0, 8=111/10-2-0,

9=28/10-2-0, 10=42/10-2-0, 11=78/10-2-0, 12=1015/10-2-0,

13=179/10-2-0, 17=1117/0-3-8

Max Horiz 17=268 (LC 5)

Max Uplift 7=-122 (LC 9), 8=-38 (LC 9), 12=-211 (LC 8), 17=-178 (LC 8)

Max Grav 7=306 (LC 22), 8=154 (LC 16), 9=76 (LC 3), 10=100 (LC 14),

11=185 (LC 14), 12=1015 (LC 1), 13=321 (LC 14), 17=1187 (LC 15)

FORCES (lb) - Maximum Compression/Maximum

TOP CHORD 1-2=0/39, 2-3=-1481/221, 3-4=-828/240,

4-5=-819/236, 5-6=-328/186, 2-17=-1058/223, 6-7=-347/180

BOT CHORD 16-17=-386/922, 15-16=-225/1336,

13-15=-63/178, 12-13=-63/178, 11-12=-63/178, 10-11=-63/178,

9-10=-63/178, 8-9=-63/178, 7-8=-63/178

WEBS 4-15=-79/318, 5-15=-26/697

5-12=-1156/152, 3-15=-818/261, 3-16=0/308,

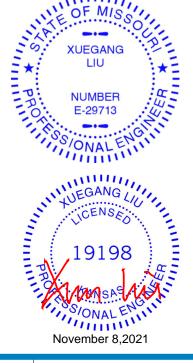
2-16=0/555

NOTES

Unbalanced roof live loads have been considered for this design.

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1. All plates are 2x4 MT20 unless otherwise indicated.
- 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 178 lb uplift at joint 17, 211 lb uplift at joint 12, 122 lb uplift at joint 7 and 38 lb uplift at joint 8.
- 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chorembers only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

ANSI/TP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



16023 Swingley Ridge Rd Chesterfield, MO 63017

Truss Type Job Truss Qty Ply Lot 14 H3 H314 G3 Common Job Reference (optiona RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 148693636 LEE'S SUMMIT. MISSOURI

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.43 S Oct 11 2021 Print: 8.430 S Oct 11 2021 MiTek Industries, Inc. F i Nov 05 14:15 58 ID:XexTqRas5GLxdEDUfejzVJyMGbh-RfC?PsB70Hq3NSgPqnL8w3uITXbG

(WrCDoi7<mark>J</mark>4z

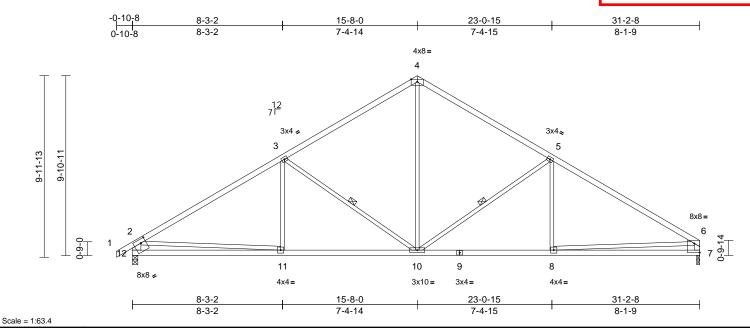


Plate Offsets (X, Y): [6:Edge,0-6-0], [12:0-3-4,0-2-8]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.74	Vert(LL)	-0.11	11-12	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.59	Vert(CT)	-0.23	11-12	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.51	Horz(CT)	0.06	7	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.06	8-10	>999	240	Weight: 122 lb	FT = 10%

LUMBER

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

1.8E

BOT CHORD 2x4 SPF No.2

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

7-6:2x4 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 9-4-3 oc

bracing.

WEBS 1 Row at midpt 5-10, 3-10 7=1386/0-2-0, (req. 0-2-3), REACTIONS (lb/size)

12=1466/0-3-8

Max Horiz 12=268 (LC 5)

Max Uplift 7=-165 (LC 9), 12=-191 (LC 8)

FORCES (lb) - Maximum Compression/Maximum

Tension

1-2=0/39, 2-3=-2054/244, 3-4=-1466/260, TOP CHORD

4-5=-1469/261, 5-6=-2046/242, 2-12=-1388/237, 6-7=-1307/208

11-12=-389/902, 10-11=-245/1651, **BOT CHORD** 8-10=-111/1657, 7-8=-124/501

WEBS 4-10=-100/874, 5-10=-674/264, 5-8=0/269,

3-10=-666/258, 3-11=0/278, 2-11=0/915,

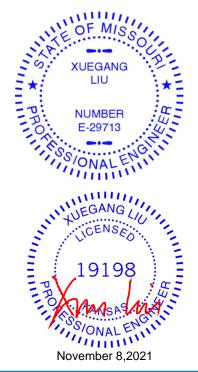
6-8=-47/1159

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

- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- WARNING: Required bearing size at joint(s) 7 greater than input bearing size.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 191 lb uplift at joint 12 and 165 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





Job	Truss	Truss Type	Qty	Ply	Lot 14 H3
H314	G4	Common	9	1	Job Reference (options

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 148693637 LEE'S SUMMIT. MISSOURI

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.43 S Oct 11 2021 Print: 8.430 S Oct 11 2021 MiTek Industries, Inc. Fi Nov 05 14:15 58 2 ID:nqp7V1gVqDCCzl5Ugy8EV_yMGM4-RfC?PsB70Hq3NSgPqnL8w3ulTXb6KWrCDoi7J4zJe?f

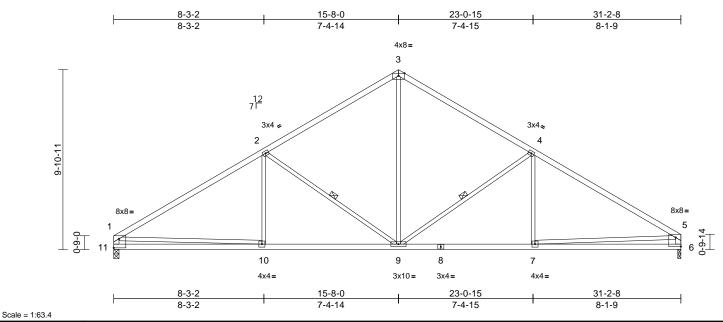


Plate Offsets (X, Y): [1:Edge,0-6-0], [5:Edge,0-6-0]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.51	Vert(LL)	-0.11	10-11	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.60	Vert(CT)	-0.23	10-11	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.52	Horz(CT)	0.05	6	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.06	9-10	>999	240	Weight: 121 lb	FT = 10%

LUMBER

TOP CHORD 2x4 SPF 2100F 1.8E

BOT CHORD 2x4 SPF No.2

2x3 SPF No.2 *Except* 11-1:2x4 SPF 2100F

1.8E, 6-5:2x4 SPF No.2

BRACING

WEBS

TOP CHORD Structural wood sheathing directly applied or 4-5-11 oc purlins, except end verticals.

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

bracing.

WEBS 1 Row at midpt 4-9, 2-9 6=1391/0-2-0, (req. 0-2-3),

REACTIONS (lb/size) 11=1391/0-3-8

Max Horiz 11=257 (LC 5)

Max Uplift 6=-165 (LC 9), 11=-166 (LC 8)

(lb) - Maximum Compression/Maximum

FORCES

Tension

TOP CHORD

1-2=-2078/245, 2-3=-1478/262, 3-4=-1478/262, 4-5=-2055/243, 1-11=-1311/211, 5-6=-1312/208

10-11=-275/749, 9-10=-253/1682,

BOT CHORD 7-9=-111/1665, 6-7=-124/501

3-9=-103/891, 4-9=-673/264, 4-7=0/269,

2-9=-694/267, 2-10=0/282, 1-10=-31/1089,

5-7=-49/1167

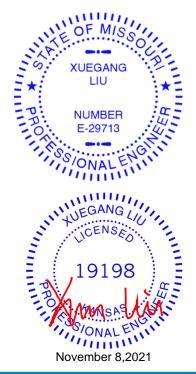
NOTES

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
- The Fabrication Tolerance at joint 1 = 6%, joint 1 = 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.
- WARNING: Required bearing size at joint(s) 6 greater than input bearing size.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 166 lb uplift at joint 11 and 165 lb uplift at joint 6.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard







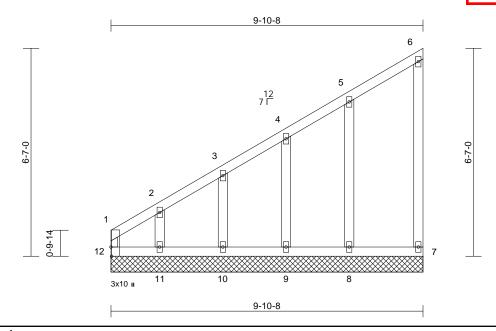
Job Truss Truss Type Qtv Ply Lot 14 H3 H314 G5 Monopitch Supported Gable Job Reference (optiona

S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 148693638 LEE'S SUMMIT. MISSOURI

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.43 S Oct 11 2021 Print: 8.430 S Oct 11 2021 MiTek Industries, Inc. Fi Nov 0514:1558 ID:g86VT07Ktu_pXb?ouwq81_yMGLU-RfC?PsB70Hq3NSgPqnL8w3uITXbG<mark>K</mark>WrCDoi7<mark>U4zJC</mark>?f

RELEASE FOR CONSTRUCTION



Scale = 1:36.5

Plate Offsets	(X,	Y):	[12:0-3	-8,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	0.17	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.07	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.07	Horiz(TL)	0.00	7	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R							Weight: 45 lb	FT = 10%

LUMBER

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

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

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.

REACTIONS (lb/size) 7=83/9-10-8 8=209/9-10-8

9=172/9-10-8, 10=184/9-10-8, 11=170/9-10-8, 12=47/9-10-8

Max Horiz 12=245 (LC 7)

Max Uplift 7=-40 (LC 5), 8=-68 (LC 8), 9=-63

(LC 8), 10=-47 (LC 8), 11=-149 (LC

8), 12=-92 (LC 6)

7=100 (LC 15), 8=211 (LC 15), Max Grav

9=180 (LC 15), 10=184 (LC 1),

11=225 (LC 15), 12=191 (LC 5)

FORCES (lb) - Maximum Compression/Maximum Tension

1-12=-137/71, 1-2=-225/147, 2-3=-174/113. TOP CHORD

3-4=-151/95, 4-5=-139/92, 5-6=-109/74,

6-7=-73/33

BOT CHORD 11-12=-88/68, 10-11=-88/68, 9-10=-88/68,

8-9=-88/68, 7-8=-88/68

WEBS 2-11=-159/123, 3-10=-145/79, 4-9=-137/90,

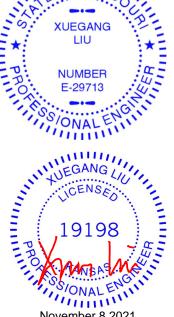
5-8=-176/74

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.
- All plates are 2x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing. Truss to be fully sheathed from one face or securely 5) braced against lateral movement (i.e. diagonal web).
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 92 lb uplift at joint 12, 40 lb uplift at joint 7, 149 lb uplift at joint 11, 47 lb uplift at joint 10, 63 lb uplift at joint 9 and 68 lb uplift at ioint 8.
- 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



November 8,2021



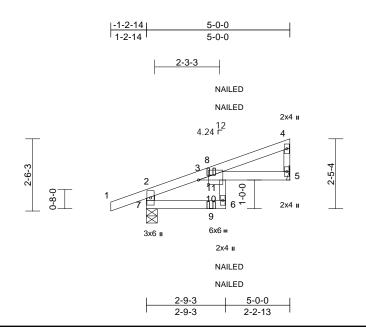
Ply Job Truss Truss Type Qty Lot 14 H3 H314 J1 Diagonal Hip Girder 2

S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 148693639 LEE'S SUMMIT. MISSOURI Job Reference (optional

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.43 S Oct 11 2021 Print: 8.430 S Oct 11 2021 MiTek Industries, Inc. F i Nov 0514:1559 ID:?AD_yL8LJ6rSMAYxEJ_NHpyMGVo-RfC?PsB70Hq3NSgPqnL8w3ulTXb6KWrCDo7J42JC?N

RELEASE FOR CONSTRUCTION



Scale = 1:40.1

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.42	Vert(LL)	-0.05	6	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.24	Vert(CT)	-0.11	6	>496	240		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.00	Horz(CT)	0.05	5	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R		Wind(LL)	0.06	6	>897	240	Weight: 16 lb	FT = 10%

LUMBER

TOP CHORD 2x4 SPF No.2

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

BRACING

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

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

bracing.

REACTIONS (lb/size) 5=205/ Mechanical, 7=331/0-4-9

Max Horiz 7=86 (LC 5)

Max Uplift 5=-42 (LC 8), 7=-90 (LC 4) **FORCES**

(lb) - Maximum Compression/Maximum

Tension TOP CHORD 2-7=-313/107, 1-2=0/32, 2-3=-88/13,

3-4=-103/7, 4-5=-134/50

BOT CHORD 6-7=-40/0, 3-6=0/72, 3-5=-16/64

NOTES

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 90 lb uplift at joint 7 and 42 lb uplift at joint 5.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- "NAILED" indicates 3-10d (0.148"x3") or 2-12d (0.148"x3.25") toe-nails per NDS guidlines.

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

LOAD CASE(S) Standard

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

Uniform Loads (lb/ft)

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

Concentrated Loads (lb) Vert: 9=6 (F=3, B=3)





Ply Job Truss Truss Type Qty Lot 14 H3 H314 J2 Jack-Open 5 Job Reference (optional S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 148693640 LEE'S SUMMIT. MISSOURI

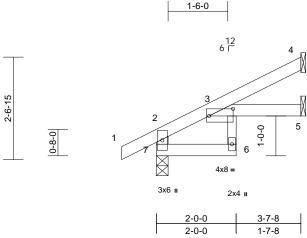
RELEASE FOR CONSTRUCTION

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.43 S Oct 11 2021 Print: 8.430 S Oct 11 2021 MiTek Industries, Inc. F i Nov 0514:1559 ID:WuZvTII3Zv8EaZmhhKFB_GyMGWt-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4ZJd??

2-5-12





Scale = 1:28.9

Plate Offsets (X, Y): [3:0-7-4,0-2-3]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.18	Vert(LL)	-0.01	6	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.15	Vert(CT)	-0.03	6	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.02	5	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R		Wind(LL)	0.02	6	>999	240	Weight: 12 lb	FT = 10%

LUMBER

TOP CHORD 2x4 SPF No.2

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

2x4 SPF No.2 WEBS

BRACING

TOP CHORD Structural wood sheathing directly applied or

3-7-8 oc purlins, except end verticals.

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

bracing.

REACTIONS (lb/size) 4=93/ Mechanical, 5=55/ Mechanical, 7=243/0-3-8

7=81 (LC 8) Max Horiz

Max Uplift 4=-45 (LC 8), 5=-3 (LC 8), 7=-25

(LC 8)

Max Grav 4=93 (LC 1), 5=65 (LC 3), 7=243

(LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 2-7=-232/49, 1-2=0/32, 2-3=-72/0, 3-4=-33/35

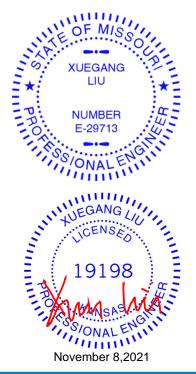
BOT CHORD 6-7=-18/0, 3-6=-2/48, 3-5=0/0

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 25 lb uplift at joint 7, 45 lb uplift at joint 4 and 3 lb uplift at joint 5.

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

LOAD CASE(S) Standard







Ply Qty Job Truss Truss Type Lot 14 H3 H314 J3 Jack-Open Job Reference (optional

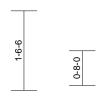
Wheeler Lumber, Waverly, KS - 66871,

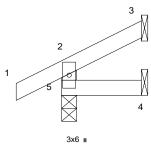
Run: 8.43 S Oct 11 2021 Print: 8.430 S Oct 11 2021 MiTek Industries, Inc. F i Nov 05 14:15 59 ID:anzadtUT1W16ttPZ3z0i5QyMGWe-RfC?PsB70Hq3NSgPqnL8w3ulTXbGi WrCDoi7J4zJC?

-0-10-8	1-6-7
0-10-8	1-6-7

6 <u>12</u>









1-6-7

Scale = 1:22	Scal	le :	= 1	:22	.2
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Loading	(psf)	Spacing	2-0-0	csı		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.07	Vert(LL)	0.00	4-5	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.02	Vert(CT)	0.00	4-5	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R		Wind(LL)	0.00	4-5	>999	240	Weight: 5 lb	FT = 10%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 1-6-7 oc purlins, except end verticals. **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc

bracing.

REACTIONS (lb/size) 3=28/ Mechanical, 4=7/

Mechanical, 5=160/0-3-8

Max Horiz 5=40 (LC 8)

Max Uplift 3=-23 (LC 8), 5=-27 (LC 8)

Max Grav 3=28 (LC 1), 4=24 (LC 3), 5=160

(LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

2-5=-140/40, 1-2=0/32, 2-3=-31/8

TOP CHORD BOT CHORD 4-5=0/0

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 27 lb uplift at joint 5 and 23 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



RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW

DEVELOPMENT SERVICES 148693641

LEE'S SUMMIT. MISSOURI



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chorembers only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

AMSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Ply Job Truss Truss Type Qty Lot 14 H3 H314 J4 Diagonal Hip Girder Job Reference (optional

Wheeler Lumber, Waverly, KS - 66871,

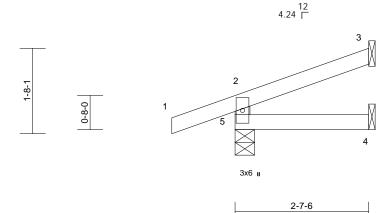
Run: 8.43 S Oct 11 2021 Print: 8.430 S Oct 11 2021 MiTek Industries, Inc. F i Nov 05 1: 10 0/3 ID:_dA8pijiOJfYHGxxPEANPveyMGWK-RfC?PsB70Hq3NSgPqnL8w3uITXbc KWrCDoi7J4zJO7t

S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 148693642 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION

-1-2-14 2-7-6 1-2-14 2-7-6





Scale = 1:22.5

		1	-	1		i -						
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	0.10	Vert(LL)	0.00	4-5	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	ВС	0.03	Vert(CT)	0.00	4-5	>999	240		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.00	Horz(CT)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R		Wind(LL)	0.00	4-5	>999	240	Weight: 8 lb	FT = 10%

LUMBER

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

BRACING

Structural wood sheathing directly applied or TOP CHORD 2-7-6 oc purlins, except end verticals.

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

bracing.

REACTIONS (lb/size)

3=24/ Mechanical, 4=4/ Mechanical, 5=92/0-4-9

Max Horiz 5=62 (LC 12)

3=-45 (LC 12), 4=-4 (LC 19), 5=-99 Max Uplift

(LC 6)

Max Grav 3=24 (LC 1), 4=30 (LC 3), 5=92

(LC 1)

(lb) - Maximum Compression/Maximum

Tension

2-5=-81/113, 1-2=-5/18, 2-3=-22/4

TOP CHORD BOT CHORD 4-5=0/0

NOTES

FORCES

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

 * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 99 lb uplift at joint 5, 45 lb uplift at joint 3 and 4 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.

- 7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 20 lb down and 7 lb up at -1-2-14, and 20 lb down and 7 lb up at -1-2-14 on top chord. The design/selection of such connection device(s) is the responsibility of others.
- In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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

Plate Increase=1.15

Concentrated Loads (lb)

Vert: 1=-30 (F=-15, B=-15) Trapezoidal Loads (lb/ft)

Vert: 1=0 (F=35, B=35)-to-2=-24 (F=23, B=23), 2=-3

(F=34, B=34)-to-3=-46 (F=12, B=12), 5=0 (F=10,

B=10)-to-4=-13 (F=3, B=3)



November 8,2021



Ply Qty Job Truss Truss Type Lot 14 H3 H314 J5 Jack-Open Job Reference (optional

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.43 S Oct 11 2021 Print: 8.430 S Oct 11 2021 MiTek Industries, Inc. Fi Nov 0514:16 00/3 ID:tOPff4nWNu3ilZFAT0RL4UyMGWG-RfC?PsB70Hq3NSgPqnL8w3uITXbc KWrCDoi J4zyO?f

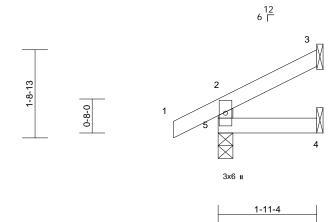
1-7-10

LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW

DEVELOPMENT SERVICES 148693643

-0-10-8	1-11-4
0-10-8	1-11-4



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)	0.00	4-5	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.02	Vert(CT)	0.00	4-5	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R		Wind(LL)	0.00	4-5	>999	240	Weight: 6 lb	FT = 10%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 1-11-4 oc purlins, except end verticals. **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc

bracing.

REACTIONS (lb/size) 3=45/ Mechanical, 4=14/

Mechanical, 5=172/0-3-8

Max Horiz 5=48 (LC 8)

Max Uplift 3=-31 (LC 8), 5=-26 (LC 8)

Max Grav 3=45 (LC 1), 4=32 (LC 3), 5=172

(LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

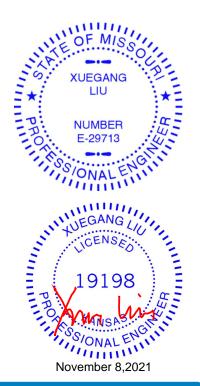
TOP CHORD 2-5=-151/44, 1-2=0/32, 2-3=-38/15

BOT CHORD 4-5=0/0

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 26 lb uplift at joint 5 and 31 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







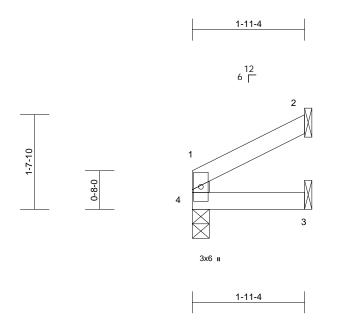
Ply Job Truss Truss Type Qty Lot 14 H3 H314 J6 Jack-Open Job Reference (optional

S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 148693644 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.43 S Oct 11 2021 Print: 8.430 S Oct 11 2021 MiTek Industries, Inc. F i Nov 0514:16 00 1D:pnXP4monvVJQ?sPZbRUp9vyMGWE-RfC?PsB70Hq3NSgPqnL8w3uITX GKWrCDbi7J4zbCH



Scale = 1:19.9

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.04	Vert(LL)	0.00	3-4	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.03	Vert(CT)	0.00	3-4	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	2	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R		Wind(LL)	0.00	3-4	>999	240	Weight: 5 lb	FT = 10%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 1-11-4 oc purlins, except end verticals. **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc

bracing.

REACTIONS (lb/size) 2=58/ Mechanical, 3=22/

Mechanical, 4=80/0-3-8

Max Horiz 4=31 (LC 5) Max Uplift 2=-34 (LC 8)

Max Grav 2=58 (LC 1), 3=34 (LC 3), 4=80

(LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

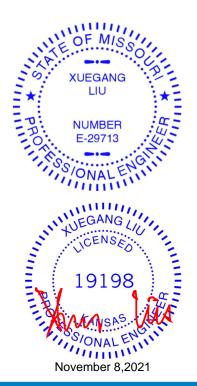
1-4=-67/17, 1-2=-35/20

TOP CHORD BOT CHORD 3-4=0/0

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 34 lb uplift at joint
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard





WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

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AMSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Ply Job Truss Truss Type Qty Lot 14 H3 H314 LAY1 Lay-In Gable Job Reference (optiona

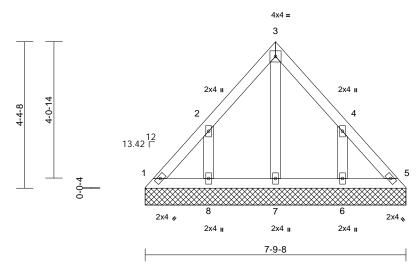
Wheeler Lumber, Waverly, KS - 66871,

Run: 8.43 S Oct 11 2021 Print: 8.430 S Oct 11 2021 MiTek Industries, Inc. F i Nov 05 14:16 00 3 ID:i5qm2mFcyA51YiJspQ9jhwyMGVe-RfC?PsB70Hq3NSgPqnL8w3ulTXbGl<mark>.</mark>WrCDoi7J4zJC?

DEVELOPMENT SERVICES 148693645 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW





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
TCDL	10.0	Lumber DOL	1.15	BC	0.02	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.03	Horiz(TL)	0.00	5	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 29 lb	FT = 10%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins.

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

bracing.

REACTIONS (lb/size) 1=71/7-9-8, 5=71/7-9-8,

6=198/7-9-8, 7=108/7-9-8,

8=198/7-9-8 Max Horiz 1=108 (LC 5)

1=-27 (LC 4), 5=-10 (LC 5), 6=-154 Max Uplift

(LC 9), 8=-154 (LC 8)

Max Grav 1=99 (LC 17), 5=91 (LC 18), 6=228

(LC 16), 7=122 (LC 18), 8=229 (LC

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-121/92, 2-3=-101/79, 3-4=-92/64,

4-5=-106/69

1-8=-45/94, 7-8=-45/94, 6-7=-45/94,

5-6=-45/94

3-7=-82/0, 2-8=-189/178, 4-6=-189/178

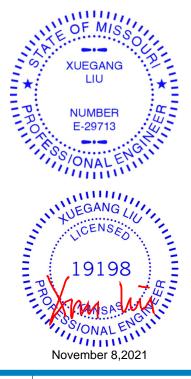
WFRS NOTES

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.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 2-0-0 oc.

- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 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.
- This truss 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





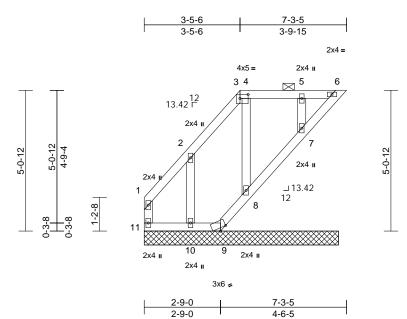
Ply Job Truss Truss Type Qtv Lot 14 H3 H314 LAY2 Lay-In Gable Job Reference (optional

S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 148693646 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION

Wheeler Lumber, Waverly, KS - 66871,

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Scale = 1:41.4

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.05	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.03	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.03	Horiz(TL)	0.00	6	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 30 lb	FT = 10%

LUMBER

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

BRACING

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

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

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

bracing, Except:

6-0-0 oc bracing: 6-7.

REACTIONS (lb/size) 6=47/6-11-13, 7=169/6-11-13,

8=166/6-11-13, 9=1/6-11-13, 10=161/6-11-13, 11=68/6-11-13

Max Horiz 11=139 (LC 8)

Max Uplift 6=-134 (LC 8), 7=-37 (LC 5), 8=-16

(LC 4), 9=-66 (LC 6), 10=-160 (LC

8)

Max Grav 6=81 (LC 15), 7=177 (LC 22),

8=166 (LC 1), 9=154 (LC 8), 10=202 (LC 15), 11=68 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-11=-57/9, 1-2=-50/34, 2-3=-105/131, 3-4=-62/120, 4-5=-62/120, 5-6=-62/120

10-11=-120/62, 9-10=-120/62, 8-9=-188/108,

7-8=-190/108, 6-7=-187/97

WFBS 2-10=-163/161, 4-8=-131/39, 5-7=-138/59

NOTES

BOT CHORD

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

- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Provide adequate drainage to prevent water ponding.
- All plates are 2x4 MT20 unless otherwise indicated. Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 134 lb uplift at joint 6, 66 lb uplift at joint 9, 160 lb uplift at joint 10, 16 lb uplift at joint 8 and 37 lb uplift at joint 7.
- 11) Non Standard bearing condition. Review required.
- 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





Ply Job Truss Truss Type Qtv Lot 14 H3 H314 LAY3 Lay-In Gable

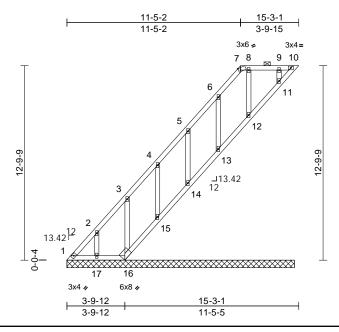
LEE'S SUMMIT. MISSOURI Job Reference (optional

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW

DEVELOPMENT SERVICES 148693647

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.43 S Oct 11 2021 Print: 8.430 S Oct 11 2021 MiTek Industries, Inc. F i Nov 05 14:16 01 3 ID:jSTvuqHxxlpzFmlClmBferyMGUJ-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKVrCDoi7J4zJC?f



Scale = 1:75.8

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	0.07	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.04	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.04	Horiz(TL)	-0.01	10	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 70 lb	FT = 10%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins, except

2-0-0 oc purlins (6-0-0 max.): 7-10. **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc

bracing, Except:

6-0-0 oc bracing: 10-11.

REACTIONS (lb/size)

1=62/14-11-9, 10=31/14-11-9, 11=155/14-11-9, 12=175/14-11-9, 13=175/14-11-9, 14=180/14-11-9,

15=185/14-11-9. 16=169/14-11-9. 17=184/14-11-9

Max Horiz 1=510 (LC 8)

1=-128 (LC 6), 10=-112 (LC 8),

11=-41 (LC 5), 12=-19 (LC 4), 13=-112 (LC 8), 14=-144 (LC 8), 15=-134 (LC 8), 16=-26 (LC 8),

17=-137 (LC 8)

Max Grav 1=418 (LC 8), 10=56 (LC 15),

11=161 (LC 22), 12=175 (LC 1), 13=198 (LC 15), 14=209 (LC 15),

15=214 (LC 15), 16=169 (LC 1), 17=212 (LC 15)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-576/231, 2-3=-445/179, 3-4=-300/121, 4-5=-163/74, 5-6=-69/36, 6-7=-87/112,

7-8=-44/105, 8-9=-44/105, 9-10=-44/105

BOT CHORD 1-17=-98/39, 16-17=-99/40, 15-16=-167/84,

14-15=-166/80, 13-14=-166/81, 12-13=-166/81, 11-12=-166/80,

10-11=-163/67

WEBS

2-17=-167/156, 3-16=-174/166,

4-15=-168/159, 5-14=-171/167,

6-13=-158/136, 8-12=-134/44, 9-11=-127/61

NOTES

- Unbalanced roof live loads have been considered for 1) this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable or consult qualified building designer as per ANSI/TPI 1.
- Provide adequate drainage to prevent water ponding.
- All plates are 2x4 MT20 unless otherwise indicated.
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 128 lb uplift at joint 1, 112 lb uplift at joint 10, 26 lb uplift at joint 16, 137 Ib uplift at joint 17, 134 lb uplift at joint 15, 144 lb uplift at joint 14, 112 lb uplift at joint 13, 19 lb uplift at joint 12 and 41 lb uplift at joint 11.
- 10) Non Standard bearing condition. Review required.
- 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



November 8,2021



Ply Job Truss Truss Type Qty Lot 14 H3 H314 LAY4 Lay-In Gable Job Reference (optional S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 148693648 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION

Wheeler Lumber, Waverly, KS - 66871,

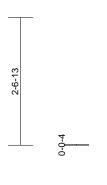
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5-6-

7



3x6 =



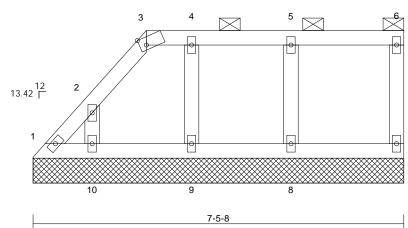


Plate Offsets (X, Y): [3:0-1-9,Edge]

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	0.05	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.03	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.02	Horiz(TL)	0.00	7	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 26 lb	FT = 10%

LUMBER

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

BRACING

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

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

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

REACTIONS (lb/size)

1=21/7-5-8, 7=85/7-5-8, 8=197/7-5-8, 9=179/7-5-8,

10=147/7-5-8

Max Horiz 1=90 (LC 5) Max Uplift

1=-38 (LC 6), 7=-19 (LC 5), 8=-48 (LC 4), 9=-54 (LC 5), 10=-87 (LC 8)

1=77 (LC 5), 7=85 (LC 1), 8=203 Max Grav

(LC 22), 9=179 (LC 1), 10=171 (LC

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=-102/73 2-3=-74/34 3-4=-31/24

4-5=-31/24, 5-6=-31/24, 6-7=-66/27

BOT CHORD 1-10=-34/25, 9-10=-34/25, 8-9=-34/25,

7-8=-34/25

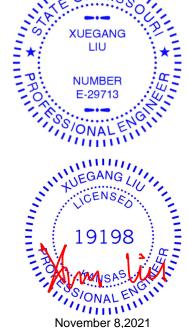
WEBS 2-10=-136/105, 4-9=-139/77, 5-8=-159/71

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.
- Provide adequate drainage to prevent water ponding.
- All plates are 2x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 38 lb uplift at joint 1, 19 lb uplift at joint 7, 87 lb uplift at joint 10, 54 lb uplift at joint 9 and 48 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.

LOAD CASE(S) Standard







Ply Qty Job Truss Truss Type Lot 14 H3 H314 Р1 Piggyback 2

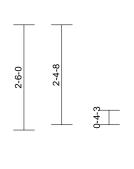
S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 148693649 LEE'S SUMMIT. MISSOURI Job Reference (optional

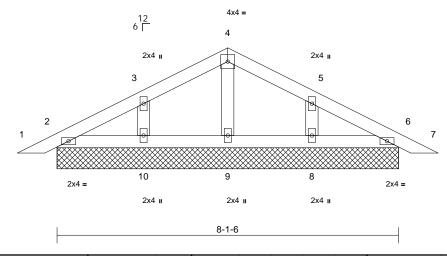
Wheeler Lumber, Waverly, KS - 66871,

Run: 8.43 S Oct 11 2021 Print: 8.430 S Oct 11 2021 MiTek Industries, Inc. F i Nov 0514:16 01/3 ID:hC8n44pz_c6wnQi?LwXpNqyMGXV-RfC?PsB70Hq3NSgPqnL8w3uITXbQ KWrCDoirJ4zIIQ?i

RELEASE FOR CONSTRUCTION

-0-11-5	4-0-11	8-1-6	9-0-11	
0-11-5	4-0-11	4-0-11	0-11-5	





Scale = 1:27.4

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	0.06	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.03	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.02	Horz(CT)	0.00	6	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 26 lb	FT = 10%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins.

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

bracing.

REACTIONS (lb/size) 2=127/8-1-6, 6=127/8-1-6,

8=214/8-1-6, 9=134/8-1-6,

10=214/8-1-6

Max Horiz 2=41 (LC 8) Max Uplift

2=-17 (LC 8), 6=-25 (LC 9), 8=-67

(LC 9), 10=-67 (LC 8)

FORCES (lb) - Maximum Compression/Maximum

Tension TOP CHORD

1-2=0/17, 2-3=-51/41, 3-4=-50/56,

4-5=-50/49, 5-6=-40/30, 6-7=0/17

BOT CHORD 2-10=-2/37, 9-10=-2/37, 8-9=-2/37, 6-8=-2/37

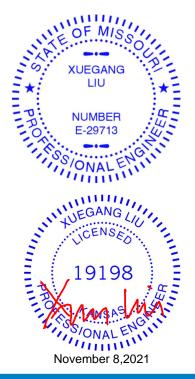
4-9=-98/2, 3-10=-167/95, 5-8=-167/95 WEBS

NOTES

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

- 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 17 lb uplift at joint 2, 25 lb uplift at joint 6, 67 lb uplift at joint 10 and 67 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.
- 10) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

LOAD CASE(S) Standard





Qty Job Truss Truss Type Ply Lot 14 H3 H314 P2 Piggyback 19 Job Reference (optional

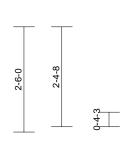
S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 148693650 LEE'S SUMMIT. MISSOURI

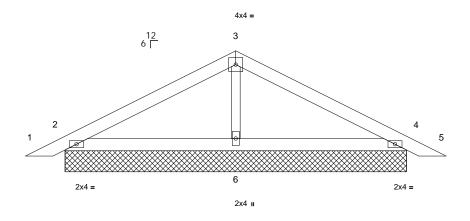
RELEASE FOR CONSTRUCTION

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.43 S Oct 11 2021 Print: 8.430 S Oct 11 2021 MiTek Industries, Inc. Fi Nov 05 14:16 02 2 ID:WMV2L7ukZSs3VLA9iBdDc5yMGXP-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDo7J42JC7

-0-11-5	4-0-11	8-1-6	9-0-11
0-11-5	4-0-11	4-0-11	0-11-5





8-1-6

Scale = 1:27.4

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	0.29	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.14	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.05	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 23 lb	FT = 10%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins.

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

bracing.

REACTIONS (lb/size)

2=237/8-1-6, 4=237/8-1-6,

6=343/8-1-6

Max Horiz 2=-41 (LC 13)

Max Uplift 2=-60 (LC 8), 4=-67 (LC 9), 6=-1

(LC 8)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/17, 2-3=-93/55, 3-4=-93/39, 4-5=0/17

BOT CHORD 2-6=0/45, 4-6=0/45

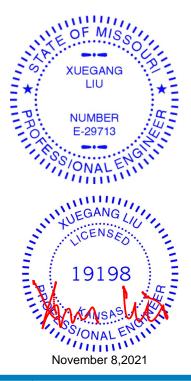
WEBS 3-6=-241/62

NOTES

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

- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 60 lb uplift at joint 2, 67 lb uplift at joint 4 and 1 lb uplift at joint 6.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 10) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

LOAD CASE(S) Standard





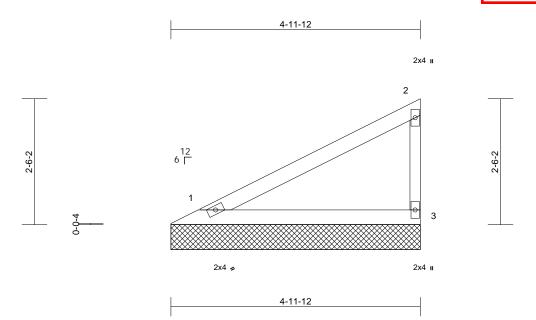
Ply Job Truss Truss Type Qty Lot 14 H3 H314 V1 Valley Job Reference (optional

S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 148693651 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION

Wheeler Lumber, Waverly, KS - 66871,

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Scale = 1:23

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.35	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.19	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horiz(TL)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 13 lb	FT = 10%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 5-0-4 oc purlins, except end verticals.

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

bracing.

REACTIONS (lb/size) 1=193/4-11-12, 3=193/4-11-12

Max Horiz 1=89 (LC 7)

Max Uplift 1=-25 (LC 8), 3=-47 (LC 8) (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-82/54, 2-3=-150/73

BOT CHORD 1-3=-31/23

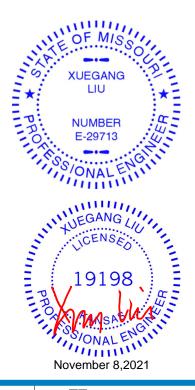
NOTES

FORCES

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 25 lb uplift at joint 1 and 47 lb uplift at joint 3.

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

LOAD CASE(S) Standard







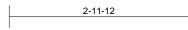
Ply Job Truss Truss Type Qty Lot 14 H3 H314 V2 Valley Job Reference (optional

Wheeler Lumber, Waverly, KS - 66871,

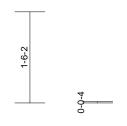
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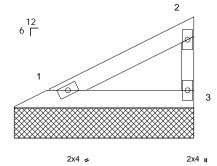
S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 148693652 LEE'S SUMMIT. MISSOURI

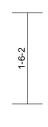
RELEASE FOR CONSTRUCTION



2x4 II







2-11-12

Scale = 1:19.1

Loading	(psf)	Spacing	2-0-0	csı		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.09	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.05	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horiz(TL)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 7 lb	FT = 10%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 3-0-4 oc purlins, except end verticals.

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

bracing.

REACTIONS (lb/size) 1=103/2-11-12, 3=103/2-11-12

Max Horiz 1=48 (LC 5)

Max Uplift 1=-13 (LC 8), 3=-25 (LC 8) (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-44/29, 2-3=-80/39

BOT CHORD 1-3=-16/12

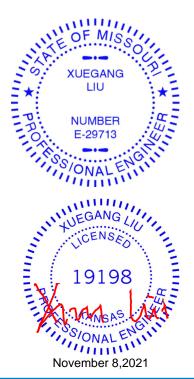
NOTES

FORCES

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 13 lb uplift at joint 1 and 25 lb uplift at joint 3.

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

LOAD CASE(S) Standard





WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chorembers only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

AMSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



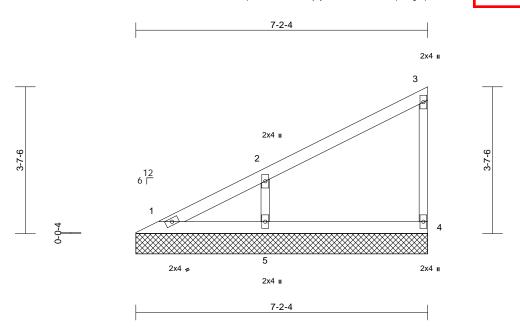
Ply Job Truss Truss Type Qty Lot 14 H3 H314 V3 Valley Job Reference (optional

S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 148693653 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.43 S Oct 11 2021 Print: 8.430 S Oct 11 2021 MiTek Industries, Inc. F i Nov 05 1: 16 02/3 ID:UfEnf?q5bDRB5DATkUaMjEyMGa3-RfC?PsB70Hq3NSgPqnL8w3uITXbc KWrCDoi J4zb 07:1



Sca	le =	1:2	8.4
Sca	ie =	1:2	٥.٠

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.19	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.10	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.05	Horiz(TL)	0.00	4	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 20 lb	FT = 10%

LUMBER

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

BRACING

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

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

bracing.

REACTIONS (lb/size) 1=66/7-2-4, 4=141/7-2-4, 5=377/7-2-4

1=135 (LC 5) Max Horiz

Max Uplift 4=-26 (LC 8), 5=-113 (LC 8) Max Grav 1=81 (LC 16), 4=141 (LC 1), 5=377

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-113/61, 2-3=-107/44, 3-4=-110/45

BOT CHORD 1-5=-46/35, 4-5=-46/35

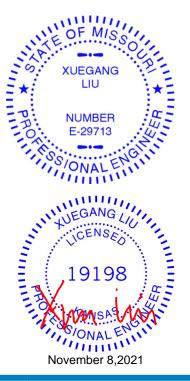
2-5=-293/163 WEBS

NOTES

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.

- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 26 lb uplift at joint 4 and 113 lb uplift at joint 5.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard





Ply Qty Job Truss Truss Type Lot 14 H3 H314 V4 Valley Job Reference (optional

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.43 S Oct 11 2021 Print: 8.430 S Oct 11 2021 MiTek Industries, Inc. F i Nov 05 14:16 03 2 ID:UfEnf?q5bDRB5DATkUaMjEyMGa3-RfC?PsB70Hq3NSgPqnL8w3uITXb(KWrCDoil J4zJ0?f

S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 148693654 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION

5-2-4 2x4 II 2 3 2x4 2x4 II 5-2-4

Scale = 1:23.4

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.38	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.21	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horiz(TL)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 13 lb	FT = 10%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 5-2-12 oc purlins, except end verticals.

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

bracing.

REACTIONS (lb/size) 1=202/5-2-4, 3=202/5-2-4

Max Horiz 1=94 (LC 5)

Max Uplift 1=-26 (LC 8), 3=-50 (LC 8) (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-86/56, 2-3=-157/77

BOT CHORD 1-3=-32/24

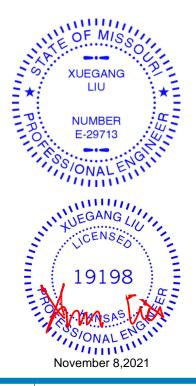
NOTES

FORCES

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 26 lb uplift at joint 1 and 50 lb uplift at joint 3.

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

LOAD CASE(S) Standard







Ply Job Truss Truss Type Qty Lot 14 H3 H314 V5 Valley Job Reference (optional

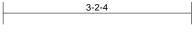
Wheeler Lumber, Waverly, KS - 66871,

Run: 8.43 S Oct 11 2021 Print: 8.430 S Oct 11 2021 MiTek Industries, Inc. F i Nov 05 14:16 03 2 ID:UfEnf?q5bDRB5DATkUaMjEyMGa3-RfC?PsB70Hq3NSgPqnL8w3uITXb(KWrCDoil J4zJ0?f

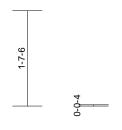
S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 148693655 LEE'S SUMMIT. MISSOURI

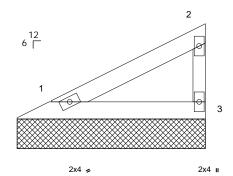
RELEASE FOR CONSTRUCTION

3-2-4



2x4 II





3-2-4

Scale = 1:19.5

Loading	(psf)	Spacing	2-0-0	csı		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.11	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.06	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horiz(TL)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 8 lb	FT = 10%

LUMBER

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

BRACING

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

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

bracing.

REACTIONS (lb/size) 1=112/3-2-4, 3=112/3-2-4

Max Horiz 1=52 (LC 5)

Max Uplift 1=-14 (LC 8), 3=-28 (LC 8) (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-48/31, 2-3=-87/43

BOT CHORD 1-3=-18/14

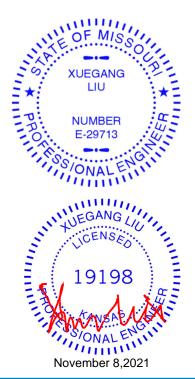
NOTES

FORCES

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 14 lb uplift at joint 1 and 28 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







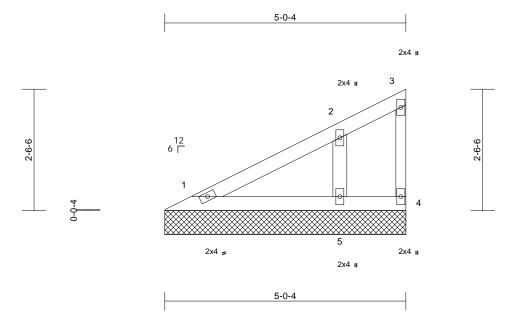
Ply Job Truss Truss Type Qty Lot 14 H3 H314 V6 Valley Job Reference (optional

S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 148693656 LEE'S SUMMIT. MISSOURI

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.43 S Oct 11 2021 Print: 8.430 S Oct 11 2021 MiTek Industries, Inc. F i Nov 05 14:16 03 2 ID:UfEnf?q5bDRB5DATkUaMjEyMGa3-RfC?PsB70Hq3NSgPqnL8w3uITXb(KWrCDoil J4zJ0?f

RELEASE FOR CONSTRUCTION



Scale	=	1	:2
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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	0.12	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.06	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.03	Horiz(TL)	0.00	4	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 14 lb	FT = 10%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or

5-0-12 oc purlins, except end verticals. **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc

bracing.

REACTIONS (lb/size) 1=112/5-0-4, 4=-4/5-0-4, 5=282/5-0-4

1=90 (LC 7) Max Horiz

Max Uplift 4=-17 (LC 7), 5=-84 (LC 8) Max Grav 1=112 (LC 1), 4=12 (LC 8), 5=282

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-68/57, 2-3=-59/25, 3-4=-12/15

BOT CHORD 1-5=-31/23, 4-5=-31/23

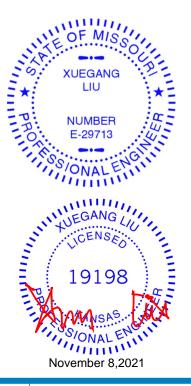
2-5=-219/122 WEBS

NOTES

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

- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 17 lb uplift at joint 4 and 84 lb uplift at joint 5.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chorembers only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

AMSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Ply Job Truss Truss Type Qty Lot 14 H3 H314 V7 Valley Job Reference (optional

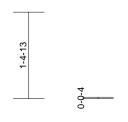
Wheeler Lumber, Waverly, KS - 66871,

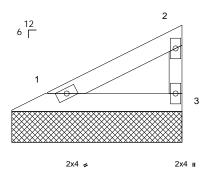
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S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 148693657 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION

2-9-2







2-9-2

Scale = 1:18.7

Loading	(psf)	Spacing	2-0-0	csı		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.07	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.04	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horiz(TL)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 7 lb	FT = 10%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 2-9-10 oc purlins, except end verticals.

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

bracing.

REACTIONS (lb/size) 1=93/2-9-2, 3=93/2-9-2

Max Horiz 1=43 (LC 5)

Max Uplift 1=-12 (LC 8), 3=-23 (LC 8) (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-40/26, 2-3=-72/35

BOT CHORD 1-3=-15/11

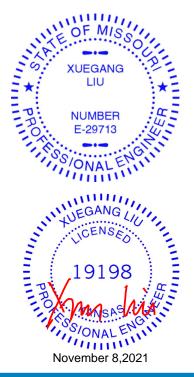
NOTES

FORCES

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 12 lb uplift at joint 1 and 23 lb uplift at joint 3.

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

LOAD CASE(S) Standard





WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chorembers only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

AMSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



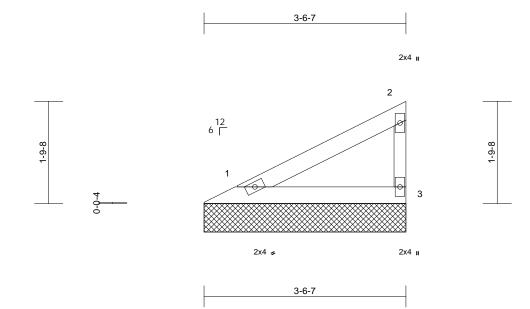
Job Truss Truss Type Qty Ply Lot 14 H3 H314 V8 Valley Job Reference (optional

S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 148693658 LEE'S SUMMIT. MISSOURI

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.43 S Oct 11 2021 Print: 8.430 S Oct 11 2021 MiTek Industries, Inc. F i Nov 05 14:16 03 2 ID:UfEnf?q5bDRB5DATkUaMjEyMGa3-RfC?PsB70Hq3NSgPqnL8w3uITXb(KWrCDoil J4zJ0?f

RELEASE FOR CONSTRUCTION



Scale = 1:2

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	0.14	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.08	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horiz(TL)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 9 lb	FT = 10%

LUMBER

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

BRACING

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

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

bracing.

REACTIONS (lb/size) 1=128/3-6-7, 3=128/3-6-7

Max Horiz 1=59 (LC 5)

Max Uplift 1=-16 (LC 8), 3=-31 (LC 8) (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-54/36, 2-3=-100/48

BOT CHORD 1-3=-20/15

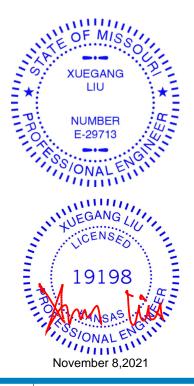
NOTES

FORCES

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 16 lb uplift at joint 1 and 31 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







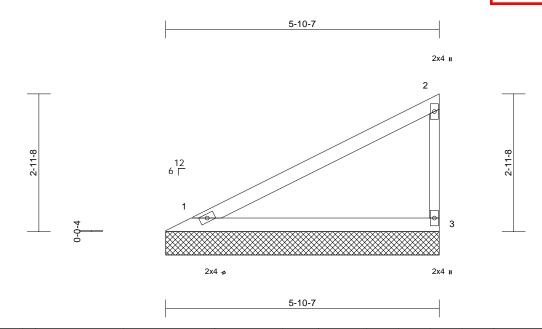
Ply Qty Job Truss Truss Type Lot 14 H3 H314 V9 Valley Job Reference (optional

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.43 S Oct 11 2021 Print: 8.430 S Oct 11 2021 MiTek Industries, Inc. F i Nov 05 14:16 04 2 ID:UfEnf?q5bDRB5DATkUaMjEyMGa3-RfC?PsB70Hq3NSgPqnL8w3ulTXbCKWrCDoi7J4zJO?f

S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 148693659 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION



Scale = 1:24.7

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	0.52	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.28	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horiz(TL)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 15 lb	FT = 10%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 5-10-15 oc purlins, except end verticals.

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

bracing.

REACTIONS (lb/size) 1=233/5-10-7, 3=233/5-10-7

Max Horiz 1=108 (LC 5)

Max Uplift 1=-30 (LC 8), 3=-57 (LC 8) (lb) - Maximum Compression/Maximum

FORCES Tension

TOP CHORD 1-2=-99/65, 2-3=-181/88

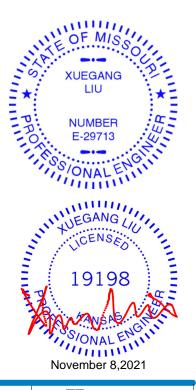
BOT CHORD 1-3=-37/28

NOTES

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 30 lb uplift at joint 1 and 57 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







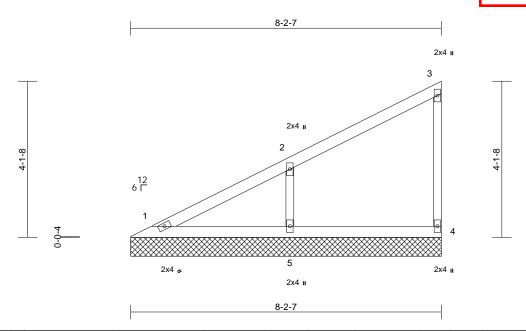
Ply Job Truss Truss Type Qty Lot 14 H3 H314 V10 Valley Job Reference (optional

S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 148693660 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.43 S Oct 11 2021 Print: 8.430 S Oct 11 2021 MiTek Industries, Inc. F i Nov 05 14:16 04 ID:0SgPSfqTqwJKU3bHBm37B1yMGa4-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDol7J4zJC?



Scal	\sim	_	1	.2	0	

Loading	(psf)	Spacing	2-0-0	csı		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.23	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.12	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.06	Horiz(TL)	0.00	4	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 23 lb	FT = 10%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or

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

bracing.

REACTIONS (lb/size) 1=119/8-2-7, 4=135/8-2-7,

5=423/8-2-7 1=157 (LC 5) Max Horiz

Max Uplift 4=-26 (LC 5), 5=-127 (LC 8) Max Grav 1=125 (LC 16), 4=135 (LC 1),

5=423 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-127/74, 2-3=-115/44, 3-4=-105/44

BOT CHORD 1-5=-53/41, 4-5=-53/41 2-5=-329/183

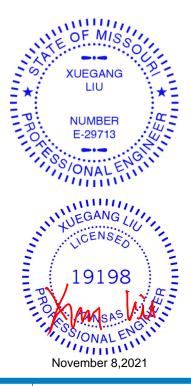
WEBS

NOTES

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.

- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 26 lb uplift at joint 4 and 127 lb uplift at joint 5.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard







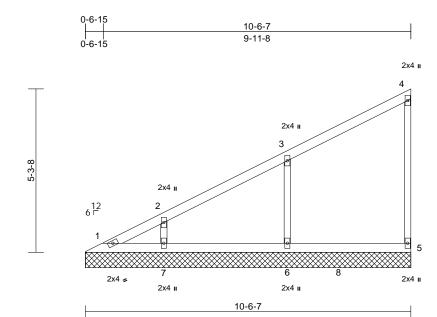
Job	Truss	Truss Type	Qty	Ply	Lot 14 H3
H314	V11	Valley	1	1	Job Reference (options

S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 148693661 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.43 S Oct 11 2021 Print: 8.430 S Oct 11 2021 MiTek Industries, Inc. Fi Nov 05 14:16 04 2 ID:0SgPSfqTqwJKU3bHBm37B1yMGa4-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDol7J4zJC?



Scal	le :	= 1	:37	1.3

Loading	(psf)	Spacing	2-0-0	csı		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.22	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.13	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.08	Horiz(TL)	0.00	5	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 31 lb	FT = 10%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or

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

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

bracing. REACTIONS (lb/size)

1=46/10-6-7, 5=140/10-6-7, 6=405/10-6-7, 7=296/10-6-7

1=205 (LC 5) Max Horiz

Max Uplift 5=-32 (LC 5), 6=-121 (LC 8), 7=-89

(LC 8)

Max Grav 1=93 (LC 16), 5=174 (LC 15), 6=430 (LC 2), 7=300 (LC 2)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-178/52, 2-3=-144/71, 3-4=-127/53,

4-5=-108/44

BOT CHORD 1-7=-69/54, 6-7=-69/54, 5-6=-69/54

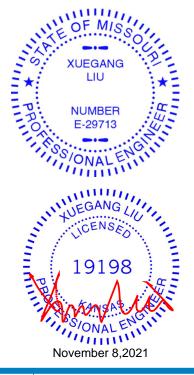
3-6=-315/167, 2-7=-230/131 WEBS

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.
- 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.

- 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.
- 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.
- This truss 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







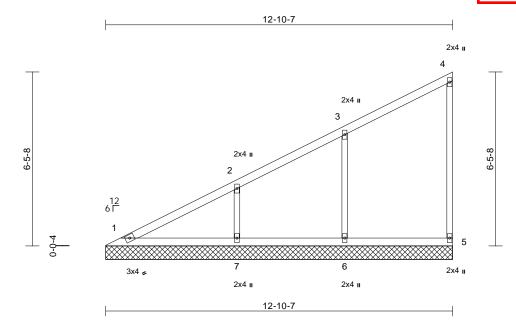
Ply Job Truss Truss Type Qty Lot 14 H3 H314 V12 Valley Job Reference (optiona

S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 148693662 LEE'S SUMMIT. MISSOURI

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.43 S Oct 11 2021 Print: 8.430 S Oct 11 2021 MiTek Industries, Inc. F i Nov 05 14:16 04 ID:0SgPSfqTqwJKU3bHBm37B1yMGa4-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDol7J4zJC?

RELEASE FOR CONSTRUCTION



Scal	Δ –	1./	2 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	0.33	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.15	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.13	Horiz(TL)	0.00	5	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 40 lb	FT = 10%

LUMBER

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

BRACING

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 (lb/size) 1=156/12-10-7, 5=145/12-10-7, 6=376/12-10-7, 7=419/12-10-7

1=254 (LC 5) Max Horiz

Max Uplift 5=-37 (LC 5), 6=-113 (LC 8),

7=-126 (LC 8)

Max Grav 1=203 (LC 16), 5=186 (LC 15), 6=423 (LC 2), 7=425 (LC 2)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-210/84, 2-3=-163/71, 3-4=-138/65,

4-5=-112/47

BOT CHORD 1-7=-86/66, 6-7=-86/66, 5-6=-86/66

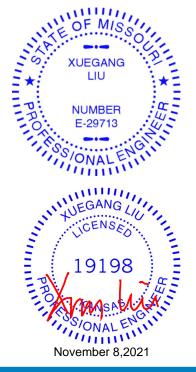
3-6=-296/152, 2-7=-316/176 WEBS

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.
- 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.

- 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 37 lb uplift at joint 5, 113 lb uplift at joint 6 and 126 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





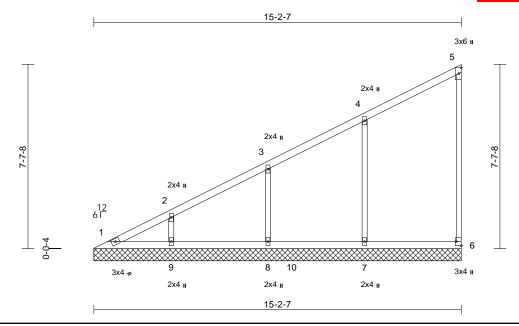
Job	Truss	Truss Type	Qty	Ply	Lot 14 H3
H314	V13	Valley	1	1	Job Reference (option

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.43 S Oct 11 2021 Print: 8.430 S Oct 11 2021 MiTek Industries, Inc. F i Nov 05 14:16 04 2 ID:0SgPSfqTqwJKU3bHBm37B1yMGa4-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDol7J4zJC?

S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 148693663 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION



Scale = 1:47.7

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	0.47	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.16	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.21	Horiz(TL)	0.00	6	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 49 lb	FT = 10%

LUMBER

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

BRACING

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

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

bracing.

1=79/15-2-7, 6=142/15-2-7, 7=393/15-2-7, 8=359/15-2-7, REACTIONS (lb/size)

9=333/15-2-7

Max Horiz 1=302 (LC 5)

Max Uplift 6=-42 (LC 5), 7=-118 (LC 8),

8=-108 (LC 8), 9=-101 (LC 8)

Max Grav 1=146 (LC 16), 6=182 (LC 15), 7=473 (LC 2), 8=383 (LC 2), 9=340

(LC 2)

FORCES (lb) - Maximum Compression/Maximum

1-2=-262/70, 2-3=-216/78, 3-4=-180/80, TOP CHORD

4-5=-149/77, 5-6=-110/47 **BOT CHORD**

1-9=-103/79, 8-9=-103/79, 7-8=-103/79,

6-7=-103/79

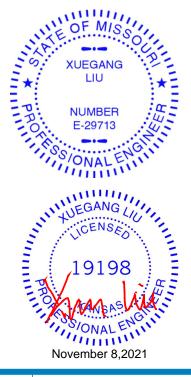
WEBS 4-7=-306/150, 3-8=-279/161, 2-9=-256/141

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable. or consult qualified building designer as per ANSI/TPI 1.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.

- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 42 lb uplift at joint 6, 118 lb uplift at joint 7, 108 lb uplift at joint 8 and 101 lb uplift at joint 9.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



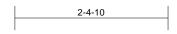


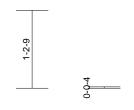
Ply Qty Job Truss Truss Type Lot 14 H3 H314 V14 Valley 2 Job Reference (optional S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 148693664 LEE'S SUMMIT. MISSOURI

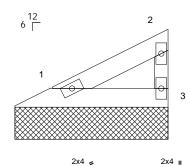
RELEASE FOR CONSTRUCTION

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.43 S Oct 11 2021 Print: 8.430 S Oct 11 2021 MiTek Industries, Inc. F i Nov 0514:16 05 ID:0SgPSfqTqwJKU3bHBm37B1yMGa4-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDol7J4zJC?









2-4-10

Scale = 1:17.9

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.05	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.02	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horiz(TL)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 6 lb	FT = 10%

LUMBER

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

BRACING

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

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

bracing.

REACTIONS (lb/size) 1=76/2-4-10, 3=76/2-4-10

Max Horiz 1=35 (LC 7)

Max Uplift 1=-10 (LC 8), 3=-19 (LC 8) (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-32/21, 2-3=-59/29

BOT CHORD 1-3=-12/9

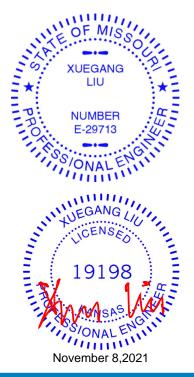
NOTES

FORCES

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 10 lb uplift at joint 1 and 19 lb uplift at joint 3.

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

LOAD CASE(S) Standard





WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chorembers only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

AMSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Ply Job Truss Truss Type Qty Lot 14 H3 H314 V15 Valley Job Reference (optional

S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 148693665 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.43 S Oct 11 2021 Print: 8.430 S Oct 11 2021 MiTek Industries, Inc. F i Nov 05 14:16 05 2 ID:0SgPSfqTqwJKU3bHBm37B1yMGa4-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDo7J42JC?

I/defI

n/a 999

n/a

n/a n/a

(loc)

4

n/a

n/a

0.00

L/d

999

PLATES

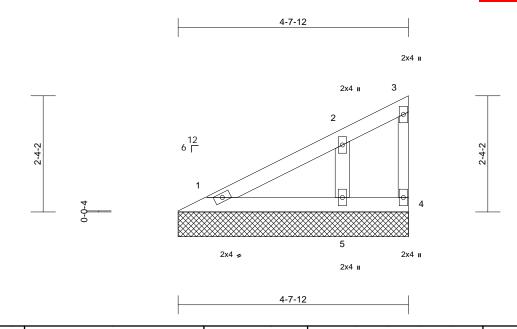
Weight: 13 lb

MT20

GRIP

197/144

FT = 10%



BCLL BCDL

TCDI

TCLL (roof)

Scale = 1:23.2 Loading

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 4-8-4 oc purlins, except end verticals.

(psf)

25.0

10.0

10.0

0.0*

Spacing

Code

Plate Grip DOL

Rep Stress Incr

Lumber DOL

2-0-0

1.15

1 15

YES

IRC2018/TPI2014

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

bracing.

REACTIONS (lb/size) 1=100/4-7-12, 4=5/4-7-12,

5=250/4-7-12 1=83 (LC 5) Max Horiz

Max Uplift 4=-13 (LC 7), 5=-75 (LC 8) Max Grav 1=100 (LC 1), 4=11 (LC 4), 5=250

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-63/51, 2-3=-54/23, 3-4=-10/14

BOT CHORD 1-5=-28/21, 4-5=-28/21 2-5=-194/108 WEBS

NOTES

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

7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 13 lb uplift at joint 4 and 75 lb uplift at joint 5.

DEFL

Vert(LL)

Vert(TL)

Horiz(TL)

0.10

0.05

0.03

CSI

TC

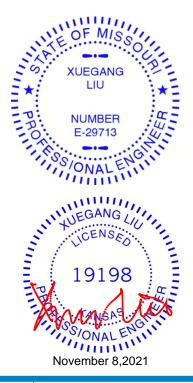
BC

WB

Matrix-P

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

LOAD CASE(S) Standard



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chorembers only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

AMSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

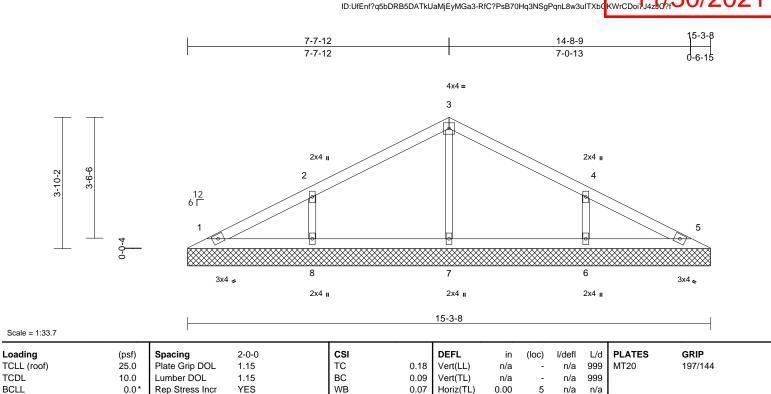


Ply Job Truss Truss Type Qty Lot 14 H3 H314 V16 Valley Job Reference (optional

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 148693666 LEE'S SUMMIT. MISSOURI

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.43 S Oct 11 2021 Print: 8.430 S Oct 11 2021 MiTek Industries, Inc. F i Nov 05 14:10 05



BCDL LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.

10.0

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

bracing.

REACTIONS (lb/size) 1=114/15-3-8, 5=114/15-3-8, 6=370/15-3-8, 7=302/15-3-8,

8=370/15-3-8

Code

Max Horiz 1=62 (LC 12)

1=-12 (LC 9), 5=-3 (LC 9), 6=-119 Max Uplift

(LC 9), 8=-119 (LC 8)

Max Grav 1=114 (LC 1), 5=114 (LC 1), 6=378 (LC 22), 7=302 (LC 1), 8=378 (LC

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-87/48, 2-3=-106/91, 3-4=-106/75,

4-5=-68/38 BOT CHORD

1-8=0/54, 7-8=0/54, 6-7=0/54, 5-6=0/54 3-7=-223/31, 2-8=-296/162, 4-6=-296/162

WEBS

NOTES

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

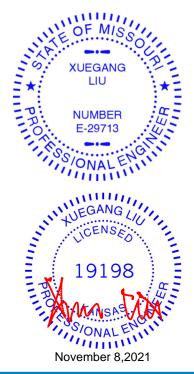
This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

Matrix-S

- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 12 lb uplift at joint 1, 3 lb uplift at joint 5, 119 lb uplift at joint 8 and 119 lb uplift at joint 6.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

IRC2018/TPI2014



Weight: 40 lb

FT = 10%

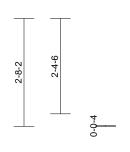


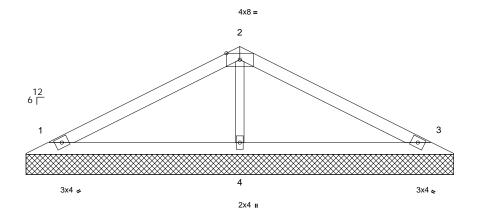
Ply Qty Job Truss Truss Type Lot 14 H3 H314 V17 Valley Job Reference (optional RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 148693667 LEE'S SUMMIT. MISSOURI

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.43 S Oct 11 2021 Print: 8.430 S Oct 11 2021 MiTek Industries, Inc. F i Nov 0514:16 05 ID:UfEnf?q5bDRB5DATkUaMjEyMGa3-RfC?PsB70Hq3NSgPqnL8w3uITXbCKWrCDoi7J4zJO?f







10-7-8

Scale = 1:28.6

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	0.31	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.19	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.07	Horiz(TL)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 26 lb	FT = 10%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins.

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

bracing.

REACTIONS (lb/size) 1=200/10-7-8, 3=200/10-7-8,

4=451/10-7-8 Max Horiz 1=-42 (LC 13)

1=-41 (LC 8), 3=-48 (LC 9), 4=-25 Max Uplift

(LC 8)

Max Grav 1=200 (LC 21), 3=200 (LC 22),

4=451 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-122/61, 2-3=-122/44 **BOT CHORD** 1-4=-3/51, 3-4=-3/51

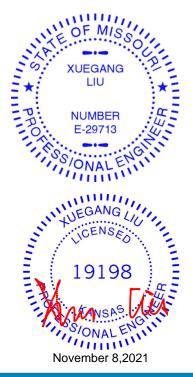
WEBS 2-4=-308/81

NOTES

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

- 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 41 lb uplift at joint 1, 48 lb uplift at joint 3 and 25 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







Ply Qty Job Truss Truss Type Lot 14 H3 H314 V18 Valley Job Reference (optional

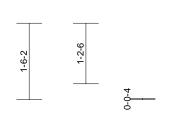
S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 148693668 LEE'S SUMMIT. MISSOURI

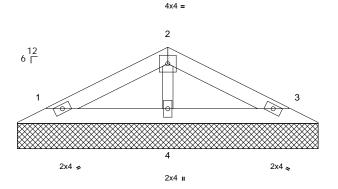
RELEASE FOR CONSTRUCTION

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.43 S Oct 11 2021 Print: 8.430 S Oct 11 2021 MiTek Industries, Inc. F i Nov 0514: 16 06/3 ID:UfEnf?q5bDRB5DATkUaMjEyMGa3-RfC?PsB70Hq3NSgPqnL8w3uITXb0 KWrCDoi7J42J0?i







5-11-8

Scale =	1:22.8
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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	0.10	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.05	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.03	Horiz(TL)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 14 lb	FT = 10%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins.

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

bracing.

REACTIONS (lb/size) 1=112/5-11-8, 3=112/5-11-8,

4=206/5-11-8

Max Horiz 1=-21 (LC 13)

1=-26 (LC 8), 3=-30 (LC 9), 4=-3 Max Uplift

(LC 8)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-54/30, 2-3=-54/21

BOT CHORD 1-4=-1/24, 3-4=-1/24

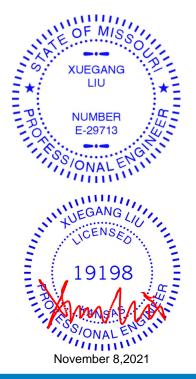
WEBS 2-4=-146/38

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.
- 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.

- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 26 lb uplift at joint 1, 30 lb uplift at joint 3 and 3 lb uplift at joint 4.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chorembers only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

AMSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



* Plate location details available in MiTek 20/20 software or upon request.

connector plates.

This symbol indicates the required direction of slots in

edge of truss.

PLATE SIZE

4 × 4

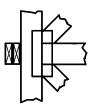
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING LOCATION



Indicated by symbol shown and/or by text in the bracing section of the output. Use T or I bracing if indicated.

BEARING



Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur.

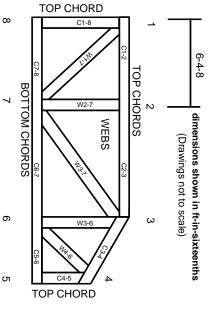
Min size shown is for crushing only

Industry Standards:

ANSI/TPI1: DSB-89:

National Design Specification for Metal Plate Connected Wood Truss Construction. Design Standard for Bracing.
Building Component Safety Information, Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses.

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-1311, ESR-1352, ESR1988 ER-3907, ESR-2362, ESR-1397, ESR-3282

Trusses are designed for wind loads in the plane of the truss unless otherwise shown.

Lumber design values are in accordance with ANSI/TPI 1 section 6.3 These truss designs rely on lumber values established by others.

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MiTek Engineering Reference Sheet: MII-7473 rev. 5/19/2020

General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

- Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI
- Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves may require bracing, or alternative Tor I bracing should be considered.
- Never exceed the design loading shown and never stack materials on inadequately braced trusses.

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- Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
- Cut members to bear tightly against each other.

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- Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TPI 1.
- Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI 1.
- Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
- Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber
- Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
- Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
- Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
- Top chords must be sheathed or purlins provided at spacing indicated on design.
- Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
- Connections not shown are the responsibility of others
- Do not cut or alter truss member or plate without prior approval of an engineer.
- 17. Install and load vertically unless indicated otherwise.
- Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use.
- Review all portions of this design (front, back, words and pictures) before use. Reviewing pictures alone is not sufficient.
- 20. 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.