04/22/2024



RE: 240614

Lot 123 MN

MiTek, Inc.

16023 Swingley Ridge Rd. Chesterfield, MO 63017 314.434.1200

Site Information:

Customer: Avital Homes Project Name: 240614

Lot/Block: Model: Crestwood - Craftsman FH 3rd Car

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 8.7

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

This package includes 48 individual, dated Truss Design Drawings and 0 Additional Drawings.

No.	Seal#	Truss Name	Date	No.	Seal#	Truss Name	Date
1	164131335	A1	3/11/2024	21	164131355	D11	3/11/2024
2	164131336	A2A	3/11/2024	22	164131356	G1	3/11/2024
3	164131337	A3A	3/11/2024	23	164131357	G2	3/11/2024
4	164131338	A4A	3/11/2024	24	164131358	G3	3/11/2024
5	164131339	A5A	3/11/2024	25	164131359	G4	3/11/2024
6	164131340	B1	3/11/2024	26	164131360	J1	3/11/2024
7	164131341	B2	3/11/2024	27	164131361	J2	3/11/2024
8	164131342	C1	3/11/2024	28	164131362	J3	3/11/2024
9	164131343	C2	3/11/2024	29	164131363	J4	3/11/2024
10	164131344	C3	3/11/2024	30	164131364	J5	3/11/2024
11	164131345	D1	3/11/2024	31	164131365	J6	3/11/2024
12	164131346	D2	3/11/2024	32	164131366	J7	3/11/2024
13	164131347	D3	3/11/2024	33	164131367	J8	3/11/2024
14	164131348	D4	3/11/2024	34	164131368	J9	3/11/2024
15	164131349	D5	3/11/2024	35	164131369	J10	3/11/2024
16	164131350	D6	3/11/2024	36	164131370	J11	3/11/2024
17	164131351	D7	3/11/2024	37	164131371	LAY1	3/11/2024
18	164131352	D8	3/11/2024	38	164131372	LAY2	3/11/2024
19	164131353	D9	3/11/2024	39	164131373	LAY4	3/11/2024
20	164131354	D10	3/11/2024	40	164131374	V1	3/11/2024

The truss drawing(s) referenced above have been prepared by

MiTek USA, Inc under my direct supervision

based on the parameters provided by Wheeler - Waverly.

Truss Design Engineer's Name: Garcia, Juan

My license renewal date for the state of Kansas is April 30, 2024.

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: 240614 - Lot 123 MN

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

Site Information:

Project Customer: Avital Homes Project Name: 240614

Lot/Block: Subdivision:

Address:

City, County: State:

No.	Seal#	Truss Name	Date
41	164131375	V2	3/11/2024
42	164131376	V3	3/11/2024
43	164131377	V4	3/11/2024
44	164131378	V5	3/11/2024
45	164131379	V6	3/11/2024
46	164131380	V10	3/11/2024
47	164131381	V11	3/11/2024
48	164131382	V12	3/11/2024



RE: 240614

Lot 123 MN

MiTek, Inc.

16023 Swingley Ridge Rd. Chesterfield, MO 63017 314.434.1200

Site Information:

Customer: Avital Homes Project Name: 240614

Lot/Block: Model: Crestwood - Craftsman FH 3rd Car

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 8.7

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

This package includes 48 individual, dated Truss Design Drawings and 0 Additional Drawings.

No.	Seal#	Truss Name	Date	No.	Seal#	Truss Name	Date
1	164131335	A1	3/11/2024	21	164131355	D11	3/11/2024
2	164131336	A2A	3/11/2024	22	164131356	G1	3/11/2024
3	164131337	A3A	3/11/2024	23	164131357	G2	3/11/2024
4	164131338	A4A	3/11/2024	24	164131358	G3	3/11/2024
5	164131339	A5A	3/11/2024	25	164131359	G4	3/11/2024
6	164131340	B1	3/11/2024	26	164131360	J1	3/11/2024
7	164131341	B2	3/11/2024	27	164131361	J2	3/11/2024
8	164131342	C1	3/11/2024	28	164131362	J3	3/11/2024
9	164131343	C2	3/11/2024	29	164131363	J4	3/11/2024
10	164131344	C3	3/11/2024	30	164131364	J5	3/11/2024
11	164131345	D1	3/11/2024	31	164131365	J6	3/11/2024
12	164131346	D2	3/11/2024	32	164131366	J7	3/11/2024
13	164131347	D3	3/11/2024	33	164131367	J8	3/11/2024
14	164131348	D4	3/11/2024	34	164131368	J9	3/11/2024
15	164131349	D5	3/11/2024	35	164131369	J10	3/11/2024
16	164131350	D6	3/11/2024	36	164131370	J11	3/11/2024
17	164131351	D7	3/11/2024	37	164131371	LAY1	3/11/2024
18	164131352	D8	3/11/2024	38	164131372	LAY2	3/11/2024
19	164131353	D9	3/11/2024	39	164131373	LAY4	3/11/2024
20	164131354	D10	3/11/2024	40	164131374	V1	3/11/2024

The truss drawing(s) referenced above have been prepared by

MiTek USA, Inc under my direct supervision

based on the parameters provided by Wheeler - Waverly.

Truss Design Engineer's Name: Garcia, Juan

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

Missouri COA: 001193

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







RE: 240614 - Lot 123 MN

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

Site Information:

Project Customer: Avital Homes Project Name: 240614

Lot/Block: Subdivision:

Address:

City, County: State:

No.	Seal#	Truss Name	Date
41	164131375	V2	3/11/2024
42	164131376	V3	3/11/2024
43	164131377	V4	3/11/2024
44	164131378	V5	3/11/2024
45	164131379	V6	3/11/2024
46	164131380	V10	3/11/2024
47	164131381	V11	3/11/2024
48	164131382	V12	3/11/2024

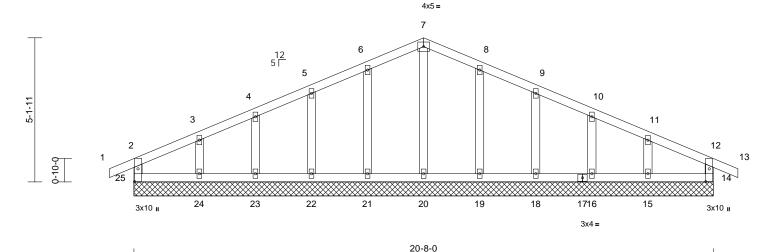
Job Truss Truss Type Qty Ply Lot 123 MN 240614 A1 Common Supported Gable Job Reference (optiona

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 164131335 LEE'S SUMMIT. MISSOURI

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.73 S Feb 22 2024 Print: 8.730 S Feb 22 2024 MiTek Industries, Inc. F Fri Mar 08/1. ID:ZcSazAzajpxqtrOj2YFrKozitPF-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWr





Scale = 1:41.1

Plate Offsets (X, Y): [14:0-5-8,0-1-8], [25:0-5-8,0-1-8]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.07	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.03	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.05	Horz(CT)	0.00	14	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R							Weight: 80 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 (size) 14=20-8-0, 15=20-8-0, 16=20-8-0, 18=20-8-0, 19=20-8-0, 20=20-8-0, 21=20-8-0, 22=20-8-0, 23=20-8-0,

24=20-8-0, 25=20-8-0 Max Horiz 25=62 (LC 12)

Max Uplift 14=-35 (LC 5), 15=-70 (LC 9), 16=-42 (LC 9), 18=-50 (LC 9),

19=-50 (LC 9), 21=-50 (LC 8), 22=-50 (LC 8), 23=-40 (LC 8), 24=-75 (LC 8), 25=-36 (LC 4)

Max Grav 14=174 (LC 22), 15=187 (LC 1), 16=178 (LC 22), 18=179 (LC 1), 19=191 (LC 22), 20=164 (LC 1), 21=191 (LC 21), 22=179 (LC 1),

23=178 (LC 21), 24=187 (LC 1), 25=174 (LC 21)

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

Tension

2-25=-154/49, 1-2=0/27, 2-3=-64/53, 3-4=-37/72, 4-5=-30/93, 5-6=-30/115, 6-7=-34/134, 7-8=-34/128, 8-9=-30/102 9-10=-30/80, 10-11=-31/59, 11-12=-53/43,

12-13=0/27, 12-14=-154/49

BOT CHORD 24-25=-10/50, 23-24=-10/50, 22-23=-10/50, 21-22=-10/50, 20-21=-10/50, 19-20=-10/50,

18-19=-10/50, 16-18=-10/50, 15-16=-10/50, 14-15=-10/50

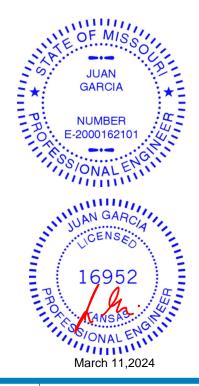
WEBS

7-20=-124/0, 6-21=-151/74, 5-22=-138/73, 4-23=-140/66, 3-24=-143/91, 8-19=-151/74 9-18=-138/73, 10-16=-140/67, 11-15=-143/88

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
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable. or consult qualified building designer as per ANSI/TPI 1.
- 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.
- All bearings are assumed to be SPF No.2.
- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 36 lb uplift at joint 25, 35 lb uplift at joint 14, 50 lb uplift at joint 21, 50 lb uplift at joint 22, 40 lb uplift at joint 23, 75 lb uplift at joint $24,\,50$ lb uplift at joint 19, 50 lb uplift at joint 18, 42 lb uplift at joint 16 and 70 lb uplift at joint 15.
- 12) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



TOP CHORD

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



Truss Type Job Truss Qty Ply Lot 123 MN 240614 A2A Common Job Reference (optiona S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 164131336 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.73 S Feb 22 2024 Print: 8.730 S Feb 22 2024 MiTek Industries, Inc. ri Mar 08 1 ID:OmqrED2LJfh_bmstOpMFZ3zitP9-RfC?PsB70Hq3NSgPqnL8w3uITXbGh

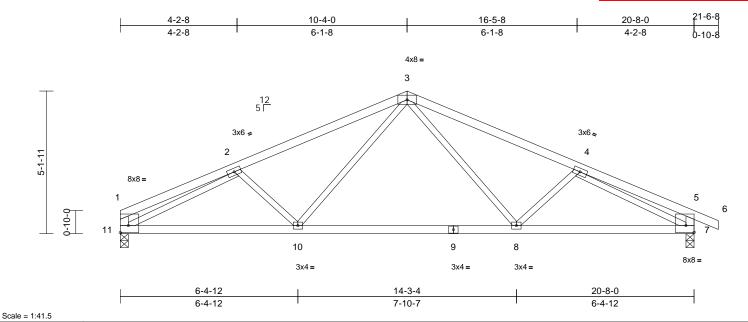


Plate Offsets (X, Y):	[1:Edge,0-3-0],	[7:Edge,0-3-0]
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Loading	(psf)	Spacing	2-0-0	csı		DEFL	in	(loc)	l/defl	I /d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.56		-0.09	8-10			MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.48	- " /	-0.20	8-10	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.72	Horz(CT)	0.04	7	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.05	8-10	>999	240	Weight: 73 lb	FT = 10%

LUMBER

TOP CHORD 2x4 SPF No.2

BOT CHORD 2x4 SPF No.2 2x3 SPF No.2 *Except* 11-1,7-5:2x4 SPF WEBS

BRACING

Structural wood sheathing directly applied or TOP CHORD

3-9-14 oc purlins, except end verticals. **BOT CHORD**

Rigid ceiling directly applied or 10-0-0 oc

bracing

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

Max Horiz 11=-70 (LC 9)

Max Uplift 7=-140 (LC 9), 11=-117 (LC 8) Max Grav 7=990 (LC 1), 11=915 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-251/33, 2-3=-1406/191, 3-4=-1400/189,

4-5=-271/40, 5-6=0/27, 1-11=-188/44,

5-7=-279/73

BOT CHORD 10-11=-233/1375, 8-10=-62/976,

7-8=-168/1361 WFBS

3-8=-51/417, 4-8=-256/190, 3-10=-52/426,

2-10=-266/192. 2-11=-1358/207.

4-7=-1326/197

NOTES

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

- All bearings are assumed to be SPF No.2
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 117 lb uplift at joint 11 and 140 lb uplift at joint 7.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



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

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



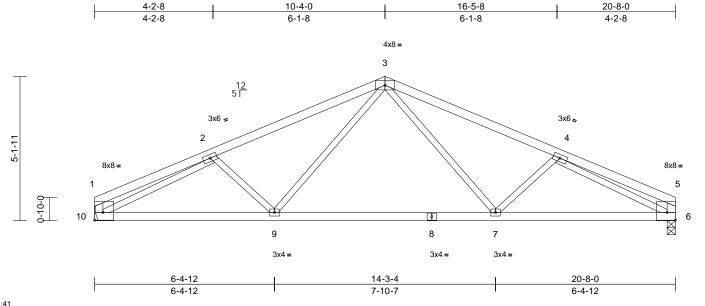
Ply Truss Type Job Truss Qty Lot 123 MN 240614 A3A 3 Common Job Reference (optiona

S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 164131337 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.73 S Feb 22 2024 Print: 8.730 S Feb 22 2024 MiTek Industries, Inc. Fri Mar 0 ID:K8xcev3brGxir40GWEPjfUzitP7-RfC?PsB70Hq3NSgPqnL8w3uITXbGKW



Scale = 1:41 Plate Offsets (X, Y): [1:Edge,0-3-4], [5:Edge,0-3-4]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.Ó	Plate Grip DOL	1.15	TC	0.54	Vert(LL)	-0.09	`7-9	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.49	Vert(CT)	-0.20	7-9	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.73	Horz(CT)	0.04	6	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.05	7-9	>999	240	Weight: 72 lb	FT = 10%

LUMBER

WEBS

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

2x3 SPF No.2 *Except* 10-1,6-5:2x4 SPF

BRACING TOP CHORD

Structural wood sheathing directly applied or 3-10-11 oc purlins, except end verticals.

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

bracing

REACTIONS (size) 6=0-3-8, 10= Mechanical

Max Horiz 10=55 (LC 12)

Max Uplift 6=-117 (LC 9), 10=-117 (LC 8) Max Grav 6=917 (LC 1), 10=917 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-251/33, 2-3=-1410/191, 3-4=-1410/191, 4-5=-251/33, 1-10=-188/44, 5-6=-188/44

9-10=-240/1378, 7-9=-69/980, 6-7=-186/1378 BOT CHORD WEBS 3-7=-53/426, 4-7=-266/193, 3-9=-53/426,

2-9=-266/192, 2-10=-1361/207,

4-6=-1361/207

NOTES

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

- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 117 lb uplift at joint 10 and 117 lb uplift at joint 6.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard





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

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

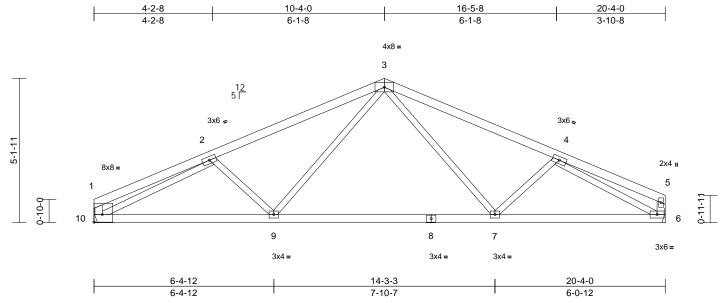


Ply Truss Type Job Truss Qty Lot 123 MN 240614 A4A Common Job Reference (optiona

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 164131338 LEE'S SUMMIT. MISSOURI

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.73 S Feb 22 2024 Print: 8.730 S Feb 22 2024 MiTek Industries, Inc. ri Mar 08 1. ID:ljdkHw5U7BJHiXkrBMyQG6zitP4-RfC?PsB70Hq3NSgPqnL8w3uITXbGK1



Scale = 1:41

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.Ó	Plate Grip DOL	1.15	TC	0.53	Vert(LL)	-0.09	`7-9	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.48	Vert(CT)	-0.20	7-9	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.71	Horz(CT)	0.04	6	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.04	7-9	>999	240	Weight: 71 lb	FT = 10%

LUMBER

WEBS

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

2x3 SPF No.2 *Except* 10-1,6-5:2x4 SPF

BRACING TOP CHORD

Structural wood sheathing directly applied or 3-11-8 oc purlins, except end verticals.

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

bracing

REACTIONS (size) 6= Mechanical, 10= Mechanical

Max Horiz 10=55 (LC 8)

Max Uplift 6=-113 (LC 9), 10=-116 (LC 8) Max Grav 6=902 (LC 1), 10=902 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-248/33, 2-3=-1379/189, 3-4=-1338/181, 4-5=-163/22, 1-10=-187/44, 5-6=-138/31

9-10=-239/1352, 7-9=-68/948, 6-7=-177/1269 BOT CHORD

WEBS 3-7=-45/378, 4-7=-215/182, 3-9=-52/429,

2-9=-268/193. 2-10=-1334/205.

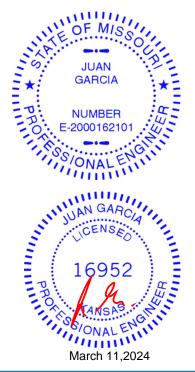
4-6=-1352/207

NOTES

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

- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 116 lb uplift at joint 10 and 113 lb uplift at joint 6.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard





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

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



Ply Truss Type Job Truss Qty Lot 123 MN 240614 A5A Monopitch Job Reference (optiona

Wheeler Lumber, Waverly, KS - 66871,

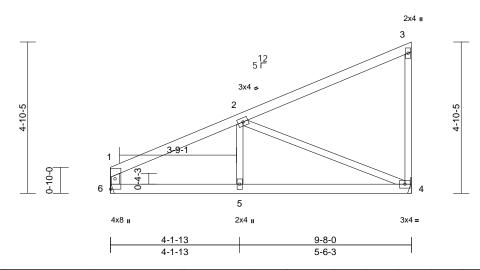
Run: 8.73 S Feb 22 2024 Print: 8.730 S Feb 22 2024 MiTek Industries, Inc. I ri Mar 0 11 ID:dUsF6I9_BQqiA92cQC1MRyzitP0-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi734zJC?f

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW

DEVELOPMENT SERVICES 164131339

LEE'S SUMMIT. MISSOURI





Scale = 1:37

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	0.39	Vert(LL)	-0.04	4-5	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.36	Vert(CT)	-0.09	4-5	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.43	Horz(CT)	0.01	4	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.03	4-5	>999	240	Weight: 33 lb	FT = 10%

LOAD CASE(S) Standard

LUMBER TOP CHORD

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

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

BRACING

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

bracing.

REACTIONS (size) 4= Mechanical, 6= Mechanical

Max Horiz 6=194 (LC 7)

Max Uplift 4=-101 (LC 8), 6=-58 (LC 8) Max Grav 4=424 (LC 1), 6=424 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

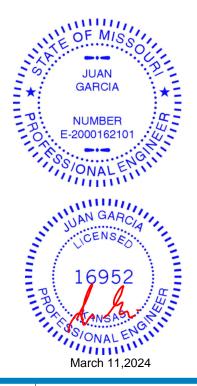
TOP CHORD 1-6=-345/71, 1-2=-579/82, 2-3=-138/37,

3-4=-167/67

BOT CHORD 5-6=-114/484, 4-5=-114/484 WFBS 2-4=-509/164, 2-5=0/187

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 * This truss has been designed for a live load of 20.0psf
- on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SPF No.2.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 58 lb uplift at joint 6 and 101 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.





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

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



Job Truss Truss Type Qty Ply Lot 123 MN 240614 В1 Monopitch Supported Gable

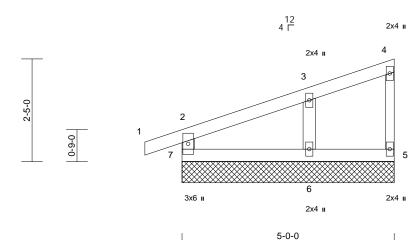
Wheeler Lumber, Waverly, KS - 66871,

LEE'S SUMMIT. MISSOURI Job Reference (optiona Run: 8.73 S Feb 22 2024 Print: 8.730 S Feb 22 2024 MiTek Industries, Inc. ri Mar 08 1. ID:5yy3uSNHyx59LwQ3T_La9lzitOk-RfC?PsB70Hq3NSgPqnL8w3uITXbGK

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW

DEVELOPMENT SERVICES 164131340

-0-10-8 5-0-0 0-10-8 5-0-0



Scale = 1:27.1

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	0.07	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	0.02	Horz(CT)	0.00	5	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R							Weight: 16 lb	FT = 10%

LUMBER

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

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

2x4 SPF No.2 OTHERS

BRACING

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

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

bracing.

(size) REACTIONS 5=5-0-0, 6=5-0-0, 7=5-0-0

Max Horiz 7=97 (LC 7)

Max Uplift 5=-6 (LC 5), 6=-70 (LC 8), 7=-53 (LC 4)

5=56 (LC 1), 6=250 (LC 1), 7=193 Max Grav

(LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 2-7=-170/73, 1-2=0/23, 2-3=-65/30,

3-4=-48/18, 4-5=-44/15

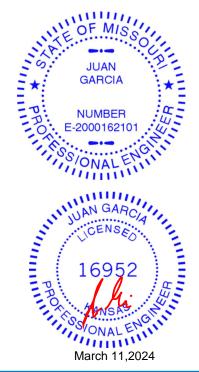
BOT CHORD 6-7=-30/21, 5-6=-30/21 3-6=-189/95 WEBS

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.
- 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.

- 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SPF No.2.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 53 lb uplift at joint 7, 6 lb uplift at joint 5 and 70 lb uplift at joint 6.
- 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



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

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



Truss Type Ply Job Truss Qty Lot 123 MN 240614 B2 8 Monopitch Job Reference (optiona

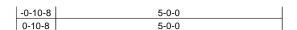
Wheeler Lumber, Waverly, KS - 66871,

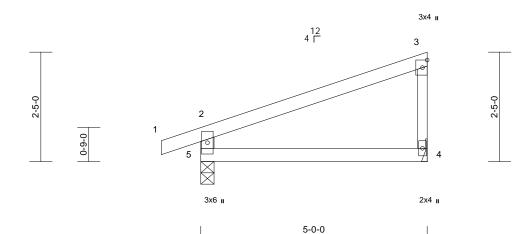
Run: 8.73 S Feb 22 2024 Print: 8.730 S Feb 22 2024 MiTek Industries, Inc. ri Mar 08 1. ID:w6JK9VR2Xnrl3rtDqFS_P0zitOe-RfC?PsB70Hq3NSgPqnL8w3ulTXbGK\ rCDoi7J4

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW

DEVELOPMENT SERVICES 164131341

LEE'S SUMMIT. MISSOURI





Scale = 1:25.4

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)	-0.02	4-5	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.18	Vert(CT)	-0.04	4-5	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R		Wind(LL)	0.01	4-5	>999	240	Weight: 15 lb	FT = 10%

LUMBER

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

2x3 SPF No.2 *Except* 5-2:2x4 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 10-0-0 oc

bracing.

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

Max Horiz 5=97 (LC 5)

Max Uplift 4=-46 (LC 8), 5=-79 (LC 4) Max Grav 4=206 (LC 1), 5=293 (LC 1)

FORCES Tension

(lb) - Maximum Compression/Maximum

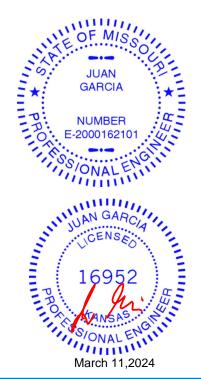
TOP CHORD 1-2=0/23, 2-3=-105/12, 3-4=-147/67,

2-5=-257/115 BOT CHORD 4-5=-25/40

NOTES

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 4) All bearings are assumed to be SPF No.2
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 46 lb uplift at joint 4 and 79 lb uplift at joint 5.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard





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

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



Job Truss Truss Type Qty Ply Lot 123 MN 240614 C1 Common Supported Gable Job Reference (optiona

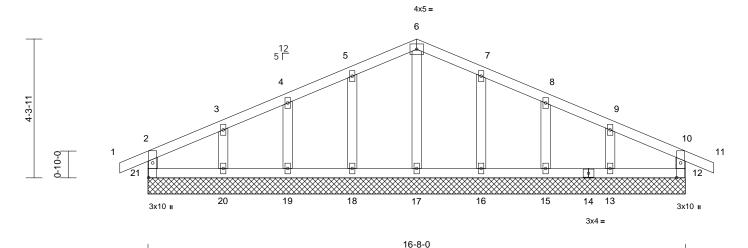
S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 164131342 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.73 S Feb 22 2024 Print: 8.730 S Feb 22 2024 MiTek Industries, Inc. Fri Mar 0 ID:BqCIItu83zs4Jtq9mktaY2zitg7-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWr0





Scale = 1:35.7

Plate Offsets (X, Y): [12:0-5-8,0-1-8], [21:0-5-8,0-1-8]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.07	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.03	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.04	Horz(CT)	0.00	12	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R							Weight: 61 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 (size)

12=16-8-0, 13=16-8-0, 15=16-8-0, 16=16-8-0, 17=16-8-0, 18=16-8-0, 19=16-8-0, 20=16-8-0, 21=16-8-0

Max Horiz 21=-48 (LC 9)

Max Uplift 12=-40 (LC 5), 13=-65 (LC 9),

15=-43 (LC 9), 16=-52 (LC 9), 18=-53 (LC 8), 19=-42 (LC 8),

20=-68 (LC 8), 21=-40 (LC 4)

Max Grav 12=174 (LC 22), 13=188 (LC 1), 15=176 (LC 1), 16=192 (LC 22),

17=164 (LC 1), 18=192 (LC 21),

19=176 (LC 1), 20=188 (LC 1),

21=174 (LC 21)

FORCES (lb) - Maximum Compression/Maximum

Tension TOP CHORD

2-21=-154/53, 1-2=0/27, 2-3=-52/49, 3-4=-30/68, 4-5=-29/90, 5-6=-34/110,

6-7=-34/104, 7-8=-29/81, 8-9=-30/60, 9-10=-45/42, 10-11=0/27, 10-12=-154/53

BOT CHORD 20-21=-9/38, 19-20=-9/38, 18-19=-9/38, 17-18=-9/38, 16-17=-9/38, 15-16=-9/38,

13-15=-9/38, 12-13=-9/38

WEBS 6-17=-125/0, 5-18=-151/76, 4-19=-137/67, 3-20=-143/87, 7-16=-151/76, 8-15=-137/68,

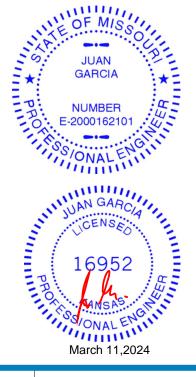
9-13=-143/85

NOTES

Unbalanced roof live loads have been considered for this design.

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1. All plates are 2x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 10) All bearings are assumed to be SPF No.2.
- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 40 lb uplift at joint 21, 40 lb uplift at joint 12, 53 lb uplift at joint 18, 42 lb uplift at joint 19, 68 lb uplift at joint 20, 52 lb uplift at joint 16, 43 lb uplift at joint 15 and 65 lb uplift at joint 13.
- 12) This truss is designed in accordance with the 2018 International Residential Code sections R502 11 1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



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



Job Truss Truss Type Qty Ply Lot 123 MN 240614 C2 Common Structural Gable Job Reference (optiona RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 164131343 LEE'S SUMMIT. MISSOURI

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.73 S Feb 22 2024 Print: 8.730 S Feb 22 2024 MiTek Industries, Inc. ri Mar 081 ID:Jh7LtO4c_5DA3xK?WJeYXjziteb-RfC?PsB70Hq3NSgPqnL8w3uITXbGK

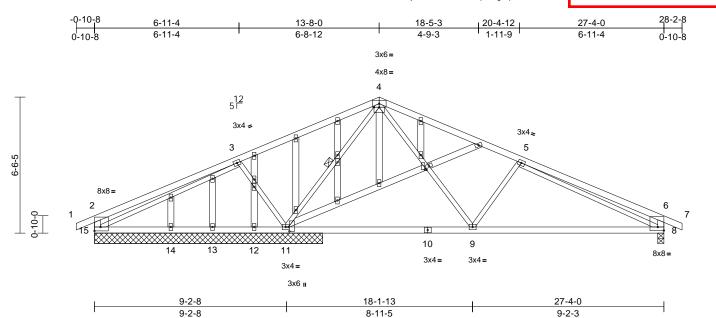


Plate Offsets (X, Y): [2:Edge,0-2-4], [4:0-3-0,Edge], [8:Edge,0-2-0], [11:0-2-8,0-0-8], [17:0-0-3,0-1-1]

-	-	l						-				
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	0.59	Vert(LL)	-0.14	8-9	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.67	Vert(CT)	-0.30	8-9	>729	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.80	Horz(CT)	0.02	8	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.03	8-9	>999	240	Weight: 133 lb	FT = 10%

LUMBER

Scale = 1:55.3

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

15-2,8-6,16-17,17-11:2x4 SPF No.2

OTHERS 2x4 SPF No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or

5-3-4 oc purlins, except end verticals.

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

bracing. WEBS

1 Row at midpt 4-11

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

13=10-11-8, 14=10-11-8, 15=10-11-8

Max Horiz 15=-87 (LC 9)

Max Uplift 8=-154 (LC 9), 11=-143 (LC 8),

12=-129 (LC 3), 15=-109 (LC 8) Max Grav 8=831 (LC 1), 11=1374 (LC 1),

12=-34 (LC 9), 13=98 (LC 3),

14=129 (LC 3), 15=371 (LC 21)

FORCES (lb) - Maximum Compression/Maximum

Tension

1-2=0/27, 2-3=-356/193, 3-4=0/315,

4-5=-889/218, 5-6=-592/173, 6-7=0/27, 2-15=-390/179 6-8=-492/173

14-15=-102/160, 13-14=-102/160, BOT CHORD

12-13=-102/160, 11-12=-102/160,

9-11=0/334. 8-9=-143/974

WEBS 4-9=-106/689, 5-9=-448/248, 4-11=-940/122,

3-11=-507/263, 3-15=-100/195, 5-8=-568/64

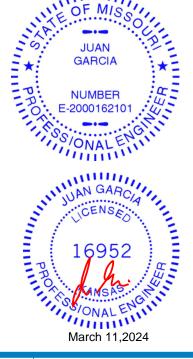
NOTES

TOP CHORD

Unbalanced roof live loads have been considered for this design.

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 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.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SPF No.2 .
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 143 lb uplift at joint 11, 109 lb uplift at joint 15, 154 lb uplift at joint 8 and 129 lb uplift at joint 12.
- 11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



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



Job Truss Truss Type Qty Ply Lot 123 MN 3 240614 C3 Common Girder Job Reference (optiona

S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 164131344 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.73 S Feb 22 2024 Print: 8.730 S Feb 22 2024 MiTek Industries, Inc. ri Mar 08/1 ID:UPX4fXz0rD6rX0DeA9ulvvzitYH-RfC?PsB70Hq3NSgPqnL8w3ulTXbGK\ rCDoi7J

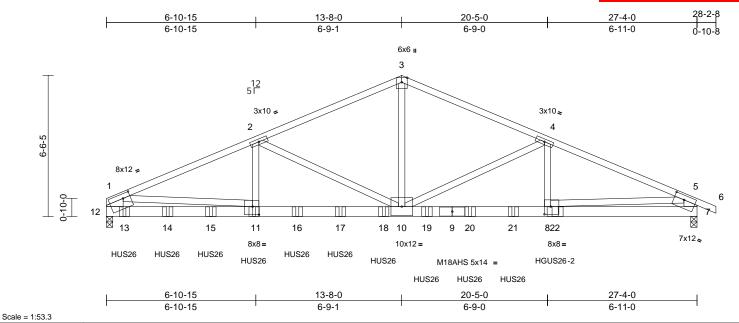


Plate Offsets (X, Y): [1:0-4-0,0-2-8], [7:0-5-8,0-2-8], [8:0-3-8,0-4-4], [11:0-3-8,0-4-8]

Landing	(psf)	Spacing	2-0-0	csı		DEFL		(loc)	I/defl	1 /4	PLATES	GRIP
Loading	(psi)	Spacing	2-0-0	CSI		DELL	in	(100)	i/deli	L/u	PLATES	GRIF
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.87	Vert(LL)	-0.26	8-10	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.83	Vert(CT)	-0.46	8-10	>691	240	M18AHS	186/179
BCLL	0.0*	Rep Stress Incr	NO	WB	0.94	Horz(CT)	0.07	7	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.15	8-10	>999	240	Weight: 435 lb	FT = 10%

LUMBER

TOP CHORD 2x4 SPF 2100F 1.8E BOT CHORD 2x6 SP 2400F 2.0E

2x4 SPF No.2 *Except* 12-1:2x10 SP 2400F WEBS 2.0E, 7-5:2x8 SP 2400F 2.0E, 8-5:2x4 SPF

2100F 1.8E

BRACING BOT CHORD

TOP CHORD Structural wood sheathing directly applied or

5-9-13 oc purlins, except end verticals. Rigid ceiling directly applied or 10-0-0 oc

bracing.

REACTIONS (size) 7=0-3-8, (req. 0-4-9), 12=0-3-8,

(req. 0-5-14)

Max Horiz 12=-96 (LC 28) Max Uplift 7=-804 (LC 9), 12=-118 (LC 8) Max Grav 7=8680 (LC 1), 12=11203 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-18078/889, 2-3=-13428/868,

3-4=-13423/867, 4-5=-17897/1564, 5-6=0/32,

1-12=-8256/480, 5-7=-8399/806 BOT CHORD 11-12=-186/5147, 10-11=-832/16652,

8-10=-1363/16397, 7-8=-378/3241

WFBS 3-10=-522/9748, 4-10=-4587/869,

4-8=-468/3434, 2-10=-4986/180, 2-11=0/3846, 1-11=-649/11589,

5-8=-991/13205

NOTES

1) 3-ply truss to be connected together with 10d (0.131"x3") nails as follows:

Top chords connected as follows: 2x4 - 1 row at 0-4-0 oc, 2x10 - 2 rows staggered at 0-9-0 oc, 2x8 - 2 rows staggered at 0-9-0 oc.

Bottom chords connected as follows: 2x6 - 3 rows staggered at 0-4-0 oc.

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

- All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 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.
- WARNING: Required bearing size at joint(s) 12, 7 greater than input bearing size.
- All bearings are assumed to be SPF No.2
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 118 lb uplift at joint 12 and 804 lb uplift at joint 7.
- 11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 12) Use Simpson Strong-Tie HUS26 (14-10d Girder, 6-10d Truss) or equivalent spaced at 2-0-0 oc max. starting at 0-10-0 from the left end to 18-10-0 to connect truss(es) to back face of bottom chord.
- 13) Use Simpson Strong-Tie HGUS26-2 (20-10d Girder, 8-10d Truss) or equivalent at 20-9-3 from the left end to connect truss(es) to back face of bottom chord.
- 14) Fill all nail holes where hanger is in contact with lumber.

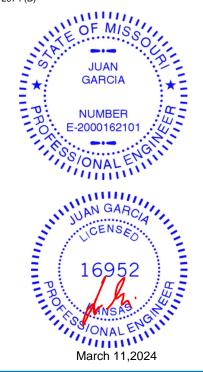
LOAD CASE(S) Standard

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

Uniform Loads (lb/ft)

Vert: 1-3=-70, 3-5=-70, 5-6=-70, 7-12=-20 Concentrated Loads (lb)

Vert: 11=-1443 (B), 13=-1445 (B), 14=-1436 (B), 15=-1443 (B), 16=-1443 (B), 17=-1443 (B), 18=-1443 (B), 19=-1441 (B), 20=-1445 (B), 21=-1445 (B), 22=-2974 (B)





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



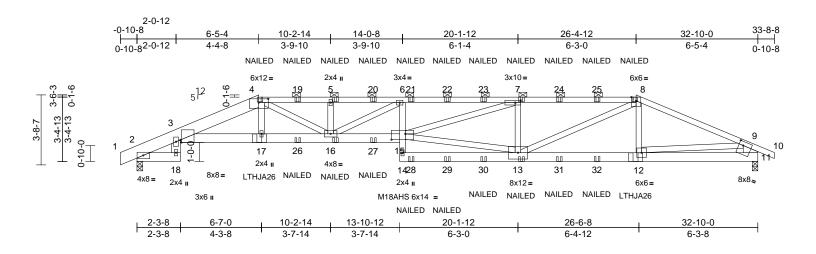
Job	Truss	Truss Type	Qty	Ply	Lot 123 MN
240614	D1	Hip Girder	1	2	Job Reference (optional

S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 164131345 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.73 S Feb 22 2024 Print: 8.730 S Feb 22 2024 MiTek Industries, Inc. Fri Mar 0 1. ID:rnApu3Pg6Ah8v11x_yRabbzitRG-RfC?PsB70Hq3NSgPqnL8w3uITXbGK /rCDoi7J42JC?f



Scale = 1:60.9

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

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	0.70	Vert(LL)	-0.47	15	>830	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.61	Vert(CT)	-0.84	15	>460	240	M18AHS	142/136
BCLL	0.0*	Rep Stress Incr	NO	WB	0.93	Horz(CT)	0.30	11	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.39	15	>990	240	Weight: 348 lb	FT = 10%

LUMBER TOP CHORD

2x8 SP 2400F 2.0E *Except* 4-8:2x4 SPF

2100F 1.8E, 8-10:2x4 SPF No.2

2x6 SPF No.2 *Except* 3-15:2x6 SP 2400F **BOT CHORD** 2.0E

WEBS 2x4 SPF No.2 *Except* 18-3:2x6 SPF No.2,

11-9:2x10 SP 2400F 2.0E

BRACING

TOP CHORD Structural wood sheathing directly applied or 4-7-1 oc purlins, except end verticals, and

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

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

bracing.

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

Max Horiz 2=49 (LC 12)

Max Uplift 2=-550 (LC 4), 11=-599 (LC 5)

Max Grav 2=2980 (LC 1), 11=3011 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/6, 2-3=-1591/303, 3-4=-8878/1684, 4-5=-10671/2082, 5-6=-10668/2082,

6-7=-12061/2459, 7-8=-8105/1687,

8-9=-5700/1153, 9-10=0/34, 9-11=-2882/611

2-18=0/0, 3-17=-1545/8477, BOT CHORD

16-17=-1550/8545, 15-16=-2431/12389,

13-14=-117/648, 12-13=-1009/5182,

11-12=-254/1065

WFBS 3-18=-31/249, 14-15=0/290, 6-15=0/388,

4-17=-60/877, 13-15=-1504/7548, 7-15=-814/4162, 7-13=-2298/714, 8-13=-666/3323, 8-12=0/327, 9-12=-816/4181, 6-16=-1993/495,

5-16=-319/176, 4-16=-506/2486

NOTES

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

Top chords connected as follows: 2x8 - 2 rows staggered at 0-9-0 oc, 2x4 - 1 row at 0-6-0 oc, 2x10 - 2 rows staggered at 0-9-0 oc.

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

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

- All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD $\mathsf{CASE}(\mathsf{S}) \text{ section. Ply to ply connections have been}$ provided to distribute only loads noted as (F) or (B). unless otherwise indicated.
- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- All plates are MT20 plates unless otherwise indicated. This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SPF No.2.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 550 lb uplift at joint 2 and 599 lb uplift at joint 11.
- 11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

- 13) Use Simpson Strong-Tie LTHJA26 (LTHJA26 on 2 ply
- Left Hand Hip) or equivalent at 6-5-10 from the left end to connect truss(es) to from face of bottom chord.

 14) Use Simpson Strong Tie LTHUA26 (LTHUA26 on 2 ply, Right Hand Hip) or equivalent at 26-4-6 from the left end to connect truss(es) to front face of bottom chord.
- 15) Fill all nail holes where hanger is in contact with lumber.
 16) "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe dails per NDS guidines.

LOAD CASE(S) -Standard

Dead + Roof Live (balanced): Lumber Increase=11-15. Plate Increase=1:15 :4 Uniform Loads (16/ft) E-2000162101

19=-118 (F), 20=-118 (F), 21=-126 (F), 22=-126 (F), 23=-126 (F), 24=-126 (F), 25=-126 (F), 26=-72 (F), 27=-72 (F), 28=-58 (F), 29=-58 (F), 30=-58 (F), 31=-58 (F), 32=-58 (F)





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



Job	Truss	Truss Type	Qty	Ply	Lot 123 MN
240614	D2	Hip	1	1	Job Reference (option

Wheeler Lumber, Waverly, KS - 66871,

LEE'S SUMMIT. MISSOURI Run: 8.73 S Feb 22 2024 Print: 8.730 S Feb 22 2024 MiTek Industries, Inc. Fri Mar 0 1. ID:untV3V8QbDauQ24xu7aCNfzitSu-RfC?PsB70Hq3NSgPqnL8w3uITXbGK*VrCDoi7342JC?f/

5-4-4

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 164131346

2-0-12 -0-10-8 29-2-1 32-10-0 8-5-4 14-0-0 19-1-12 24-4-12 0-10-82-0-12 6-4-8 5-6-12 5-1-12 5-3-0 4-9-5 3-7-15 0-10-8 2x4 II 6x12= 3x6= 6x6= 5_× 4 6 ₅12 4x5. 8 4-2-9 9 ģ 16 14 2x4 II 17 13 12 6x12= 6x8= 3x6 ı 4x8= 6x12= 2x4 II 3x4 =3x6 II 13-10-12 2-3-8 8-6-8 24-6-0 32-10-0

Plate Offsets (X, Y): [3:0-5-4,Edge], [3:0-1-14,0-2-11], [4:0-6-0,0-2-10], [6:0-2-8,0-1-8], [9:Edge,0-2-8]

6-3-0

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	0.73	Vert(LL)	-0.38	5	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.69	Vert(CT)	-0.68	15-16	>576	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.97	Horz(CT)	0.37	11	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.28	5	>999	240	Weight: 138 lb	FT = 10%

5-3-0

LUMBER

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

2-3-8

2.0E

2x4 SPF No.2 *Except* 3-15:2x4 SPF 2100F **BOT CHORD**

1.8E, 5-14:2x3 SPF No.2

2x3 SPF No.2 *Except* 17-3:2x6 SPF No.2, WEBS

11-9:2x4 SPF No.2

BRACING

TOP CHORD

Structural wood sheathing directly applied or TOP CHORD 3-0-13 oc purlins, except end verticals, and

2-0-0 oc purlins (2-4-2 max.): 4-7.

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

bracing.

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

Max Horiz 2=63 (LC 8)

Max Uplift 2=-208 (LC 4), 11=-208 (LC 5)

Max Grav 2=1536 (LC 1), 11=1536 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

1-2=0/0, 2-3=-785/112, 3-4=-3408/473,

4-5=-3996/647, 5-6=-3968/644,

6-7=-2991/507, 7-8=-2553/374, 8-9=-425/21,

9-10=0/27, 9-11=-355/61

2-17=0/0, 3-16=-370/3212, 15-16=-366/3213, BOT CHORD

14-15=0/104, 5-15=-353/154, 13-14=-25/203, 12-13=-260/2305, 11-12=-294/2190

3-17=0/56, 4-16=0/240, 4-15=-204/1018,

13-15=-382/2838, 6-15=-162/1134,

6-13=-988/244, 7-13=-186/949, 7-12=0/229, 8-12=0/319, 8-11=-2150/376

NOTES

WEBS

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

- Provide adequate drainage to prevent water ponding.
- 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.
- All bearings are assumed to be SPF No.2.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 208 lb uplift at joint 2 and 208 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



8-4-0



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

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

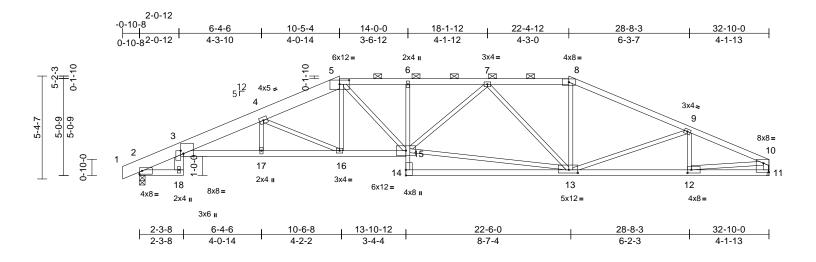


Job	Truss	Truss Type	Qty	Ply	Lot 123 MN
240614	D3	Hip	1	1	Job Reference (option

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 164131347 LEE'S SUMMIT. MISSOURI

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.73 S Feb 22 2024 Print: 8.730 S Feb 22 2024 MiTek Industries, Inc. Fri Mar 0 1. ID:AuO0edFKWH58t2n9IdqmclzitaW-RfC?PsB70Hq3NSgPqnL8w3uITXbGK_VrCDoi734zJC?f



Scale = 1:60.1

Plate Offsets (X, Y): [3:0-6-4,Edge], [3:0-1-14,0-1-11], [5:0-6-0,0-2-10], [10:Edge,0-5-11], [12:0-2-8,0-2-0], [13:0-5-8,0-2-0]

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	0.84	Vert(LL)	-0.29	15-16	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.72	Vert(CT)	-0.55	13-14	>709	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.94	Horz(CT)	0.31	11	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.14	15-16	>999	240	Weight: 149 lb	FT = 10%

LUMBER

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

2.0E

BOT CHORD 2x4 SPF No.2 *Except* 3-15:2x4 SPF 2100F

1.8E, 6-14:2x3 SPF No.2

2x3 SPF No.2 *Except* 18-3:2x6 SPF No.2, WEBS

11-10:2x4 SPF No.2

BRACING

Structural wood sheathing directly applied, TOP CHORD

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

. (3-1-10 max.): 5-8.

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

bracing.

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

Max Horiz 2=51 (LC 10) Max Uplift 2=-16 (LC 4)

Max Grav 2=1537 (LC 1), 11=1463 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

1-2=0/0, 2-3=-786/15, 3-4=-3872/34, 4-5=-3072/67, 5-6=-3089/92, 6-7=-3071/93, TOP CHORD

7-8=-2178/62, 8-9=-2446/53, 9-10=-2590/24,

10-11=-1402/16

2-18=0/0, 3-17=-2/3746, 16-17=-1/3740, BOT CHORD

15-16=0/2784, 14-15=0/157, 6-15=-260/65,

13-14=0/260, 12-13=-2/2350, 11-12=0/251 WEBS 3-18=0/56, 4-16=-1079/71, 5-16=0/605,

5-15=-37/562, 13-15=-60/2499, 7-15=0/502,

7-13=-917/77, 8-13=0/556, 9-13=-208/110,

9-12=-248/57, 10-12=-5/2122, 4-17=-88/62

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

- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SPF No.2
- Refer to girder(s) for truss to truss connections.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 16 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.
- 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





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

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



Job	Truss	Truss Type	Qty	Ply	Lot 123 MN
240614	D4	Hip	1	1	Job Reference (opti

Wheeler Lumber, Waverly, KS - 66871,

LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 164131348

Run: 8.73 S Feb 22 2024 Print: 8.730 S Feb 22 2024 MiTek Industries, Inc. I ri Mar 0 11 ID:Pps8qGk_PNo5rbZ4rp3vvuzitbA-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J

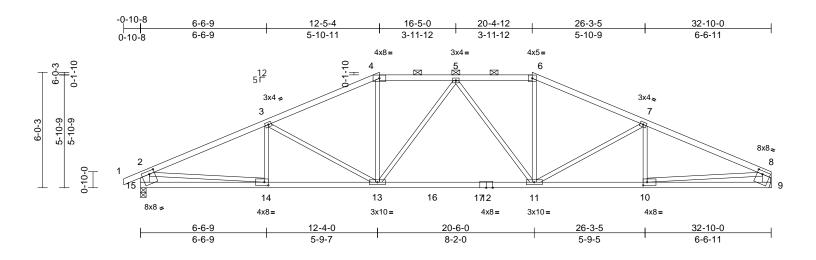


Plate Offsets (X, Y): [8:0-3-4,0-2-0], [10:0-2-8,0-2-0], [14:0-2-8,0-2-0], [15:0-3-4,0-2-0]

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	0.61	Vert(LL)	-0.27	11-13	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.90	Vert(CT)	-0.48	11-13	>808	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.69	Horz(CT)	0.09	9	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.07	11	>999	240	Weight: 125 lb	FT = 10%

LUMBER

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

2x3 SPF No.2 *Except* 15-2,9-8:2x6 SPF WEBS

BRACING

TOP CHORD Structural wood sheathing directly applied or 2-11-1 oc purlins, except end verticals, and

2-0-0 oc purlins (3-11-7 max.): 4-6.

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

bracing

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

Max Horiz 15=49 (LC 8)

Max Uplift 9=-1 (LC 9), 15=-12 (LC 8)

Max Grav 9=1515 (LC 2), 15=1580 (LC 2)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/30, 2-3=-2707/7, 3-4=-2339/41,

4-5=-2095/49, 5-6=-2095/49, 6-7=-2342/41,

7-8=-2714/8, 2-15=-1461/49, 8-9=-1392/37 14-15=-86/565, 13-14=0/2428, 11-13=0/2197,

BOT CHORD 10-11=0/2443. 9-10=-16/448

WEBS 3-14=-79/103, 3-13=-419/96, 4-13=0/611,

6-11=0/619, 7-11=-438/98, 7-10=-95/97,

2-14=0/1873, 8-10=0/2005, 5-13=-360/49,

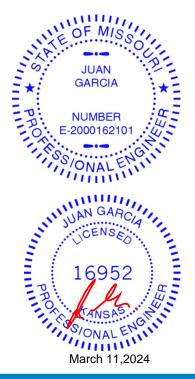
5-11=-358/49

NOTES

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

- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- All bearings are assumed to be SPF No.2
- 7) Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to 8) bearing plate capable of withstanding 12 lb uplift at joint 15 and 1 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.
- 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





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

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

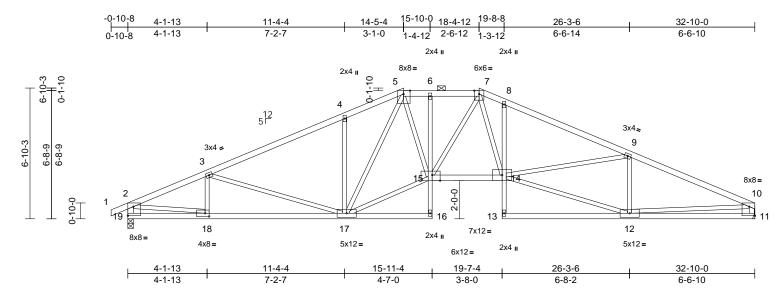


Job	Truss	Truss Type	Qty	Ply	Lot 123 MN
240614	D5	Hip	1	1	Job Reference (optional

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 164131349 LEE'S SUMMIT. MISSOURI

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.73 S Feb 22 2024 Print: 8.730 S Feb 22 2024 MiTek Industries, Inc. Fri Mar 0 1. ID:A4pkxBdKXcgNGCNMpQPo1?zitbJ-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDo



Scale = 1:60.3

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	0.71	Vert(LL)	-0.24	14-15	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.72	Vert(CT)	-0.44	14-15	>887	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.85	Horz(CT)	0.19	11	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.11	14-15	>999	240	Weight: 143 lb	FT = 10%

LUMBER

TOP CHORD 2x4 SPF No.2

2x4 SPF No.2 *Except* 16-6,8-13:2x3 SPF BOT CHORD

No.2

WFBS 2x3 SPF No.2 *Except* 19-2,11-10:2x4 SPF

2400F 2.0E

BRACING

TOP CHORD Structural wood sheathing directly applied or

2-6-0 oc purlins, except end verticals, and

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

bracing.

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

Max Horiz 19=58 (LC 8)

Max Uplift 11=-12 (LC 9), 19=-22 (LC 8)

Max Grav 11=1463 (LC 1), 19=1537 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/27 2-3=-2604/29 3-4=-2376/26

4-5=-2339/89, 5-6=-2675/7, 6-7=-2682/6

7-8=-3125/32. 8-9=-3219/0. 9-10=-2682/24. 2-19=-1485/36, 10-11=-1392/44

BOT CHORD 18-19=-49/256, 17-18=-54/2362, 16-17=0/25

15-16=0/58, 6-15=-278/43, 14-15=0/2609,

13-14=0/117, 8-14=-251/117, 12-13=0/47,

11-12=-26/439

5-15=0/1297, 12-14=0/2460, 9-14=0/543,

9-12=-775/81, 2-18=-4/2128, 10-12=0/1970, 7-15=-46/310, 7-14=-82/984, 3-18=-219/78,

3-17=-331/87, 4-17=-420/133, 5-17=-574/0,

15-17=0/2476

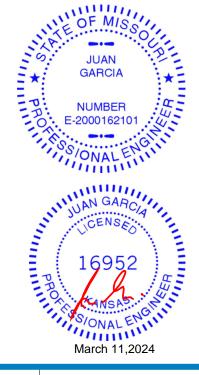
NOTES

WEBS

Unbalanced roof live loads have been considered for this design.

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SPF No.2 .
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 22 lb uplift at joint 19 and 12 lb uplift at joint 11.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard



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



Job	Truss	Truss Type	Qty	Ply	Lot 123 MN
240614	D6	Common	3	1	Job Reference (option

S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 164131350 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.73 S Feb 22 2024 Print: 8.730 S Feb 22 2024 MiTek Industries, Inc. I ri Mar 0 ID:pay_ls9tjdlv4Dvs1kCfymzitbw-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrC

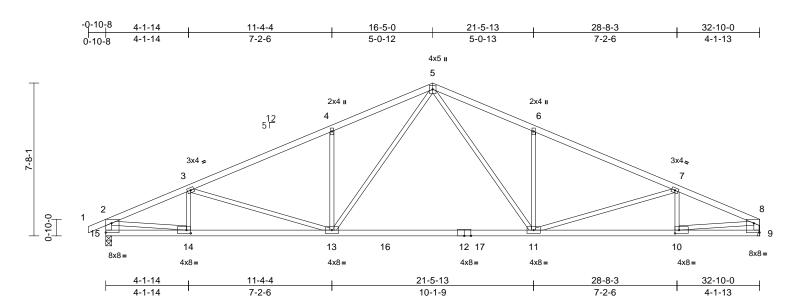


Plate Offsets (X, Y): [9:Edge,0-5-11], [10:0-2-8,0-2-0], [14:0-2-8,0-2-0], [15:Edge,0-5-11]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.70	Vert(LL)	-0.38	11-13	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.60	Vert(CT)	-0.65	11-13	>604	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.76	Horz(CT)	0.07	9	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.07	13-14	>999	240	Weight: 124 lb	FT = 10%

LUMBER

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

2x3 SPF No.2 *Except* 15-2,9-8:2x4 SPF WEBS

BRACING

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

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

bracing

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

Max Horiz 15=67 (LC 10)

Max Uplift 9=-21 (LC 9), 15=-31 (LC 8)

Max Grav 9=1540 (LC 2), 15=1600 (LC 2)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/27, 2-3=-2710/52, 3-4=-2543/39,

4-5=-2536/118, 2-15=-1506/49,

8-9=-1445/38, 5-6=-2537/119, 6-7=-2546/39,

7-8=-2719/53

BOT CHORD 14-15=-58/334, 13-14=-83/2464,

11-13=0/1703, 10-11=-27/2478, 9-10=-2/285 **WEBS** 2-14=-25/2175, 8-10=-26/2216,

3-14=-239/69, 3-13=-321/95, 4-13=-484/146,

5-13=-76/1039, 5-11=-76/1042,

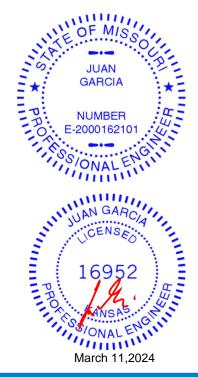
6-11=-483/146, 7-11=-334/96, 7-10=-245/70

NOTES

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

- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- All bearings are assumed to be SPF No.2
- 6) Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 31 lb uplift at joint 15 and 21 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





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

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

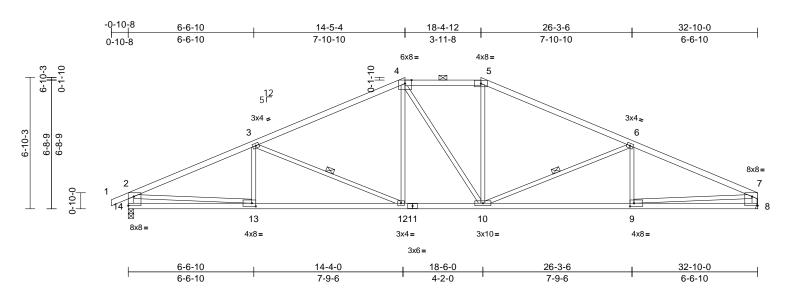


Job	Truss	Truss Type	Qty	Ply	Lot 123 MN
240614	D7	Hip	1	1	Job Reference (opti

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 164131351 LEE'S SUMMIT. MISSOURI

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.73 S Feb 22 2024 Print: 8.730 S Feb 22 2024 MiTek Industries, Inc. Fri Mar 0 ID:WzVwjfspMFkJCX3Fdhn1_jzitcl-RfC?PsB70Hq3NSgPqnL8w3uITXbGKW



Scale = 1:60.1

Plate Offsets (X, Y): [4:0-4-2,Edge], [7:Edge,0-5-11], [9:0-2-8,0-2-0], [13:0-2-8,0-2-0], [14:Edge,0-5-11]

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	0.66	Vert(LL)	-0.15	12-13	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.74	Vert(CT)	-0.34	12-13	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.70	Horz(CT)	0.08	8	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.07	12-13	>999	240	Weight: 124 lb	FT = 10%

LUMBER

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

No.2

BOT CHORD 2x4 SPF No.2

2x3 SPF No.2 *Except* 14-2,8-7:2x4 SPF **WEBS**

2400F 2.0E

BRACING TOP CHORD

Structural wood sheathing directly applied or

3-9-12 oc purlins, except end verticals, and 2-0-0 oc purlins (4-0-15 max.): 4-5.

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

bracing.

WFBS 3-12. 6-10 1 Row at midpt

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

Max Horiz 14=58 (LC 10)

Max Uplift 8=-12 (LC 9), 14=-22 (LC 8) Max Grav 8=1463 (LC 1), 14=1537 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/27, 2-3=-2707/30, 3-4=-2108/23,

4-5=-1842/48, 5-6=-2110/23, 6-7=-2713/31, 2-14=-1469/54, 7-8=-1394/43

BOT CHORD 13-14=-81/518, 12-13=-33/2423

10-12=0/1841, 9-10=0/2436, 8-9=-14/411 WEBS

3-13=-39/185, 3-12=-667/110, 4-12=0/390, 4-10=-214/216, 5-10=0/393, 6-10=-680/111,

6-9=-52/178, 2-13=0/1913, 7-9=0/2034

NOTES

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

- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SPF No.2.
- Refer to girder(s) for truss to truss connections. 7)
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 22 lb uplift at joint 14 and 12 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) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard





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

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



Job	Truss	Truss Type	Qty	Ply	Lot 123 MN
240614	D8	Half Hip	1	1	Job Reference (option

12-4-0

5-9-5

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.73 S Feb 22 2024 Print: 8.730 S Feb 22 2024 MiTek Industries, Inc. I ri Mar 0 ID:dBGPtHpJJ0EtjvmUOri5qtzitcM-RfC?PsB70Hq3NSgPqnL8w3uITXbGKW CDoi7J4

3x10=

25-11-5

6-9-15

S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 164131352 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION

-0-10-8 6-6-11 12-5-4 19-1-7 25-11-5 32-10-0 0-10-8 6-6-11 5-10-9 6-8-3 6-9-15 6-10-11 3x6= 2x4 II 3x4= 6x6= 6x6= 5 6 ₅12 3x4 -3 5-10-9 14 13 16 12 11 17 10 MT18HS 3x8 I 8x8 -4x8= 3x4= 3x6= 6x6=

Scale = 1:62.1

5-10-9

Plate Offsets (X, Y): [7:0-2-8,0-1-8], [9:0-3-8,Edge], [10:0-2-8,0-3-0], [14:0-2-8,0-2-0], [15:0-3-4,0-2-0]

6-6-11

6-6-11

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	0.74	Vert(LL)	-0.20	11-13	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.78	Vert(CT)	-0.35	11-13	>999	240	MT18HS	197/144
BCLL	0.0*	Rep Stress Incr	YES	WB	0.82	Horz(CT)	0.07	9	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.08	11-13	>999	240	Weight: 129 lb	FT = 10%

19-1-7

6-9-7

LUMBER

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

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

BRACING

Structural wood sheathing directly applied or TOP CHORD

3-0-1 oc purlins, except end verticals, and

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

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

bracing. WFBS

1 Row at midpt 8-9

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

Max Horiz 15=192 (LC 7)

Max Uplift 9=-71 (LC 5), 15=-19 (LC 4)

Max Grav 9=1572 (LC 2), 15=1596 (LC 2) (lb) - Maximum Compression/Maximum

FORCES Tension

TOP CHORD 1-2=0/30, 2-3=-2743/28, 3-4=-2368/79,

4-5=-2253/115, 5-7=-2251/114,

7-8=-1569/102, 8-9=-1445/101,

2-15=-1477/55

BOT CHORD 14-15=-188/569, 13-14=-140/2460,

11-13=-127/2125, 10-11=-106/1569

9-10=-64/49

WEBS 2-14=0/1901, 4-13=0/443, 8-10=-91/2013, 4-11=-39/347, 5-11=-515/118, 7-11=-42/881,

7-10=-1055/153, 3-13=-381/91, 3-14=-73/117

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); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- All plates are MT20 plates unless otherwise indicated.

- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- All bearings are assumed to be SPF No.2
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 71 lb uplift at joint 9 and 19 lb uplift at joint 15.
- 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard



32-10-0

6-10-11

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

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



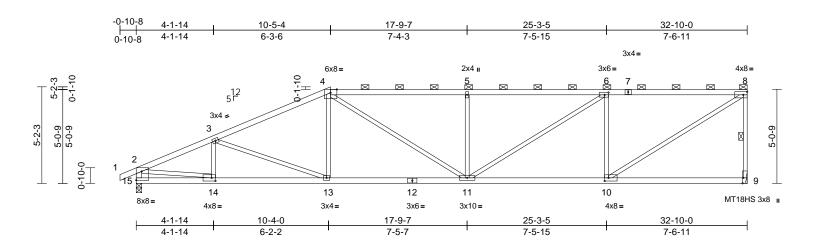
Job	Truss	Truss Type	Qty	Ply	Lot 123 MN
240614	D9	Half Hip	1	1	Job Reference (optiona

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.73 S Feb 22 2024 Print: 8.730 S Feb 22 2024 MiTek Industries, Inc. Fri Mar 0 1. ID:dwk_JTceJo5IBIyCunv5dHzitcd-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWCDoi7J42

S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 164131353 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION



Scale = 1:61.9

Plate Offsets (X, Y): [4:0-4-2,Edge], [6:0-2-8,0-1-8], [9:0-3-8,Edge], [10:0-2-8,0-2-0], [14:0-2-8,0-2-0], [15:Edge,0-5-11]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.Ó	Plate Grip DOL	1.15	тс	0.81	Vert(LL)	-0.17	` 11	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.68	Vert(CT)	-0.34	11-13	>999	240	MT18HS	197/144
BCLL	0.0*	Rep Stress Incr	YES	WB	0.75	Horz(CT)	0.08	9	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.09	11	>999	240	Weight: 123 lb	FT = 10%

LUMBER TOP CHORD

2x4 SPF 2100F 1.8E *Except* 1-4:2x4 SPF

No.2

BOT CHORD 2x4 SPF No.2

2x3 SPF No.2 *Except* 15-2:2x4 SPF No.2 WEBS

BRACING

TOP CHORD Structural wood sheathing directly applied or

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

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

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

bracing.

WEBS 1 Row at midpt 8-9

REACTIONS (size) 9= Mechanical, 15=0-3-8 Max Horiz 15=164 (LC 5)

Max Uplift 9=-71 (LC 5), 15=-27 (LC 4)

Max Grav 9=1465 (LC 1), 15=1539 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension TOP CHORD 1-2=0/27, 2-3=-2579/32, 3-4=-2450/82,

4-5=-2579/134, 5-6=-2576/132,

6-8=-1869/115, 8-9=-1399/106,

2-15=-1479/46

BOT CHORD 14-15=-144/282, 13-14=-144/2334,

11-13=-131/2188, 10-11=-120/1869,

9-10=-51/42

WEBS 2-14=-12/2074, 4-13=0/319, 8-10=-107/2193,

3-13=-150/122, 3-14=-235/65, 4-11=-52/624,

5-11=-568/129, 6-11=-42/837,

6-10=-1019/160

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); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.

- All plates are MT20 plates unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SPF No.2.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 71 lb uplift at joint 9 and 27 lb uplift at joint 15.
- 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard





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

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

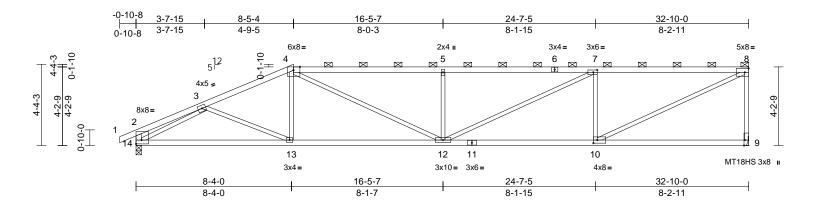


Job	Truss	Truss Type	Qty	Ply	Lot 123 MN
240614	D10	Half Hip	1	1	Job Reference (optional)

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 164131354 LEE'S SUMMIT. MISSOURI

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.73 S Feb 22 2024 Print: 8.730 S Feb 22 2024 MiTek Industries, Inc. Fri Mar 0 1 ID:wkcmeEHigVh7R9O0pcwm1bzitd2-RfC?PsB70Hq3NSgPqnL8w3uITXbGl WrCDoi794zJU?



Scale = 1:61.7

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

Landing	(mof)	Cuasina	200	CCI		DEFL		(10.0)	المامة!	l /al	PLATES	CDID
Loading	(psf)	Spacing	2-0-0	CSI		DELL	in	(loc)	I/defI	L/a	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.91	Vert(LL)	-0.23	10-12	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.76	Vert(CT)	-0.44	10-12	>888	240	MT18HS	197/144
BCLL	0.0*	Rep Stress Incr	YES	WB	0.91	Horz(CT)	0.09	9	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.13	10-12	>999	240	Weight: 118 lb	FT = 10%

LUMBER

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

No.2

BOT CHORD 2x4 SPF No.2

2x3 SPF No.2 *Except* 14-2:2x4 SPF No.2 WEBS

BRACING

BOT CHORD

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

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

bracing

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

Max Horiz 14=136 (LC 5)

Max Uplift 9=-72 (LC 5), 14=-39 (LC 4)

Max Grav 9=1465 (LC 1), 14=1539 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

1-2=0/27, 2-3=-429/0, 3-4=-2577/82, TOP CHORD

4-5=-3167/162, 5-7=-3164/161,

7-8=-2415/136, 8-9=-1392/111, 2-14=-364/26

BOT CHORD 13-14=-168/2188, 12-13=-127/2334,

10-12=-142/2415. 9-10=-37/36 **WEBS** 3-13=0/353, 4-13=0/267, 3-14=-2147/111,

5-12=-620/141, 4-12=-80/1049,

7-12=-45/831, 7-10=-976/167,

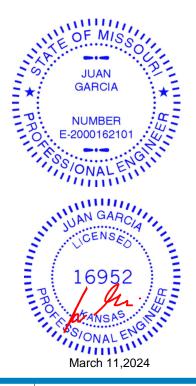
8-10=-130/2642

NOTES

- Unbalanced roof live loads have been considered for
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- All plates are MT20 plates unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SPF No.2.
- Refer to girder(s) for truss to truss connections.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 72 lb uplift at joint 9 and 39 lb uplift at joint 14.
- 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard





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

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

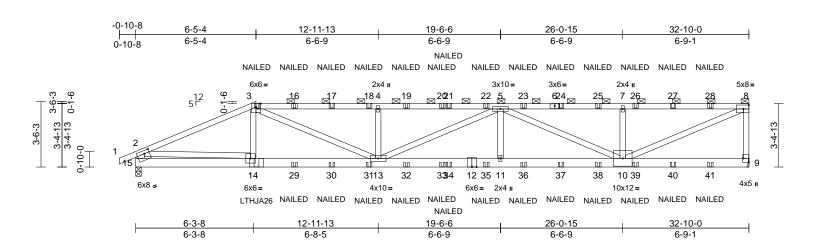


Job	Truss	Truss Type	Qty	Ply	Lot 123 MN	
240614	D11	Half Hip Girder	1	2	Job Reference (optional)	

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.73 S Feb 22 2024 Print: 8.730 S Feb 22 2024 MiTek Industries, Inc. I ri Mar 08 1 ID:jnxLiY2LksXdQLP1kCXTptzitZT-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKW CDoi7J4

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 164131355 LEE'S SUMMIT. MISSOURI



Scale = 1:61.7

Plate Offsets (X, Y): [9:	Edge,0-3-8], [15:0-3-4,0-2-0]
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Landina	(0	0.00	001		DEEL		(1)	1/-1-6	1.7-1	DI ATEO	ODID
Loading	(psf)	Spacing	2-0-0	CSI		DEFL	ın	(loc)	I/defl	L/a	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.73	Vert(LL)	-0.28	11-13	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.91	Vert(CT)	-0.52	11-13	>749	240		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.74	Horz(CT)	0.08	9	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.23	11-13	>999	240	Weight: 303 lb	FT = 10%

LUMBER

TOP CHORD 2x4 SPF 2100F 1.8E *Except* 1-3:2x4 SPF

No.2

BOT CHORD 2x6 SPF No.2

2x4 SPF No.2 *Except* 15-2:2x6 SPF No.2 WFBS

BRACING

BOT CHORD

TOP CHORD Structural wood sheathing directly applied or 4-4-12 oc purlins, except end verticals, and 2-0-0 oc purlins (4-11-11 max.): 3-8.

Rigid ceiling directly applied or 10-0-0 oc

bracing

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

Max Horiz 15=106 (LC 24)

Max Uplift 9=-548 (LC 5), 15=-506 (LC 4)

Max Grav 9=2994 (LC 1), 15=3022 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/30, 2-3=-5899/1065, 3-4=-8368/1593,

4-5=-8364/1591 5-7=-5578/1058

7-8=-5578/1058, 8-9=-2844/595,

2-15=-2895/519

BOT CHORD 14-15=-278/1242. 13-14=-1036/5360.

11-13=-1602/8344. 10-11=-1602/8344.

9-10=-47/111

WEBS 3-14=0/391, 3-13=-651/3394,

4-13=-1070/461, 5-13=-30/22, 5-11=0/547,

5-10=-3047/597, 7-10=-924/402, 8-10=-1114/6012, 2-14=-771/4212

NOTES

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

Top chords connected as follows: 2x4 - 1 row at 0-9-0

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

staggered at 0-9-0 oc

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

- All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SPF No.2
- Refer to girder(s) for truss to truss connections.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 548 lb uplift at joint 9 and 506 lb uplift at joint 15.
- 11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 13) Use Simpson Strong-Tie LTHJA26 (LTHJA26 on 2 ply, Right Hand Hip) or equivalent at 6-5-10 from the left end to connect truss(es) to back face of bottom chord.
- 14) Fill all nail holes where hanger is in contact with lumber.
- 15) "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidlines.

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, 3-8=-70, 9-15=-20

Concentrated Loads (lb), Vert: 3=-126 (B), 14=-493 (B), 64-126 (B), 17=-126 (B), 18=-126 (B), 19=-126 (B), 20=-126 (B), 21=-126 (B), 22=-126 (B), 25=-126 (B)

(B), 22=-126 (B), 23=-126 (B), 28=-126 (B), 25=-126 (B), 25=-126 (B), 25=-58 (B), 25=-58 (B), 31=-58 (B), 31=-58 (B), 32=-58 (B), 33=-58 (B), 33=-58 (B), 35=-58 (

0 SIONAL



March 11,2024

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

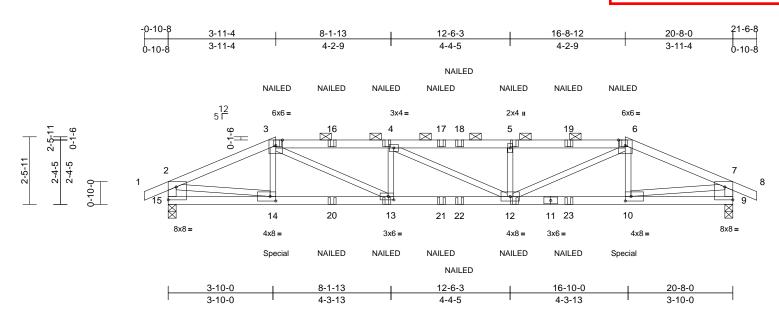


Job Truss Truss Type Qty Ply Lot 123 MN 240614 G1 Hip Girder Job Reference (optiona

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 164131356 LEE'S SUMMIT. MISSOURI

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.73 S Feb 22 2024 Print: 8.730 S Feb 22 2024 MiTek Industries, Inc. F ri Mar 0(11) ID:YE8tn3PIE7tgK9GeOedl8qzd_Yo-RfC?PsB70Hq3NSgPqnL8w3ulTXbGK



Scale = 1:42.2

Plate Offsets (X, Y): [9:Edge,0-5-11], [10:0-2-8,0-2-0], [13:0-2-8,0-1-8], [14:0-2-8,0-2-0], [15:Edge,0-5-11]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.69	Vert(LL)	-0.18	12-13	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	1.00	Vert(CT)	-0.33	12-13	>732	240		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.64	Horz(CT)	0.06	9	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.16	12-13	>999	240	Weight: 74 lb	FT = 10%

LUMBER

WEBS

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

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

BRACING

TOP CHORD

BOT CHORD

Structural wood sheathing directly applied or 3-6-11 oc purlins, except end verticals, and

2-0-0 oc purlins (2-8-8 max.): 3-6. Rigid ceiling directly applied or 6-9-14 oc

bracing

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

15=-18 (LC 6) Max Horiz

Max Uplift 9=-319 (LC 5), 15=-319 (LC 4)

Max Grav 9=1451 (LC 1), 15=1451 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension TOP CHORD

1-2=0/27, 2-3=-2384/537, 3-4=-3397/806,

4-5=-3392/803, 5-6=-3395/804.

6-7=-2384/537, 7-8=0/27, 2-15=-1399/332,

7-9=-1399/332

BOT CHORD 14-15=-93/303. 13-14=-459/2155.

12-13=-753/3394, 10-12=-461/2155

9-10=-79/303

WEBS 3-14=-10/97, 6-10=-10/97, 2-14=-408/1875,

7-10=-409/1875, 3-13=-328/1421,

6-12=-327/1418, 4-13=-489/226, 4-12=-28/23, 5-12=-478/225

NOTES

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

- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SPF No.2.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 319 lb uplift at joint 15 and 319 lb uplift at joint 9.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 10) "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidlines.
- 11) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 214 lb down and 55 lb up at 3-11-4, and 214 lb down and 55 lb up at 16-8-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 12) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

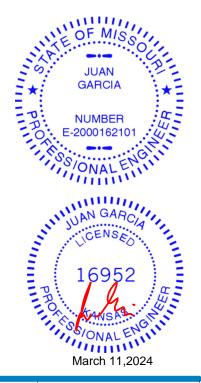
LOAD CASE(S) Standard

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

Vert: 1-2=-70, 2-3=-70, 3-6=-70, 6-7=-70, 7-8=-70, 9-15=-20

Concentrated Loads (lb)

Vert: 3=-45 (F), 6=-45 (F), 14=-214 (F), 10=-214 (F), 13=-23 (F), 12=-23 (F), 4=-45 (F), 5=-45 (F), 16=-45 (F), 17=-45 (F), 18=-45 (F), 19=-45 (F), 20=-23 (F), 21=-23 (F), 22=-23 (F), 23=-23 (F)





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

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



Job	Truss	Truss Type	Qty	Ply	Lot 123 MN
240614	G2	Hip	1	1	Job Reference (option

5-10-0

Wheeler Lumber, Waverly, KS - 66871,

LEE'S SUMMIT. MISSOURI Run: 8.73 S Feb 22 2024 Print: 8.730 S Feb 22 2024 MiTek Industries, Inc. Fri Mar 0 1. ID:F9lftUW1tB8FXi1ZzloeYxzd_Ye-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKW CDoi7J42

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 164131357

-0-10-8 21-6-8 5-11-4 10-4-0 14-8-12 20-8-0 0-10-8 5-11-4 4-4-12 4-4-12 5-11-4 4x5 = 3x4 = 4x5 = 3 5 12 5 Г \bowtie 3-3-11 3-2-1 3-2-1 \bigotimes 11 10 9 8x8 = 8x8= 3x4 = 3x10 = 3x10 = 5-10-0 14-10-0 20-8-0

Scale = 1:42.3

Plate Offsets (2	K, Y):	[8:Edge,0-5-11],	[12:Edge,0-5-11]
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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	0.46	Vert(LL)	-0.15	9-11	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.64	Vert(CT)	-0.34	9-11	>723	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.32	Horz(CT)	0.03	8	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.05	9-11	>999	240	Weight: 73 lb	FT = 10%

9-0-0

LUMBER

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

2x3 SPF No.2 *Except* 12-2,8-6:2x4 SPF WEBS

BRACING

Structural wood sheathing directly applied or TOP CHORD

4-3-7 oc purlins, except end verticals, and 2-0-0 oc purlins (4-10-15 max.): 3-5.

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

bracing.

REACTIONS 8=0-3-8, 12=0-3-8 (size) Max Horiz 12=-29 (LC 13)

Max Uplift 8=-135 (LC 5), 12=-135 (LC 4)

Max Grav 8=988 (LC 1), 12=988 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/27, 2-3=-1533/188, 3-4=-1333/194,

4-5=-1333/194, 5-6=-1533/188, 6-7=0/27,

2-12=-943/157, 6-8=-943/157

BOT CHORD 11-12=-163/422, 9-11=-226/1613, 8-9=-136/422

WEBS

3-11=0/310, 4-11=-427/136, 4-9=-427/136,

5-9=0/310, 2-11=-38/932, 6-9=-38/932

NOTES

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

- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SPF No.2.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 135 lb uplift at joint 12 and 135 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



5-10-0

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

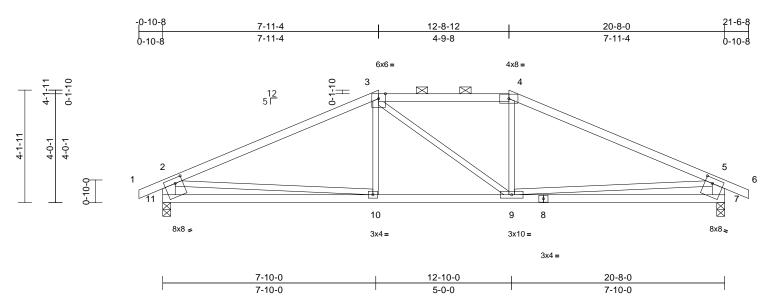
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not



Truss Type Job Truss Qty Ply Lot 123 MN 240614 G3 Hip Job Reference (optiona RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 164131358 LEE'S SUMMIT. MISSOURI

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.73 S Feb 22 2024 Print: 8.730 S Feb 22 2024 MiTek Industries, Inc. F Fri Mar 08/1 ID:YWgJLtcQDL0Gtn4vujQHKPzd_YX-RfC?PsB70Hq3NSgPqnL8w3uITXbG KWrCDo



Scale = 1:42.4

Loading	(psf)	Spacing	2-0-0	csı		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.80	Vert(LL)	-0.10	10-11	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.42	Vert(CT)	-0.20	10-11	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.21	Horz(CT)	0.03	7	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.03	9-10	>999	240	Weight: 75 lb	FT = 10%

LUMBER

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

2x3 SPF No.2 *Except* 11-2,7-5:2x6 SPF WEBS

BRACING

Structural wood sheathing directly applied or TOP CHORD

3-4-15 oc purlins, except end verticals, and 2-0-0 oc purlins (5-2-10 max.): 3-4.

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

bracing

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

Max Horiz 11=-42 (LC 13)

Max Uplift 7=-122 (LC 9), 11=-122 (LC 8)

Max Grav 7=987 (LC 1), 11=987 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

1-2=0/30, 2-3=-1404/152, 3-4=-1189/169, TOP CHORD

4-5=-1405/152, 5-6=0/30, 2-11=-911/168,

5-7=-912/167

BOT CHORD 10-11=-276/731, 9-10=-62/1189,

7-9=-237/730

WEBS 3-10=0/221, 3-9=-150/150, 4-9=0/221,

2-10=0/619, 5-9=0/620

NOTES

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

- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SPF No.2.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 122 lb uplift at joint 11 and 122 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



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

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

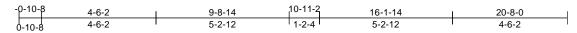


Ply Job Truss Truss Type Qty Lot 123 MN 2 240614 G4 Hip Girder Job Reference (optiona

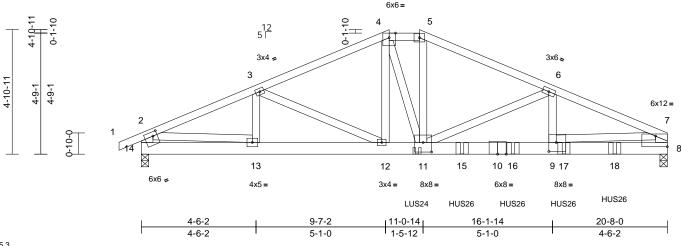
RELEASE FOR CONSTRUCTION DEVELOPMENT SERVICES 164131359 LEE'S SUMMIT. MISSOURI

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.73 S Feb 22 2024 Print: 8.730 S Feb 22 2024 MiTek Industries, Inc. F ri Mar 08/1 ID:kuMuDSx_dyYHE4DIXbxrTJzd_Y5-RfC?PsB70Hq3NSgPqnL8w3uITXbGI<mark>.</mark>WrCDoi



4x5 =



Scale = 1:45.3

Plate Offsets (X, Y): [7:Edge,0-5-0], [9:0-3-8,0-4-4], [11:0-4-0,0-4-8], [14:0-2-0,0-2-0]

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	0.37	Vert(LL)	-0.11	9-11	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.95	Vert(CT)	-0.19	9-11	>999	240		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.55	Horz(CT)	0.03	8	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.07	9-11	>999	240	Weight: 208 lb	FT = 10%

LUMBER

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

2x4 SPF No.2 *Except* 14-2,8-7:2x6 SPF WEBS

BRACING TOP CHORD

BOT CHORD

Structural wood sheathing directly applied or 4-9-4 oc purlins, except end verticals, and

2-0-0 oc purlins (6-0-0 max.): 4-5.

Rigid ceiling directly applied or 10-0-0 oc

bracing

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

Max Horiz 14=66 (LC 8)

Max Uplift 8=-540 (LC 9), 14=-292 (LC 8)

Max Grav 8=3844 (LC 1), 14=2028 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/30, 2-3=-3531/484, 3-4=-3607/499,

4-5=-3762/566, 5-6=-4173/582,

6-7=-6450/906, 2-14=-1896/302,

7-8=-3186/473

BOT CHORD 13-14=-159/675, 12-13=-461/3200,

11-12=-393/3292. 9-11=-802/5895.

8-9=-211/1431

WEBS 3-13=-352/117, 3-12=-137/353,

4-12=-550/133, 4-11=-304/1791, 5-11=-197/1354, 6-11=-2343/422,

6-9=-166/1628, 2-13=-304/2545,

7-9=-596/4500

NOTES

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

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

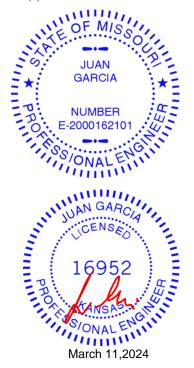
staggered at 0-9-0 oc. Web connected as follows: 2x4 - 1 row at 0-9-0 oc.

- All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SPF No.2
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 292 lb uplift at joint 14 and 540 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.
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 12) Use Simpson Strong-Tie LUS24 (4-10d Girder, 2-10d Truss) or equivalent at 10-10-0 from the left end to connect truss(es) to back face of bottom chord.
- 13) Use Simpson Strong-Tie HUS26 (14-10d Girder, 6-10d Truss) or equivalent spaced at 2-0-0 oc max. starting at 12-7-4 from the left end to 18-7-4 to connect truss(es) to back face of bottom chord.
- 14) Fill all nail holes where hanger is in contact with lumber. LOAD CASE(S) Standard

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

Vert: 1-2=-70, 2-4=-70, 4-5=-70, 5-7=-70, 8-14=-20 Concentrated Loads (lb)

Vert: 11=-404 (B), 15=-882 (B), 16=-897 (B), 17=-897 (B), 18=-897 (B)



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



Ply Job Truss Truss Type Qty Lot 123 MN 240614 J1 Diagonal Hip Girder

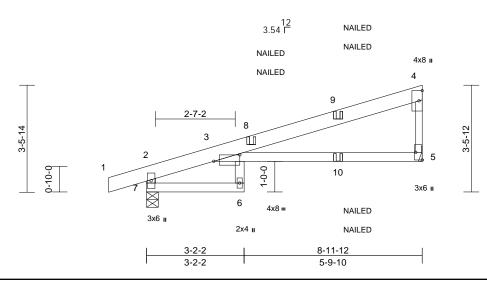
Wheeler Lumber, Waverly, KS - 66871,

DEVELOPMENT SERVICES 164131360 LEE'S SUMMIT. MISSOURI Job Reference (optiona Run: 8.73 S Feb 22 2024 Print: 8.730 S Feb 22 2024 MiTek Industries, Inc. ri Mar 08/1.

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW

ID:nNIAdfv4K4qgGPmn4VzjJyzitma-RfC?PsB70Hq3NSgPqnL8w3uITXbGKV





Scale = 1:37.5

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.86	Vert(LL)	-0.20	6	>532	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.60	Vert(CT)	-0.37	6	>284	240		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.02	Horz(CT)	0.14	5	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R		Wind(LL)	0.19	6	>551	240	Weight: 33 lb	FT = 10%

LUMBER

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

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

BRACING

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

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

bracing.

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

Max Horiz 7=123 (LC 22) Max Uplift 5=-86 (LC 8), 7=-120 (LC 4)

Max Grav 5=471 (LC 1), 7=546 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 2-7=-521/141, 1-2=0/27, 2-3=-154/18, 3-4=-177/20, 4-5=-338/129

BOT CHORD 6-7=-50/0, 3-5=-22/104

WFBS 3-6=0/78

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SPF No.2.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 120 lb uplift at joint 7 and 86 lb uplift at joint 5.

- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- "NAILED" indicates 3-10d (0.148"x3") or 2-12d (0.148"x3.25") toe-nails per NDS guidlines.
- In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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

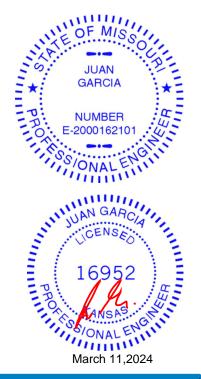
Plate Increase=1.15 Uniform Loads (lb/ft)

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

Concentrated Loads (lb)

Vert: 8=0 (F=0, B=0), 9=-44 (F=-22, B=-22), 10=-72

(F=-36, B=-36)





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

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



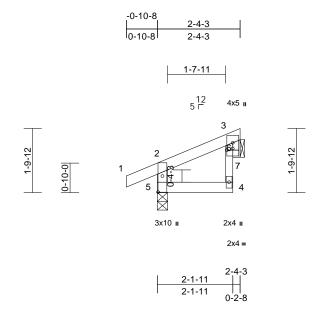
Truss Type Job Truss Qty Ply Lot 123 MN 240614 J2 Jack-Closed 2 Job Reference (optiona

Wheeler Lumber, Waverly, KS - 66871,

S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 164131361 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION

Run: 8.73 S Feb 22 2024 Print: 8.730 S Feb 22 2024 MiTek Industries, Inc. F ri Mar 08 1 ID:QPxHayrxVYCO9etqHyNYcvzitmf-RfC?PsB70Hq3NSgPqnL8w3uITXbGK VrCDoi734zJC?f



Scale = 1:32.7

Plate Offsets (X, Y): [5:0-5-8,0-1-8], [6:0-2-0,0-0-9]

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	0.07	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	7	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R		Wind(LL)	0.00	4	>999	240	Weight: 8 lb	FT = 10%

LUMBER

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

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

2x3 SPF No.2 OTHERS

BRACING

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

Rigid ceiling directly applied or 10-0-0 oc

bracing.

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

Max Horiz 5=57 (LC 5)

Max Uplift 5=-36 (LC 4), 7=-21 (LC 8) Max Grav 5=184 (LC 1), 7=58 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 2-5=-162/51, 1-2=0/27, 2-3=-50/5, 4-6=0/36, 3-6=-21/28

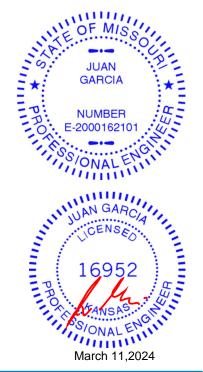
BOT CHORD 4-5=-20/16 WEBS 3-7=-26/3

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SPF No.2 .
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 36 lb uplift at joint 5 and 21 lb uplift at joint 7.

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

LOAD CASE(S) Standard





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

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



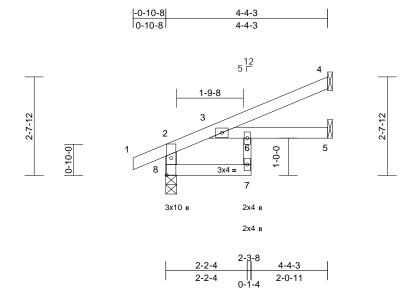
Truss Type Job Truss Qty Ply Lot 123 MN 240614 J3 Jack-Open 2

DEVELOPMENT SERVICES 164131362 LEE'S SUMMIT. MISSOURI Job Reference (optiona

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.73 S Feb 22 2024 Print: 8.730 S Feb 22 2024 MiTek Industries, Inc. F ri Mar 0(11) ID:QPxHayrxVYCO9etqHyNYcvzitmf-RfC?PsB70Hq3NSgPqnL8w3uITXbGK



Scale = 1:30.9

Plate Offsets	(X, Y):	[8:0-5-8,0-1-8]
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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	0.21	Vert(LL)	-0.02	3-6	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.18	Vert(CT)	-0.04	6	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.01	Horz(CT)	0.03	5	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.02	3-6	>999	240	Weight: 14 lb	FT = 10%

LUMBER

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

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

BRACING

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

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

bracing.

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

8=0-3-8 Max Horiz 8=77 (LC 8)

Max Uplift 4=-56 (LC 8), 8=-28 (LC 8) Max Grav 4=121 (LC 1), 5=84 (LC 3), 8=280

(LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 2-8=-269/55, 1-2=0/27, 2-3=-82/0, 3-4=-40/38

7-8=0/0, 3-6=0/0, 5-6=0/0 **BOT CHORD**

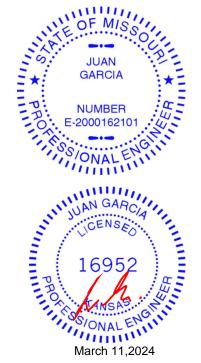
WFBS 6-7=-2/46

NOTES

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SPF No.2
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 28 lb uplift at joint 8 and 56 lb uplift at joint 4.

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

LOAD CASE(S) Standard





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

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



Truss Type Ply Job Truss Qty Lot 123 MN Jack-Open 240614 J4 Job Reference (optiona

S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 164131363 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.73 S Feb 22 2024 Print: 8.730 S Feb 22 2024 MiTek Industries, Inc. F Fri Mar 08/1 ID:FZJYq?vi5OyXtZLzeCUys9zitmZ-RfC?PsB70Hq3NSgPqnL8w3uITXbGKVrCDoi7J

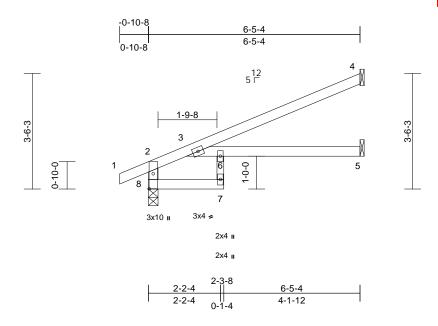


Plate Offsets (X, Y): [8:0-5-8,0-1-8]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.56	Vert(LL)	-0.09	5-6	>814	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.46	Vert(CT)	-0.19	5-6	>392	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.02	Horz(CT)	0.11	5	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.11	5-6	>682	240	Weight: 19 lb	FT = 10%

LUMBER

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

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

BRACING

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

bracing.

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

8=0-3-8 Max Horiz 8=112 (LC 8)

Max Uplift 4=-87 (LC 8), 8=-36 (LC 8) 4=188 (LC 1), 5=120 (LC 3), 8=373 Max Grav

(LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 2-8=-375/73, 1-2=0/27, 2-3=-125/0,

3-4=-70/58

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

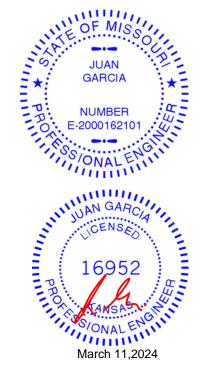
WEBS 6-7=-13/52

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) 1) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SPF No.2.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 36 lb uplift at joint 8 and 87 lb uplift at joint 4.

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

LOAD CASE(S) Standard





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

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



Truss Type Ply Job Truss Qty Lot 123 MN Jack-Open 240614 J5 21 Job Reference (optiona

RELEASE FOR CONSTRUCTION DEVELOPMENT SERVICES 164131364 LEE'S SUMMIT. MISSOURI

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.73 S Feb 22 2024 Print: 8.730 S Feb 22 2024 MiTek Industries, Inc. ri Mar 08 1. ID:QPxHayrxVYCO9etqHyNYcvzitmf-RfC?PsB70Hq3NSgPqnL8w3uITXbGK

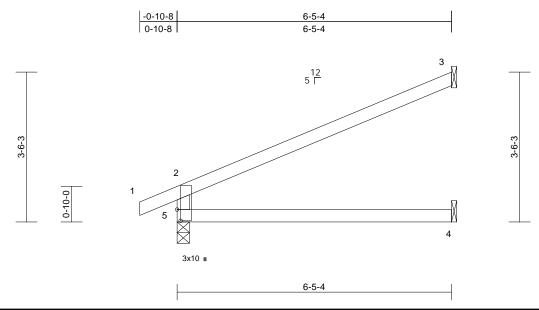


Plate Offsets (X, Y): [5:0-3-3,0-1-0]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.63	Vert(LL)	-0.07	4-5	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.38	Vert(CT)	-0.16	4-5	>476	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.06	3	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R		Wind(LL)	0.08	4-5	>987	240	Weight: 17 lb	FT = 10%

LUMBER

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

BRACING

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

bracing.

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

Max Horiz 5=112 (LC 8)

Max Uplift 3=-99 (LC 8), 5=-45 (LC 8) 3=196 (LC 1), 4=118 (LC 3), 5=358 Max Grav

(LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 2-5=-311/104, 1-2=0/27, 2-3=-103/59

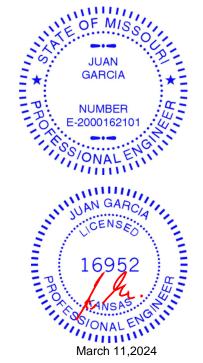
BOT CHORD 4-5=0/0

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SPF No.2.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 45 lb uplift at joint 5 and 99 lb uplift at joint 3.

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

LOAD CASE(S) Standard





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

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

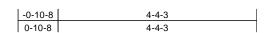


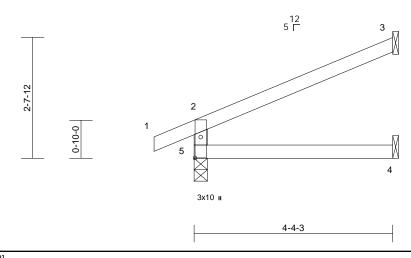
Truss Type Ply Job Truss Qty Lot 123 MN Jack-Open 240614 J6 Job Reference (optiona RELEASE FOR CONSTRUCTION DEVELOPMENT SERVICES 164131365 LEE'S SUMMIT. MISSOURI

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.73 S Feb 22 2024 Print: 8.730 S Feb 22 2024 MiTek Industries, Inc. ID:ucVfnHrZGsKEnoS0rfvn96zitme-RfC?PsB70Hq3NSgPqnL8w3uITXbGKV

ri Mar 08 1.





Scale = 1:25.2

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.25	Vert(LL)	-0.01	4-5	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.15	Vert(CT)	-0.03	4-5	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.02	3	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R		Wind(LL)	0.02	4-5	>999	240	Weight: 12 lb	FT = 10%

LUMBER

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

BRACING

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

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

bracing.

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

5=0-3-8 Max Horiz 5=77 (LC 8)

Max Uplift 3=-67 (LC 8), 5=-36 (LC 8) 3=128 (LC 1), 4=78 (LC 3), 5=267 Max Grav

(LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 2-5=-233/75, 1-2=0/27, 2-3=-69/38

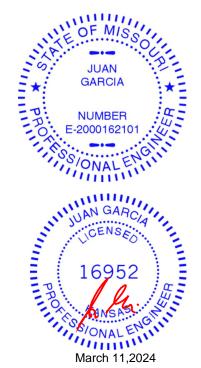
BOT CHORD 4-5=0/0

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SPF No.2.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 36 lb uplift at joint 5 and 67 lb uplift at joint 3.

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

LOAD CASE(S) Standard





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

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



Truss Type Ply Job Truss Qty Lot 123 MN Jack-Open 240614 J7 Job Reference (optiona

Wheeler Lumber, Waverly, KS - 66871,

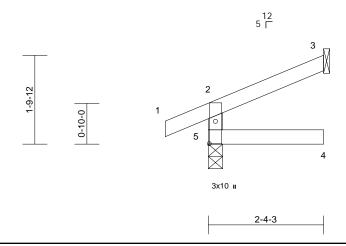
Run: 8.73 S Feb 22 2024 Print: 8.730 S Feb 22 2024 MiTek Industries, Inc. ri Mar 08 1. ID:ucVfnHrZGsKEnoS0rfvn96zitme-RfC?PsB70Hq3NSgPqnL8w3uITXbGKV

1-9-12

S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 164131366 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION

-0-10-8	2-4-3
0-10-8	2-4-3



Scale = 1:23.5

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.17	Vert(LL)	-0.05	4	>544	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.18	Vert(CT)	-0.09	4	>271	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.01	3	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R		Wind(LL)	0.02	4	>999	240	Weight: 7 lb	FT = 10%

LUMBER

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

BRACING

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

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

bracing.

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

Max Horiz 5=46 (LC 5)

Max Uplift 3=-31 (LC 8), 5=-30 (LC 4) Max Grav 3=81 (LC 1), 5=185 (LC 1)

(lb) - Maximum Compression/Maximum

Tension

TOP CHORD 2-5=-141/57, 1-2=0/27, 2-3=-26/25

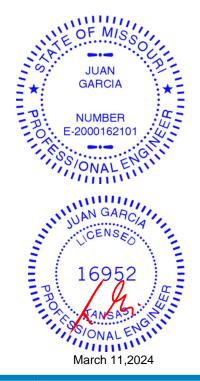
BOT CHORD 4-5=0/0

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.
- All bearings are assumed to be SPF No.2.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 30 lb uplift at joint 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





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

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

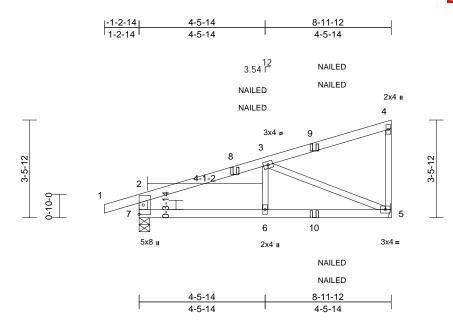


Ply Qty Job Truss Truss Type Lot 123 MN 240614 J8 Diagonal Hip Girder 2 Job Reference (optiona

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 164131367 LEE'S SUMMIT. MISSOURI

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.73 S Feb 22 2024 Print: 8.730 S Feb 22 2024 MiTek Industries, Inc. ri Mar 08 1. ID:FZJYq?vi5OyXtZLzeCUys9zitmZ-RfC?PsB70Hq3NSgPqnL8w3uITXbGKV rCDoi7J



Scale = 1:41

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.55	Vert(LL)	-0.04	5-6	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.39	Vert(CT)	-0.07	5-6	>999	240		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.34	Horz(CT)	0.01	5	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.03	5-6	>999	240	Weight: 30 lb	FT = 10%

LUMBER

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

2x3 SPF No.2 *Except* 7-2:2x4 SPF 2100F WEBS

BRACING

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins, except end verticals.

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

bracing.

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

Max Horiz 7=143 (LC 5)

Max Uplift 5=-105 (LC 8), 7=-130 (LC 4)

Max Grav 5=463 (LC 1), 7=541 (LC 1) (lb) - Maximum Compression/Maximum

FORCES

TOP CHORD 2-7=-466/144, 1-2=0/27, 2-3=-654/109,

3-4=-120/30, 4-5=-161/71

BOT CHORD 6-7=-158/569, 5-6=-158/569 3-6=0/193, 3-5=-596/151 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
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SPF No.2.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 130 lb uplift at joint 7 and 105 lb uplift at joint 5.

- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- "NAILED" indicates 3-10d (0.148"x3") or 2-12d
- (0.148"x3.25") toe-nails per NDS guidlines.
- In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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

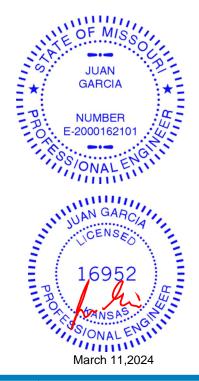
Uniform Loads (lb/ft)

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

Concentrated Loads (lb)

Vert: 8=-22 (F=-11, B=-11), 9=-59 (F=-29, B=-29),

10=-42 (F=-21, B=-21)





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

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



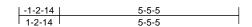
Ply Job Truss Truss Type Qty Lot 123 MN 240614 J9 Diagonal Hip Girder 2 Job Reference (optiona

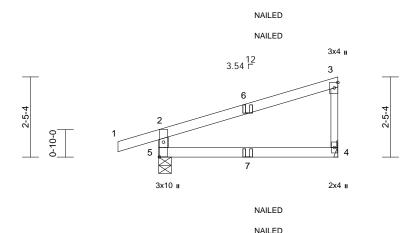
Wheeler Lumber, Waverly, KS - 66871,

S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 164131368 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION

Run: 8.73 S Feb 22 2024 Print: 8.730 S Feb 22 2024 MiTek Industries, Inc. ri Mar 08 1 ID:3zToITZTTwBTZZVOrfu7rHzd_Zt-RfC?PsB70Hq3NSgPqnL8w3uITXbGK





Scale = 1:35

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.38	Vert(LL)	-0.03	4-5	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.24	Vert(CT)	-0.06	4-5	>999	240		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.00	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R		Wind(LL)	0.01	4-5	>999	240	Weight: 16 lb	FT = 10%

5-5-5

LUMBER

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

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

BRACING

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

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

bracing.

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

Max Horiz 5=98 (LC 7)

Max Uplift 4=-48 (LC 8), 5=-102 (LC 4) Max Grav 4=219 (LC 1), 5=342 (LC 1)

(lb) - Maximum Compression/Maximum

Tension

TOP CHORD 2-5=-302/140, 1-2=0/27, 2-3=-126/14,

3-4=-158/71

BOT CHORD 4-5=-26/49

NOTES

FORCES

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SPF No.2
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 102 lb uplift at joint 5 and 48 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.

- "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, 4-5=-20

Concentrated Loads (lb)

Vert: 7=4 (F=2, B=2)





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

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



Truss Type Job Truss Qty Ply Lot 123 MN Jack-Open 240614 J10 Job Reference (optiona

Wheeler Lumber, Waverly, KS - 66871,

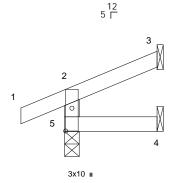
S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 164131369 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION

Run: 8.73 S Feb 22 2024 Print: 8.730 S Feb 22 2024 MiTek Industries, Inc. ri Mar 08 1 ID:QflGnNQylEgA6ja487glMlzd_a3-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKW rCDoi7J4

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







1-10-3

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.07	Vert(LL)	0.00	4-5	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.02	Vert(CT)	0.00	4-5	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R		Wind(LL)	0.00	4-5	>999	240	Weight: 6 lb	FT = 10%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 1-10-3 oc purlins, except end verticals. **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc

bracing.

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

5=0-3-8 Max Horiz 5=41 (LC 5)

Max Uplift 3=-28 (LC 8), 5=-32 (LC 4) 3=41 (LC 1), 4=30 (LC 3), 5=169 Max Grav

(LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 2-5=-148/46, 1-2=0/27, 2-3=-31/11

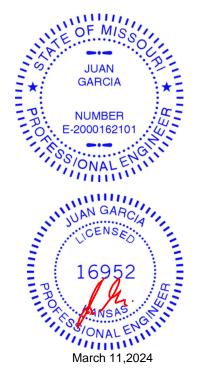
BOT CHORD 4-5=0/0

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SPF No.2.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 32 lb uplift at joint 5 and 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





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

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



Truss Type Ply Job Truss Qty Lot 123 MN Jack-Open 240614 J11 8 Job Reference (optiona

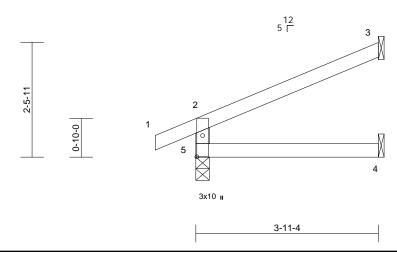
Wheeler Lumber, Waverly, KS - 66871,

Run: 8.73 S Feb 22 2024 Print: 8.730 S Feb 22 2024 MiTek Industries, Inc. ri Mar 08 1. ID:urJe_jRa3Yo1kt9GirBXvyzd_a2-RfC?PsB70Hq3NSgPqnL8w3uITXbGKW

DEVELOPMENT SERVICES 164131370 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION





Scale = 1:24.9

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.20	Vert(LL)	-0.01	4-5	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.12	Vert(CT)	-0.02	4-5	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.01	3	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R		Wind(LL)	0.01	4-5	>999	240	Weight: 11 lb	FT = 10%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 3-11-4 oc purlins, except end verticals. **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc

bracing.

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

5=0-3-8 Max Horiz 5=70 (LC 8)

Max Uplift 3=-61 (LC 8), 5=-34 (LC 8) 3=115 (LC 1), 4=70 (LC 3), 5=249 Max Grav

(LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 2-5=-218/70, 1-2=0/27, 2-3=-63/34

BOT CHORD 4-5=0/0

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SPF No.2.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 34 lb uplift at joint 5 and 61 lb uplift at joint 3.

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

LOAD CASE(S) Standard





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

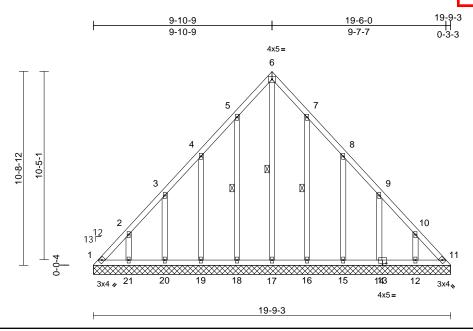
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not



Job Truss Truss Type Qty Ply Lot 123 MN 240614 LAY1 Lay-In Gable Job Reference (optional RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 164131371 LEE'S SUMMIT. MISSOURI

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.73 E Jan 4 2024 Print: 8.730 E Jan 4 2024 MiTek Industries, Inc. Mon Mar 1 ID:ucVfnHrZGsKEnoS0rfvn96zitme-G_Y6NBzANewp3Wn4mBPuudp78ynEhKft_Jww



Scale = 1:63.8

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.06	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	0.11	Horiz(TL)	0.01	11	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 110 lb	FT = 10%

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

BRACING

LUMBER

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins.

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

bracing.

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

REACTIONS (lb/size) 1=79/19-9-3, 11=79/19-9-3,

12=182/19-9-3, 14=180/19-9-3, 15=180/19-9-3, 16=183/19-9-3, 17=116/19-9-3, 18=183/19-9-3,

19=180/19-9-3, 20=180/19-9-3, 21=182/19-9-3

Max Horiz 1=-277 (LC 4)

Max Uplift 1=-133 (LC 6), 11=-88 (LC 7), 12=-131 (LC 9), 14=-128 (LC 9),

15=-135 (LC 9), 16=-121 (LC 9), 18=-124 (LC 8), 19=-134 (LC 8),

20=-128 (LC 8), 21=-131 (LC 8)

Max Grav 1=272 (LC 8), 11=242 (LC 9), 12=207 (LC 16), 14=205 (LC 16),

15=206 (LC 16), 16=209 (LC 16), 17=255 (LC 9), 18=212 (LC 15), 19=205 (LC 15), 20=205 (LC 15),

21=207 (LC 15) FORCES (lb) - Maximum Compression/Maximum

Tension TOP CHORD

1-2=-386/241, 2-3=-262/193, 3-4=-170/143, 4-5=-143/144, 5-6=-114/207, 6-7=-89/185,

7-8=-96/102, 8-9=-123/82, 9-10=-221/131, 10-11=-345/179

BOT CHORD 1-21=-123/260, 20-21=-123/260, 19-20=-123/260, 18-19=-123/260,

17-18=-123/260, 16-17=-123/260, 15-16=-123/260, 14-15=-123/260, 13-14=-123/260, 12-13=-123/260,

11-12=-123/260

WFBS 2-21=-162/148, 3-20=-166/154, 4-19=-164/158, 5-18=-173/148,

10-12=-162/149, 9-14=-166/153

8-15=-166/159, 7-16=-169/145, 6-17=-232/33

NOTES

- Unbalanced roof live loads have been considered for 1) this design
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- All plates are 2x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing. 6) Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom
- chord live load nonconcurrent with any other live loads. * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SPF No.2 crushing capacity of 425 psi.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 133 lb uplift at joint 1, 88 lb uplift at joint 11, 131 lb uplift at joint 21, 128 lb uplift at joint 20, 134 lb uplift at joint 19, 124 lb uplift at joint 18, 131 lb uplift at joint 12, 128 lb uplift at joint 14, 135 lb uplift at joint 15 and 121 lb uplift at joint 16.

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

LOAD CASE(S) Standard



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



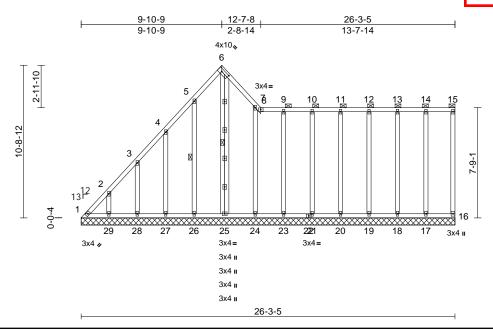
Job Truss Truss Type Qty Ply Lot 123 MN 240614 LAY2 Lay-In Gable Job Reference (optional

S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 164131372 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.73 E Jan 4 2024 Print: 8.730 E Jan 4 2024 MiTek Industries, Inc. Mon Mar 1 ID:ucVfnHrZGsKEnoS0rfvn96zitme-R5jGhy64n0JFtC7Bw_5TrxmxFOWxmH SVWW4?6mzc2Gi



Scale = 1:81

Plate Offsets (X, Y): [6:0-6-10,0-2-0], [22:0-1-14,0-1-8]
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Max Horiz 1=373 (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	0.26	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.11	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.25	Horiz(TL)	0.00	16	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 177 lb	FT = 10%

LUMBER TOP CHORD BOT CHORD WEBS OTHERS BRACING TOP CHORD WEBS REACTIONS	2x4 SPF No.2 Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 8-15. Rigid ceiling directly applied or 10-0-0 oc bracing. 1 Row at midpt 5-26, 6-25 (lb/size) 1=59/26-3-5, 16=71/26-3-5,	TOP CHORD BOT CHORD	1-2=-432/326, 2-3=-364/279, 3-4=-314/242, 4-5=-281/233, 5-6=-235/210, 6-7=-209/183, 7-8=-90/65, 8-9=-105/80, 9-10=-105/80, 10-11=-105/80, 11-12=-105/80, 12-13=-105/80, 13-14=-105/80, 14-15=-105/80, 15-16=-62/43 1-29=-113/88, 28-29=-113/88, 27-28=-113/88, 26-27=-113/88, 25-26=-113/88, 24-25=-107/81, 23-24=-107/81, 22-23=-107/81, 12-22=-107/81, 19-20=-107/81, 18-19=-107/81, 17-18=-107/81, 16-17=-107/81, 12-29=-162/148, 3-28=-166/154.
	17=191/26-3-5, 18=179/26-3-5, 19=180/26-3-5, 20=180/26-3-5,	WERS	2-29=-162/148, 3-28=-166/154, 4-27=-165/157, 5-26=-169/149, 6-25=-273/248, 7-24=-235/140

21=181/26-3-5, 23=174/26-3-5,

24=206/26-3-5. 25=181/26-3-5.

26=179/26-3-5, 27=181/26-3-5,

28=180/26-3-5, 29=182/26-3-5

17=-31 (LC 9), 18=-38 (LC 5),

19=-32 (LC 9), 20=-34 (LC 5),

21=-38 (LC 9), 23=-25 (LC 5),

24=-116 (LC 4), 25=-204 (LC 7),

26=-124 (LC 8), 27=-133 (LC 8),

28=-129 (LC 8), 29=-131 (LC 8)

17=191 (LC 22), 18=179 (LC 1),

19=180 (LC 22), 20=180 (LC 1),

21=181 (LC 22), 23=174 (LC 1),

24=276 (LC 16), 25=299 (LC 4),

26=211 (LC 15), 27=205 (LC 15),

28=205 (LC 15), 29=207 (LC 15)

(lb) - Maximum Compression/Maximum

1=316 (LC 5), 16=71 (LC 1),

Max Uplift 1=-196 (LC 6), 16=-18 (LC 5),

NOTES

Unbalanced roof live loads have been considered for this design

14-17=-148/92, 13-18=-139/52,

12-19=-140/59, 11-20=-140/57,

10-21=-141/62, 9-23=-135/49

Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; 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. 6)

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

9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members. M/S
10) All bearings are assumed to be SPF No.2 croshing capacity of 425 psi.
11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 196 lb uplift at joint 1, 18 lb uplift at joint 16, 131 lb uplift at joint 28, 133 lb uplift at joint 27, 124 lb uplift at joint 28, 133 lb uplift at joint 27, 124 lb uplift at joint 26, 204 lb uplift at joint 25, 116 lb uplift at joint 24, uplift at joint 28, 133 lb uplift at joint 27, 124 lb uplift at joint 26, 204 lb uplift at joint 25, 116 lb uplift at joint 24, 31 lb uplift at joint 21, 38 lb uplift at joint 21, 31 lb uplift at joint 21, 38 lb uplift at joint 21, 32 lb uplift at joint 22 lb uplift at joint 23.

12) This truss is designed in accordance with the 2016 International Residential Code sections R502, 11, 1 and R802, 10, 2 and referenced standard ANSI/TP11.

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

or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard



March 11,2024

Tension

FORCES



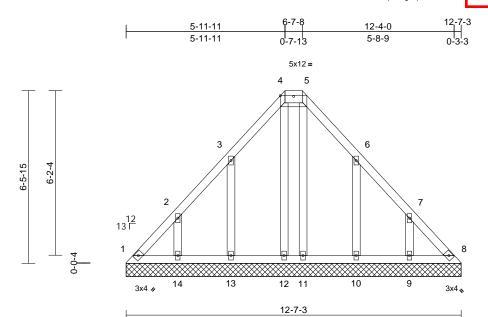
Job Truss Truss Type Qty Ply Lot 123 MN 240614 LAY4 Lay-In Gable Job Reference (optiona

Wheeler Lumber, Waverly, KS - 66871,

LEE'S SUMMIT. MISSOURI Run: 8.73 S Feb 22 2024 Print: 8.730 S Feb 22 2024 MiTek Industries, Inc. I ri Mar 0 11 ID:FL9NA2v1tXiUwsemUXOh_Azd_ZR-RfC?PsB70Hq3NSgPqnL8w3uITXbCKWrCDo

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW

DEVELOPMENT SERVICES 164131373



Scale = 1:43.3

Plate Offsets (2	X, Y):	[4:0-6-0,0-0-5]
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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	0.05	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	8	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 60 lb	FT = 10%

LUMBER

2x4 SPF No.2 *Except* 4-5:2x6 SPF No.2 TOP CHORD

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

BRACING

BOT CHORD

Structural wood sheathing directly applied or TOP CHORD

6-0-0 oc purlins, except

2-0-0 oc purlins (6-0-0 max.): 4-5.

Rigid ceiling directly applied or 10-0-0 oc

bracing.

REACTIONS (size) 1=12-7-3, 8=12-7-3, 9=12-7-3,

10=12-7-3, 11=12-7-3, 12=12-7-3,

13=12-7-3, 14=12-7-3

Max Horiz 1=-164 (LC 4)

1=-63 (LC 6), 8=-29 (LC 7), 9=-130 Max Uplift (LC 9), 10=-135 (LC 9), 12=-18 (LC

5), 13=-136 (LC 8), 14=-130 (LC 8)

1=132 (LC 17), 8=115 (LC 18), Max Grav

9=204 (LC 16), 10=218 (LC 16), 11=111 (LC 17), 12=127 (LC 18),

13=219 (LC 15), 14=204 (LC 15)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=-188/145, 2-3=-129/99, 3-4=-104/144,

4-5=-31/117, 5-6=-85/119, 6-7=-94/54,

7-8=-158/99

1-14=-68/133, 13-14=-68/133, BOT CHORD 12-13=-68/133, 11-12=-68/133,

10-11=-68/133, 9-10=-68/133, 8-9=-68/133

WEBS 2-14=-159/148, 3-13=-178/162,

4-12=-102/41, 7-9=-160/148, 6-10=-177/162

5-11=-85/8

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. Provide adequate drainage to prevent water ponding.
- All plates are 2x4 MT20 unless otherwise indicated. 5)
- 6) Gable requires continuous bottom chord bearing.
- 7) Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom 8) chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 10) All bearings are assumed to be SPF No.2.
- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 63 lb uplift at joint 1, 29 lb uplift at joint 8, 130 lb uplift at joint 14, 136 lb uplift at joint 13, 18 lb uplift at joint 12, 130 lb uplift at joint 9 and 135 lb uplift at joint 10.
- 12) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard





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



Ply Qty Job Truss Truss Type Lot 123 MN 240614 V1 Valley Job Reference (optional

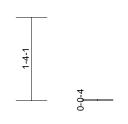
RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 164131374 LEE'S SUMMIT. MISSOURI

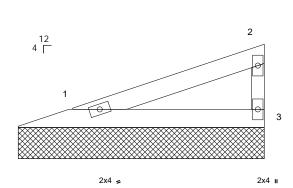
Wheeler Lumber, Waverly, KS - 66871,

Run: 8.73 S Feb 22 2024 Print: 8.730 S Feb 22 2024 MiTek Industries, Inc. ri Mar 08 1. ID:ucVfnHrZGsKEnoS0rfvn96zitme-RfC?PsB70Hq3NSgPqnL8w3uITXbGKV

2x4 II









3-11-6

Scale = 1:18.5

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	0.15	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 4-0-2 oc purlins, except end verticals.

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

bracing.

REACTIONS (size) 1=3-11-6, 3=3-11-6

Max Horiz 1=45 (LC 5)

Max Uplift 1=-22 (LC 4), 3=-28 (LC 8) Max Grav 1=133 (LC 1), 3=133 (LC 1) (lb) - Maximum Compression/Maximum

FORCES

Tension

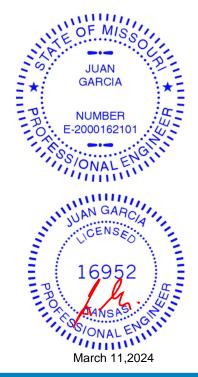
TOP CHORD 1-2=-40/27, 2-3=-104/46 BOT CHORD 1-3=-14/11

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) 1) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable or consult qualified building designer as per ANSI/TPI 1.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SPF No.2 .
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 22 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





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

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



Job Truss Truss Type Qty Ply Lot 123 MN 240614 V2 Valley Job Reference (optiona

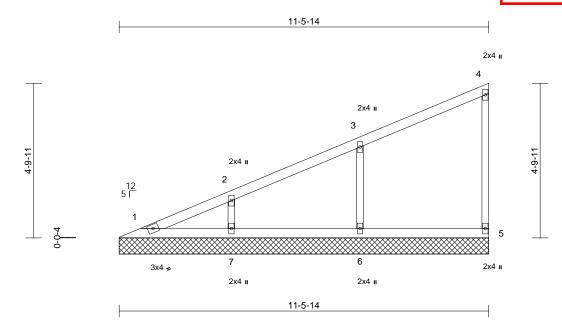
Wheeler Lumber, Waverly, KS - 66871,

LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW

DEVELOPMENT SERVICES 164131375

Run: 8.73 S Feb 22 2024 Print: 8.730 S Feb 22 2024 MiTek Industries, Inc. ri Mar 08 1. ID:ucVfnHrZGsKEnoS0rfvn96zitme-RfC?PsB70Hq3NSgPqnL8w3uITXbGKV



Scal	le	=	1	:35	8.

Loading	(psf)	Spacing	2-0-0	csı		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.20	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.11	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.08	Horiz(TL)	0.00	5	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 33 lb	FT = 10%

LUMBER

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

BRACING

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

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

bracing.

REACTIONS (size) 1=11-5-14, 5=11-5-14, 6=11-5-14,

7=11-5-14 Max Horiz 1=195 (LC 5)

Max Uplift 5=-28 (LC 5), 6=-106 (LC 8), 7=-88

(LC 8)

Max Grav 1=107 (LC 16), 5=141 (LC 1),

6=399 (LC 1), 7=330 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=-162/43, 2-3=-128/53, 3-4=-112/37,

4-5=-109/43

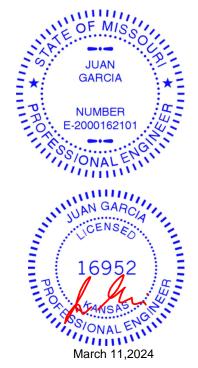
BOT CHORD 1-7=-63/48, 6-7=-63/48, 5-6=-63/48 WEBS 3-6=-312/153, 2-7=-253/131

NOTES

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

- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SPF No.2.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 28 lb uplift at joint 5, 106 lb uplift at joint 6 and 88 lb uplift at joint 7.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard





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

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

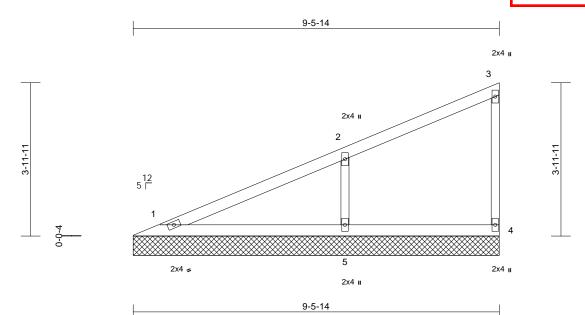


Job Truss Truss Type Qty Ply Lot 123 MN 240614 V3 Valley Job Reference (optiona

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 164131376 LEE'S SUMMIT. MISSOURI

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.73 S Feb 22 2024 Print: 8.730 S Feb 22 2024 MiTek Industries, Inc. ri Mar 08 1. ID:ucVfnHrZGsKEnoS0rfvn96zitme-RfC?PsB70Hq3NSgPqnL8w3uITXbGKV



Scale = 1:29.9

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	0.29	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	0.07	Horiz(TL)	0.00	4	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 26 lb	FT = 10%

LUMBER

2x4 SPF No.2 TOP CHORD **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.

(size) REACTIONS 1=9-5-14, 4=9-5-14, 5=9-5-14

Max Horiz 1=159 (LC 7)

Max Uplift 4=-23 (LC 5), 5=-129 (LC 8)

1=172 (LC 1), 4=122 (LC 1), 5=487 Max Grav

(LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-123/71, 2-3=-106/29, 3-4=-96/39

BOT CHORD 1-5=-51/39. 4-5=-51/39

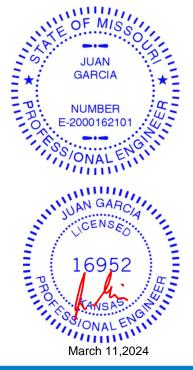
2-5=-370/182 WFBS

NOTES

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SPF No.2.

- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 23 lb uplift at joint 4 and 129 lb uplift at joint 5.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard





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

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



Job Truss Truss Type Qty Ply Lot 123 MN 240614 V4 Valley

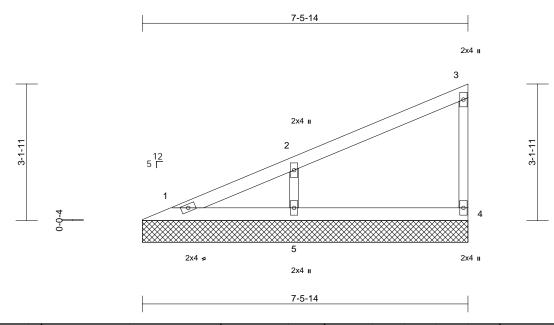
Wheeler Lumber, Waverly, KS - 66871,

LEE'S SUMMIT. MISSOURI Job Reference (optiona

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW

DEVELOPMENT SERVICES 164131377

Run: 8.73 S Feb 22 2024 Print: 8.730 S Feb 22 2024 MiTek Industries, Inc. ri Mar 08 1. ID:ucVfnHrZGsKEnoS0rfvn96zitme-RfC?PsB70Hq3NSgPqnL8w3uITXbGKV



Scale = 1:26.5

Loading	(psf)	Spacing	2-0-0	csı		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.19	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

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

BRACING

TOP CHORD Structural wood sheathing directly applied or

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

bracing.

REACTIONS (size) 1=7-5-14, 4=7-5-14, 5=7-5-14

Max Horiz 1=122 (LC 5)

Max Uplift 4=-26 (LC 8), 5=-102 (LC 8)

1=81 (LC 16), 4=141 (LC 1), 5=384 Max Grav

(LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-99/52, 2-3=-92/32, 3-4=-109/44

BOT CHORD 1-5=-40/30 4-5=-40/30 2-5=-299/153

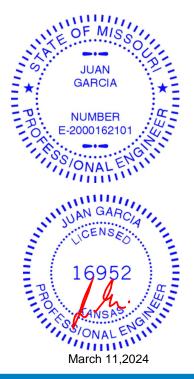
WFBS

NOTES

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SPF No.2.

- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 26 lb uplift at joint 4 and 102 lb uplift at joint 5.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard





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

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



Ply Job Truss Truss Type Qty Lot 123 MN 240614 V5 Valley Job Reference (optiona

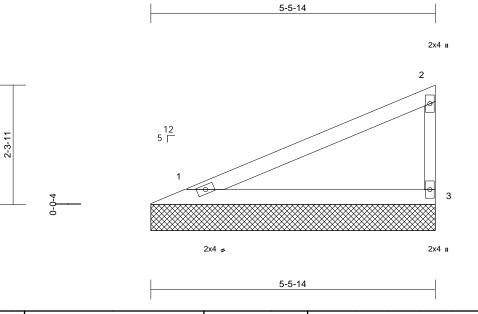
S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 164131378 LEE'S SUMMIT. MISSOURI

2-3-11

RELEASE FOR CONSTRUCTION

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.73 S Feb 22 2024 Print: 8.730 S Feb 22 2024 MiTek Industries, Inc. ri Mar 08 1. ID:ucVfnHrZGsKEnoS0rfvn96zitme-RfC?PsB70Hq3NSgPqnL8w3uITXbGKV CDoi7J



Scale = 1:22.2

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	0.42	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.23	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: 14 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 5-6-8 oc purlins, except end verticals.

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

bracing.

REACTIONS (size) 1=5-5-14, 3=5-5-14

Max Horiz 1=86 (LC 5)

Max Uplift 1=-31 (LC 8), 3=-48 (LC 8) Max Grav 1=211 (LC 1), 3=211 (LC 1) (lb) - Maximum Compression/Maximum

FORCES

Tension

TOP CHORD 1-2=-76/51, 2-3=-164/76 BOT CHORD 1-3=-28/21

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) 1) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable or consult qualified building designer as per ANSI/TPI 1.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 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.
- All bearings are assumed to be SPF No.2 .
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 31 lb uplift at joint 1 and 48 lb uplift at joint 3.

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

LOAD CASE(S) Standard





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

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



Ply Qty Job Truss Truss Type Lot 123 MN 240614 V6 Valley Job Reference (optiona

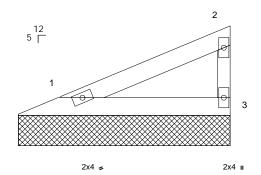
Wheeler Lumber, Waverly, KS - 66871,

LEE'S SUMMIT. MISSOURI Run: 8.73 S Feb 22 2024 Print: 8.730 S Feb 22 2024 MiTek Industries, Inc. ri Mar 08 1. ID:ucVfnHrZGsKEnoS0rfvn96zitme-RfC?PsB70Hq3NSgPqnL8w3uITXbGKV

3-5-14

2x4 II

1-5-11





RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW

DEVELOPMENT SERVICES 164131379

3-5-14

Scale = 1:19

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	0.13	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	0.00	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 2x4 SPF No.2 **BOT CHORD** 2x3 SPF No.2 WEBS

BRACING

TOP CHORD Structural wood sheathing directly applied or 3-6-8 oc purlins, except end verticals.

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

bracing.

REACTIONS (size) 1=3-5-14, 3=3-5-14

Max Horiz 1=49 (LC 7)

Max Uplift 1=-18 (LC 8), 3=-28 (LC 8) Max Grav 1=121 (LC 1), 3=121 (LC 1)

FORCES Tension

(lb) - Maximum Compression/Maximum

TOP CHORD 1-2=-44/29, 2-3=-94/44

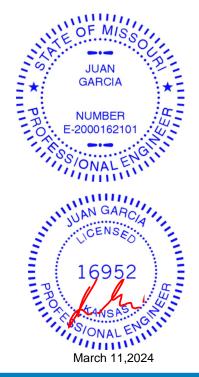
BOT CHORD 1-3=-16/12

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) 1) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable or consult qualified building designer as per ANSI/TPI 1.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 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.
- All bearings are assumed to be SPF No.2 .
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 18 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





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

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



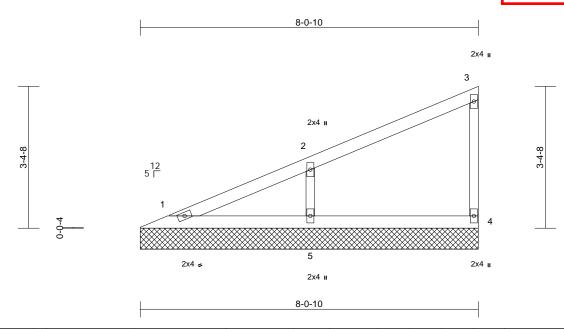
Truss Type Job Truss Qty Ply Lot 123 MN 240614 V10 Valley Job Reference (optiona

S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 164131380 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.73 S Feb 22 2024 Print: 8.730 S Feb 22 2024 MiTek Industries, Inc. ri Mar 08 1. ID:mL0jGGHQ7Y9tgtfmRcSUtDzd_aF-RfC?PsB70Hq3NSgPqnL8w3uITXbGl



Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.21	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.11	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.06	Horiz(TL)	0.00	4	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 21 lb	FT = 10%

LUMBER

2x4 SPF No.2 TOP CHORD **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.

(size) REACTIONS 1=8-0-10, 4=8-0-10, 5=8-0-10

Max Horiz 1=132 (LC 5)

Max Uplift 4=-24 (LC 8), 5=-109 (LC 8)

1=106 (LC 1), 4=137 (LC 1), 5=409 Max Grav

(LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-106/59, 2-3=-95/30, 3-4=-107/42

BOT CHORD 1-5=-43/33 4-5=-43/33

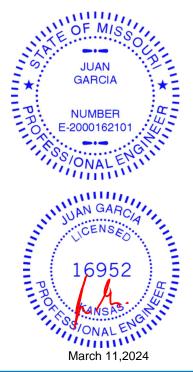
2-5=-318/163 WFBS

NOTES

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SPF No.2.

- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 24 lb uplift at joint 4 and 109 lb uplift at joint 5.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard





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

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



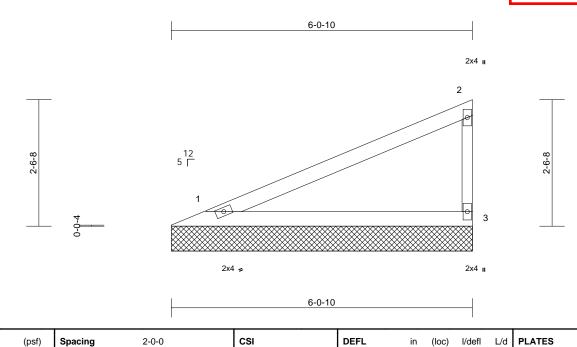
Job Truss Truss Type Qty Ply Lot 123 MN 240614 V11 Valley Job Reference (optiona

S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 164131381 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.73 S Feb 22 2024 Print: 8.730 S Feb 22 2024 MiTek Industries, Inc. F ri Mar 08 1. ID:BwisulJIQTXRXKOL6k0BVrzd_aC-RfC?PsB70Hq3NSgPqnL8w3ulTXbGk WrCDoi7



BCLL BCDL

TCLL (roof)

TCDI

Scale = 1:23.2 Loading

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 6-1-4 oc purlins, except end verticals. **BOT CHORD**

25.0

10.0

10.0

0.0*

Plate Grip DOL

Rep Stress Incr

Lumber DOL

Code

1.15

1 15

YES

IRC2018/TPI2014

Rigid ceiling directly applied or 10-0-0 oc

bracing.

REACTIONS (size) 1=6-0-10, 3=6-0-10

Max Horiz 1=96 (LC 7)

Max Uplift 1=-34 (LC 8), 3=-54 (LC 8) Max Grav 1=236 (LC 1), 3=236 (LC 1) (lb) - Maximum Compression/Maximum

Tension TOP CHORD

1-2=-86/57, 2-3=-184/85

BOT CHORD 1-3=-31/24

NOTES

FORCES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) 1) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 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.
- All bearings are assumed to be SPF No.2 .
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 34 lb uplift at joint 1 and 54 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.

0.53

0.29

0.00

Vert(LL)

Vert(TL)

Horiz(TL)

n/a

n/a

0.00

n/a 999

n/a

n/a n/a

3

999

MT20

Weight: 15 lb

LOAD CASE(S) Standard

TC

BC

WB

Matrix-P



GRIP

197/144

FT = 10%



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

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



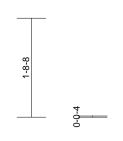
Ply Job Truss Truss Type Qty Lot 123 MN 240614 V12 Valley Job Reference (optiona

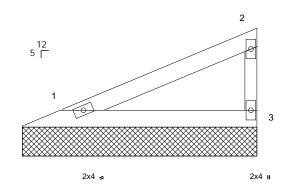
RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 164131382 LEE'S SUMMIT. MISSOURI

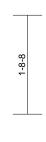
Run: 8.73 S Feb 22 2024 Print: 8.730 S Feb 22 2024 MiTek Industries, Inc. I ri Mar 0 11 ID:7JqcJzKZy4n9neYkE92faGzd_aA-RfC?PsB70Hq3NSgPqnL8w3uITXbGK VrCDoi7

2x4 ı

4-0-10







4-0-10

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	0.19	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	0.00	Horiz(TL)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 10 lb	FT = 10%

LUMBER

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

Wheeler Lumber, Waverly, KS - 66871,

BRACING

TOP CHORD Structural wood sheathing directly applied or 4-1-4 oc purlins, except end verticals.

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

bracing.

REACTIONS (size) 1=4-0-10, 3=4-0-10

Max Horiz 1=60 (LC 5)

Max Uplift 1=-21 (LC 8), 3=-33 (LC 8) Max Grav 1=146 (LC 1), 3=146 (LC 1) (lb) - Maximum Compression/Maximum

FORCES

Tension

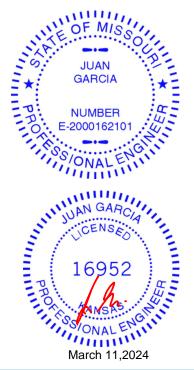
TOP CHORD 1-2=-53/35, 2-3=-114/53 BOT CHORD 1-3=-19/15

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) 1) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable or consult qualified building designer as per ANSI/TPI 1.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SPF No.2 .
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 21 lb uplift at joint 1 and 33 lb uplift at joint 3.

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

LOAD CASE(S) Standard





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

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



Center plate on joint unless x Offsets are indicated. Dimensions are in ft-in-sixtee Apply plates to both sides of and fully embed teeth. ymbols Center plate on joint unless x, y

Apply plates to both sides of truss Dimensions are in ft-in-sixteenths

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

For 4 x 2 orientation, locate

₹

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

* Plate location details available in MiTek software or upon request

PLATE SIZE

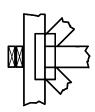
to slots. Second dimension is the length parallel to slots. width measured perpendicular The first dimension is the plate

LATERAL BRACING LOCATION



by text in the bracing section of the output. Use T or I bracing if indicated. Indicated by symbol shown and/or

BEARING



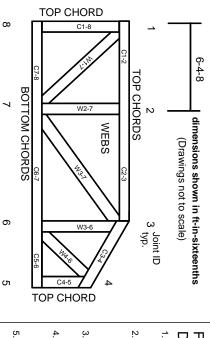
Min size shown is for crushing only number/letter where bearings occur reaction section indicates joint (supports) occur. Icons vary but Indicates location where bearings

Industry Standards:

National Design Specification for Metal Plate Connected Wood Trusses Installing, Restraining & Bracing of Metal Guide to Good Practice for Handling, Building Component Safety Information, Design Standard for Bracing. Plate Connected Wood Truss Construction.

DSB-22: ANSI/TPI1:

Numbering System



JOINTS ARE GENERALLY NUMBERED/LETTERED CLOCKWISE AROUND THE TRUSS STARTING AT THE JOINT FARTHEST TO THE LEFT.

CHORDS AND WEBS ARE IDENTIFIED BY END JOINT NUMBERS/LETTERS.

Product Code Approvals

ICC-ES Reports

ESR-1988, ESR-2362, ESR-2685, ESR-3282 ESR-4722, ESL-1388

Design General Notes

truss unless otherwise shown Trusses are designed for wind loads in the plane of the

established by others section 6.3 These truss designs rely on lumber values Lumber design values are in accordance with ANSI/TPI 1

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MiTek Engineering Reference Sheet: MII-7473 rev. 1/2/2023

General Safety Notes

Damage or Personal Injury Failure to Follow Could Cause Property

- Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI
- Ņ Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves may require bracing, or alternative Tor I bracing should be considered.
- Never exceed the design loading shown and never stack materials on inadequately braced trusses.
- Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
- Cut members to bear tightly against each other

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- Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TPI 1.
- Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI 1.
- Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.

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- 9 Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
- 10. Camber is a non-structural consideration and is the camber for dead load deflection responsibility of truss fabricator. General practice is to
- 11. Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
- Lumber used shall be of the species and size, and in all respects, equal to or better than that
- Top chords must be sheathed or purlins provided at spacing indicated on design.
- Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
- 15. Connections not shown are the responsibility of others
- Do not cut or alter truss member or plate without prior approval of an engineer.
- Install and load vertically unless indicated otherwise.
- Use of green or treated lumber may pose unacceptable project engineer before use. environmental, health or performance risks. Consult with
- Review all portions of this design (front, back, words is not sufficient. and pictures) before use. Reviewing pictures alone
- Design assumes manufacture in accordance with ANSI/TPI 1 Quality Criteria.
- 21. The design does not take into account any dynamic or other loads other than those expressly stated.