



RE: B240133
Lot 173 HM

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

Site Information:

Customer: Summit Homes Project Name: B240133
Lot/Block: 173 Model: Charleston - Modern Prairie
Address: 2774 SW 11th Terr Subdivision: Highland Meadows
City: Lee's Summit State: MO

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 72 individual, dated Truss Design Drawings and 0 Additional Drawings.

No.	Seal#	Truss Name	Date	No.	Seal#	Truss Name	Date
1	I64360222	A1	3/21/2024	21	I64360242	C13	3/21/2024
2	I64360223	A2	3/21/2024	22	I64360243	C14	3/21/2024
3	I64360224	A3	3/21/2024	23	I64360244	C15	3/21/2024
4	I64360225	B1	3/21/2024	24	I64360245	C16	3/21/2024
5	I64360226	B2	3/21/2024	25	I64360246	C17	3/21/2024
6	I64360227	B3	3/21/2024	26	I64360247	D1	3/21/2024
7	I64360228	B4	3/21/2024	27	I64360248	D2	3/21/2024
8	I64360229	B5	3/21/2024	28	I64360249	J1	3/21/2024
9	I64360230	C1	3/21/2024	29	I64360250	J2	3/21/2024
10	I64360231	C2	3/21/2024	30	I64360251	J3	3/21/2024
11	I64360232	C3	3/21/2024	31	I64360252	J4	3/21/2024
12	I64360233	C4	3/21/2024	32	I64360253	J5	3/21/2024
13	I64360234	C5	3/21/2024	33	I64360254	J6	3/21/2024
14	I64360235	C6	3/21/2024	34	I64360255	J7	3/21/2024
15	I64360236	C7	3/21/2024	35	I64360256	J8	3/21/2024
16	I64360237	C8	3/21/2024	36	I64360257	J9	3/21/2024
17	I64360238	C9	3/21/2024	37	I64360258	J10	3/21/2024
18	I64360239	C10	3/21/2024	38	I64360259	J11	3/21/2024
19	I64360240	C11	3/21/2024	39	I64360260	J12	3/21/2024
20	I64360241	C12	3/21/2024	40	I64360261	J13	3/21/2024

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: Nathan Fox

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.





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Site Information:

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Lot/Block: 173 Subdivision: Highland Meadows
Address: 2774 SW 11th Terr
City, County: Lee's Summit State: MO

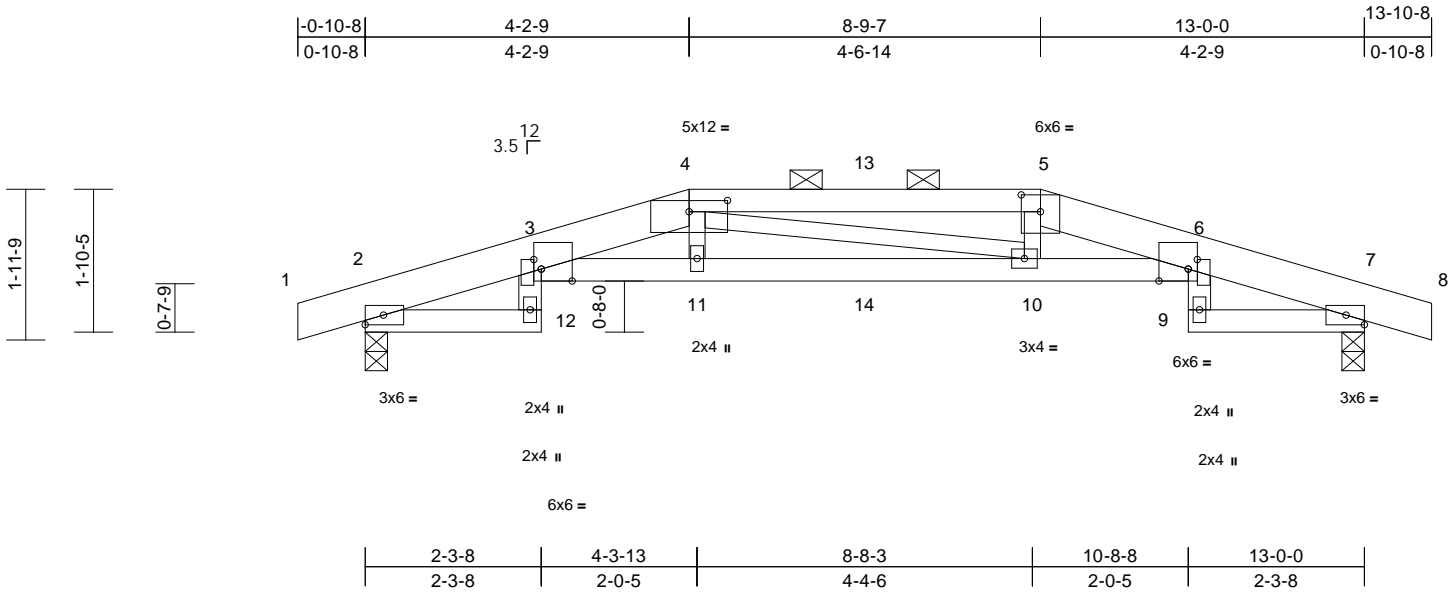
No.	Seal#	Truss Name	Date
41	I64360262	J14	3/21/2024
42	I64360263	J15	3/21/2024
43	I64360264	J16	3/21/2024
44	I64360265	J17	3/21/2024
45	I64360266	J18	3/21/2024
46	I64360267	J19	3/21/2024
47	I64360268	J20	3/21/2024
48	I64360269	J21	3/21/2024
49	I64360270	J22	3/21/2024
50	I64360271	J23	3/21/2024
51	I64360272	J24	3/21/2024
52	I64360273	J25	3/21/2024
53	I64360274	J26	3/21/2024
54	I64360275	J27	3/21/2024
55	I64360276	J28	3/21/2024
56	I64360277	J29	3/21/2024
57	I64360278	J30	3/21/2024
58	I64360279	J31	3/21/2024
59	I64360280	J32	3/21/2024
60	I64360281	J33	3/21/2024
61	I64360282	J34	3/21/2024
62	I64360283	J35	3/21/2024
63	I64360284	J36	3/21/2024
64	I64360285	J37	3/21/2024
65	I64360286	J38	3/21/2024
66	I64360287	J39	3/21/2024
67	I64360288	J40	3/21/2024
68	I64360289	LAY2	3/21/2024
69	I64360290	LAY3	3/21/2024
70	I64360291	V3	3/21/2024
71	I64360292	V4	3/21/2024
72	I64360293	V5	3/21/2024

Job	Truss	Truss Type	Qty	Ply	Lot 173 HM	I64360222
B240133	A1	Hip Girder	1	1	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. Wed Mar 20 09:09:08
ID:cmypGrq7giZqfzVbwI67OrznZlG-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:30									
Plate Offsets (X, Y): [3:0-4-13,Edge], [3:0-1-8,0-1-3], [4:0-6-0,0-1-12], [5:0-3-0,0-2-10], [6:0-4-9,Edge], [6:0-1-8,0-1-7]									
Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in (loc)	l/defl	L/d
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.70	Vert(LL)	-0.20 10-11	>766	360
TCDL	10.0	Lumber DOL	1.15	BC	0.55	Vert(CT)	-0.36 10-11	>429	240
BCLL	0.0*	Rep Stress Incr	NO	WB	0.07	Horz(CT)	0.23 7	n/a	n/a
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.17 10-11	>897	240
								Weight: 51 lb	FT = 10%

LUMBER	
TOP CHORD	2x6 SP 2400F 2.0E *Except* 4-5:2x4 SPF No.2
BOT CHORD	2x4 SPF No.2 *Except* 3-6:2x4 SPF 2100F 1.8E
WEBS	2x3 SPF No.2
BRACING	
TOP CHORD	Structural wood sheathing directly applied or 4-10-3 oc purlins, except 2-0-0 oc purlins (2-9-5 max.): 4-5.
BOT CHORD	Rigid ceiling directly applied or 9-5-0 oc bracing.
REACTIONS (size) 2=0-3-8, 7=0-3-8	
Max Horiz 2=28 (LC 12)	
Max Uplift 2=-236 (LC 4), 7=-236 (LC 5)	
Max Grav 2=905 (LC 1), 7=905 (LC 1)	
FORCES (lb) - Maximum Compression/Maximum Tension	
TOP CHORD	1-2=0/1, 2-3=-360/101, 3-4=-2992/718, 4-5=-3110/738, 5-6=-3080/722, 6-7=-360/97, 7-8=0/1
BOT CHORD	2-12=-1/19, 3-12=0/68, 3-11=-698/3020, 10-11=-694/3025, 6-10=-686/3114, 6-9=0/68, 7-9=-1/19
WEBS	4-11=-14/146, 4-10=-61/193, 5-10=-13/113

- 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 236 lb uplift at joint 2 and 236 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.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 73 lb down and 38 lb up at 4-2-9, and 73 lb down and 37 lb up at 6-6-0, and 73 lb down and 38 lb up at 8-9-7 on top chord, and 181 lb down and 60 lb up at 4-2-9, 37 lb down and 18 lb up at 4-6-0, 37 lb down and 18 lb up at 6-6-0, and 37 lb down and 18 lb up at 8-6-0, and 181 lb down and 60 lb up at 8-9-7 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

- LOAD CASE(S)** Standard
- Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-3=-70, 3-4=-70, 4-5=-70, 5-6=-70, 6-8=-70, 2-12=-20, 3-6=-20, 7-9=-20
Concentrated Loads (lb)
Vert: 4=-17 (B), 5=-17 (B), 11=-218 (B), 10=-218 (B), 13=-17 (B), 14=-37 (B)



March 21, 2024

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

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

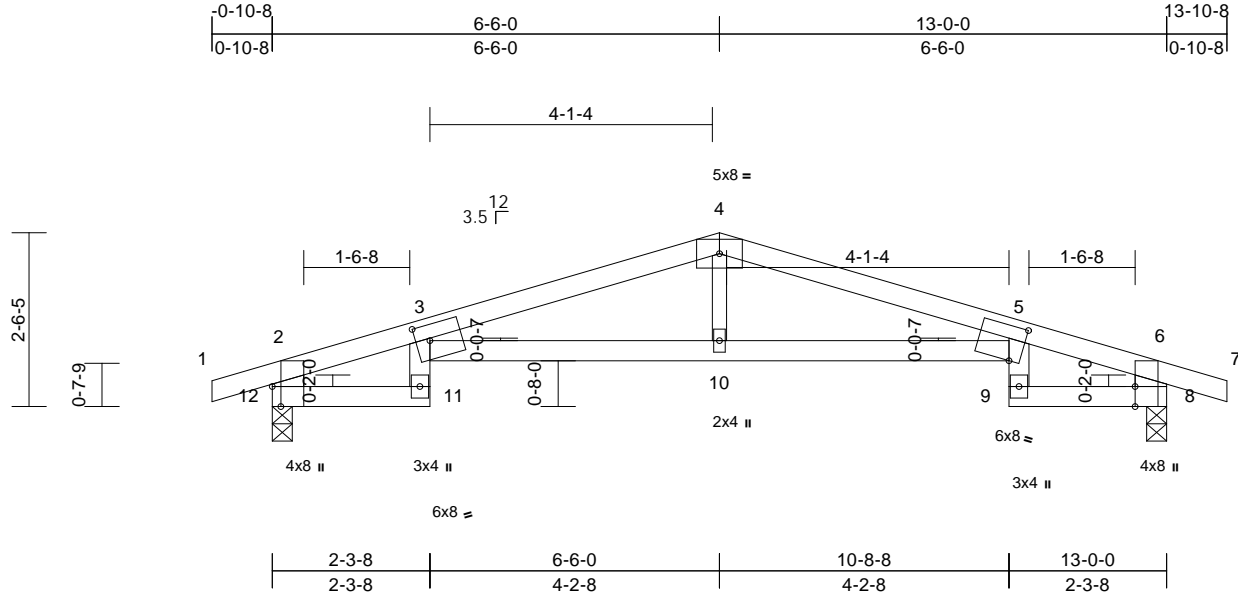
MiTek®
RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
07/11/2024 11:09:04

Job	Truss	Truss Type	Qty	Ply	Lot 173 HM	
B240133	A2	Roof Special	2	1		164360223
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. Wed Mar 20 09:09:09
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Page: 1



Scale = 1:33.5

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

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.89	Vert(LL)	-0.31	3-10	>482	360	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.93	Vert(CT)	-0.57	3-10	>265	240	
BCLL	0.0*	Rep Stress Incr	YES	WB	0.06	Horz(CT)	0.52	8	n/a	n/a	
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R		Wind(LL)	0.22	3-10	>679	240	Weight: 36 lb FT = 10%

LUMBER

TOP CHORD 2x4 SPF 2400F 2.0E
BOT CHORD 2x4 SPF No.2
WEBS 2x6 SPF No.2 *Except* 10-4:2x3 SPF No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.

REACTIONS

(size) 8=0-3-8, 12=0-3-8
Max Horiz 12=24 (LC 8)
Max Uplift 8=130 (LC 5), 12=130 (LC 4)
Max Grav 8=642 (LC 1), 12=642 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/22, 2-3=-231/55, 3-4=-1405/144, 4-5=-1405/155, 5-6=-231/47, 6-7=0/22, 2-12=-709/152, 6-8=-709/148
BOT CHORD 11-12=-7/56, 3-11=-2/106, 3-10=-99/1358, 5-10=-99/1358, 5-9=0/106, 8-9=-3/56
WEBS 4-10=0/194

NOTES

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

- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 130 lb uplift at joint 12 and 130 lb uplift at joint 8.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



March 21, 2024

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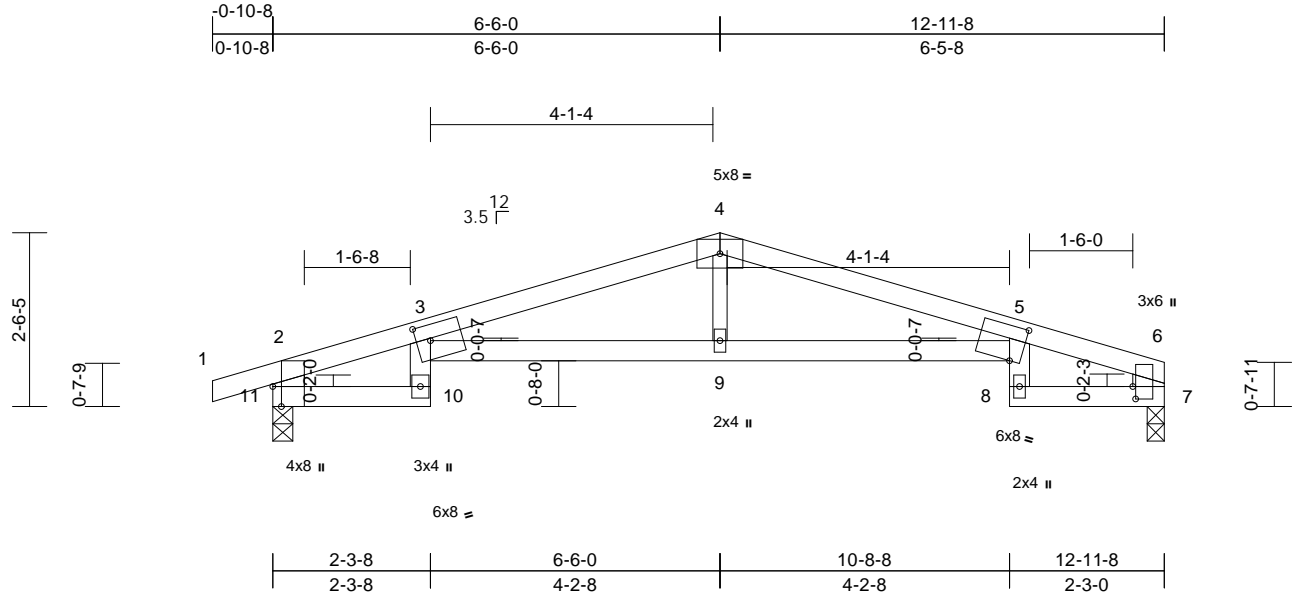
MiTek®
RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
07/11/2024 11:09:04

Job	Truss	Truss Type	Qty	Ply	Lot 173 HM	
B240133	A3	Roof Special	2	1	Job Reference (optional)	I64360224

Wheeler Lumber, Waverly, KS - 66871,

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Page: 1



Scale = 1:33.5

Plate Offsets (X, Y): [3:0-2-7,0-2-12], [5:0-1-13,0-6-0], [6:0-2-3,0-0-8], [11:0-3-8,Edge]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.90	Vert(LL)	-0.32	5-9	>475	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.94	Vert(CT)	-0.57	5-9	>264	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.06	Horz(CT)	0.53	7	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R		Wind(LL)	0.23	5-9	>665	240	Weight: 35 lb	FT = 10%

LUMBER

TOP CHORD 2x4 SPF 2400F 2.0E
BOT CHORD 2x4 SPF No.2
WEBS 2x6 SPF No.2 *Except* 9-4:2x3 SPF No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.

REACTIONS

(size) 7=0-3-0, 11=0-3-8
Max Horiz 11=30 (LC 8)
Max Uplift 7=81 (LC 5), 11=130 (LC 4)
Max Grav 7=559 (LC 1), 11=643 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/22, 2-3=-231/41, 3-4=-1413/161,
4-5=-1413/160, 5-6=-222/35, 6-7=-620/105,
2-11=-711/153

BOT CHORD 10-11=-7/56, 3-10=-4/106, 3-9=-111/1366,
5-9=-111/1366, 5-8=-2/99, 7-8=-6/51

WEBS 4-9=0/194

NOTES

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

- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 130 lb uplift at joint 11 and 81 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



March 21, 2024

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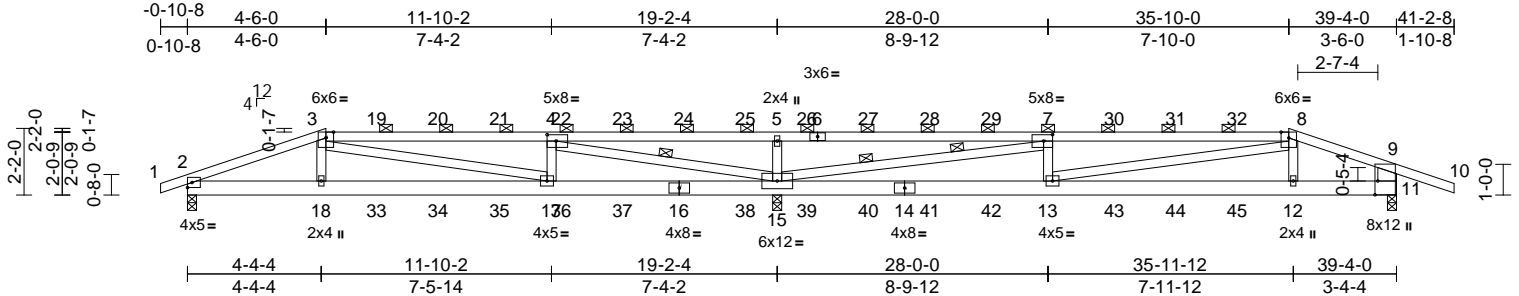
Job	Truss	Truss Type	Qty	Ply	Lot 173 HM	
B240133	B1	Hip Girder	1	1	Job Reference (optional)	I64360225

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.73 S Feb 22 2024 Print: 8.730 S Feb 22 2024 MiTek Industries, Inc. Wed Mar 20 09:09:10

Page: 1

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Scale = 1:75

Plate Offsets (X, Y): [4:0-3-8,0-2-8], [7:0-3-8,0-2-8], [11:0-5-6,0-1-2]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.78	Vert(LL)	-0.20	12-13	>999	360	MT20
TCDL	10.0	Lumber DOL	1.15	BC	0.94	Vert(CT)	-0.39	12-13	>606	240	197/144
BCLL	0.0*	Rep Stress Incr	NO	WB	0.97	Horz(CT)	0.07	11	n/a	n/a	
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.20	12-13	>999	240	Weight: 164 lb FT = 10%

LUMBER

TOP CHORD 2x4 SPF No.2 *Except* 3-6,6-8:2x4 SPF 2100F 1.8E
BOT CHORD 2x6 SPF No.2
WEBS 2x4 SPF No.2 *Except* 11-9:2x8 SP 2400F 2.0E

BRACING

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

WEBS 1 Row at midpt 4-15
WEBS 2 Rows at 1/3 pts 7-15

REACTIONS (size) 2=0-3-8, 11=0-3-8, 15=0-3-8
Max Horiz 2=-20 (LC 5)
Max Uplift 2=-243 (LC 4), 11=-310 (LC 5), 15=-519 (LC 4)
Max Grav 2=884 (LC 21), 11=1017 (LC 22), 15=2221 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/1, 2-3=-1872/450, 3-4=-1585/408, 4-5=-277/1253, 5-7=-277/1253, 7-8=-2062/501, 8-9=-1343/311, 9-10=0/48, 9-11=-711/233

BOT CHORD 2-18=-389/1700, 17-18=-390/1677, 15-17=-350/1585, 13-15=-441/2062, 12-13=-256/1242, 11-12=-248/1234

WEBS 3-18=0/364, 3-17=-117/63, 4-17=0/310, 4-15=-2896/701, 5-15=-643/303, 7-15=-3360/792, 7-13=-47/263, 8-13=-198/853, 8-12=-86/156

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 243 lb uplift at joint 2, 519 lb uplift at joint 15 and 310 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.

- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 70 lb down and 46 lb up at 6-2-0, 70 lb down and 46 lb up at 8-2-0, 70 lb down and 46 lb up at 10-2-0, 70 lb down and 46 lb up at 12-2-0, 70 lb down and 46 lb up at 14-2-0, 70 lb down and 46 lb up at 16-2-0, 70 lb down and 46 lb up at 18-2-0, 70 lb down and 46 lb up at 20-2-0, 70 lb down and 46 lb up at 22-2-0, 70 lb down and 46 lb up at 24-2-0, 70 lb down and 46 lb up at 26-2-0, 70 lb down and 46 lb up at 28-2-0, 70 lb down and 46 lb up at 30-2-0, and 70 lb down and 46 lb up at 32-2-0, and 70 lb down and 46 lb up at 34-2-0 on top chord, and 140 lb down and 63 lb up at 4-6-0, 20 lb down at 6-2-0, 20 lb down at 8-2-0, 20 lb down at 10-2-0, 20 lb down at 12-2-0, 20 lb down at 14-2-0, 20 lb down at 16-2-0, 20 lb down at 18-2-0, 20 lb down at 20-2-0, 20 lb down at 22-2-0, 20 lb down at 24-2-0, 20 lb down at 26-2-0, 20 lb down at 28-2-0, 20 lb down at 30-2-0, 20 lb down at 32-2-0, and 20 lb down at 34-2-0, and 139 lb down and 57 lb up at 35-10-0 on bottom chord. The design/selection of such connection device (s) is the responsibility of others.



March 21, 2024

Continued on page 2

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Job	Truss	Truss Type	Qty	Ply	Lot 173 HM
B240133	B1	Hip Girder	1	1	I64360225
Job Reference (optional)					

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

LOAD CASE(S) Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.15,
Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-3=-70, 3-8=-70, 8-9=-70, 9-10=-70, 2-11=-20
Concentrated Loads (lb)
Vert: 16=-4 (B), 18=-95 (B), 7=-10 (B), 13=-4 (B),
12=-80 (B), 19=-10 (B), 20=-10 (B), 21=-10 (B),
22=-10 (B), 23=-10 (B), 24=-10 (B), 25=-10 (B),
26=-10 (B), 27=-10 (B), 28=-10 (B), 29=-10 (B),
30=-10 (B), 31=-10 (B), 32=-10 (B), 33=-4 (B), 34=-4 (B),
35=-4 (B), 36=-4 (B), 37=-4 (B), 38=-4 (B), 39=-4 (B),
40=-4 (B), 41=-4 (B), 42=-4 (B), 43=-4 (B), 44=-4 (B),
45=-4 (B)

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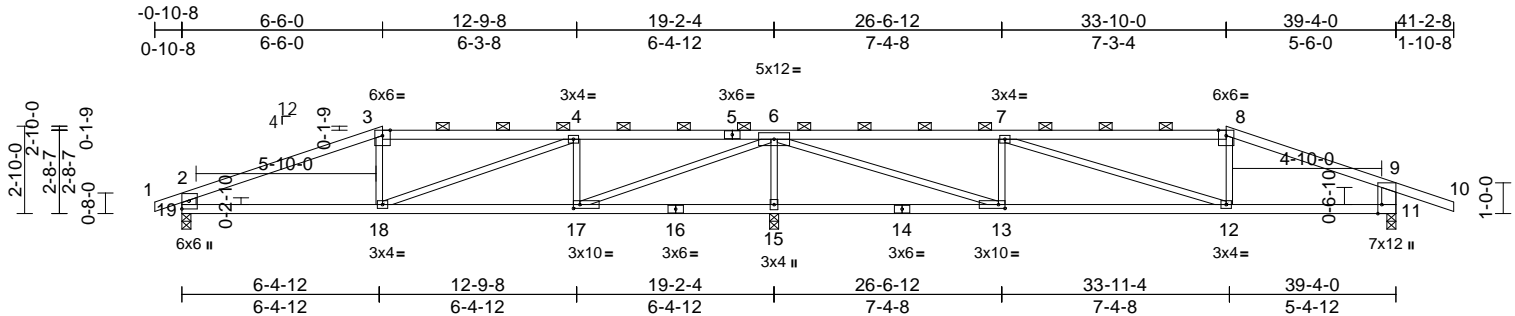
Job	Truss	Truss Type	Qty	Ply	Lot 173 HM	
B240133	B2	Hip	1	1	Job Reference (optional)	I64360226

Wheeler Lumber, Waverly, KS - 66871,

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Scale = 1:74.6

Plate Offsets (X, Y): [11:0-3-8,Edge], [13:0-2-8,0-1-8], [17:0-2-8,0-1-8]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.72	Vert(LL)	-0.20	12-13	>999	360	MT20 197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.79	Vert(CT)	-0.39	12-13	>605	240	
BCLL	0.0*	Rep Stress Incr	YES	WB	0.84	Horz(CT)	0.00	11	n/a	n/a	
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.16	12-13	>999	240	Weight: 127 lb FT = 10%

LUMBER

TOP CHORD 2x4 SPF 2100F 1.8E *Except* 3-5,5-8:2x4
SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x3 SPF No.2 *Except* 11-9,19-2:2x6 SP
2400F 2.0E

BRACING

TOP CHORD Structural wood sheathing directly applied or
5-8-7 oc purlins, except end verticals, and
2-0-0 oc purlins (4-3-12 max.): 3-8.
BOT CHORD Rigid ceiling directly applied or 4-6-13 oc
bracing.

REACTIONS

(size) 11=0-3-8, 15=0-3-8, 19=0-3-8
Max Horiz 19=23 (LC 8)
Max Uplift 11=231 (LC 5), 15=370 (LC 4),
19=178 (LC 4)
Max Grav 11=848 (LC 22), 15=2156 (LC 1),
19=728 (LC 21)

FORCES

(lb) - Maximum Compression/Maximum
Tension
TOP CHORD 1-2=0/24, 2-3=-1108/227, 3-4=-981/246,
4-6=-541/197, 6-7=-830/237, 7-8=-937/214,
8-9=-1072/202, 9-10=0/47, 9-11=-742/245,
2-19=-659/213
BOT CHORD 18-19=-164/977, 17-18=-120/541,
15-17=-1490/256, 13-15=-1490/256,
12-13=-150/830, 11-12=-117/935
WEBS 3-18=-55/123, 4-18=-51/495, 4-17=-635/207,
6-17=-365/2121, 6-15=-1996/448,
6-13=-422/2441, 7-13=-601/223,
7-12=-8/124, 8-12=0/176

NOTES

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

- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust)
Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat.
II; Exp C; Enclosed; MWFRS (envelope) exterior zone;
cantilever left and right exposed; end vertical left and
right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) 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.
- 5) * This truss has been designed for a live load of 20.0psf
on the bottom chord in all areas where a rectangle
3-06-00 tall by 2-00-00 wide will fit between the bottom
chord and any other members.
- 6) All bearings are assumed to be SPF No.2 .
- 7) Provide mechanical connection (by others) of truss to
bearing plate capable of withstanding 178 lb uplift at joint
19, 370 lb uplift at joint 15 and 231 lb uplift at joint 11.
- 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.
- 9) Graphical purlin representation does not depict the size
or the orientation of the purlin along the top and/or
bottom chord.

LOAD CASE(S) Standard



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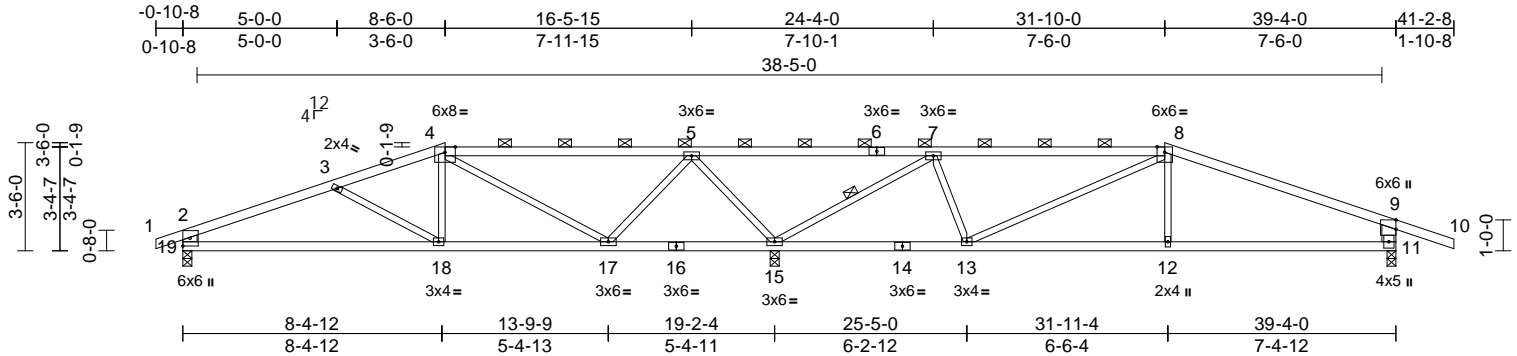
Job	Truss	Truss Type	Qty	Ply	Lot 173 HM	
B240133	B3	Hip	1	1	Job Reference (optional)	I64360227

Wheeler Lumber, Waverly, KS - 66871,

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Scale = 1:74.7

Plate Offsets (X, Y): [9:0-3-11,Edge]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.97	Vert(LL)	-0.11	18-19	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.48	Vert(CT)	-0.23	18-19	>971	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.96	Horz(CT)	0.02	11	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.07	12-13	>999	240	Weight: 128 lb	FT = 10%

LUMBER

TOP CHORD 2x4 SPF No.2 *Except* 4-6,6-8:2x4 SPF 2100F 1.8E
BOT CHORD 2x4 SPF No.2 *Except* 16-14:2x4 SPF 2100F 1.8E
WEBS 2x3 SPF No.2 *Except* 11-9,19-2:2x6 SPF No.2

BRACING

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

WEBS 1 Row at midpt 7-15

REACTIONS (size) 11=0-3-8, 15=0-3-8, 19=0-3-8
Max Horiz 19=34 (LC 12)
Max Uplift 11=223 (LC 5), 15=388 (LC 4), 19=164 (LC 4)
Max Grav 11=792 (LC 22), 15=2325 (LC 1), 19=644 (LC 21)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/24, 2-3=-895/239, 3-4=-622/165, 4-5=0/336, 5-7=-225/1840, 7-8=-132/136, 8-9=-866/184, 9-10=0/47, 9-11=-700/261, 2-19=-558/207
BOT CHORD 18-19=-196/783, 17-18=-82/565, 15-17=-808/107, 13-15=-191/16, 12-13=-87/728, 11-12=-84/731
WEBS 3-18=-246/150, 4-18=0/336, 4-17=-968/158, 5-17=-39/776, 5-15=-1568/365, 7-15=-1977/386, 7-13=0/498, 8-13=-732/99, 8-12=0/269

NOTES

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

- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) 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.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 6) Bearings are assumed to be: Joint 19 SPF No.2, Joint 15 SPF 2100F 1.8E, Joint 11 SPF No.2.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 164 lb uplift at joint 19, 388 lb uplift at joint 15 and 223 lb uplift at joint 11.
- 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.
- 9) 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

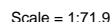


March 21,2024

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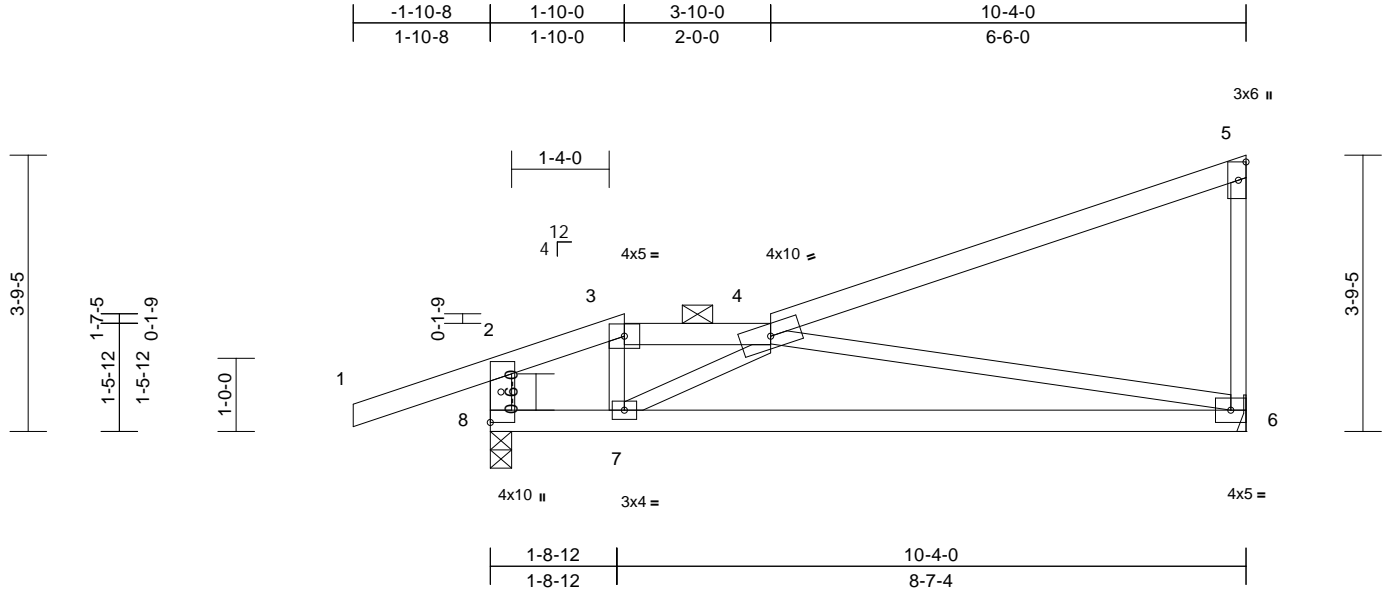
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Job	Truss	Truss Type	Qty	Ply	Lot 173 HM	
B240133	B5	Roof Special Girder	1	1	Job Reference (optional)	I64360229

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Scale = 1:31.5

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	0.67	Vert(LL)	-0.17	6-7	>714	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.67	Vert(CT)	-0.35	6-7	>341	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.92	Horz(CT)	0.01	6	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.04	6-7	>999	240	Weight: 38 lb	FT = 10%

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

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

REACTIONS (size) 6= Mechanical, 8=0-3-8
Max Horiz 8=164 (LC 5)
Max Uplift 6=-94 (LC 8), 8=-179 (LC 4)
Max Grav 6=440 (LC 1), 8=612 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/45, 2-3=-503/3, 3-4=-399/8, 4-5=-146/31, 5-6=-203/91, 2-8=-543/130
BOT CHORD 7-8=-70/426, 6-7=-221/866
WEBS 3-7=0/350, 4-7=-578/244, 4-6=-842/254

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust)
Vasd=91mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in 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 94 lb uplift at joint 6 and 179 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.
 - Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 55 lb down and 34 lb up at 1-10-0 on top chord, and 64 lb down and 33 lb up at 1-10-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
 - In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).
- LOAD CASE(S)** Standard
- Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-2=-70, 2-3=-70, 3-4=-70, 4-5=-70, 6-8=-20
Concentrated Loads (lb)
Vert: 7=-3 (F)



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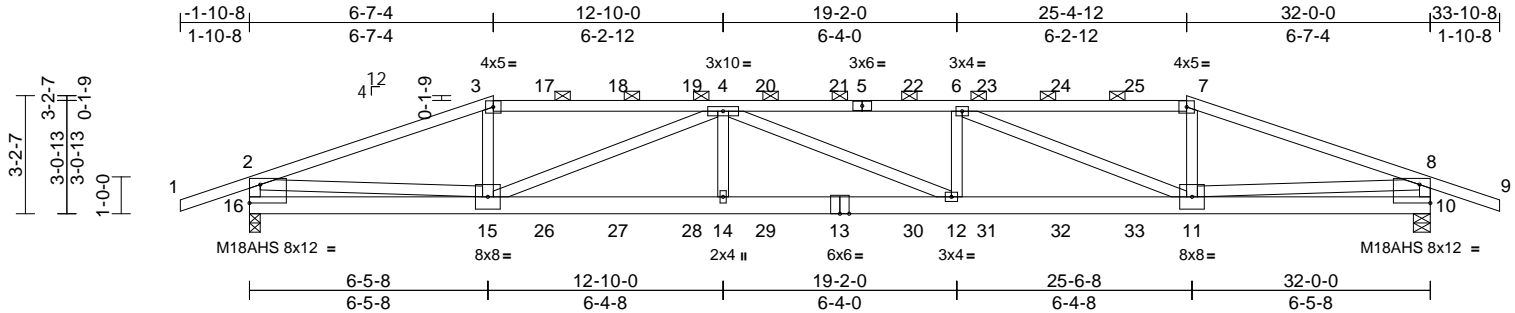
Job	Truss	Truss Type	Qty	Ply	Lot 173 HM	I64360230
B240133	C1	Hip Girder	1	2	Job Reference (optional)	

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Scale = 1:62.4

Plate Offsets (X, Y): [10:Edge,0-6-0], [16:Edge,0-6-0]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.98	Vert(LL)	-0.31	12-14	>999	360	MT20 197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.92	Vert(CT)	-0.56	12-14	>674	240	M18AHS 142/136
BCLL	0.0*	Rep Stress Incr	NO	WB	0.60	Horz(CT)	0.09	10	n/a	n/a	
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.27	12-14	>999	240	Weight: 294 lb FT = 10%

LUMBER	
TOP CHORD	2x4 SPF No.2 *Except* 5-7:2x4 SPF 2100F 1.8E
BOT CHORD	2x6 SPF No.2
WEBS	2x4 SPF No.2
BRACING	
TOP CHORD	Structural wood sheathing directly applied or 4-3-6 oc purlins, except end verticals, and 2-0-0 oc purlins (3-4-5 max.): 3-7.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
REACTIONS (size) 10=0-5-8, 16=0-3-8	
	Max Horiz 16=26 (LC 9)
	Max Uplift 10=650 (LC 5), 16=650 (LC 4)
	Max Grav 10=2844 (LC 1), 16=2844 (LC 1)
FORCES (lb) - Maximum Compression/Maximum Tension	
TOP CHORD	1-2=0/45, 2-3=-5945/1227, 3-4=-5513/1187, 4-6=-8439/1778, 6-7=-5522/1188, 7-8=-5955/1229, 8-9=0/45, 2-16=-2713/662, 8-10=-2719/663
BOT CHORD	15-16=-212/821, 14-15=-1698/8465, 12-14=-1698/8465, 11-12=-1676/8439, 10-11=-188/818
WEBS	3-15=-172/1389, 4-15=-3297/694, 4-14=0/531, 4-12=-98/43, 6-12=0/520, 6-11=-3263/687, 7-11=-174/1394, 2-15=-936/4784, 8-11=-935/4796

NOTES

- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
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.
- 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 650 lb uplift at joint 16 and 650 lb uplift at joint 10.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 146 lb down and 85 lb up at 8-0-0, 146 lb down and 85 lb up at 10-0-0, 146 lb down and 85 lb up at 12-0-0, 146 lb down and 85 lb up at 14-0-0, 146 lb down and 85 lb up at 16-0-0, 146 lb down and 85 lb up at 18-0-0, 146 lb down and 85 lb up at 20-0-0, and 146 lb down and 85 lb up at 22-0-0, and 146 lb down and 85 lb up at 24-0-0 on top chord, and 486 lb down and 133 lb up at 6-7-4, 79 lb down at 8-0-0, 79 lb down at 10-0-0, 79 lb down at 12-0-0, 79 lb down at 14-0-0, 79 lb down at 16-0-0, 79 lb down at 18-0-0, 79 lb down at 20-0-0, 79 lb down at 22-0-0, and 79 lb down at 24-0-0, and 486 lb down and 133 lb up at 25-4-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S)

- Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-2=-70, 2-3=-70, 3-7=-70, 7-8=-70, 8-9=-70, 10-16=-20
Concentrated Loads (lb)



March 21, 2024

Continued on page 2

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

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Job	Truss	Truss Type	Qty	Ply	Lot 173 HM
B240133	C1	Hip Girder	1	2	I64360230
Job Reference (optional)					

Vert: 13=-52 (F), 15=-486 (F), 11=-486 (F), 17=-123 (F), 18=-123 (F), 19=-123 (F), 20=-123 (F), 21=-123 (F), 22=-123 (F), 23=-123 (F), 24=-123 (F), 25=-123 (F), 26=-52 (F), 27=-52 (F), 28=-52 (F), 29=-52 (F), 30=-52 (F), 31=-52 (F), 32=-52 (F), 33=-52 (F)

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

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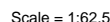


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16023 Swingley Ridge Rd
Potosi, MO 63003
816-424-0200 / MiTek-USA.com

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Wheeler Lumber, Waverly, KS - 66871, Run: 8.73 S Feb 22 2024 Print: 8.730 S Feb 22 2024 MiTek Industries, Inc. Wed Mar 20 09:09:11 Page: 1
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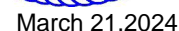


NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust)
Vasd=91mph; TC DL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate gird DOL=1.60
- 3) 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.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 6) All bearings are assumed to be SPF No.2 .
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 337 lb uplift at joint 15 and 337 lb uplift at joint 10.
- 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.
- 9) 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.

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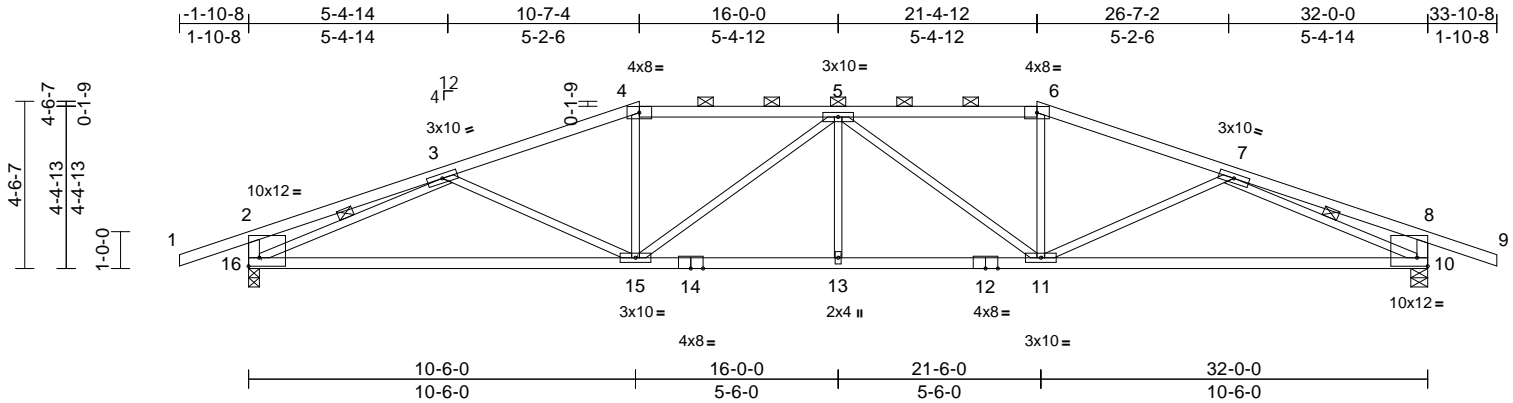
Job	Truss	Truss Type	Qty	Ply	Lot 173 HM	164360232
B240133	C3	Hip	1	1	Job Reference (optional)	

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Scale = 1:62.5

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

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.59	Vert(LL)	-0.25	15-16	>999	360	MT20 197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.68	Vert(CT)	-0.54	15-16	>704	240	
BCLL	0.0*	Rep Stress Incr	YES	WB	0.81	Horz(CT)	0.11	10	n/a	n/a	
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.15	13-15	>999	240	Weight: 119 lb FT = 10%

LUMBER

TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF 2100F 1.8E *Except* 14-12:2x4 SPF No.2
WEBS 2x3 SPF No.2 *Except* 16-2,10-8:2x4 SPF No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or 2-10-9 oc purlins, except end verticals, and 2-0-0 oc purlins (3-4-14 max.): 4-6.
BOT CHORD Rigid ceiling directly applied or 9-5-1 oc bracing.

WEBS 1 Row at midpt 3-16, 7-10

REACTIONS (size) 10=0-5-8, 16=0-3-8
Max Horiz 16=47 (LC 12)
Max Uplift 10=328 (LC 5), 16=328 (LC 4)
Max Grav 10=1568 (LC 1), 16=1568 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/45, 2-3=403/20, 3-4=2603/433, 4-5=2413/436, 5-6=2413/435, 6-7=2603/433, 7-8=403/20, 8-9=0/45, 2-16=447/159, 8-10=447/159

BOT CHORD 15-16=438/2427, 13-15=382/2759, 11-13=382/2759, 10-11=401/2427

WEBS 3-15=47/243, 4-15=7/451, 5-15=578/171, 5-13=0/97, 5-11=578/171, 6-11=7/451, 7-11=47/243, 3-16=2350/521, 7-10=2350/521

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 2100F 1.8E .
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 328 lb uplift at joint 16 and 328 lb uplift at joint 10.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard



March 21,2024

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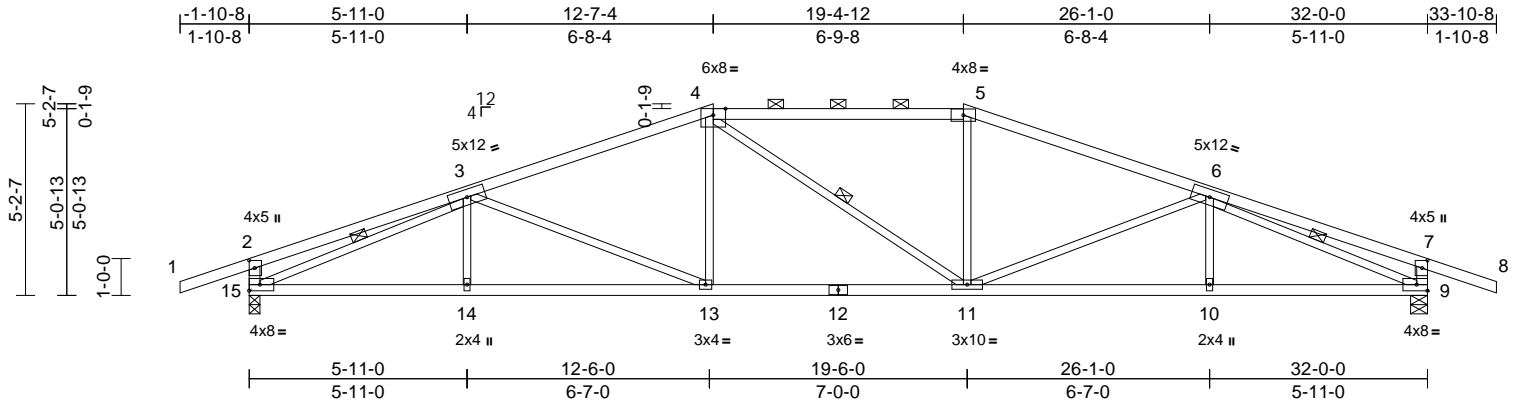
Job	Truss	Truss Type	Qty	Ply	Lot 173 HM	164360233
B240133	C4	Hip	1	1	Job Reference (optional)	

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.73 S Feb 22 2024 Print: 8.730 S Feb 22 2024 MiTek Industries, Inc. Wed Mar 20 09:09:11

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Scale = 1:62.6

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.93	Vert(LL)	-0.18	13-14	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.75	Vert(CT)	-0.36	11-13	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.96	Horz(CT)	0.13	9	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.14	13-14	>999	240	Weight: 119 lb	FT = 10%

LUMBER

TOP CHORD 2x4 SPF No.2 *Except* 4-5:2x4 SPF 2100F 1.8E
BOT CHORD 2x4 SPF No.2
WEBS 2x3 SPF No.2 *Except* 15-2,9-7:2x4 SPF No.2

BRACING

TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (4-4-1 max.): 4-5.
BOT CHORD Rigid ceiling directly applied or 9-5-5 oc bracing.
WEBS 1 Row at midpt 4-11, 3-15, 6-9

REACTIONS

(size) 9=0-5-8, 15=0-3-8
Max Horiz 15=59 (LC 9)
Max Uplift 9=318 (LC 5), 15=318 (LC 4)
Max Grav 9=1568 (LC 1), 15=1568 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/45, 2-3=388/87, 3-4=2445/404, 4-5=2251/416, 5-6=2446/404, 6-7=388/87, 7-8=0/45, 2-15=457/186, 7-9=457/185
BOT CHORD 14-15=386/2547, 13-14=386/2547, 11-13=271/2250, 10-11=340/2546, 9-10=340/2546
WEBS 3-14=0/240, 3-13=369/175, 4-13=0/357, 4-11=225/226, 5-11=0/357, 6-11=368/176, 6-10=0/239, 3-15=2472/378, 6-9=2471/379

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 318 lb uplift at joint 15 and 318 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.

LOAD CASE(S) Standard



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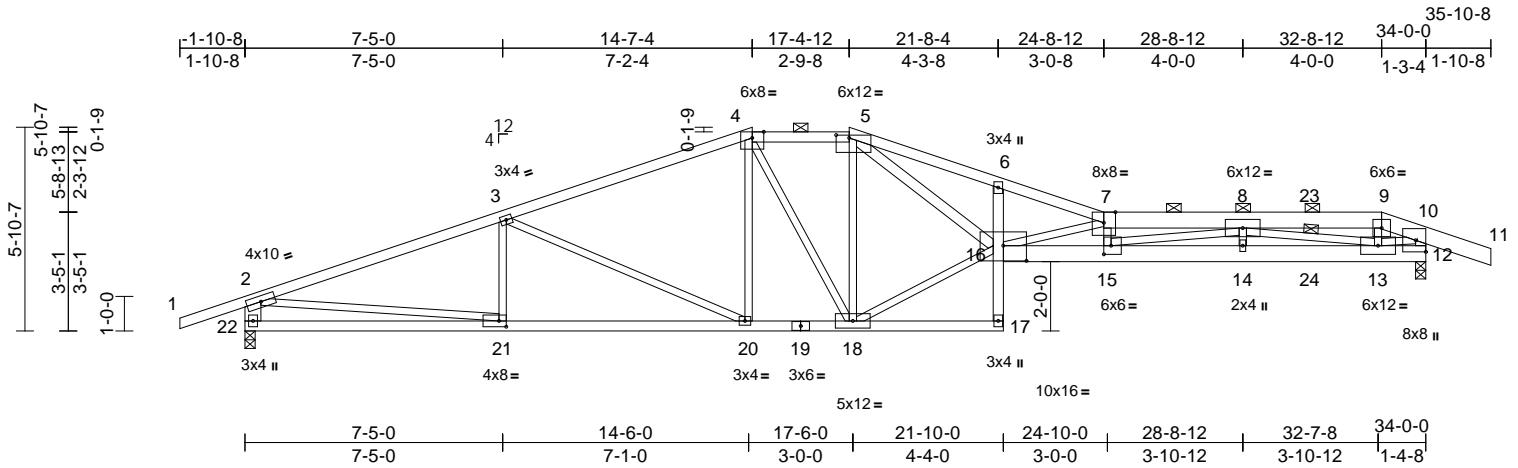
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Job	Truss	Truss Type	Qty	Ply	Lot 173 HM	I64360234
B240133	C5	Roof Special Girder	1	1	Job Reference (optional)	

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.73 S Feb 22 2024 Print: 8.730 S Feb 22 2024 MiTek Industries, Inc. Wed Mar 20 09:11
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Page: 1



Scale = 1:66.3

Plate Offsets (X, Y): [5:0-4-8,0-1-0], [15:0-2-8,0-3-0], [16:0-8-0,0-5-4], [21:0-2-8,0-2-0]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.61	Vert(LL)	-0.62	15-16	>653	360	MT20
TCDL	10.0	Lumber DOL	1.15	BC	0.84	Vert(CT)	-1.09	15-16	>370	240	197/144
BCLL	0.0*	Rep Stress Incr	NO	WB	1.00	Horz(CT)	0.21	12	n/a	n/a	
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.43	15-16	>936	240	Weight: 163 lb FT = 10%

LUMBER	
TOP CHORD	2x4 SPF 2100F 1.8E *Except* 4-5:2x4 SPF No.2, 7-9:2x6 SP 2400F 2.0E, 9-11:2x6 SPF No.2
BOT CHORD	2x4 SPF No.2 *Except* 16-12:2x6 SP 2400F 2.0E
WEBS	2x3 SPF No.2 *Except* 16-5,12-10:2x4 SPF No.2, 22-2:2x6 SPF No.2

WEBS	
3-21=	114/136, 3-20=619/210, 4-20=23/370, 4-18=217/247, 5-18=1036/213, 16-18=256/2345, 5-16=628/4081, 7-16=3040/473, 7-15=956/199, 8-14=0/146, 9-13=84/435, 2-21=287/2309, 10-13=298/2010, 8-15=445/2792, 8-13=3716/561

10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 71 lb down and 127 lb up at 29-0-0, and 71 lb down and 127 lb up at 30-8-0, and 71 lb down and 127 lb up at 32-8-12 on top chord, and 16 lb down and 23 lb up at 29-0-0, and 16 lb down and 23 lb up at 30-8-0, and 103 lb down and 177 lb up at 32-8-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

BRACING	
TOP CHORD	Structural wood sheathing directly applied or 2-9-5 oc purlins, except end verticals, and 2-0-0 oc purlins (3-3-0 max.): 4-5, 7-9.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 8-11-13 oc bracing: 20-21 9-5-12 oc bracing: 15-16.
WEBS	1 Row at midpt 8-13

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.
- Bearings are assumed to be: Joint 22 SPF No.2, Joint 12 SP 2400F 2.0E.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 313 lb uplift at joint 22 and 354 lb uplift at joint 12.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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

LOAD CASE(S) Standard

- Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-2=-70, 2-4=-70, 4-5=-70, 5-7=-70, 7-9=-70, 9-10=-70, 10-11=-70, 17-22=-20, 12-16=-20
Concentrated Loads (lb)
Vert: 9=30 (F), 8=30 (F), 13=52 (F), 23=30 (F)

REACTIONS	(size) 12=0-3-8, 22=0-3-8 Max Horiz 22=117 (LC 8) Max Uplift 12=354 (LC 5), 22=313 (LC 4) Max Grav 12=1524 (LC 1), 22=1651 (LC 1)
FORCES	(lb) - Maximum Compression/Maximum Tension
TOP CHORD	1-2=0/47, 2-3=-2962/420, 3-4=-2449/358, 4-5=-2261/391, 5-6=-5737/901, 6-7=-5864/857, 7-8=-8373/1226, 8-9=-2170/338, 9-10=-2248/356, 10-11=0/45, 2-22=-1572/350, 10-12=-1738/385
BOT CHORD	21-22=-185/434, 20-21=-424/2730, 18-20=-264/2242, 17-18=-14/143, 16-17=0/87, 6-16=-237/140, 15-16=-1196/8444, 14-15=-839/5776, 13-14=-839/5776, 12-13=-31/304



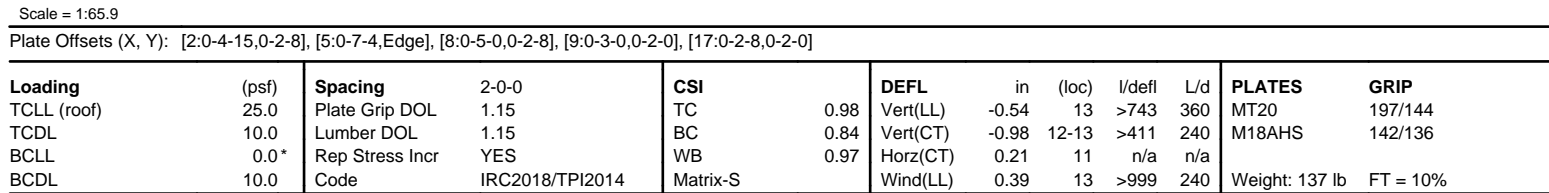
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Wheeler Lumber, Waverly, KS - 66871, Run: 8.73 S Feb 22 2024 Print: 8.730 S Feb 22 2024 MiTek Industries, Inc. Wed Mar 20 09:09:12 Page: 1
ID:CL9JTJ7yj9fxlggJ5Mgtpz4SeZ-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f



- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust)
Vasd=91mph; CTDCL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) All plates are MT20 plates unless otherwise indicated.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 7) Bearings are assumed to be: Joint 18 SPF No.2 , Joint 11 SPF 2100F 1.8E .
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 297 lb uplift at joint 18 and 318 lb uplift at joint 11.
- 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

STATE OF MISSOURI
NATHANIEL
FOX
NUMBER
PE-2022042259
PROFESSIONAL ENGINEER

March 21, 2024

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

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TP1 Quality Criteria, and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Components Association (www.sbcscomponents.com)

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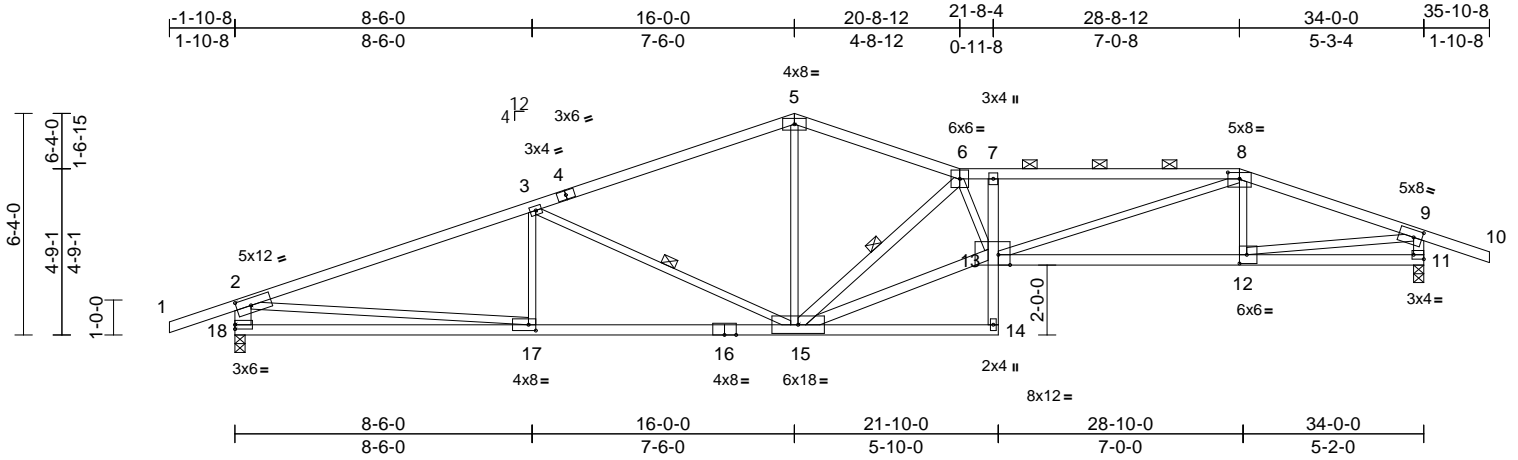
Job	Truss	Truss Type	Qty	Ply	Lot 173 HM	I64360236
B240133	C7	Roof Special	1	1	Job Reference (optional)	

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.73 S Feb 22 2024 Print: 8.730 S Feb 22 2024 MiTek Industries, Inc. Wed Mar 20 09:09:12

Page: 1

ID:CL9JTTjyt9fxlggJ5Mgtpz4SeZ-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrcDoi7J4zJC?f



Scale = 1:65.9

Plate Offsets (X, Y): [2:0-4-15,0-2-8], [8:0-4-0,0-2-3], [9:0-2-14,0-2-8], [11:Edge,0-1-8], [12:0-2-8,0-3-0], [13:0-4-0,Edge], [17:0-2-8,0-2-0]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.98	Vert(LL)	-0.36	13	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.83	Vert(CT)	-0.66	12-13	>610	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.85	Horz(CT)	0.14	11	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.26	13	>999	240	Weight: 137 lb	FT = 10%

LUMBER

TOP CHORD 2x4 SPF No.2 *Except* 6-8:2x4 SPF 2400F 2.0E
 BOT CHORD 2x4 SPF No.2
 WEBS 2x3 SPF No.2 *Except* 15-6,11-9:2x4 SPF No.2, 15-13:2x4 SPF 2100F 1.8E, 18-2:2x6 SPF No.2

BRACING

TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (2-2-0 max.): 6-8.
 BOT CHORD Rigid ceiling directly applied or 9-6-0 oc bracing.

WEBS 1 Row at midpt 3-15, 6-15

REACTIONS (size) 11=0-3-8, 18=0-3-8
 Max Horiz 18=125 (LC 8)
 Max Uplift 11=318 (LC 5), 18=294 (LC 4)
 Max Grav 11=1654 (LC 1), 18=1661 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/47, 2-3=-2995/373, 3-5=-2308/336, 5-6=-2281/332, 6-7=-4692/679, 7-8=-4803/694, 8-9=-2879/401, 9-10=0/45, 2-18=-1574/338, 9-11=-1604/337
 BOT CHORD 17-18=-241/557, 15-17=-375/2751, 14-15=-19/107, 13-14=0/90, 7-13=-392/189, 12-13=-315/2679, 11-12=-46/219
 WEBS 3-17=-51/195, 3-15=-798/230, 5-15=-80/983, 6-15=-2905/455, 13-15=-519/4362, 6-13=-217/1339, 8-13=-301/2251, 8-12=-234/132, 2-17=-192/2203, 9-12=-309/2477

NOTES

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

- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) 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.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 6) All bearings are assumed to be SPF No.2 .
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 294 lb uplift at joint 18 and 318 lb uplift at joint 11.
- 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.
- 9) 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



March 21, 2024

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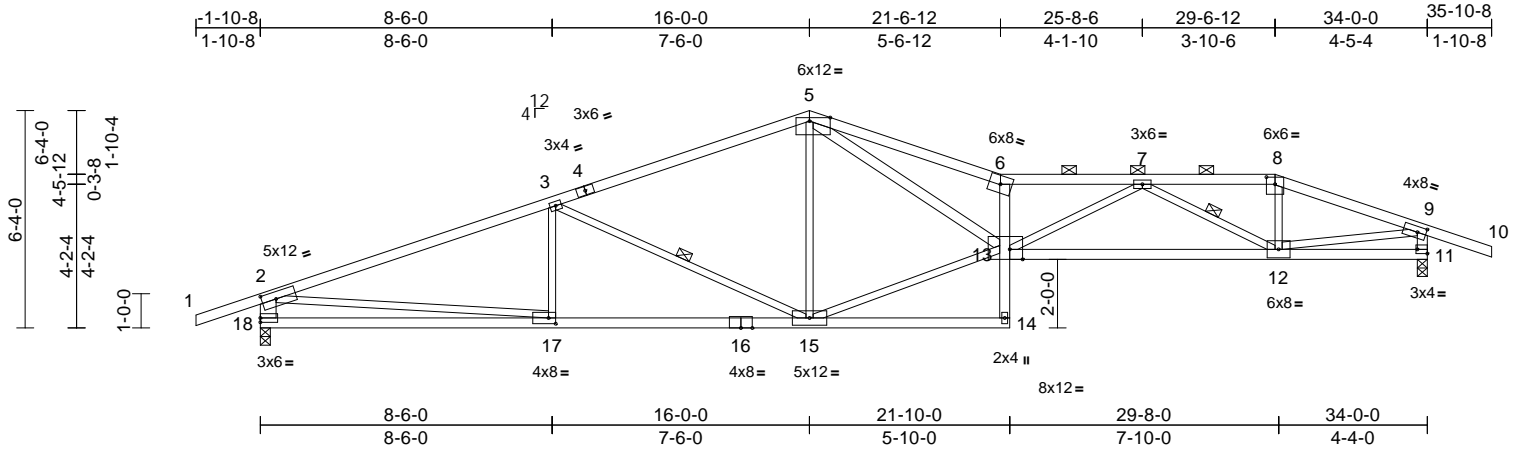
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 07/11/2024 11:09:05

Job	Truss	Truss Type	Qty	Ply	Lot 173 HM	I64360237
B240133	C8	Roof Special	1	1	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. Wed Mar 20 09:09:12
ID:CL9JTT7yt9xlggJ5Mgtpz4SeZ-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:67.1

Plate Offsets (X, Y): [2:0-4-15,0-2-8], [5:0-7-4,Edge], [8:0-3-0,0-2-8], [9:0-3-0,0-2-0], [11:Edge,0-1-8], [13:0-4-8,Edge], [17:0-2-8,0-2-0]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.98	Vert(LL)	-0.46	6-13	>882	360	MT20
TCDL	10.0	Lumber DOL	1.15	BC	0.78	Vert(CT)	-0.83	12-13	>487	240	197/144
BCLL	0.0*	Rep Stress Incr	YES	WB	0.96	Horz(CT)	0.17	11	n/a	n/a	
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.33	6-13	>999	240	Weight: 134 lb FT = 10%

LUMBER

TOP CHORD 2x4 SPF No.2 *Except* 5-6:2x4 SPF 2100F 1.8E
BOT CHORD 2x4 SPF No.2 *Except* 13-11:2x4 SPF 2100F 1.8E
WEBS 2x3 SPF No.2 *Except* 13-5,11-9:2x4 SPF No.2, 18-2:2x6 SPF No.2

BRACING

TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (2-2-0 max.): 6-8.
BOT CHORD Rigid ceiling directly applied or 9-5-11 oc bracing.

WEBS 1 Row at midpt 3-15, 7-12

REACTIONS (size) 11=0-3-8, 18=0-3-8
Max Horiz 18=125 (LC 8)
Max Uplift 11=318 (LC 5), 18=295 (LC 4)
Max Grav 11=1654 (LC 1), 18=1661 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/47, 2-3=-2993/375, 3-5=-2323/336, 5-6=-5652/837, 6-7=-5316/719, 7-8=-2524/364, 8-9=-2754/367, 9-10=0/45, 2-18=-1573/339, 9-11=-1613/326
BOT CHORD 17-18=-241/560, 15-17=-377/2748, 14-15=-19/133, 13-14=0/95, 6-13=-2069/396, 12-13=-571/4188, 11-12=-38/181
WEBS 3-17=-54/190, 3-15=-784/229, 5-15=-281/123, 13-15=-178/2105, 5-13=-594/3932, 8-12=-15/626, 2-17=-194/2198, 9-12=-289/2411, 7-13=-116/1285, 7-12=-1900/330

NOTES

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

- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) 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.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 6) Bearings are assumed to be: Joint 18 SPF No.2, Joint 11 SPF 2100F 1.8E.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 295 lb uplift at joint 18 and 318 lb uplift at joint 11.
- 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.
- 9) 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



March 21, 2024

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

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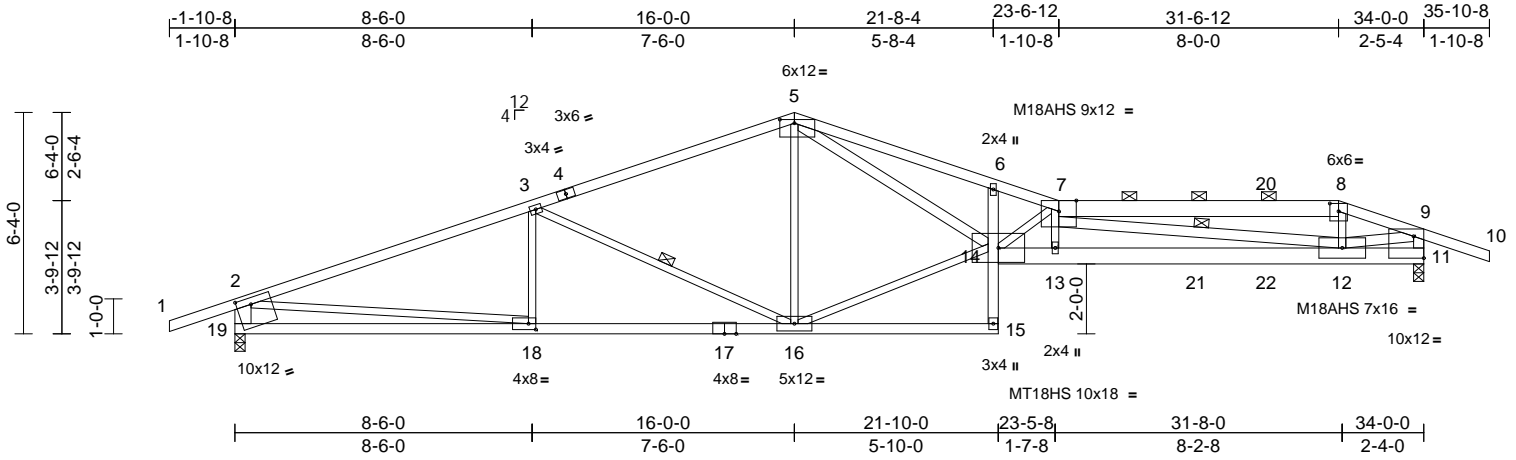
Job	Truss	Truss Type	Qty	Ply	Lot 173 HM	I64360238
B240133	C9	Roof Special Girder	1	1	Job Reference (optional)	

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.73 S Feb 22 2024 Print: 8.730 S Feb 22 2024 MiTek Industries, Inc. Wed Mar 20 09:09:12

Page: 1

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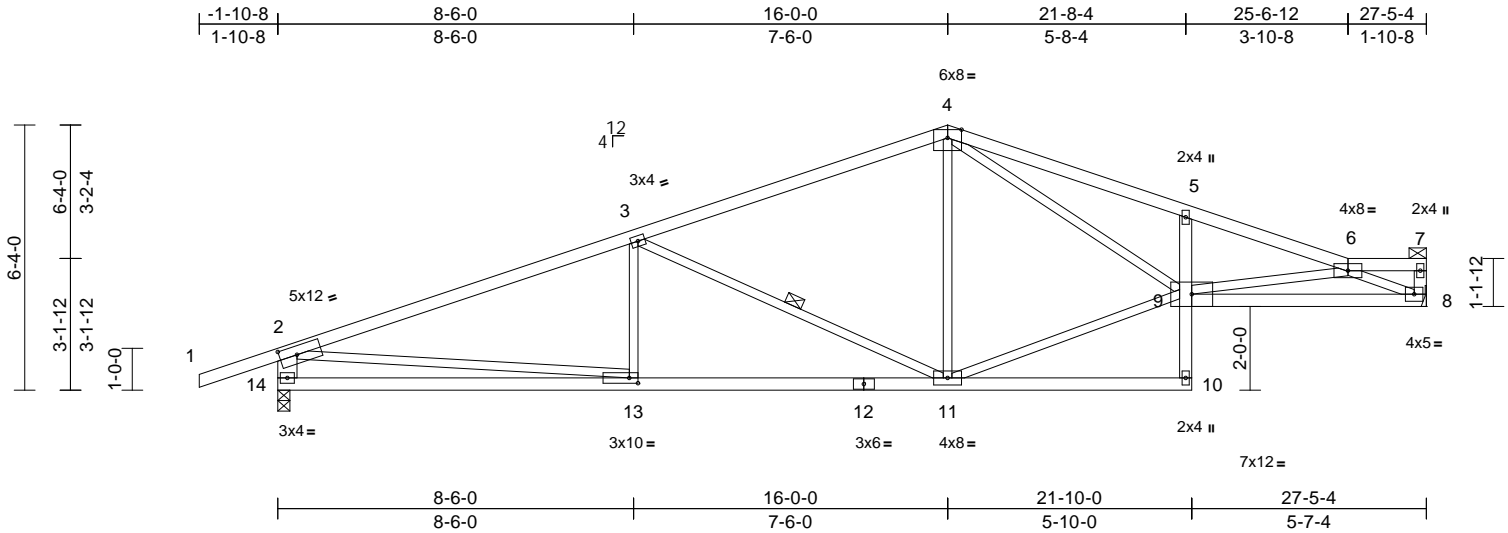


Job	Truss	Truss Type	Qty	Ply	Lot 173 HM	
B240133	C10	Roof Special	1	1	Job Reference (optional)	I64360239

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.73 S Feb 22 2024 Print: 8.730 S Feb 22 2024 MiTek Industries, Inc. Wed Mar 20 09:09:12
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Page: 1



Wheeler Lumber, Waverly, KS - 66871, Run: 8.73 S Feb 22 2024 Print: 8.730 S Feb 22 2024 MiTek Industries, Inc. Wed Mar 20 09:09:13 Page: 1
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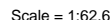


Plate Offsets (X, Y): [2:0-4-15.0-2-8], [8:0-3-15.0-5-10], [14:0-2-8.0-2-0]

LUMBER
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x3 SPF No.2 *Except* 15-2:2x6 SPF No.2,
10-8:2x6 SP 2400F 2.0E

BRACING

TOP CHORD	Structural wood sheathing directly applied, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 9-4-3 oc bracing.

WEBS

REACTIONS (size) 10=0-3-8, 15=0-3-8
 Max Horiz 15=-85 (LC 9)
 Max Uplift 10=-264 (LC 5), 15=-302 (LC 4)
 Max Grav 10=1538 (LC 1), 15=1615 (LC 1)

FORCES

Tension

TOP CHORD 1-2=0/47, 2-3=-2879/393, 3-5=-2202/326,
5-6=-2179/317, 6-7=-3023/438,
7-8=-1066/218, 8-9=0/24, 2-15=-1526/347,
8-10=-639/201

BOT CHORD 14-15=-199/553, 13-14=-343/2641,
11-13=-285/2630, 10-11=-386/2928

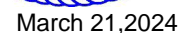
WEBS 3-14=-52/184, 3-13=-789/235, 5-13=-62/895,
2-14=-209/2097, 7-10=-2153/269,
6-13=-801/243, 6-11=-4396/7, 7-11=-189/155

NOTES

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

- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 5) All bearings are assumed to be SPF No.2 .
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 302 lb uplift at joint 15 and 264 lb uplift at joint 10.
- 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.

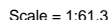
LOAD CASE(S) Standard

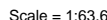


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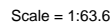
Page: 1

Page: 1

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Wheeler Lumber, Waverly, KS - 66871, Run: 8.73 S Feb 22 2024 Print: 8.730 S Feb 22 2024 MiTek Industries, Inc. Wed Mar 20 09:09:13 Page: 1
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Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.80	Vert(LL)	-0.39	14-15	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.83	Vert(CT)	-0.72	14-15	>544	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.83	Horz(CT)	0.41	10	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.29	14-15	>999	240	Weight: 152 lb	FT = 10%

- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust)
Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) 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.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 6) All bearings are assumed to be SPF No.2 .
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 322 lb uplift at joint 17 and 238 lb uplift at joint 10.
- 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.
- 9) 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



March 21, 2024



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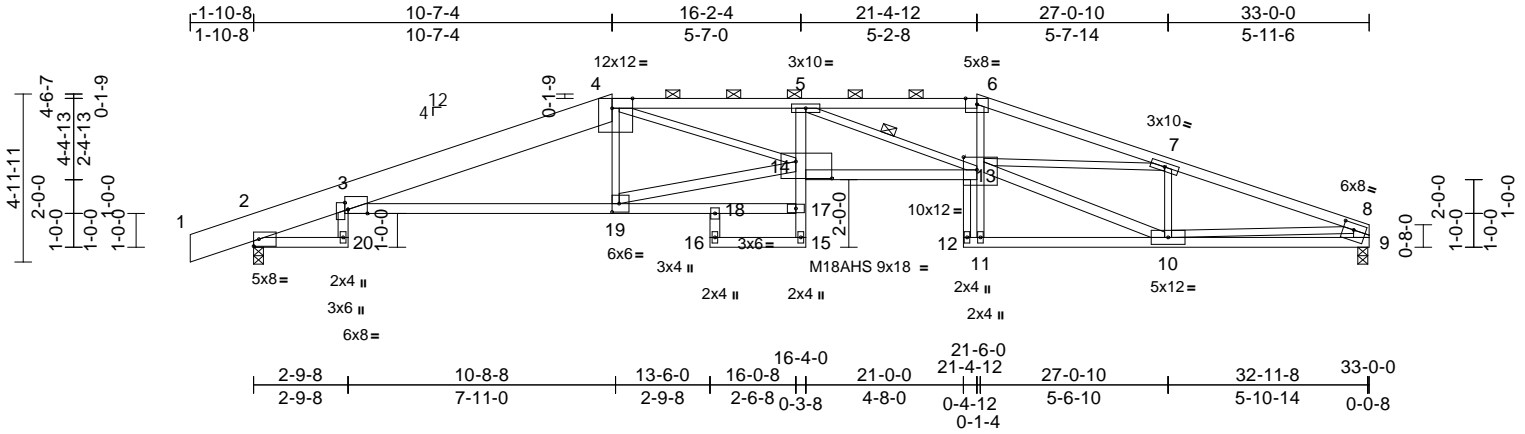
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Job	Truss	Truss Type	Qty	Ply	Lot 173 HM	I64360244
B240133	C15	Hip	1	1	Job Reference (optional)	

Wheeler Lumber, Waverly, KS - 66871,

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Page: 1



Scale = 1:68.2

Plate Offsets (X, Y): [3:0-6-14,Edge], [3:0-2-7,0-1-2], [4:0-7-4,Edge], [8:0-3-12,0-2-4], [13:0-4-12,0-4-8], [14:1-0-12,0-6-0], [19:0-2-8,0-3-0]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.69	Vert(LL)	-0.64	13-14	>609	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.79	Vert(CT)	-1.16	13-14	>337	240	M18AHS	142/136
BCLL	0.0*	Rep Stress Incr	YES	WB	1.00	Horz(CT)	0.57	9	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.48	13-14	>820	240	Weight: 165 lb	FT = 10%

LUMBER		
TOP CHORD	2x4 SPF 2100F 1.8E *Except* 1-4:2x10 SP 2400F 2.0E	
BOT CHORD	2x4 SPF No.2 *Except* 3-17,14-13:2x4 SPF 2100F 1.8E, 13-12:2x3 SPF No.2	
WEBS	2x3 SPF No.2 *Except* 19-14,10-13:2x4 SPF No.2, 9-8:2x6 SPF No.2	
BRACING		
TOP CHORD	Structural wood sheathing directly applied or 2-10-4 oc purlins, except end verticals, and 2-0-0 oc purlins (2-6-0 max.): 4-6.	
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 15-16 8-4-8 oc bracing: 13-14.	
WEBS	1 Row at midpt 5-13	
REACTIONS (size) 2=0-3-8, 9=0-3-8		
	Max Horiz 2=79 (LC 12)	
	Max Uplift 2=-333 (LC 4), 9=-248 (LC 5)	
	Max Grav 2=1615 (LC 1), 9=1465 (LC 1)	
FORCES (lb) - Maximum Compression/Maximum Tension		
TOP CHORD	1-2=0/12, 2-3=-686/122, 3-4=-3646/561, 4-5=-6260/985, 5-6=-5056/833, 6-7=-5221/838, 7-8=-3238/552, 8-9=-1386/274	
BOT CHORD	2-20=0/10, 3-20=0/60, 3-19=-488/3501, 18-19=-72/433, 17-18=-94/512, 16-18=0/41, 15-16=-78/22, 15-17=0/60, 14-17=0/90, 5-14=0/321, 13-14=-890/6468, 12-13=-251/0, 11-12=-3/30, 10-11=-1/94, 9-10=-131/704	
WEBS	4-19=-702/211, 14-19=-417/3120, 5-13=-1659/325, 11-13=0/388, 6-13=-124/1289, 7-10=-1102/275, 8-10=-355/2314, 10-13=-511/3082, 7-13=-258/1900, 4-14=-499/2923	

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- All plates are MT20 plates unless otherwise indicated.
- The Fabrication Tolerance at joint 13 = 6%
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SPF No.2 .
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 333 lb uplift at joint 2 and 248 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.

LOAD CASE(S) Standard



March 21, 2024

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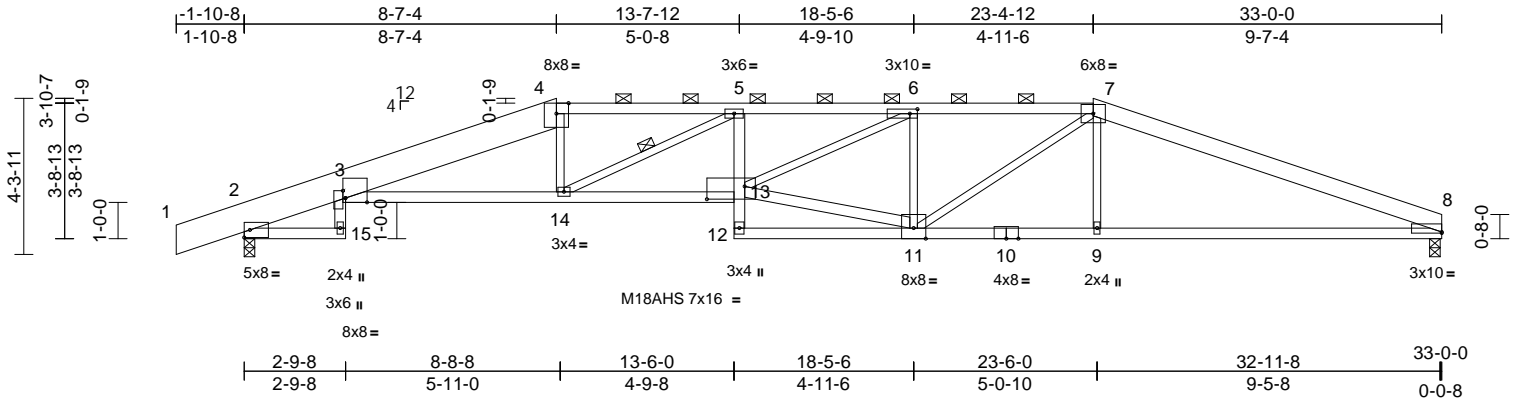
Job	Truss	Truss Type	Qty	Ply	Lot 173 HM	I64360245
B240133	C16	Hip	1	1	Job Reference (optional)	

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.73 S Feb 22 2024 Print: 8.730 S Feb 22 2024 MiTek Industries, Inc. Wed Mar 20 09:09:13

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Scale = 1:63.5

Plate Offsets (X, Y): [3:0-2-7,0-0-14], [6:0-2-8,0-0-1-8], [8:Edge,0-0-6], [13:1-0-8,0-4-4]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.82	Vert(LL)	-0.45	12	>880	360	MT20 197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.68	Vert(CT)	-0.80	13-14	>488	240	M18AHS 142/136
BCLL	0.0*	Rep Stress Incr	YES	WB	0.80	Horz(CT)	0.35	8	n/a	n/a	
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.35	12	>999	240	Weight: 153 lb FT = 10%

LUMBER
TOP CHORD 2x10 SP 2400F 2.0E *Except* 4-7:2x4 SPF No.2, 7-8:2x6 SP 2400F 2.0E
BOT CHORD 2x4 SPF No.2 *Except* 3-13,10-8:2x4 SPF 2100F 1.8E
WEBS 2x3 SPF No.2 *Except* 11-13:2x4 SPF No.2
BRACING
TOP CHORD Structural wood sheathing directly applied or 4-9-15 oc purlins, except 2-0-0 oc purlins (2-2-0 max.): 4-7.
BOT CHORD Rigid ceiling directly applied or 8-10-5 oc bracing.
WEBS 1 Row at midpt 5-14
REACTIONS (size) 2=0-3-8, 8=0-3-8
Max Horiz 2=66 (LC 8)
Max Uplift 2=-343 (LC 4), 8=-258 (LC 5)
Max Grav 2=1618 (LC 1), 8=1468 (LC 1)
FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/12, 2-3=-688/145, 3-4=-4032/664, 4-5=-3938/689, 5-6=-5005/872, 6-7=-3463/651, 7-8=-3214/538
BOT CHORD 2-15=0/10, 3-15=0/60, 3-14=-598/3926, 13-14=-795/5114, 12-13=0/105, 5-13=0/338, 11-12=-40/296, 9-11=-419/2932, 8-9=-416/2938
WEBS 4-14=-14/445, 5-14=-1419/300, 11-13=-486/3260, 6-13=-294/1706, 6-11=-1096/272, 7-9=0/352, 7-11=-184/808

NOTES

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

- All plates are MT20 plates unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Bearings are assumed to be: Joint 2 SPF No.2, Joint 8 SPF 2100F 1.8E.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 258 lb uplift at joint 8 and 343 lb uplift at joint 2.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard



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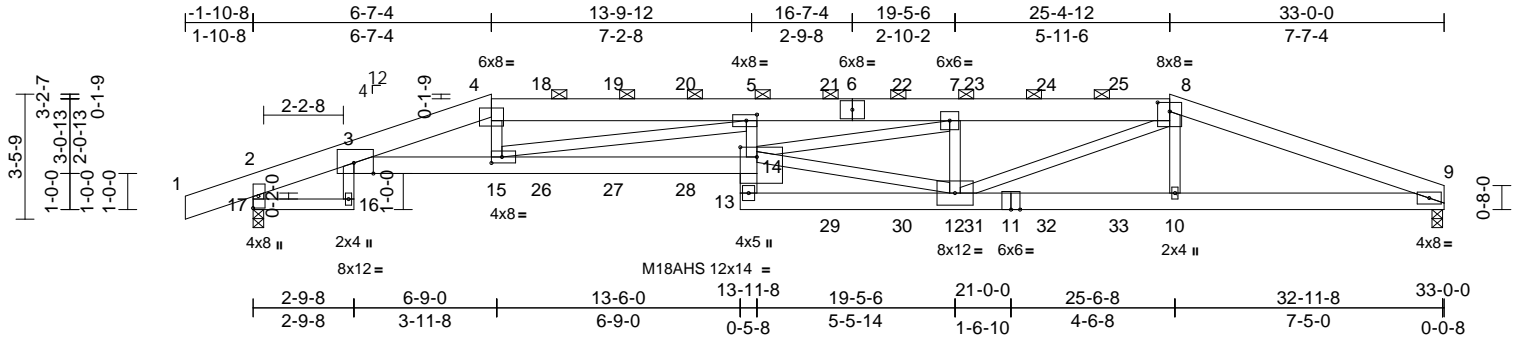
Job	Truss	Truss Type	Qty	Ply	Lot 173 HM	I64360246
B240133	C17	Hip Girder	1	2	Job Reference (optional)	

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Job	Truss	Truss Type	Qty	Ply	Lot 173 HM	I64360246
B240133	C17	Hip Girder	1	2	Job Reference (optional)	

Vert: 14=-52 (B), 10=-550 (B), 15=-500 (B), 5=-123 (B), 18=-113 (B), 19=-113 (B), 20=-113 (B), 21=-123 (B), 22=-123 (B), 23=-123 (B), 24=-123 (B), 25=-123 (B), 26=-63 (B), 27=-63 (B), 28=-63 (B), 29=-52 (B), 30=-52 (B), 31=-52 (B), 32=-52 (B), 33=-52 (B)

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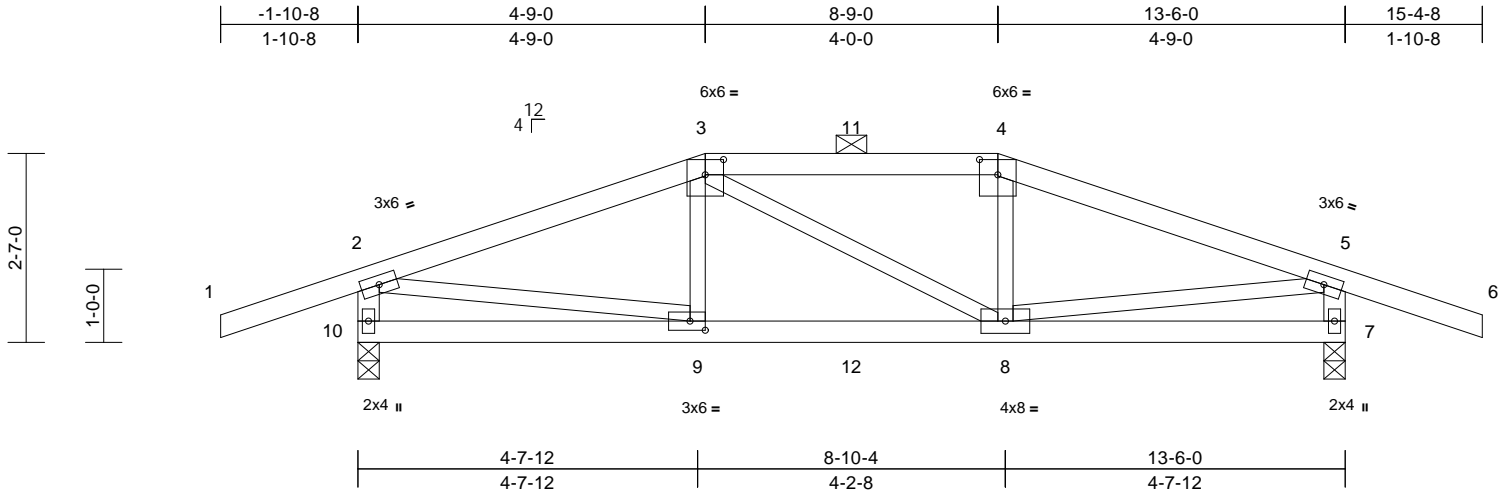
Job	Truss	Truss Type	Qty	Ply	Lot 173 HM	I64360247
B240133	D1	Hip Girder	1	1	Job Reference (optional)	

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.73 S Feb 22 2024 Print: 8.730 S Feb 22 2024 MiTek Industries, Inc. Wed Mar 20 09:09:14

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Scale = 1:31.5

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.45	Vert(LL)	-0.05	8-9	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.47	Vert(CT)	-0.09	8-9	>999	240		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.44	Horz(CT)	0.01	7	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.04	8-9	>999	240	Weight: 51 lb	FT = 10%

LUMBER

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

BRACING

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

REACTIONS (size) 7=0-3-8, 10=0-3-8
Max Horiz 10=16 (LC 19)
Max Uplift 7=289 (LC 5), 10=289 (LC 4)
Max Grav 7=1063 (LC 1), 10=1063 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/45, 2-3=1536/333, 3-4=1395/338, 4-5=1536/333, 5-6=0/45, 2-10=1011/309, 5-7=1011/309

BOT CHORD 9-10=42/133, 8-9=264/1394, 7-8=29/126
WEBS 3-9=0/220, 3-8=61/62, 4-8=0/220, 2-9=266/1290, 5-8=265/1291

NOTES

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

- 6) All bearings are assumed to be SPF No.2 .
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 289 lb uplift at joint 10 and 289 lb uplift at joint 7.
- 8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 90 lb down and 64 lb up at 4-9-0, and 90 lb down and 62 lb up at 6-9-0, and 90 lb down and 64 lb up at 8-9-0 on top chord, and 227 lb down and 50 lb up at 4-9-0, and 43 lb down at 6-9-0, and 227 lb down and 50 lb up at 8-8-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 11) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-2=-70, 2-3=-70, 3-4=-70, 4-5=-70, 5-6=-70, 7-10=-20
Concentrated Loads (lb)
Vert: 4=-59 (F), 9=-227 (F), 8=-227 (F), 3=-59 (F), 11=-59 (F), 12=-24 (F)



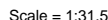
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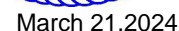
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- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust)
Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) All plates are MT20 plates unless otherwise indicated.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 6) All bearings are assumed to be SPF No.2 .
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 176 lb uplift at joint 8 and 176 lb uplift at joint 6.



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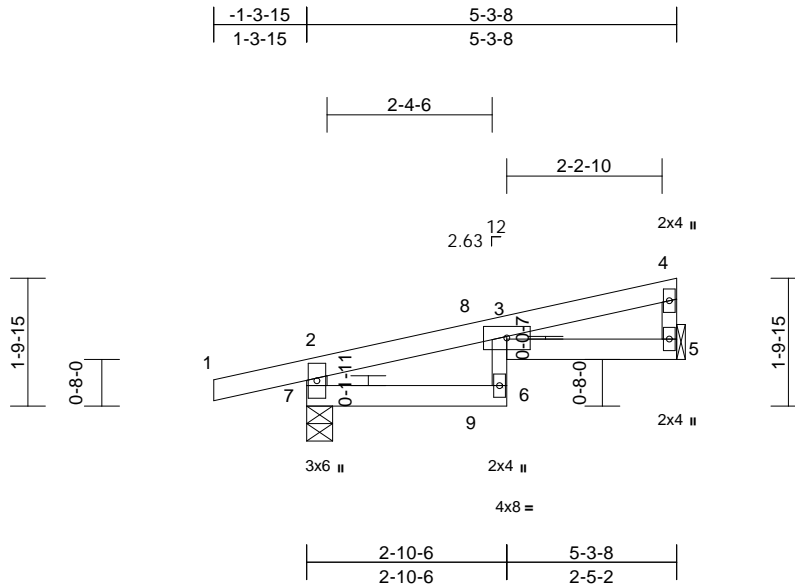
Job	Truss	Truss Type	Qty	Ply	Lot 173 HM	
B240133	J1	Diagonal Hip Girder	2	1	Job Reference (optional)	I64360249

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Scale = 1:33

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.56	Vert(LL)	-0.06	6	>999	360	MT20
TCDL	10.0	Lumber DOL	1.15	BC	0.24	Vert(CT)	-0.11	6	>556	240	197/144
BCLL	0.0*	Rep Stress Incr	NO	WB	0.00	Horz(CT)	0.06	5	n/a	n/a	
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R		Wind(LL)	0.06	6	>999	240	Weight: 15 lb FT = 10%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 5-3-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

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

Max Horiz 7=58 (LC 5)
Max Uplift 5=-42 (LC 8), 7=-108 (LC 4)
Max Grav 5=212 (LC 1), 7=344 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 2-7=-335/126, 1-2=0/22, 2-3=-86/0,
3-4=-79/13, 4-5=-145/45

BOT CHORD 6-7=-2/20, 3-6=0/67, 3-5=-13/72

NOTES

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust)
Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 4) All bearings are assumed to be SPF No.2 .
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 108 lb uplift at joint 7 and 42 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.

- 8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 69 lb down and 25 lb up at 2-4-3, and 79 lb down and 30 lb up at 3-0-6 on top chord, and 4 lb down and 4 lb up at 2-4-3 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 9) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-2=-70, 2-3=-70, 3-4=-70, 6-7=-20, 3-5=-20
Concentrated Loads (lb)
Vert: 3=-3 (B), 9=4 (F)



March 21, 2024

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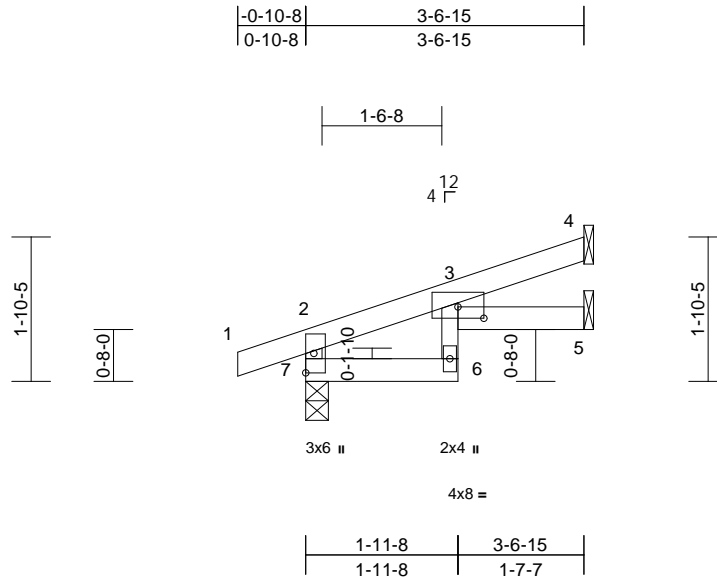
Job	Truss	Truss Type	Qty	Ply	Lot 173 HM
B240133	J2	Jack-Open	3	1	Job Reference (optional)
					I64360250

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.73 S Feb 22 2024 Print: 8.730 S Feb 22 2024 MiTek Industries, Inc. Wed Mar 20 09:09:14

Page: 1

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Scale = 1:29.6

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

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.21	Vert(LL)	-0.01	6	>999	360	MT20
TCDL	10.0	Lumber DOL	1.15	BC	0.13	Vert(CT)	-0.02	6	>999	240	197/144
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.02	5	n/a	n/a	
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R		Wind(LL)	0.01	6	>999	240	Weight: 10 lb FT = 10%

LUMBER

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

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

LOAD CASE(S) Standard

BRACING

TOP CHORD Structural wood sheathing directly applied or 3-6-15 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS (size) 4= Mechanical, 5= Mechanical, 7=0-3-8
Max Horiz 7=57 (LC 4)
Max Uplift 4=-33 (LC 8), 5=-6 (LC 8), 7=-62 (LC 4)
Max Grav 4=87 (LC 1), 5=57 (LC 1), 7=232 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 2-7=-225/83, 1-2=0/22, 2-3=-58/0, 3-4=-16/24
BOT CHORD 6-7=-5/10, 3-6=-2/44, 3-5=-10/5

NOTES

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 4) All bearings are assumed to be SPF No.2.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 62 lb uplift at joint 7, 33 lb uplift at joint 4 and 6 lb uplift at joint 5.



March 21, 2024

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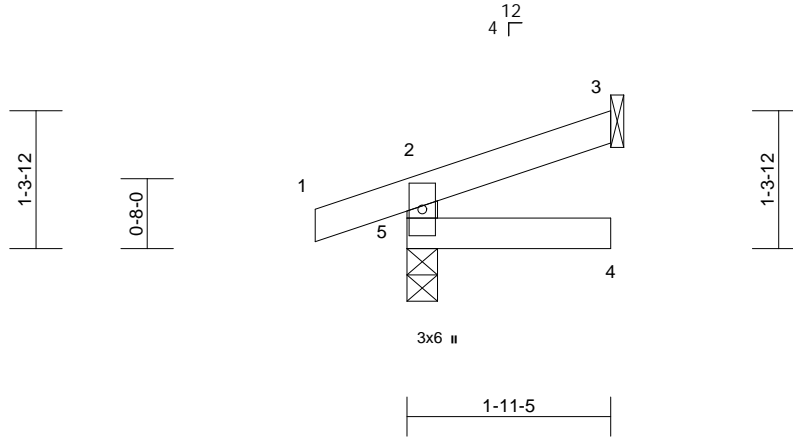
Job	Truss	Truss Type	Qty	Ply	Lot 173 HM	
B240133	J3	Jack-Open	2	1		I64360251
Job Reference (optional)						

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.73 S Feb 22 2024 Print: 8.730 S Feb 22 2024 MiTek Industries, Inc. Wed Mar 20 09:15
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Page: 1

-0-10-8	1-11-5
0-10-8	1-11-5



Scale = 1:21.9												
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	0.11	Vert(LL)	-0.02	4	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.11	Vert(CT)	-0.04	4	>547	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)	0.00	4	>999	240	Weight: 6 lb	FT = 10%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or
1-11-5 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=36 (LC 4)
Max Uplift 3=-19 (LC 8), 5=-59 (LC 4)
Max Grav 3=60 (LC 1), 5=172 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 2-5=-136/81, 1-2=0/23, 2-3=-18/15
BOT CHORD 4-5=0/0

NOTES

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust)
Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat.
II; Exp C; Enclosed; MWFRS (envelope) exterior zone;
cantilever left and right exposed; end vertical left and
right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom
chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf
on the bottom chord in all areas where a rectangle
3-06-00 tall by 2-00-00 wide will fit between the bottom
chord and any other members.
- 4) All bearings are assumed to be SPF No.2 .
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to
bearing plate capable of withstanding 59 lb uplift at joint
5 and 19 lb uplift at joint 3.
- 7) This truss is designed in accordance with the 2018
International Residential Code sections R502.11.1 and
R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



March 21, 2024

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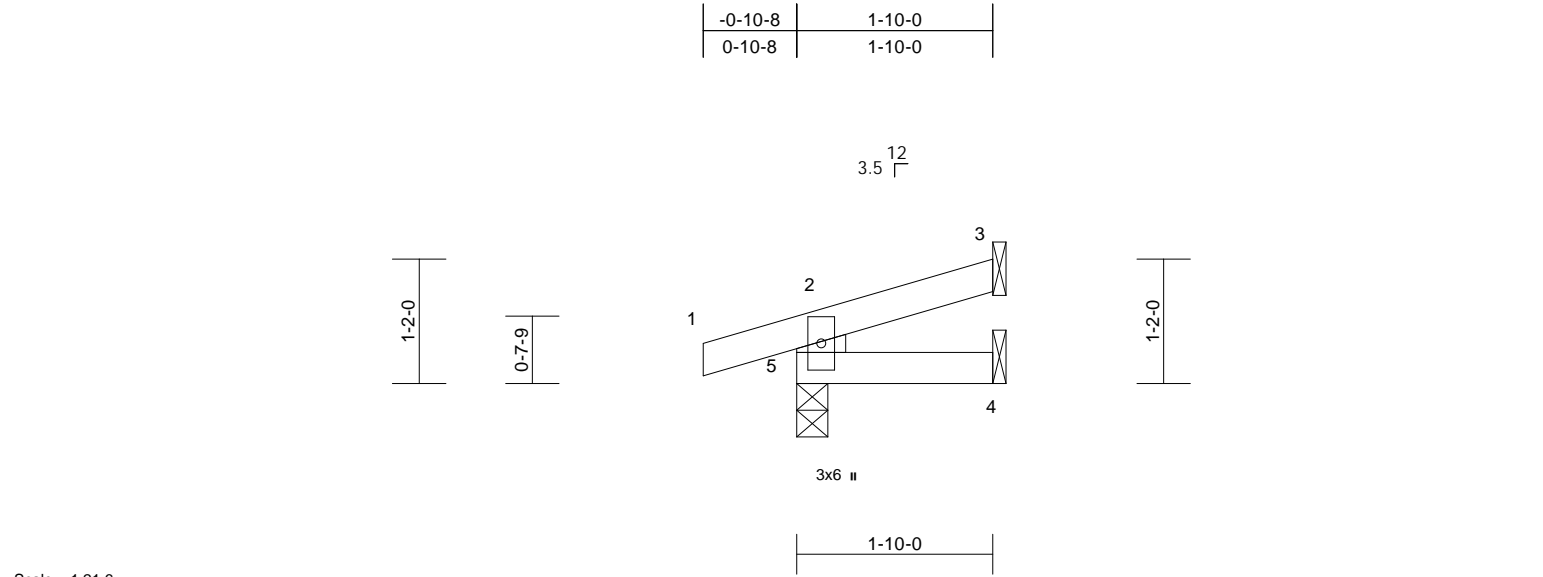
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Job	Truss	Truss Type	Qty	Ply	Lot 173 HM	
B240133	J4	Jack-Open	2	1	Job Reference (optional)	I64360252

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.73 S Feb 22 2024 Print: 8.730 S Feb 22 2024 MiTek Industries, Inc. Wed Mar 20 09:09:15
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Page: 1



Scale = 1:21.6

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.08	Vert(LL)	0.00	4-5	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.02	Vert(CT)	0.00	4-5	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R		Wind(LL)	0.00	4-5	>999	240	Weight: 6 lb	FT = 10%

LUMBER

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

BRACING

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

REACTIONS (size) 3= Mechanical, 4= Mechanical,
5=0-3-8
Max Horiz 5=30 (LC 4)
Max Uplift 3=-20 (LC 8), 5=-67 (LC 4)
Max Grav 3=37 (LC 1), 4=27 (LC 3), 5=176
(LC 1)

FORCES (lb) - Maximum Compression/Maximum
Tension

TOP CHORD 2-5=-152/76, 1-2=0/22, 2-3=-21/7
BOT CHORD 4-5=0/0

NOTES

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust)
Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat.
II; Exp C; Enclosed; MWFRS (envelope) exterior zone;
cantilever left and right exposed; end vertical left and
right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom
chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf
on the bottom chord in all areas where a rectangle
3-06-00 tall by 2-00-00 wide will fit between the bottom
chord and any other members.
- 4) All bearings are assumed to be SPF No.2 .
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to
bearing plate capable of withstanding 67 lb uplift at joint
5 and 20 lb uplift at joint 3.
- 7) This truss is designed in accordance with the 2018
International Residential Code sections R502.11.1 and
R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



March 21, 2024

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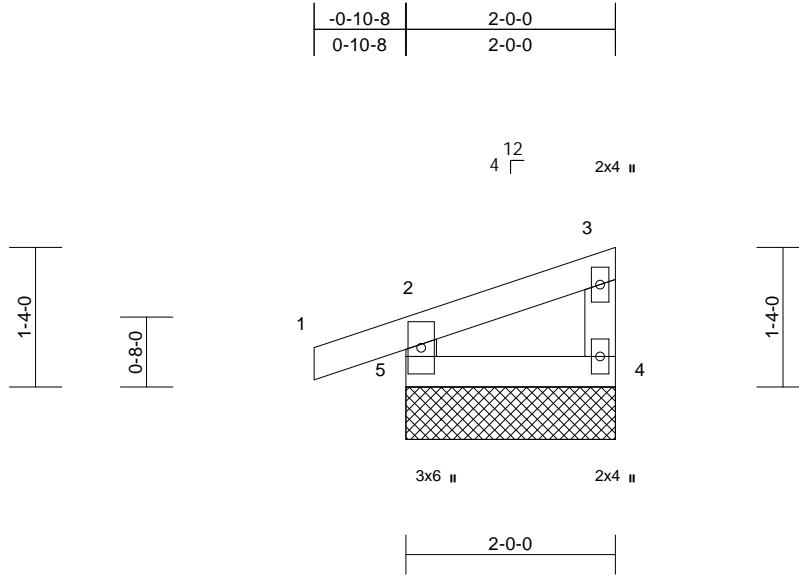
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Job	Truss	Truss Type	Qty	Ply	Lot 173 HM	
B240133	J5	Jack-Closed Supported Gable	1	1	Job Reference (optional)	I64360253

Wheeler Lumber, Waverly, KS - 66871,

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Page: 1



Scale = 1:22

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.07	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.02	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R							Weight: 7 lb	FT = 10%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 2-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (size)

4=2-0-0, 5=2-0-0
Max Horiz 5=49 (LC 7)
Max Uplift 4=-14 (LC 5), 5=-65 (LC 4)
Max Grav 4=56 (LC 1), 5=170 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension

TOP CHORD 2-5=-150/76, 1-2=0/23, 2-3=-35/6, 3-4=-41/21
BOT CHORD 4-5=-15/10

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.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in 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 65 lb uplift at joint 5 and 14 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



March 21, 2024

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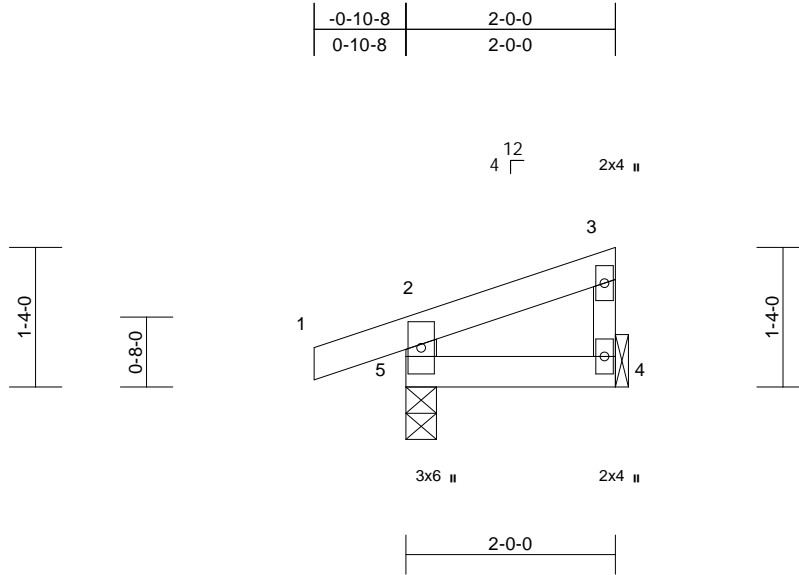
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Job	Truss	Truss Type	Qty	Ply	Lot 173 HM	I64360254
B240133	J6	Jack-Closed	5	1	Job Reference (optional)	

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Page: 1



Scale = 1:22

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	4	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R		Wind(LL)	0.00	4-5	>999	240	Weight: 7 lb	FT = 10%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or
2-0-0 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=49 (LC 5)
Max Uplift 4=-14 (LC 5), 5=-65 (LC 4)
Max Grav 4=58 (LC 1), 5=171 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 2-5=-151/76, 1-2=0/23, 2-3=-35/7, 3-4=-43/21
BOT CHORD 4-5=-15/10

NOTES

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust)
Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat.
II; Exp C; Enclosed; MWFRS (envelope) exterior zone;
cantilever left and right exposed; end vertical left and
right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom
chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf
on the bottom chord in all areas where a rectangle
3-06-00 tall by 2-00-00 wide will fit between the bottom
chord and any other members.
- 4) All bearings are assumed to be SPF No.2 .
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to
bearing plate capable of withstanding 65 lb uplift at joint
5 and 14 lb uplift at joint 4.
- 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



March 21, 2024

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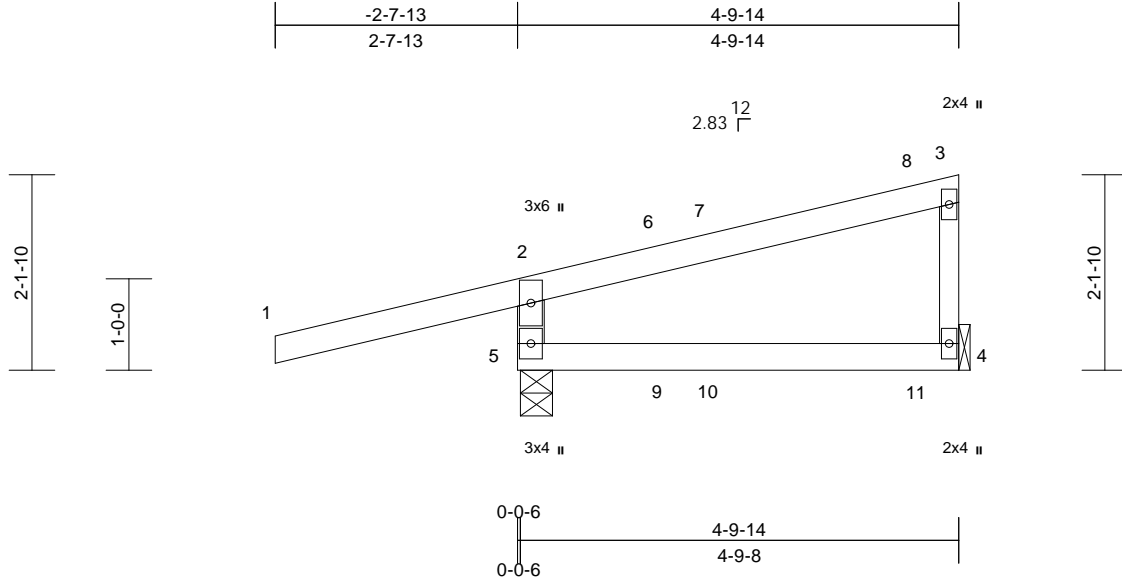
Job	Truss	Truss Type	Qty	Ply	Lot 173 HM	
B240133	J7	Diagonal Hip Girder	1	1	Job Reference (optional)	I64360255

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.73 S Feb 22 2024 Print: 8.730 S Feb 22 2024 MiTek Industries, Inc. Wed Mar 20 09:09:15

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Scale = 1:25.2

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.63	Vert(LL)	-0.02	4-5	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.14	Vert(CT)	-0.02	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)	-0.02	4-5	>999	240	Weight: 16 lb	FT = 10%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 4-9-14 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS

(size) 4= Mechanical, 5=0-4-3
Max Horiz 5=88 (LC 5)
Max Uplift 4=-46 (LC 5), 5=-196 (LC 4)
Max Grav 4=156 (LC 15), 5=410 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension

TOP CHORD 2-5=-373/204, 1-2=0/45, 2-3=-90/34,
3-4=-110/63

BOT CHORD 4-5=-28/61

NOTES

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust)
Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 4) All bearings are assumed to be SPF No.2 .
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 196 lb uplift at joint 5 and 46 lb uplift at joint 4.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

- 8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 106 lb down and 198 lb up at 1-6-5, and 70 lb down and 39 lb up at 2-1-0, and 58 lb down and 39 lb up at 4-4-4 on top chord, and 0 lb down and 57 lb up at 1-6-5, and 5 lb down at 2-1-0, and 17 lb down and 2 lb up at 4-4-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 9) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S)

- Standard
- 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-2=-70, 2-3=-70, 4-5=-20
Concentrated Loads (lb)
Vert: 6=45 (B), 8=-1 (B), 9=30 (B), 10=-1 (F), 11=2 (B)



March 21, 2024

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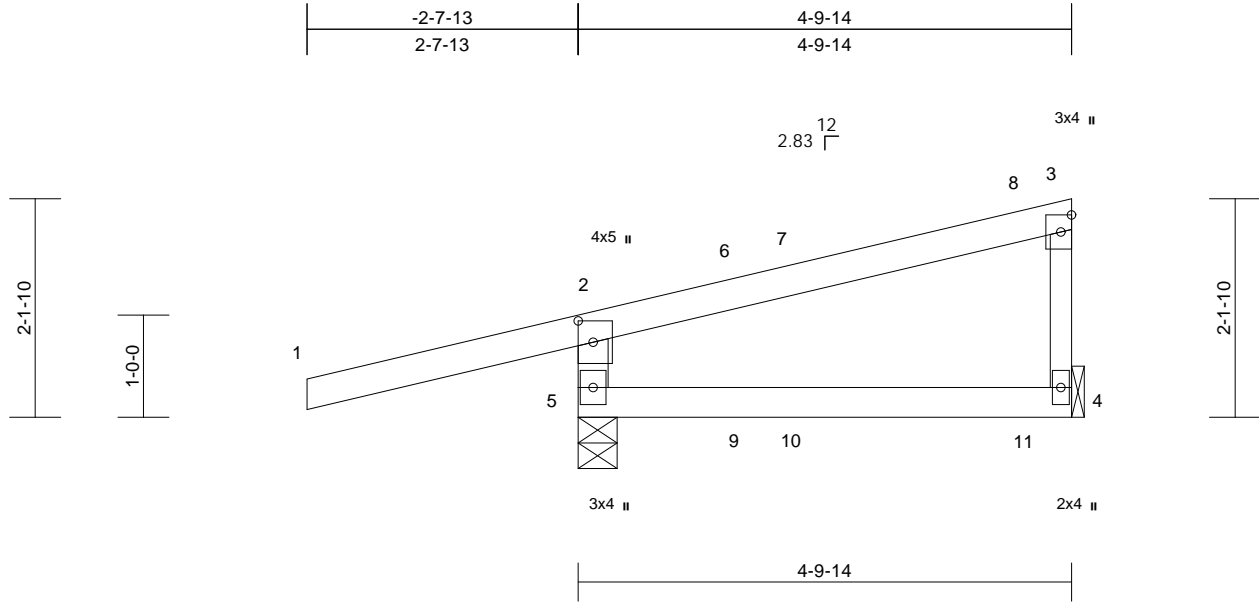
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Job	Truss	Truss Type	Qty	Ply	Lot 173 HM	I64360256
B240133	J8	Diagonal Hip Girder	1	1	Job Reference (optional)	

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.73 S Feb 22 2024 Print: 8.730 S Feb 22 2024 MiTek Industries, Inc. Wed Mar 20 09:09:15
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Page: 1



Scale = 1:22.5

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.63	Vert(LL)	0.02	4-5	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.17	Vert(CT)	-0.02	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)	-0.02	4-5	>999	240	Weight: 16 lb	FT = 10%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 4-9-14 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS

(size) 4= Mechanical, 5=0-4-9
Max Horiz 5=88 (LC 5)
Max Uplift 4=-41 (LC 5), 5=-180 (LC 4)
Max Grav 4=155 (LC 15), 5=389 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension

TOP CHORD 2-5=-351/188, 1-2=0/45, 2-3=-88/82,
3-4=-106/59
BOT CHORD 4-5=-55/63

NOTES

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust)
Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 4) All bearings are assumed to be SPF No.2.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 180 lb uplift at joint 5 and 41 lb uplift at joint 4.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

- 8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 106 lb down and 198 lb up at 1-6-5, and 75 lb down and 140 lb up at 2-1-0, and 58 lb down and 39 lb up at 4-4-4 on top chord, and 0 lb down and 57 lb up at 1-6-5, and 15 lb down and 21 lb up at 2-1-0, and 17 lb down and 2 lb up at 4-4-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 9) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-2=-70, 2-3=-70, 4-5=-20
Concentrated Loads (lb)
Vert: 6=45 (F), 7=35 (B), 8=-1 (F), 9=30 (F), 11=2 (F)



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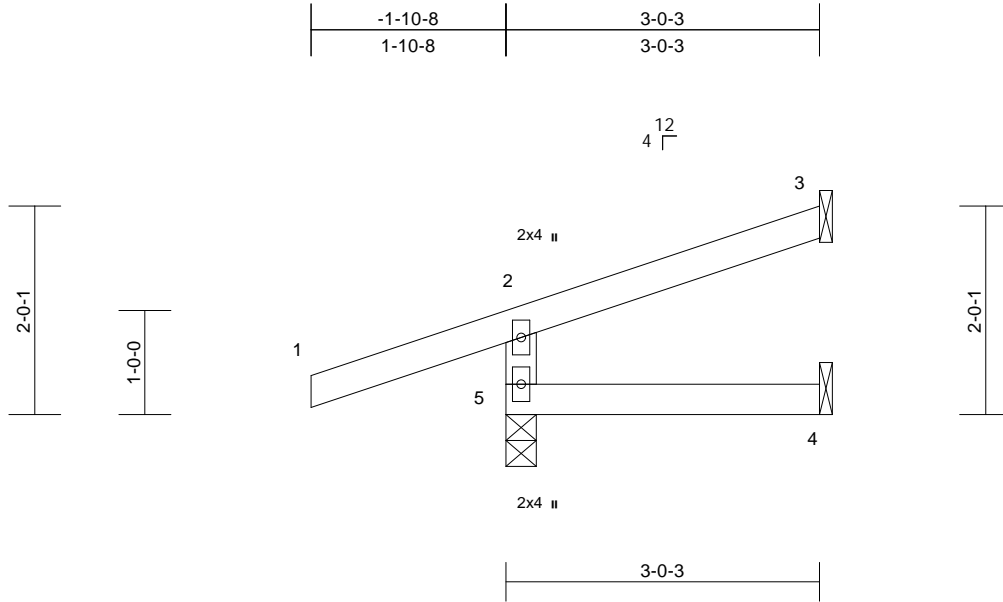
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Job	Truss	Truss Type	Qty	Ply	Lot 173 HM	
B240133	J9	Jack-Open	2	1	Job Reference (optional)	I64360257

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.73 S Feb 22 2024 Print: 8.730 S Feb 22 2024 MiTek Industries, Inc. Wed Mar 20 09:09:15
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Page: 1



Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.28	Vert(LL)	0.00	4-5	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.06	Vert(CT)	-0.01	4-5	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R		Wind(LL)	0.00	4-5	>999	240	Weight: 10 lb	FT = 10%

LUMBER

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

BRACING

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

REACTIONS (size) 3= Mechanical, 4= Mechanical,
5=0-3-8
Max Horiz 5=62 (LC 4)
Max Uplift 3=-36 (LC 8), 5=-120 (LC 4)
Max Grav 3=60 (LC 1), 4=48 (LC 3), 5=319
(LC 1)

FORCES (lb) - Maximum Compression/Maximum
Tension

TOP CHORD 2-5=-278/139, 1-2=0/45, 2-3=-43/13
BOT CHORD 4-5=0/0

NOTES

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust)
Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat.
II; Exp C; Enclosed; MWFRS (envelope) exterior zone;
cantilever left and right exposed; end vertical left and
right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom
chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf
on the bottom chord in all areas where a rectangle
3-06-00 tall by 2-00-00 wide will fit between the bottom
chord and any other members.
- 4) All bearings are assumed to be SPF No.2 .
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to
bearing plate capable of withstanding 120 lb uplift at joint
5 and 36 lb uplift at joint 3.
- 7) This truss is designed in accordance with the 2018
International Residential Code sections R502.11.1 and
R802.10.2 and referenced standard ANSI/TPI 1.



March 21, 2024

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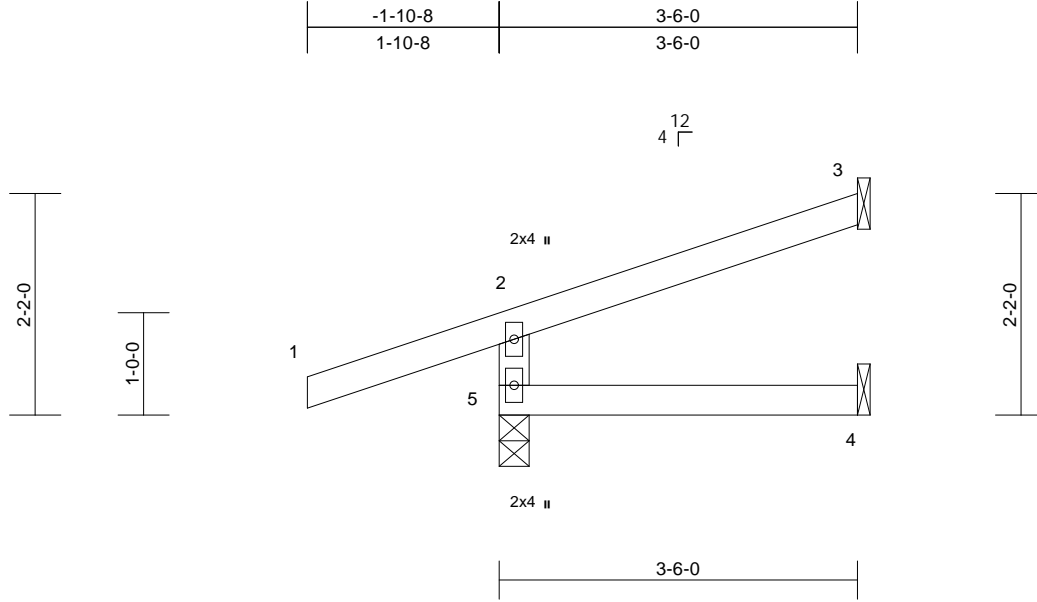
Job	Truss	Truss Type	Qty	Ply	Lot 173 HM	164360258
B240133	J10	Jack-Open	15	1	Job Reference (optional)	

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.73 S Feb 22 2024 Print: 8.730 S Feb 22 2024 MiTek Industries, Inc. Wed Mar 20 09:09:15

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Scale = 1:22.5

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	0.28	Vert(LL)	-0.01	4-5	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.08	Vert(CT)	-0.01	4-5	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R		Wind(LL)	0.00	4-5	>999	240	Weight: 11 lb	FT = 10%

LUMBER

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

LOAD CASE(S) Standard

BRACING

TOP CHORD Structural wood sheathing directly applied or 3-6-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (size) 3= Mechanical, 4= Mechanical, 5=0-3-8
Max Horiz 5=69 (LC 4)
Max Uplift 3=-45 (LC 8), 5=-119 (LC 4)
Max Grav 3=80 (LC 1), 4=58 (LC 3), 5=333 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 2-5=-291/143, 1-2=0/45, 2-3=-48/18
BOT CHORD 4-5=0/0

NOTES

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 4) All bearings are assumed to be SPF No.2 .
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 119 lb uplift at joint 5 and 45 lb uplift at joint 3.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



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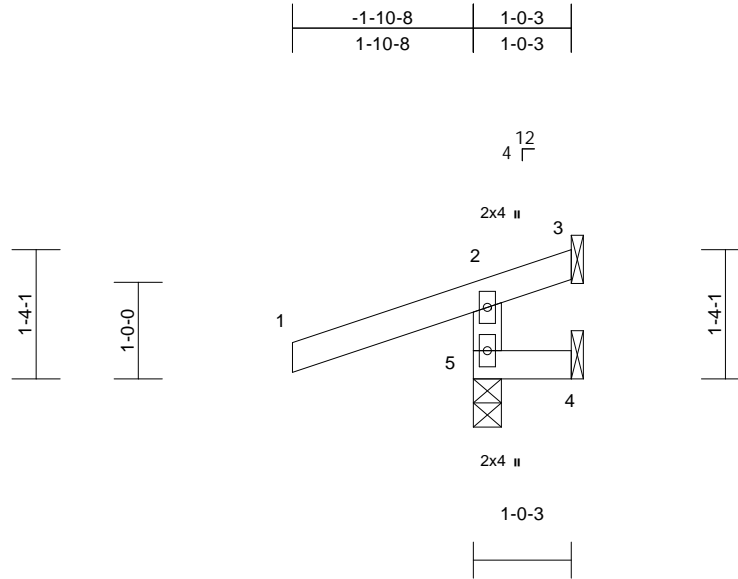
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Job	Truss	Truss Type	Qty	Ply	Lot 173 HM	I64360259
B240133	J11	Jack-Open	2	1	Job Reference (optional)	

Wheeler Lumber, Waverly, KS - 66871,

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Scale = 1:23.9

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

LUMBER

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

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

LOAD CASE(S) Standard

BRACING

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

REACTIONS (size) 3= Mechanical, 4= Mechanical, 5=0-3-8
Max Horiz 5=39 (LC 5)
Max Uplift 3=-99 (LC 1), 4=-29 (LC 1), 5=-169 (LC 4)
Max Grav 3=56 (LC 4), 4=13 (LC 4), 5=347 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 2-5=-300/167, 1-2=0/45, 2-3=-50/18
BOT CHORD 4-5=0/0

NOTES

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 4) All bearings are assumed to be SPF No.2 .
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 169 lb uplift at joint 5, 29 lb uplift at joint 4 and 99 lb uplift at joint 3.



March 21, 2024

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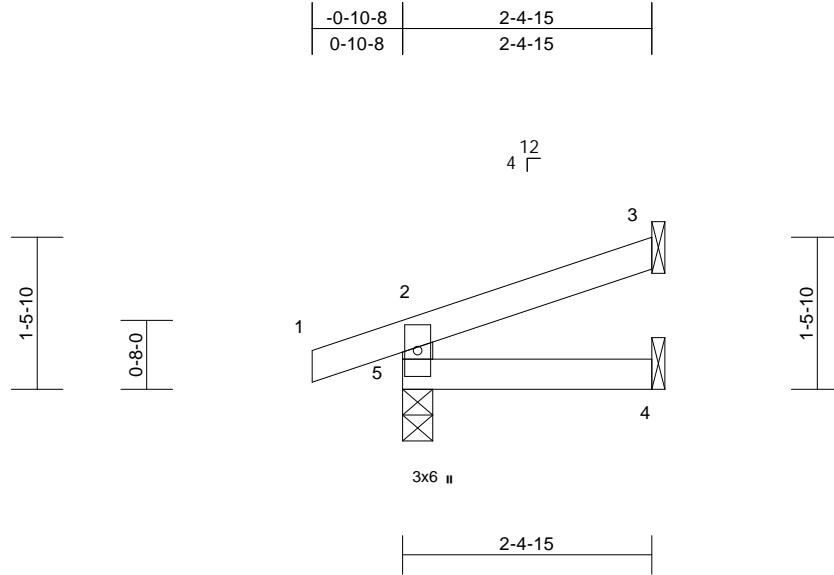
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Job	Truss	Truss Type	Qty	Ply	Lot 173 HM	I64360260
B240133	J12	Jack-Open	1	1	Job Reference (optional)	

Wheeler Lumber, Waverly, KS - 66871,

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Page: 1



Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.07	Vert(LL)	0.00	4-5	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.04	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: 7 lb	FT = 10%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or
2-4-15 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc
bracing.

REACTIONS (size) 3= Mechanical, 4= Mechanical,
5=0-3-8
Max Horiz 5=42 (LC 4)
Max Uplift 3=-32 (LC 8), 5=-60 (LC 4)
Max Grav 3=62 (LC 1), 4=40 (LC 3), 5=187
(LC 1)

FORCES (lb) - Maximum Compression/Maximum
Tension

TOP CHORD 2-5=-164/78, 1-2=0/23, 2-3=-31/15
BOT CHORD 4-5=0/0

NOTES

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust)
Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat.
II; Exp C; Enclosed; MWFRS (envelope) exterior zone;
cantilever left and right exposed; end vertical left and
right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom
chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf
on the bottom chord in all areas where a rectangle
3-06-00 tall by 2-00-00 wide will fit between the bottom
chord and any other members.
- 4) All bearings are assumed to be SPF No.2 .
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to
bearing plate capable of withstanding 60 lb uplift at joint
5 and 32 lb uplift at joint 3.
- 7) This truss is designed in accordance with the 2018
International Residential Code sections R502.11.1 and
R802.10.2 and referenced standard ANSI/TPI 1.



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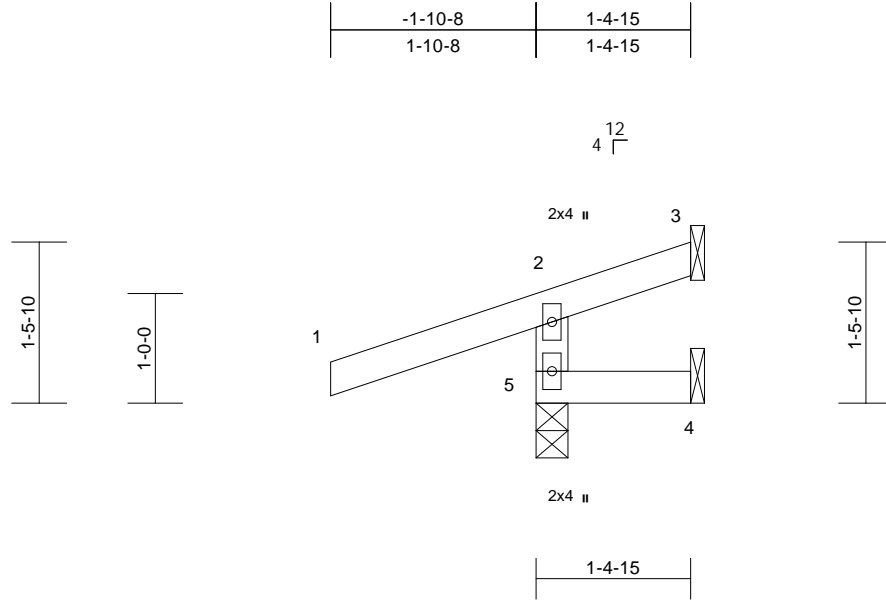
Job	Truss	Truss Type	Qty	Ply	Lot 173 HM	
B240133	J13	Jack-Open	1	1	Job Reference (optional)	I64360261

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.73 S Feb 22 2024 Print: 8.730 S Feb 22 2024 MiTek Industries, Inc. Wed Mar 20 09:09:16

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Scale = 1:21

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.28	Vert(LL)	0.00	4-5	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.07	Vert(CT)	0.00	4-5	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R		Wind(LL)	0.00	4-5	>999	240	Weight: 6 lb	FT = 10%

LUMBER

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

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

LOAD CASE(S) Standard

BRACING

TOP CHORD Structural wood sheathing directly applied or 1-4-15 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (size) 3= Mechanical, 4= Mechanical, 5=0-3-8
Max Horiz 5=43 (LC 5)
Max Uplift 3=-41 (LC 1), 4=-17 (LC 1), 5=-144 (LC 4)
Max Grav 3=24 (LC 4), 4=15 (LC 3), 5=312 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 2-5=-270/145, 1-2=0/45, 2-3=-41/7
BOT CHORD 4-5=0/0

NOTES

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 4) All bearings are assumed to be SPF No.2.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 144 lb uplift at joint 5, 17 lb uplift at joint 4 and 41 lb uplift at joint 3.



March 21, 2024

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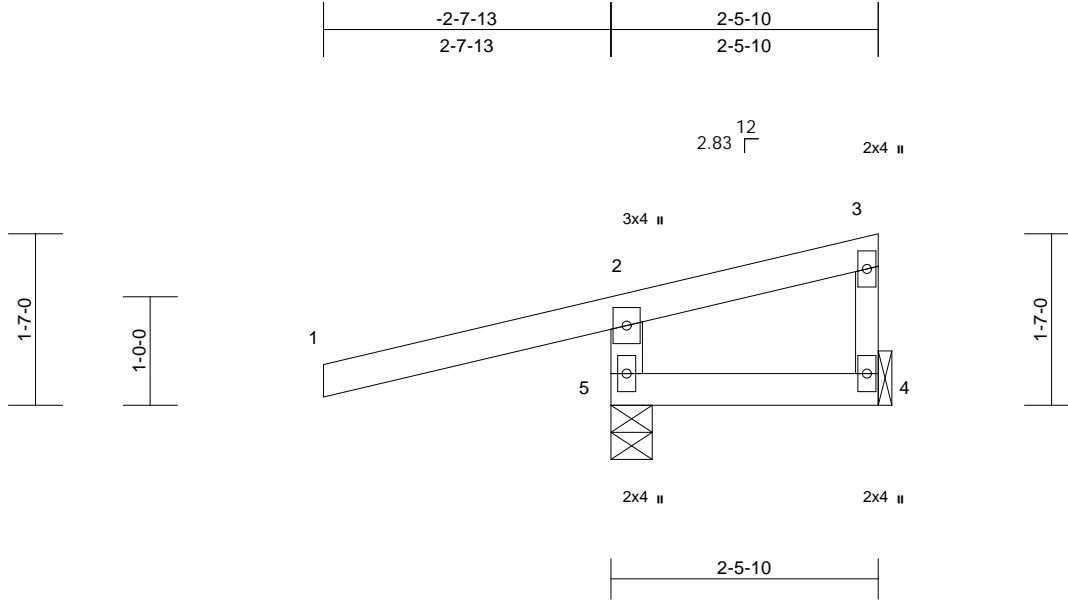
Job	Truss	Truss Type	Qty	Ply	Lot 173 HM	
B240133	J14	Diagonal Hip Girder	1	1	Job Reference (optional)	I64360262

Wheeler Lumber, Waverly, KS - 66871,

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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	0.63	Vert(LL)	0.00	4-5	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.10	Vert(CT)	0.00	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)	0.00	4-5	>999	240	Weight: 10 lb	FT = 10%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or
2-5-10 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc
bracing.

REACTIONS (size) 4= Mechanical, 5=0-4-9
Max Horiz 5=78 (LC 7)
Max Uplift 4=-24 (LC 1), 5=-206 (LC 4)
Max Grav 4=50 (LC 4), 5=419 (LC 1)

FORCES (lb) - Maximum Compression/Maximum
Tension

TOP CHORD 2-5=-367/205, 1-2=0/45, 2-3=-25/34,
3-4=-22/16

BOT CHORD 4-5=-41/38

NOTES

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust)
Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat.
II; Exp C; Enclosed; MWFRS (envelope) exterior zone;
cantilever left and right exposed; end vertical left and
right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom
chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf
on the bottom chord in all areas where a rectangle
3-06-00 tall by 2-00-00 wide will fit between the bottom
chord and any other members.
- 4) All bearings are assumed to be SPF No.2 .
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to
bearing plate capable of withstanding 206 lb uplift at joint
5 and 24 lb uplift at joint 4.
- 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



March 21, 2024

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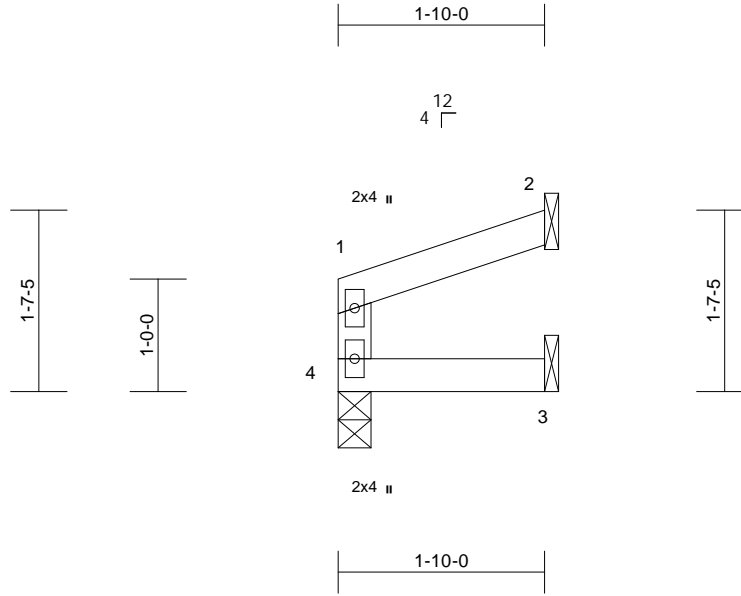
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Job	Truss	Truss Type	Qty	Ply	Lot 173 HM	I64360263
B240133	J15	Jack-Open	1	1	Job Reference (optional)	

Wheeler Lumber, Waverly, KS - 66871,

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Page: 1



Scale = 1:20.5

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	0.04	Vert(LL)	0.00	3-4	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.02	Vert(CT)	0.00	3-4	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	2	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R		Wind(LL)	0.00	3-4	>999	240	Weight: 5 lb	FT = 10%

LUMBER

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

BRACING

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

REACTIONS (size) 2= Mechanical, 3= Mechanical,
4=0-3-8
Max Horiz 4=32 (LC 5)
Max Uplift 2=-29 (LC 8), 4=-3 (LC 4)
Max Grav 2=55 (LC 1), 3=32 (LC 3), 4=75
(LC 1)

FORCES (lb) - Maximum Compression/Maximum
Tension

TOP CHORD 1-4=-62/19, 1-2=-22/14
BOT CHORD 3-4=0/0

NOTES

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust)
Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat.
II; Exp C; Enclosed; MWFRS (envelope) exterior zone;
cantilever left and right exposed; end vertical left and
right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom
chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf
on the bottom chord in all areas where a rectangle
3-06-00 tall by 2-00-00 wide will fit between the bottom
chord and any other members.
- 4) All bearings are assumed to be SPF No.2 .
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to
bearing plate capable of withstanding 3 lb uplift at joint 4
and 29 lb uplift at joint 2.
- 7) This truss is designed in accordance with the 2018
International Residential Code sections R502.11.1 and
R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



March 21, 2024

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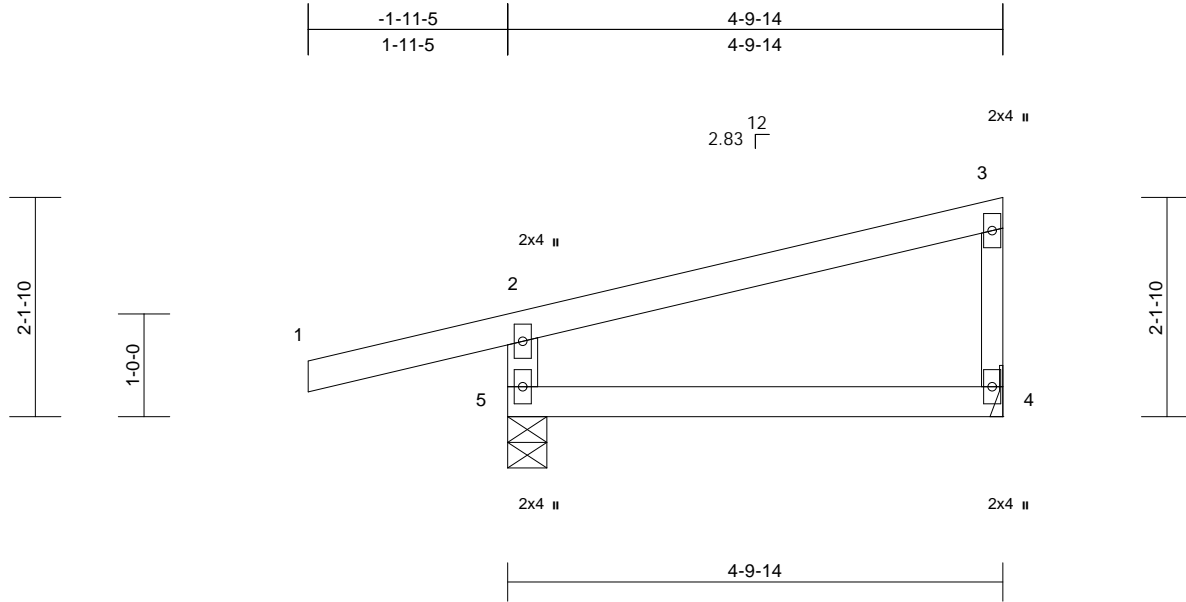
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Job	Truss	Truss Type	Qty	Ply	Lot 173 HM	I64360264
B240133	J16	Diagonal Hip Girder	1	1	Job Reference (optional)	

Wheeler Lumber, Waverly, KS - 66871,

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Page: 1



Scale = 1:22.5

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.34	Vert(LL)	-0.02	4-5	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.17	Vert(CT)	-0.03	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)	0.00	4-5	>999	240	Weight: 15 lb	FT = 10%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or
4-9-14 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=84 (LC 7)
Max Uplift 4=34 (LC 8), 5=141 (LC 4)
Max Grav 4=172 (LC 1), 5=386 (LC 1)

FORCES (lb) - Maximum Compression/Maximum
Tension

TOP CHORD 2-5=-340/169, 1-2=0/34, 2-3=-79/13,
3-4=-126/57

BOT CHORD 4-5=-22/28

NOTES

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust)
Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat.
II; Exp C; Enclosed; MWFRS (envelope) exterior zone;
cantilever left and right exposed; end vertical left and
right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom
chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf
on the bottom chord in all areas where a rectangle
3-06-00 tall by 2-00-00 wide will fit between the bottom
chord and any other members.
- 4) All bearings are assumed to be SPF No.2 .
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to
bearing plate capable of withstanding 141 lb uplift at joint
5 and 34 lb uplift at joint 4.
- 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



March 21, 2024

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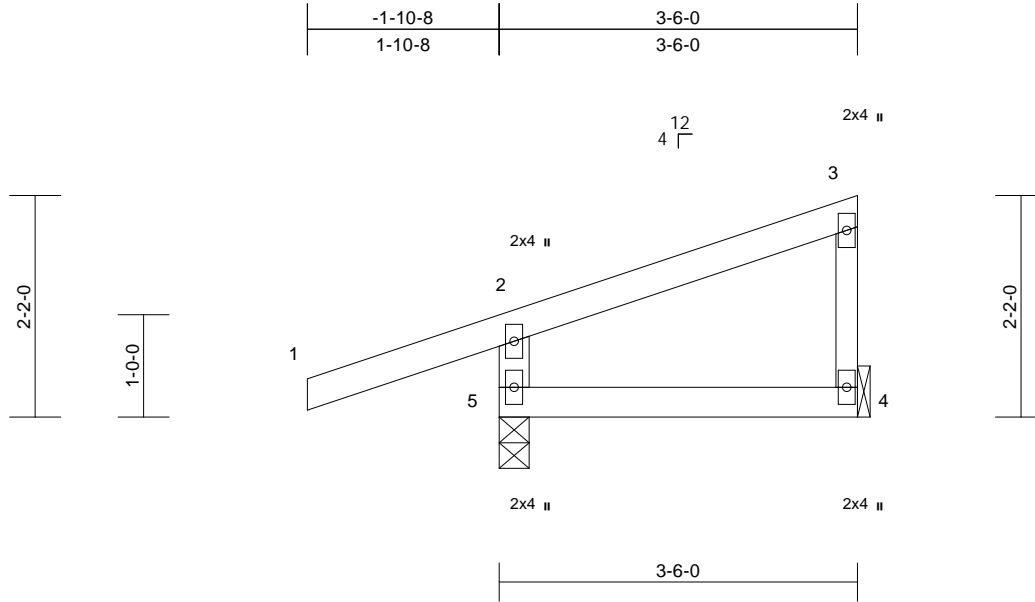
Job	Truss	Truss Type	Qty	Ply	Lot 173 HM	
B240133	J17	Jack-Closed	4	1	Job Reference (optional)	I64360265

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Scale = 1:22.5

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	0.28	Vert(LL)	0.00	4-5	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.08	Vert(CT)	-0.01	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)	0.00	4-5	>999	240	Weight: 12 lb	FT = 10%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or
3-6-0 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=92 (LC 5)
Max Uplift 4=-24 (LC 5), 5=-130 (LC 4)
Max Grav 4=102 (LC 1), 5=332 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 2-5=-293/149, 1-2=0/45, 2-3=-65/13,
3-4=-76/39

BOT CHORD 4-5=-27/21

NOTES

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust)
Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat.
II; Exp C; Enclosed; MWFRS (envelope) exterior zone;
cantilever left and right exposed; end vertical left and
right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom
chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf
on the bottom chord in all areas where a rectangle
3-06-00 tall by 2-00-00 wide will fit between the bottom
chord and any other members.
- 4) All bearings are assumed to be SPF No.2 .
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to
bearing plate capable of withstanding 130 lb uplift at joint
5 and 24 lb uplift at joint 4.
- 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



March 21, 2024

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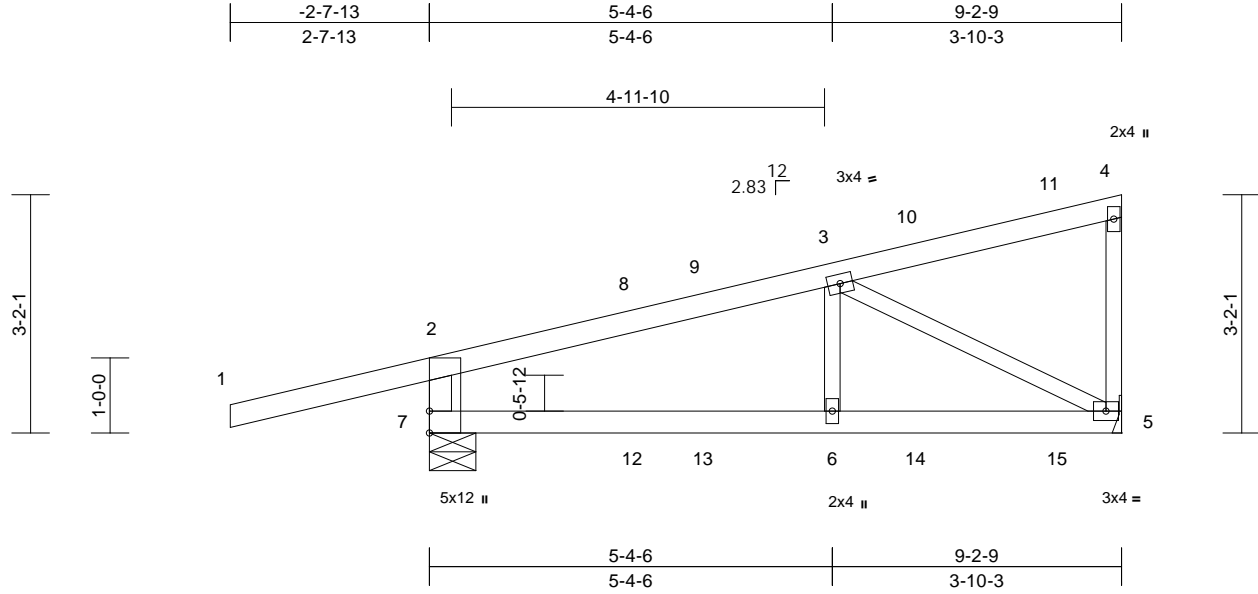
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Job	Truss	Truss Type	Qty	Ply	Lot 173 HM	I64360266
B240133	J18	Diagonal Hip Girder	2	1	Job Reference (optional)	

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Scale = 1:30.7

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.85	Vert(LL)	-0.05	5-6	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.43	Vert(CT)	-0.09	5-6	>999	240		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.21	Horz(CT)	0.01	5	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.05	5-6	>999	240	Weight: 32 lb	FT = 10%

LUMBER

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

BRACING

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

REACTIONS (size) 5= Mechanical, 7=0-7-6
Max Horiz 7=132 (LC 7)
Max Uplift 5=-116 (LC 8), 7=-212 (LC 4)
Max Grav 5=514 (LC 1), 7=645 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 2-7=-555/229, 1-2=0/45, 2-3=-542/90,
3-4=-88/34, 4-5=-210/92
BOT CHORD 6-7=-119/452, 5-6=-119/452
WEBS 3-6=0/202, 3-5=-477/120

NOTES

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust)
Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 4) All bearings are assumed to be SPF No.2.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 212 lb uplift at joint 7 and 116 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.

- 8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 73 lb down and 73 lb up at 2-8-7, 70 lb down and 28 lb up at 3-7-12, 87 lb down and 58 lb up at 5-6-6, and 98 lb down and 67 lb up at 6-5-11, and 119 lb down and 79 lb up at 8-4-5 on top chord, and 12 lb down and 16 lb up at 2-8-7, 8 lb down and 10 lb up at 3-7-12, 19 lb down at 5-6-6, and 26 lb down at 6-5-11, and 61 lb down at 8-4-5 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 9) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-2=-70, 2-4=-70, 5-7=-20
Concentrated Loads (lb)
Vert: 3=-1 (B), 6=-2 (B), 10=-21 (F), 11=-92 (B), 13=10 (F), 14=-12 (F), 15=-39 (B)



March 21, 2024

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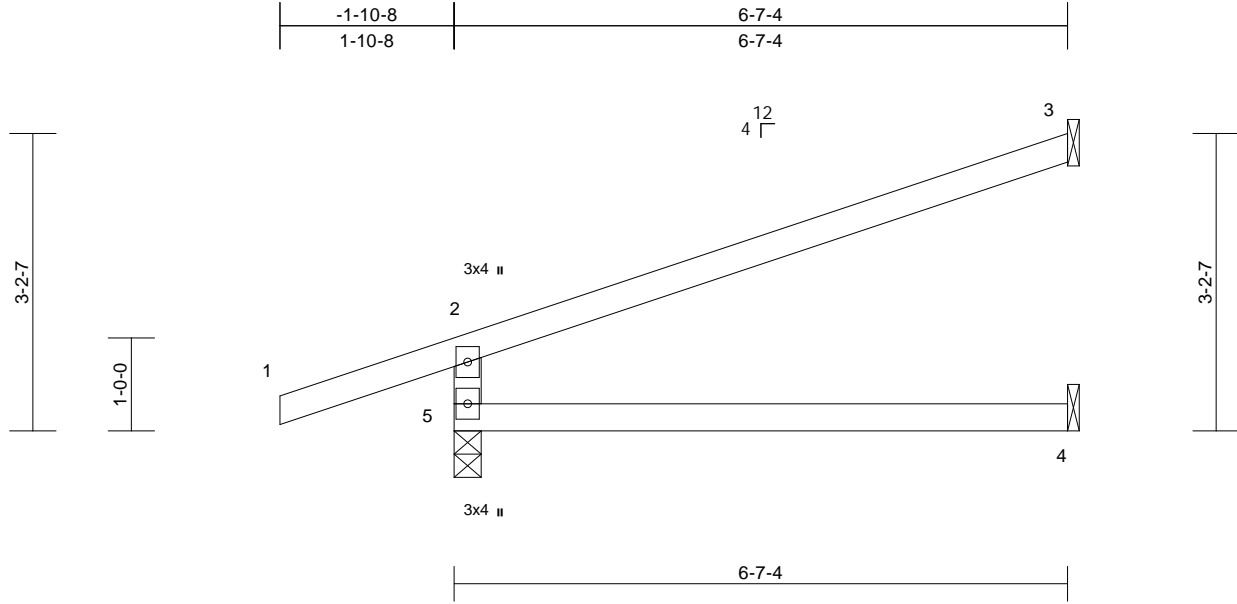
MiTek®
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DEVELOPMENT SERVICES
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07/11/2024 11:09:07

Job	Truss	Truss Type	Qty	Ply	Lot 173 HM	
B240133	J19	Jack-Open	15	1	Job Reference (optional)	I64360267

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.73 S Feb 22 2024 Print: 8.730 S Feb 22 2024 MiTek Industries, Inc. Wed Mar 20 09:09:16
ID:8kG3u?8DFUPNAbq2RW08yEz4SeX-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWRCDoi7J4zJC?f

Page: 1



Scale = 1:24.8

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	0.61	Vert(LL)	-0.08	4-5	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.38	Vert(CT)	-0.17	4-5	>461	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)	0.06	4-5	>999	240	Weight: 18 lb	FT = 10%

LUMBER

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

BRACING

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

REACTIONS (size) 3= Mechanical, 4= Mechanical, 5=0-3-8
Max Horiz 5=111 (LC 4)
Max Uplift 3=-92 (LC 8), 5=-127 (LC 4)
Max Grav 3=193 (LC 1), 4=119 (LC 3), 5=452 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 2-5=-396/181, 1-2=0/45, 2-3=-87/47
BOT CHORD 4-5=0/0

NOTES

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 4) All bearings are assumed to be SPF No.2.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 127 lb uplift at joint 5 and 92 lb uplift at joint 3.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



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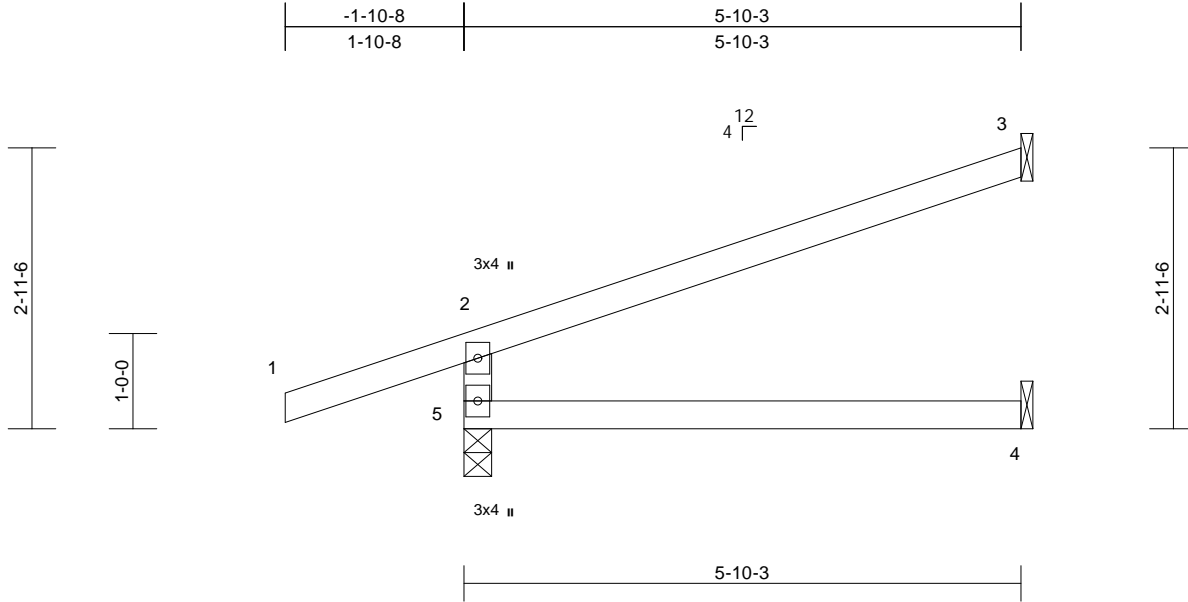
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Job	Truss	Truss Type	Qty	Ply	Lot 173 HM	
B240133	J20	Jack-Open	3	1	Job Reference (optional)	I64360268

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.73 S Feb 22 2024 Print: 8.730 S Feb 22 2024 MiTek Industries, Inc. Wed Mar 20 09:09:16
ID:8kG3u?8DFUPNAbq2RW08yEz4SeX-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:24.2

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.45	Vert(LL)	-0.05	4-5	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.29	Vert(CT)	-0.10	4-5	>681	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.04	3	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R		Wind(LL)	0.04	4-5	>999	240	Weight: 17 lb	FT = 10%

LUMBER

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

LOAD CASE(S) Standard

BRACING

TOP CHORD Structural wood sheathing directly applied or
5-10-3 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=101 (LC 4)
Max Uplift 3=-81 (LC 8), 5=-123 (LC 4)
Max Grav 3=168 (LC 1), 4=104 (LC 3), 5=421
(LC 1)

FORCES (lb) - Maximum Compression/Maximum
Tension

TOP CHORD 2-5=-369/171, 1-2=0/45, 2-3=-77/40
BOT CHORD 4-5=0/0

NOTES

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust)
Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat.
II; Exp C; Enclosed; MWFRS (envelope) exterior zone;
cantilever left and right exposed; end vertical left and
right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom
chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf
on the bottom chord in all areas where a rectangle
3-06-00 tall by 2-00-00 wide will fit between the bottom
chord and any other members.
- 4) All bearings are assumed to be SPF No.2 .
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to
bearing plate capable of withstanding 123 lb uplift at joint
5 and 81 lb uplift at joint 3.
- 7) This truss is designed in accordance with the 2018
International Residential Code sections R502.11.1 and
R802.10.2 and referenced standard ANSI/TPI 1.

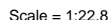


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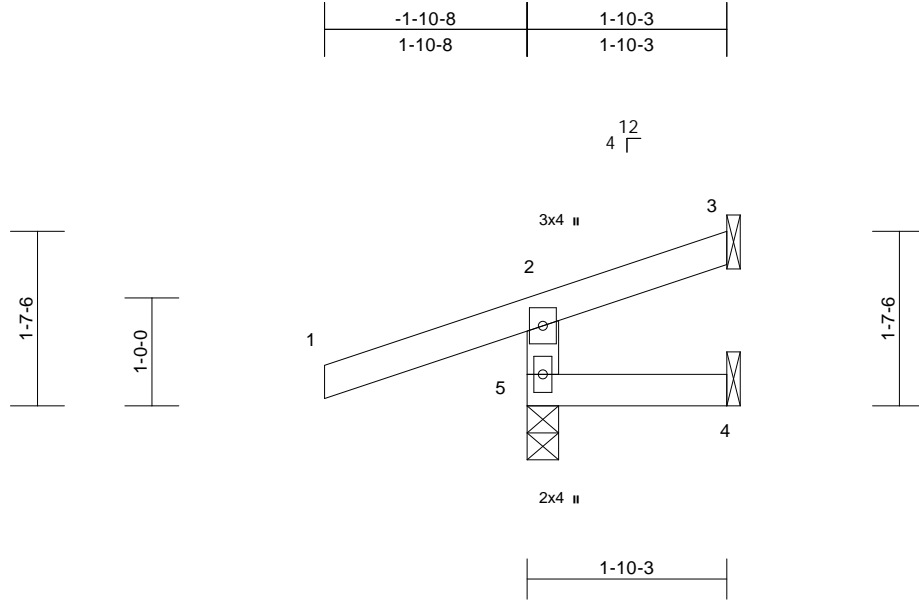


Job	Truss	Truss Type	Qty	Ply	Lot 173 HM	I64360270
B240133	J22	Jack-Open	4	1	Job Reference (optional)	

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.73 S Feb 22 2024 Print: 8.730 S Feb 22 2024 MiTek Industries, Inc. Wed Mar 20 09:17
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Page: 1



Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.28	Vert(LL)	0.00	4-5	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.07	Vert(CT)	0.00	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)	0.00	4-5	>999	240	Weight: 7 lb	FT = 10%

LUMBER

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

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

LOAD CASE(S) Standard

BRACING

TOP CHORD Structural wood sheathing directly applied or 1-10-3 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=47 (LC 4)
Max Uplift 3=-12 (LC 8), 4=-6 (LC 1), 5=-131 (LC 4)
Max Grav 3=4 (LC 19), 4=25 (LC 3), 5=302 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 2-5=-262/137, 1-2=0/45, 2-3=-38/1
BOT CHORD 4-5=0/0

NOTES

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 4) All bearings are assumed to be SPF No.2 .
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 131 lb uplift at joint 5, 6 lb uplift at joint 4 and 12 lb uplift at joint 3.



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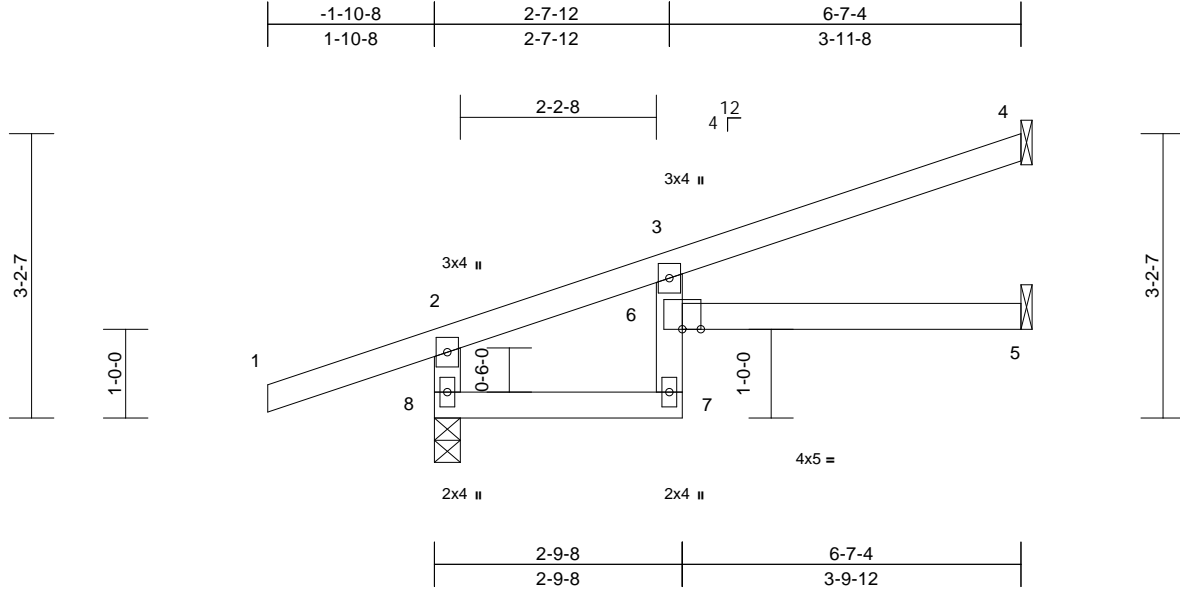
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Job	Truss	Truss Type	Qty	Ply	Lot 173 HM	
B240133	J23	Jack-Open	3	1	Job Reference (optional)	I64360271

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.73 S Feb 22 2024 Print: 8.730 S Feb 22 2024 MiTek Industries, Inc. Wed Mar 20 09:09:17
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Page: 1



Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.50	Vert(LL)	-0.10	5-6	>782	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.37	Vert(CT)	-0.18	5-6	>420	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.07	5	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R		Wind(LL)	0.11	5-6	>719	240	Weight: 20 lb	FT = 10%

LUMBER

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

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

LOAD CASE(S) Standard

BRACING

TOP CHORD Structural wood sheathing directly applied or 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=111 (LC 4)
Max Uplift 4=-75 (LC 8), 8=-127 (LC 4)
Max Grav 4=183 (LC 1), 5=103 (LC 3), 8=452 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 2-8=-404/145, 1-2=0/45, 2-3=-211/11, 3-4=-37/49
BOT CHORD 7-8=-70/135, 6-7=0/41, 3-6=-3/94, 5-6=0/0

NOTES

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 4) All bearings are assumed to be SPF No.2.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 127 lb uplift at joint 8 and 75 lb uplift at joint 4.



March 21, 2024

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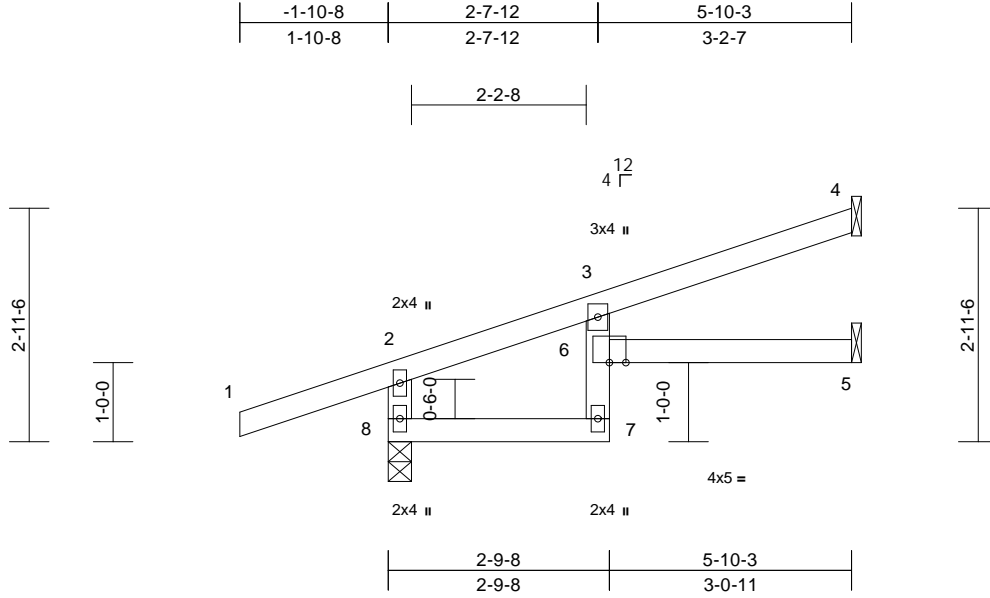
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Job	Truss	Truss Type	Qty	Ply	Lot 173 HM	I64360272
B240133	J24	Jack-Open	1	1	Job Reference (optional)	

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.73 S Feb 22 2024 Print: 8.730 S Feb 22 2024 MiTek Industries, Inc. Wed Mar 20 09:09:17
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Page: 1



Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.35	Vert(LL)	-0.06	6	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.27	Vert(CT)	-0.10	5-6	>654	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.04	5	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R		Wind(LL)	0.06	5-6	>999	240	Weight: 18 lb	FT = 10%

LUMBER

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

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

LOAD CASE(S) Standard

BRACING

TOP CHORD Structural wood sheathing directly applied or 5-10-3 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=101 (LC 4)
Max Uplift 4=63 (LC 8), 8=123 (LC 4)
Max Grav 4=156 (LC 1), 5=88 (LC 3), 8=421 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 2-8=-376/142, 1-2=0/45, 2-3=-171/6, 3-4=-31/42
BOT CHORD 7-8=-56/102, 6-7=0/42, 3-6=-5/79, 5-6=0/0

NOTES

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 4) All bearings are assumed to be SPF No.2.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 123 lb uplift at joint 8 and 63 lb uplift at joint 4.



March 21, 2024

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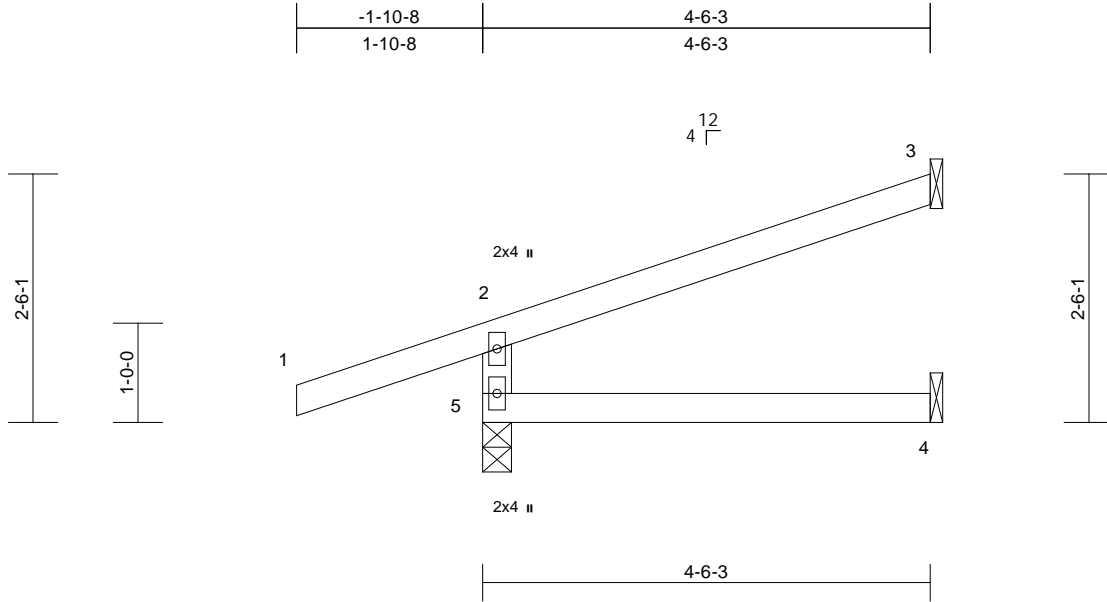
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Job	Truss	Truss Type	Qty	Ply	Lot 173 HM	I64360273
B240133	J25	Jack-Open	2	1	Job Reference (optional)	

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.73 S Feb 22 2024 Print: 8.730 S Feb 22 2024 MiTek Industries, Inc. Wed Mar 20 09:09:17
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Page: 1



Scale = 1:23.2

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.28	Vert(LL)	-0.02	4-5	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.16	Vert(CT)	-0.03	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: 14 lb	FT = 10%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or
4-6-3 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=83 (LC 4)
Max Uplift 3=-61 (LC 8), 5=-119 (LC 4)
Max Grav 3=120 (LC 1), 4=78 (LC 3), 5=368
(LC 1)

FORCES (lb) - Maximum Compression/Maximum
Tension

TOP CHORD 2-5=-323/154, 1-2=0/45, 2-3=-60/28
BOT CHORD 4-5=0/0

NOTES

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust)
Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat.
II; Exp C; Enclosed; MWFRS (envelope) exterior zone;
cantilever left and right exposed; end vertical left and
right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom
chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf
on the bottom chord in all areas where a rectangle
3-06-00 tall by 2-00-00 wide will fit between the bottom
chord and any other members.
- 4) All bearings are assumed to be SPF No.2 .
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to
bearing plate capable of withstanding 119 lb uplift at joint
5 and 61 lb uplift at joint 3.
- 7) This truss is designed in accordance with the 2018
International Residential Code sections R502.11.1 and
R802.10.2 and referenced standard ANSI/TPI 1.



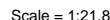
March 21, 2024

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

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

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Wheeler Lumber, Waverly, KS - 66871, Run: 8.73 S Feb 22 2024 Print: 8.730 S Feb 22 2024 MiTek Industries, Inc. Wed Mar 20 09:09:17 Page: 1
ID:8kG3u?8DFUPNAbQ2RW08vEz4SeX-RfC?PsB70Hg3NSaPanL8w3uITxbGKWrcDoi7J4zJC?j

LUMBER LOAD CASE(S) Standard

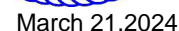
BRACING	
TOP CHORD	Structural wood sheathing directly applied or 2-6-3 cc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 cc bracing.

REACTIONS (size) 3= Mechanical, 4= Mechanical,
5=0-5-8
Max Horiz 5=56 (LC 4)
Max Uplift 3=27 (LC 8), 5=123 (LC 4)
Max Grav 3=35 (LC 1), 4=38 (LC 3), 5=307
(LC 1)

FORCES	(lb) - Maximum Compression/Maximum Tension
TOP CHORD	2-5=-268/136, 1-2=0/45, 2-3=-40/6
BOT CHORD	4-5=0/0

NOTES

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust)
Vasd=91mph; TC DL=6.0psf; BC DL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 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 .
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 123 lb uplift at joint 5 and 27 lb uplift at joint 3.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



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

WARNING – verify design parameters and noted notes on this and included MiTek Reference Tag M7473 Rev. 1/2/2023 before use. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TP1 Quality Criteria, and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcsccomponents.com)

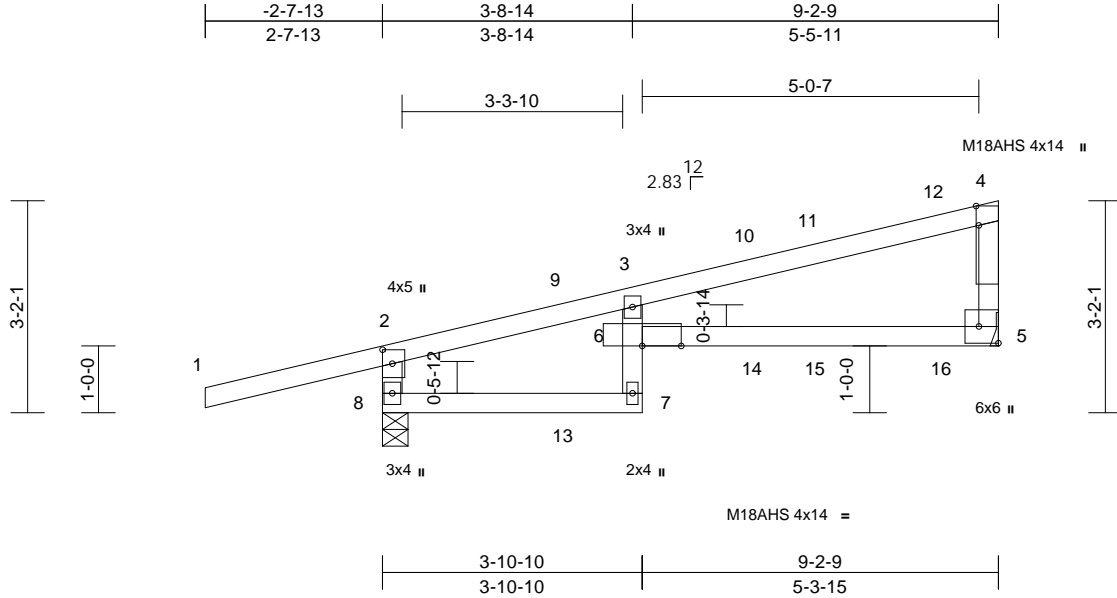
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16023 Swingley Ridge Rd
Crestwood, MO 63074
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Job	Truss	Truss Type	Qty	Ply	Lot 173 HM	I64360275
B240133	J27	Diagonal Hip Girder	1	1	Job Reference (optional)	

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.73 S Feb 22 2024 Print: 8.730 S Feb 22 2024 MiTek Industries, Inc. Wed Mar 20 09:09:17
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Page: 1



Scale = 1:34.5												
Plate Offsets (X, Y): [2:0-2-8,0-1-12], [4:0-3-8,Edge], [5:Edge,0-3-8]												
Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.65	Vert(LL)	-0.24	5-6	>455	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.49	Vert(CT)	-0.44	5-6	>242	240	M18AHS	142/136
BCLL	0.0*	Rep Stress Incr	NO	WB	0.00	Horz(CT)	0.11	5	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R		Wind(LL)	0.25	5-6	>435	240	Weight: 28 lb	FT = 10%

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

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

REACTIONS (size) 5= Mechanical, 8=0-4-9
Max Horiz 8=115 (LC 5)
Max Uplift 5=120 (LC 8), 8=218 (LC 4)
Max Grav 5=528 (LC 1), 8=651 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 2-8=-580/231, 1-2=-0/45, 2-3=-447/75, 3-4=-298/59, 4-5=-320/119
BOT CHORD 7-8=-96/351, 6-7=-11/54, 3-6=-21/101, 5-6=-73/262

NOTES
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
2) All plates are MT20 plates unless otherwise indicated.
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
5) Bearings are assumed to be: Joint 8 SPF 2100F 1.8E, Joint 5 SPF No.2.
6) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 218 lb uplift at joint 8 and 120 lb uplift at joint 5.

- 8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 9) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 73 lb down and 73 lb up at 2-8-7, 70 lb down and 28 lb up at 3-7-12, 86 lb down and 40 lb up at 5-6-6, and 98 lb down and 50 lb up at 6-5-11, and 110 lb down and 63 lb up at 8-4-5 on top chord, and 12 lb down and 16 lb up at 2-8-7, 8 lb down and 10 lb up at 3-8-14, 21 lb down and 27 lb up at 5-6-6, and 27 lb down and 23 lb up at 6-5-11, and 51 lb down at 8-4-5 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 10) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).
- LOAD CASE(S)** Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-2=-70, 2-4=-70, 7-8=-20, 5-6=-20
Concentrated Loads (lb)
Vert: 7=10 (F), 10=-5 (B), 11=-13 (F), 12=-81 (B), 14=-14 (B), 15=-25 (F), 16=-51 (B)



March 21, 2024

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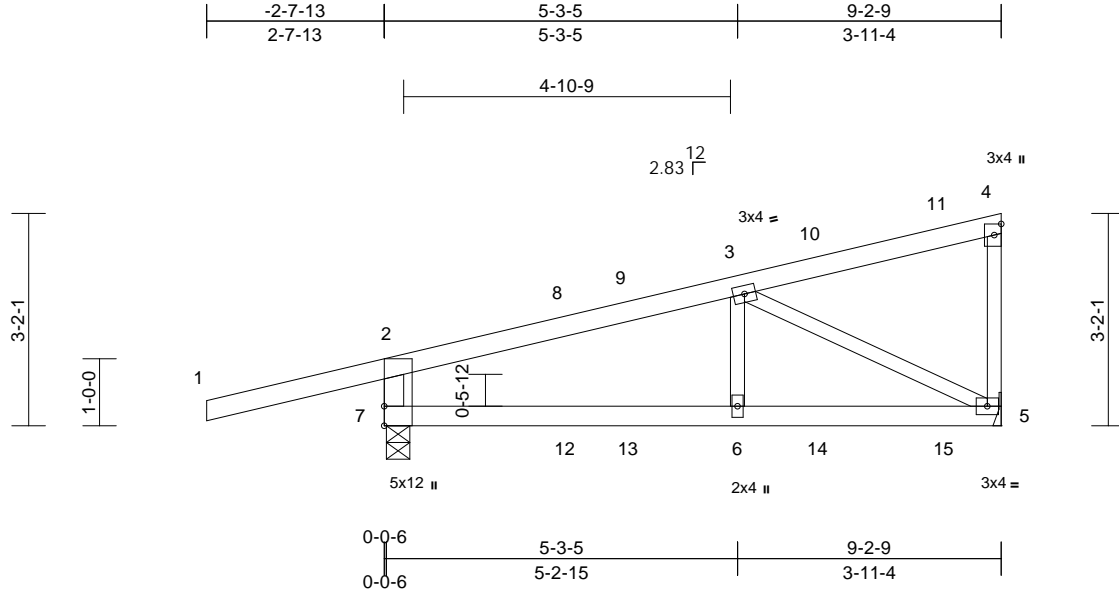
Job	Truss	Truss Type	Qty	Ply	Lot 173 HM	164360276
B240133	J28	Diagonal Hip Girder	1	1	Job Reference (optional)	

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.73 S Feb 22 2024 Print: 8.730 S Feb 22 2024 MiTek Industries, Inc. Wed Mar 20 09:09:17

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Scale = 1:34.4

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.91	Vert(LL)	-0.06	5-6	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.50	Vert(CT)	-0.11	5-6	>978	240		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.25	Horz(CT)	0.01	5	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.05	5-6	>999	240	Weight: 32 lb	FT = 10%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 5-9-9 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (size) 5= Mechanical, 7=0-4-3
Max Horiz 7=132 (LC 5)
Max Uplift 5=-124 (LC 5), 7=-218 (LC 4)
Max Grav 5=578 (LC 1), 7=682 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 2-7=-580/232, 1-2=0/45, 2-3=-612/100, 3-4=-99/34, 4-5=-232/98

BOT CHORD 6-7=-149/520, 5-6=-149/520
WEBS 3-6=0/217, 3-5=-545/136

NOTES

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 4) All bearings are assumed to be SPF No.2.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 218 lb uplift at joint 7 and 124 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.

- 8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 73 lb down and 73 lb up at 2-8-7, 87 lb down and 58 lb up at 3-7-12, 87 lb down and 58 lb up at 5-6-6, and 116 lb down and 81 lb up at 6-5-11, and 119 lb down and 79 lb up at 8-4-5 on top chord, and 12 lb down and 16 lb up at 2-8-7, 18 lb down at 3-7-12, 19 lb down at 5-6-6, and 44 lb down at 6-5-11, and 61 lb down at 8-4-5 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 9) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-2=-70, 2-4=-70, 5-7=-20
Concentrated Loads (lb)
Vert: 3=-1 (F), 6=-2 (F), 9=-3 (B), 10=-71 (B), 11=-92 (F), 13=-9 (B), 14=-40 (B), 15=-39 (F)



March 21, 2024

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

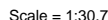
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall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

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Page: 1



LUMBER

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

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

LOAD CASE(S) Standard

BRACING

TOP CHORD	Structural wood sheathing directly applied or 3-10-3 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=74 (LC 4)
Max Uplift		4=-28 (LC 8), 5=-10 (LC 8), 8=-119 (LC 4)
Max Grav		4=82 (LC 1), 5=50 (LC 3), 8=345 (LC 1)

FORCES

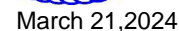
(lb) - Maximum Compression/Maximum Tension

TOP CHORD 2-8=-306/136, 1-2=0/45, 2-3=-74/0,
3-4=-13/23

BOT CHORD 7-8=-22/34. 6-7=0/45. 3-6=-8/41. 5-6=0/0

NOTES

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust)
Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 4) All bearings are assumed to be SPF No.2 .
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 119 lb uplift at joint 8, 28 lb uplift at joint 4 and 10 lb uplift at joint 5.



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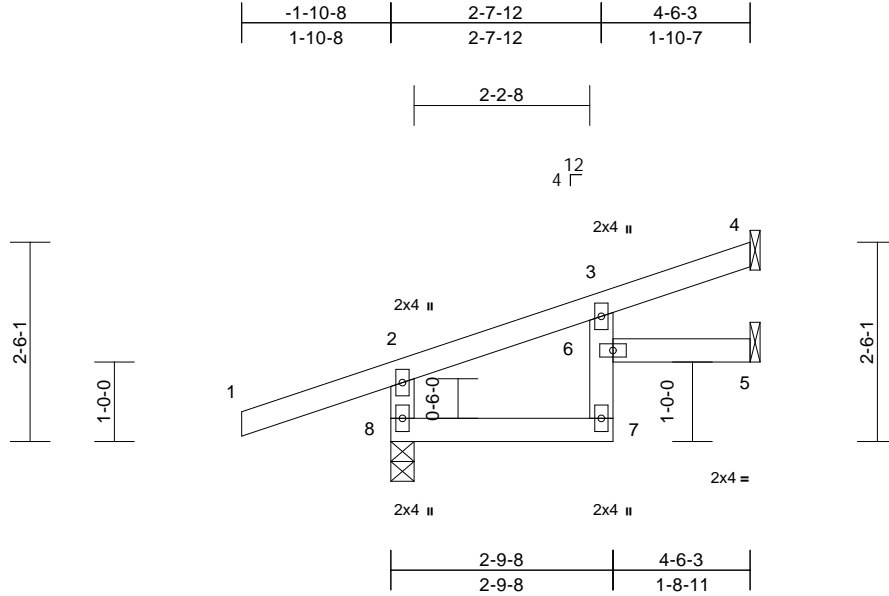
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Job	Truss	Truss Type	Qty	Ply	Lot 173 HM	
B240133	J30	Jack-Open	1	1	Job Reference (optional)	I64360278

Wheeler Lumber, Waverly, KS - 66871,

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Page: 1



Scale = 1:29

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.28	Vert(LL)	-0.01	6	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.12	Vert(CT)	-0.03	7	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.01	5	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R		Wind(LL)	0.02	6	>999	240	Weight: 15 lb	FT = 10%

LUMBER

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

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

LOAD CASE(S) Standard

BRACING

TOP CHORD Structural wood sheathing directly applied or 4-6-3 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=83 (LC 4)
Max Uplift 4=-41 (LC 8), 5=-6 (LC 8), 8=-119 (LC 4)
Max Grav 4=107 (LC 1), 5=63 (LC 3), 8=368 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 2-8=-327/136, 1-2=0/45, 2-3=-104/0, 3-4=-19/30
BOT CHORD 7-8=-32/52, 6-7=0/44, 3-6=-9/53, 5-6=0/0

NOTES

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 4) All bearings are assumed to be SPF No.2.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 119 lb uplift at joint 8, 41 lb uplift at joint 4 and 6 lb uplift at joint 5.



March 21, 2024

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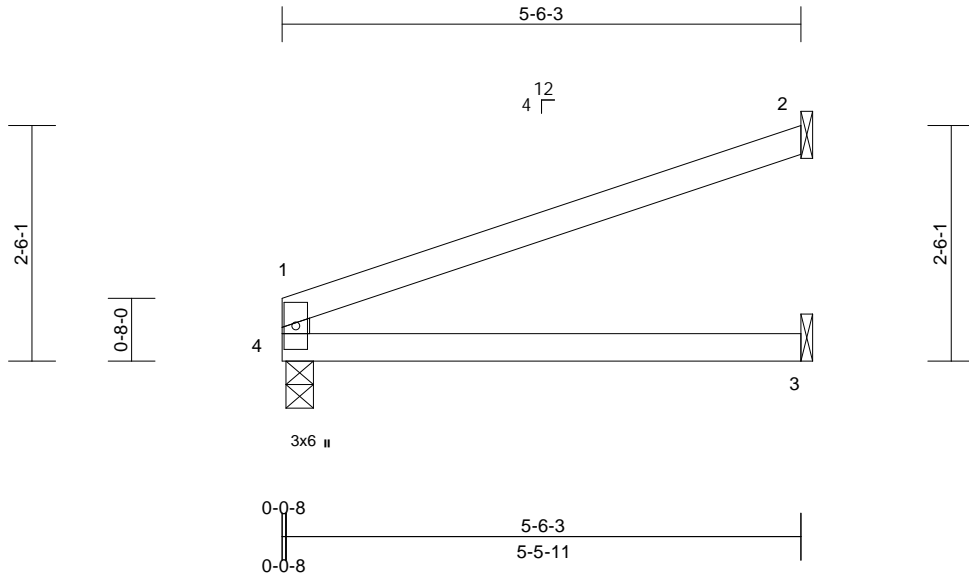
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Job	Truss	Truss Type	Qty	Ply	Lot 173 HM	I64360279
B240133	J31	Jack-Open	1	1	Job Reference (optional)	

Wheeler Lumber, Waverly, KS - 66871,

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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)	-0.04	3-4	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.27	Vert(CT)	-0.08	3-4	>764	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.03	2	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R		Wind(LL)	0.04	3-4	>999	240	Weight: 13 lb	FT = 10%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or
5-6-3 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc
bracing.

REACTIONS (size) 2= Mechanical, 3= Mechanical,
4=0-3-8
Max Horiz 4=66 (LC 8)
Max Uplift 2=77 (LC 8), 4=27 (LC 4)
Max Grav 2=170 (LC 1), 3=101 (LC 3), 4=239
(LC 1)

FORCES (lb) - Maximum Compression/Maximum
Tension

TOP CHORD 1-4=-201/75, 1-2=-70/42
BOT CHORD 3-4=0/0

NOTES

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust)
Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat.
II; Exp C; Enclosed; MWFRS (envelope) exterior zone;
cantilever left and right exposed; end vertical left and
right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom
chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf
on the bottom chord in all areas where a rectangle
3-06-00 tall by 2-00-00 wide will fit between the bottom
chord and any other members.
- 4) All bearings are assumed to be SPF No.2 .
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to
bearing plate capable of withstanding 27 lb uplift at joint
4 and 77 lb uplift at joint 2.
- 7) This truss is designed in accordance with the 2018
International Residential Code sections R502.11.1 and
R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



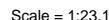
March 21, 2024

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DEVELOPMENT SERVICES
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Wheeler Lumber, Waverly, KS - 66871, Run: 8.73 S Feb 22 2024 Print: 8.730 S Feb 22 2024 MiTek Industries, Inc. Wed Mar 20 09:09:18 Page: 1
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LUMBER	LOAD CASE(S)	Standard
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BRACING	
TOP CHORD	Structural wood sheathing directly applied or 3-6-3 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

FORCES	(lb) - Maximum Compression/Maximum Tension
TOP CHORD	2-5=-203/92, 1-2=0/23, 2-3=-45/24
BOT CHORD	4-5=0/0

STATE OF MISSOURI
NATHANIEL
FOX
ENGINEER
PE-2022042259
PROFESSIONAL ENGINEER

March 21, 2024

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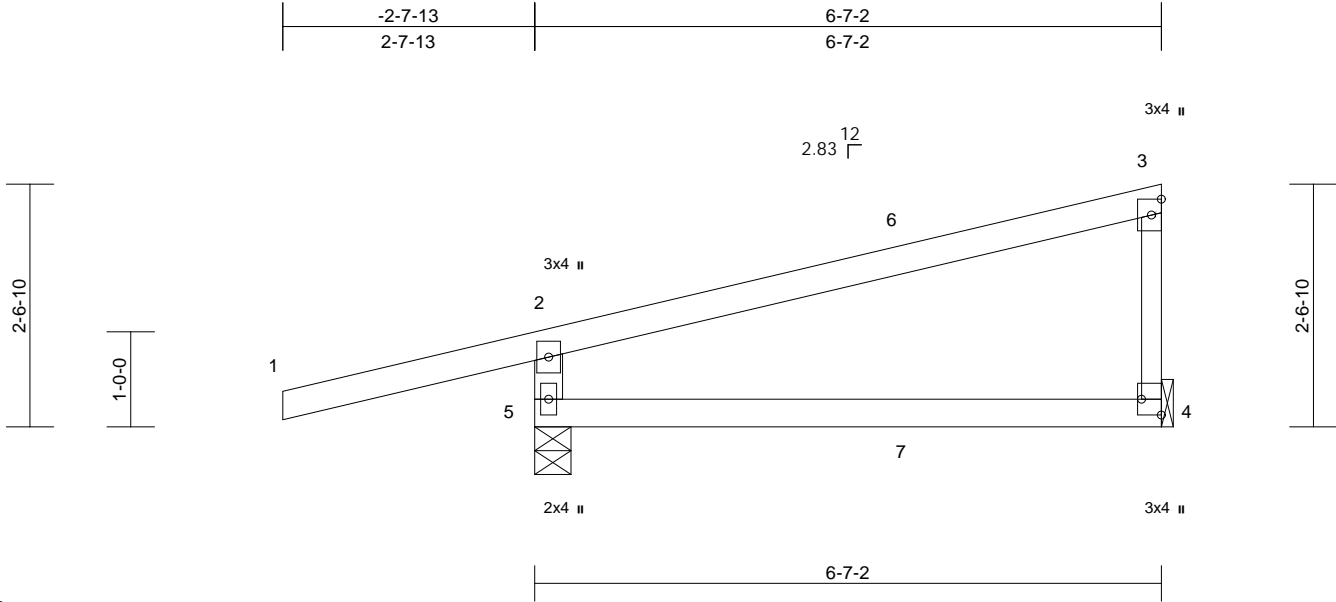
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16023 Swingley Ridge Rd
Crestwood, MO 63070
P: 636.412.0000
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Job	Truss	Truss Type	Qty	Ply	Lot 173 HM	I64360281
B240133	J33	Diagonal Hip Girder	2	1	Job Reference (optional)	

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.73 S Feb 22 2024 Print: 8.730 S Feb 22 2024 MiTek Industries, Inc. Wed Mar 20 09:18
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Page: 1



Scale = 1:24.2

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.63	Vert(LL)	-0.06	4-5	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.35	Vert(CT)	-0.12	4-5	>613	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)	-0.02	4-5	>999	240	Weight: 21 lb	FT = 10%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 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=0-4-9
Max Horiz 5=105 (LC 5)
Max Uplift 4=46 (LC 8), 5=190 (LC 4)
Max Grav 4=231 (LC 1), 5=517 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 2-5=-463/230, 1-2=0/45, 2-3=-130/16,
3-4=-177/79

BOT CHORD 4-5=-27/56

NOTES

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust)
Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 4) All bearings are assumed to be SPF No.2 .
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 190 lb uplift at joint 5 and 46 lb uplift at joint 4.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

- 8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 70 lb down and 32 lb up at 3-10-4, and 70 lb down and 32 lb up at 3-10-4 on top chord, and 9 lb down and 9 lb up at 3-10-4, and 9 lb down and 9 lb up at 3-10-4 on bottom chord. The design/selection of such connection device (s) is the responsibility of others.
- 9) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-2=-70, 2-3=-70, 4-5=-20
Concentrated Loads (lb)
Vert: 7=19 (F=9, B=9)

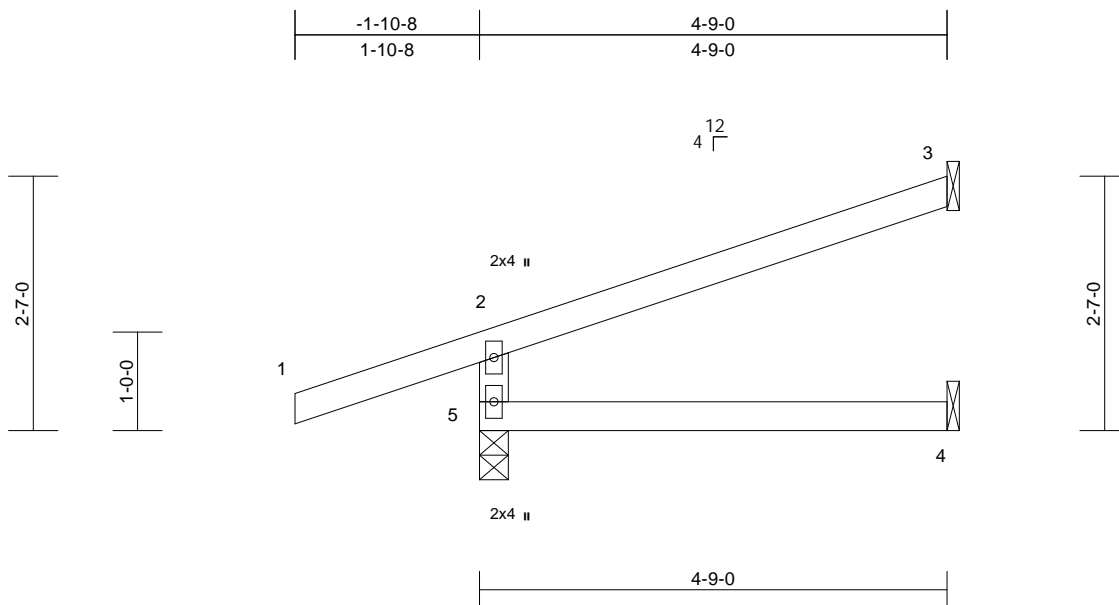


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Scale = 1:23.4

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.28	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)	0.02	3	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R		Wind(LL)	0.01	4-5	>999	240	Weight: 14 lb	FT = 10%

LUMBER

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

BRACING

TOP CHORD	Structural wood sheathing directly applied or 4-9-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS

(size) 3= Mechanical, 4= Mechanical,
5=0-3-8
Max Horiz 5=86 (LC 4)
Max Uplift 3=-65 (LC 8), 5=-120 (LC 4)
Max Grav 3=129 (LC 1), 4=83 (LC 3), 5=377
(LC 1)

FORCES

FORCES	(lb) - Maximum Compression/Maximum Tension
TOP CHORD	2-5=-331/156, 1-2=0/45, 2-3=-63/31
BOT CHORD	4-5=0/0

NOTES

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust)
Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 4) All bearings are assumed to be SPF No.2 .
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 120 lb uplift at joint 5 and 65 lb uplift at joint 3.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



March 21, 2024



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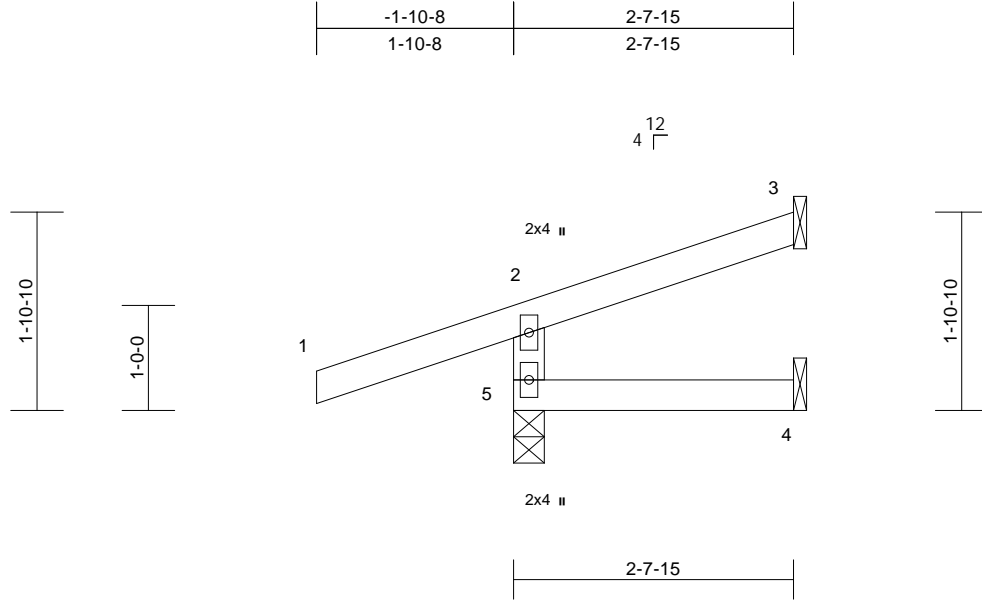
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16023 Swingley Ridge Rd
Crescentville, MO 65017
816.420.1111
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Job	Truss	Truss Type	Qty	Ply	Lot 173 HM	
B240133	J35	Jack-Open	4	1	Job Reference (optional)	I64360283

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.73 S Feb 22 2024 Print: 8.730 S Feb 22 2024 MiTek Industries, Inc. Wed Mar 20 09:09:18
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Scale = 1:21.9

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	0.28	Vert(LL)	0.00	4-5	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.07	Vert(CT)	0.00	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)	0.00	4-5	>999	240	Weight: 9 lb	FT = 10%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or
2-7-15 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc
bracing.

REACTIONS (size) 3= Mechanical, 4= Mechanical,
5=0-3-8
Max Horiz 5=58 (LC 4)
Max Uplift 3=-29 (LC 8), 5=-121 (LC 4)
Max Grav 3=43 (LC 1), 4=41 (LC 3), 5=310
(LC 1)

FORCES (lb) - Maximum Compression/Maximum
Tension

TOP CHORD 2-5=-270/137, 1-2=0/45, 2-3=-41/8
BOT CHORD 4-5=0/0

NOTES

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust)
Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat.
II; Exp C; Enclosed; MWFRS (envelope) exterior zone;
cantilever left and right exposed; end vertical left and
right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom
chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf
on the bottom chord in all areas where a rectangle
3-06-00 tall by 2-00-00 wide will fit between the bottom
chord and any other members.
- 4) All bearings are assumed to be SPF No.2.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to
bearing plate capable of withstanding 121 lb uplift at joint
5 and 29 lb uplift at joint 3.
- 7) This truss is designed in accordance with the 2018
International Residential Code sections R502.11.1 and
R802.10.2 and referenced standard ANSI/TPI 1.



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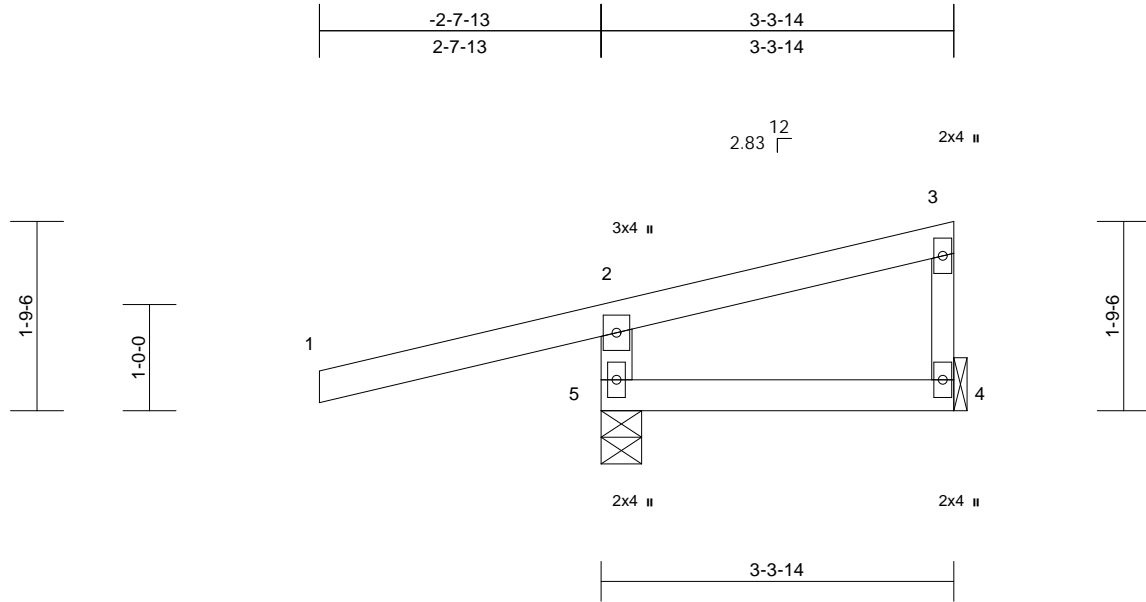
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Job	Truss	Truss Type	Qty	Ply	Lot 173 HM	I64360284
B240133	J36	Diagonal Hip Girder	1	1	Job Reference (optional)	

Wheeler Lumber, Waverly, KS - 66871,

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Page: 1



Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.63	Vert(LL)	0.00	4-5	>999	360	MT20
TCDL	10.0	Lumber DOL	1.15	BC	0.10	Vert(CT)	-0.01	4-5	>999	240	197/144
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)	0.00	4-5	>999	240	Weight: 12 lb FT = 10%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or
3-3-14 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc
bracing.

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

Max Horiz 5=72 (LC 5)
Max Uplift 4=-9 (LC 5), 5=-192 (LC 4)
Max Grav 4=67 (LC 3), 5=423 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum
Tension

TOP CHORD 2-5=-372/200, 1-2=0/45, 2-3=-36/25,
3-4=-39/24

BOT CHORD 4-5=-31/34

NOTES

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust)
Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat.
II; Exp C; Enclosed; MWFRS (envelope) exterior zone;
cantilever left and right exposed; end vertical left and
right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom
chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf
on the bottom chord in all areas where a rectangle
3-06-00 tall by 2-00-00 wide will fit between the bottom
chord and any other members.
- 4) All bearings are assumed to be SPF No.2 .
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to
bearing plate capable of withstanding 192 lb uplift at joint
5 and 9 lb uplift at joint 4.
- 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



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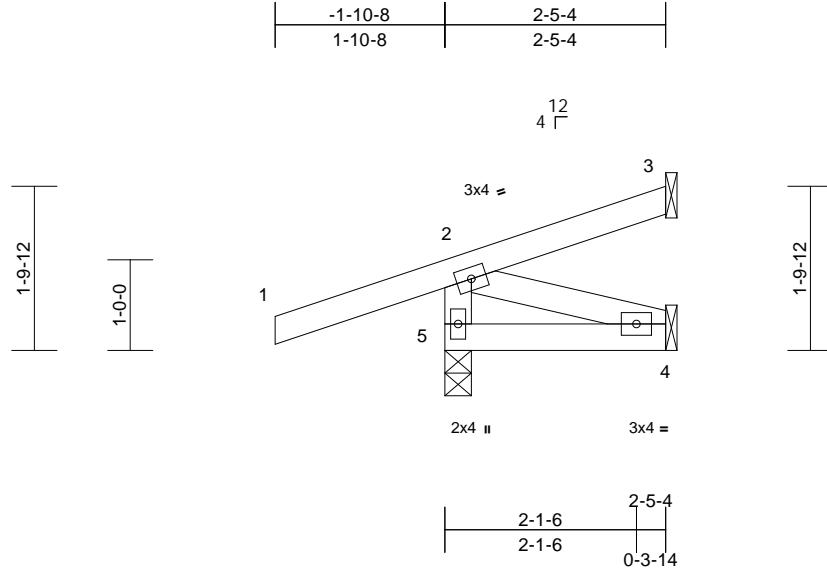
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Job	Truss	Truss Type	Qty	Ply	Lot 173 HM	I64360285
B240133	J37	Jack-Open	2	1	Job Reference (optional)	

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.73 S Feb 22 2024 Print: 8.730 S Feb 22 2024 MiTek Industries, Inc. Wed Mar 20 09:09:18
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Page: 1



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	0.28	Vert(LL)	0.00	4-5	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.05	Vert(CT)	0.00	4-5	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.01	Horz(CT)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 11 lb	FT = 10%

LUMBER

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

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

LOAD CASE(S) Standard

BRACING

TOP CHORD Structural wood sheathing directly applied or 2-5-4 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=54 (LC 4)
Max Uplift 3=-13 (LC 8), 4=-6 (LC 4), 5=-123 (LC 4)
Max Grav 3=14 (LC 18), 4=46 (LC 3), 5=307 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 2-5=-284/137, 1-2=0/45, 2-3=-45/1
BOT CHORD 4-5=-61/8
WEBS 2-4=-8/64

NOTES

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 4) All bearings are assumed to be SPF No.2 .
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 123 lb uplift at joint 5, 13 lb uplift at joint 3 and 6 lb uplift at joint 4.



March 21, 2024

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

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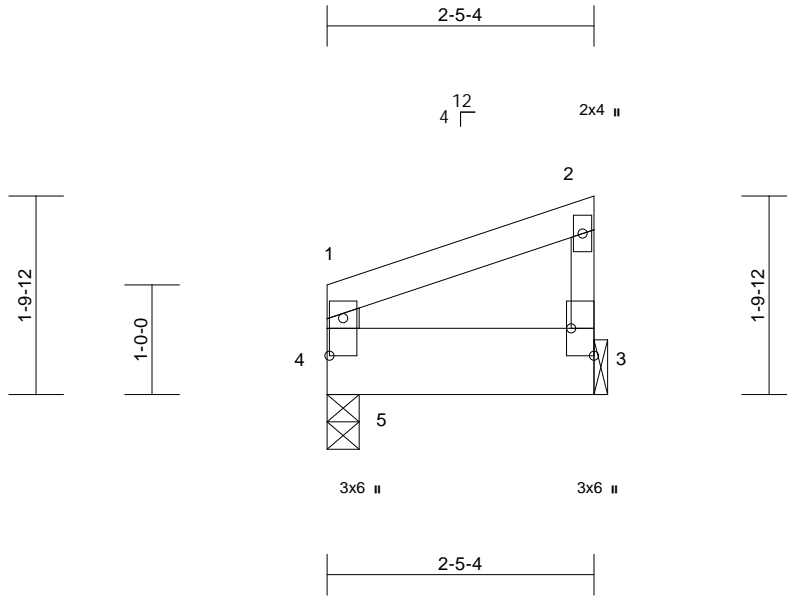
Job	Truss	Truss Type	Qty	Ply	Lot 173 HM
B240133	J38	Jack-Closed Girder	1	1	I64360286
Job Reference (optional)					

Wheeler Lumber, Waverly, KS - 66871,

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Page: 1

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Scale = 1:21

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

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	0.06	Vert(LL)	0.00	3-4	>999	360	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.08	Vert(CT)	0.00	3-4	>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	3-4	>999	240	Weight: 11 lb FT = 10%

LUMBER

TOP CHORD 2x4 SPF No.2
BOT CHORD 2x8 SP 2400F 2.0E
WEBS 2x4 SPF No.2 *Except* 2-3:2x3 SPF No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or 2-5-4 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (size) 3= Mechanical, 4=0-3-8
Max Horiz 4=55 (LC 7)
Max Uplift 3=50 (LC 8), 4=161 (LC 4)
Max Grav 3=292 (LC 1), 4=1103 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-4=-80/33, 1-2=-52/9, 2-3=-73/31
BOT CHORD 3-4=-18/19

NOTES

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 4) Bearings are assumed to be: Joint 4 SP 2400F 2.0E, Joint 3 SPF No.2.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 161 lb uplift at joint 4 and 50 lb uplift at joint 3.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

- 8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1199 lb down and 174 lb up at 0-6-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 9) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-2=-70, 3-4=-20
Concentrated Loads (lb)
Vert: 5=-1199 (F)



March 21, 2024

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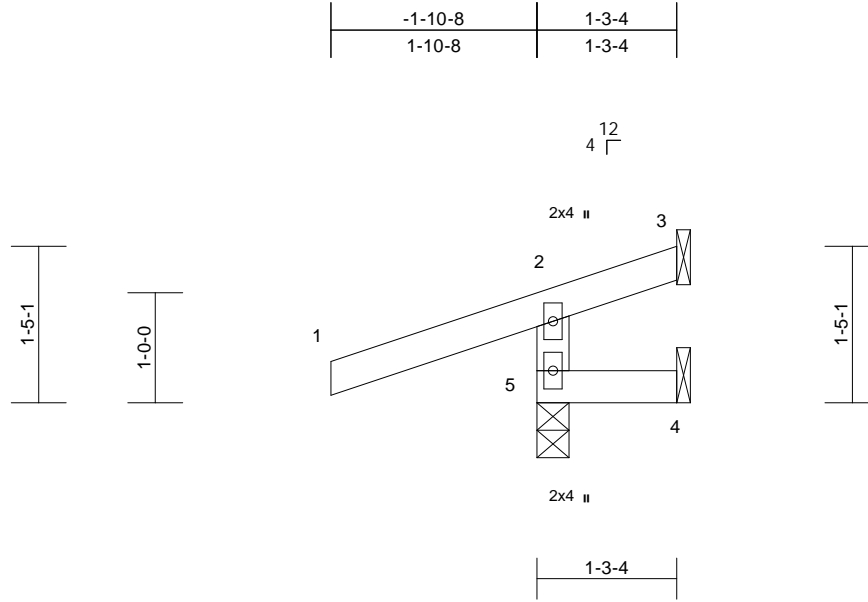
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Job	Truss	Truss Type	Qty	Ply	Lot 173 HM	
B240133	J40	Jack-Open	3	1	Job Reference (optional)	I64360288

Wheeler Lumber, Waverly, KS - 66871,

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Page: 1



Scale = 1:21

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.28	Vert(LL)	0.00	4-5	>999	360	MT20
TCDL	10.0	Lumber DOL	1.15	BC	0.07	Vert(CT)	0.00	4-5	>999	240	197/144
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	3	n/a	n/a	
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R		Wind(LL)	0.00	4-5	>999	240	Weight: 6 lb FT = 10%

LUMBER

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

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

LOAD CASE(S) Standard

BRACING

TOP CHORD Structural wood sheathing directly applied or 1-3-4 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=41 (LC 5)
Max Uplift 3=-57 (LC 1), 4=-21 (LC 1), 5=-151 (LC 4)
Max Grav 3=33 (LC 4), 4=13 (LC 4), 5=320 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 2-5=-277/151, 1-2=0/45, 2-3=-43/10
BOT CHORD 4-5=0/0

NOTES

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 4) All bearings are assumed to be SPF No.2 .
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 151 lb uplift at joint 5, 21 lb uplift at joint 4 and 57 lb uplift at joint 3.



March 21, 2024

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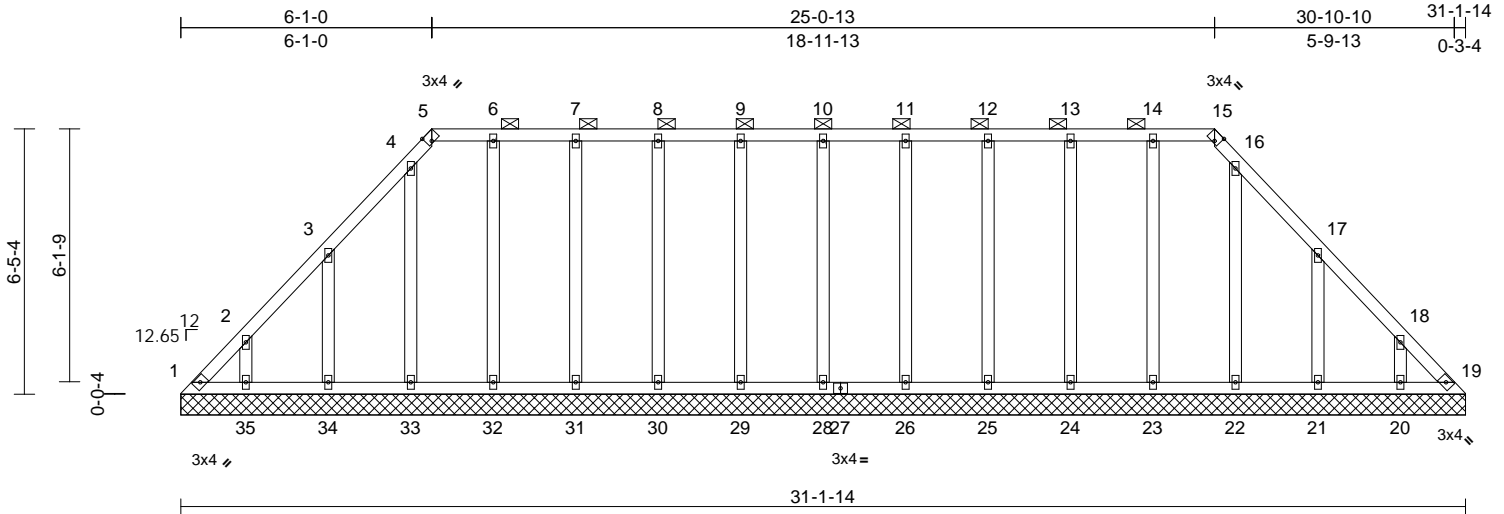
Job	Truss	Truss Type	Qty	Ply	Lot 173 HM	I64360289
B240133	LAY2	Lay-In Gable	1	1	Job Reference (optional)	

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.73 S Feb 22 2024 Print: 8.730 S Feb 22 2024 MiTek Industries, Inc. Wed Mar 20 09:09:19

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Plate Offsets (X, Y): [5:0-1-7,Edge], [15:0-1-7,Edge]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.05	Vert(LL)	n/a	-	n/a	999	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	0.09	Horiz(TL)	0.01	19	n/a	n/a	
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							
Weight: 159 lb FT = 10%											

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 5-15.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (size)
1=31-1-14, 19=31-1-14,
20=31-1-14, 21=31-1-14,
22=31-1-14, 23=31-1-14,
24=31-1-14, 25=31-1-14,
26=31-1-14, 28=31-1-14,
29=31-1-14, 30=31-1-14,
31=31-1-14, 32=31-1-14,
33=31-1-14, 34=31-1-14,
35=31-1-14
Max Horiz 1=163 (LC 4)
Max Uplift 1=86 (LC 6), 19=45 (LC 7),
20=108 (LC 9), 21=146 (LC 9),
22=9 (LC 9), 23=31 (LC 5),
24=38 (LC 4), 25=33 (LC 5),
26=34 (LC 4), 28=34 (LC 5),
29=34 (LC 4), 30=33 (LC 5),
31=38 (LC 4), 32=31 (LC 5),
33=36 (LC 5), 34=143 (LC 8),
35=109 (LC 8)
Max Grav 1=169 (LC 8), 19=142 (LC 9),
20=182 (LC 16), 21=217 (LC 16),
22=161 (LC 22), 23=176 (LC 21),
24=182 (LC 21), 25=180 (LC 22),
26=180 (LC 21), 28=180 (LC 1),
29=180 (LC 22), 30=180 (LC 21),
31=182 (LC 22), 32=176 (LC 22),
33=177 (LC 15), 34=213 (LC 15),
35=183 (LC 15)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-244/160, 2-3=-143/123, 3-4=-106/92,
4-5=-69/81, 5-6=-28/91, 6-7=-28/91,
7-8=-28/91, 8-9=-28/91, 9-10=-28/91,
10-11=-28/91, 11-12=-28/91, 12-13=-28/91,
13-14=-28/91, 14-15=-28/91, 15-16=-69/82,
16-17=-81/53, 17-18=-116/68,
18-19=-207/105
BOT CHORD 1-35=-71/160, 34-35=-71/160,
33-34=-71/160, 32-33=-71/160,
31-32=-71/160, 30-31=-71/160,
29-30=-71/160, 28-29=-71/160,
26-28=-71/160, 25-26=-71/160,
24-25=-71/160, 23-24=-71/160,
22-23=-71/160, 21-22=-71/160,
20-21=-71/160, 19-20=-71/160
WEBS 2-35=-144/127, 3-34=-172/168,
4-33=-137/60, 6-32=-136/55, 7-31=-142/62,
8-30=-140/57, 9-29=-140/58, 10-28=-140/58,
11-26=-140/58, 12-25=-140/57,
13-24=-142/62, 14-23=-136/55,
16-22=-121/33, 17-21=-176/172,
18-20=-143/126

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) Provide adequate drainage to prevent water ponding.
5) All plates are 2x4 MT20 unless otherwise indicated.
6) Gable requires continuous bottom chord bearing.

- Gable studs spaced at 0-0-0 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 86 lb uplift at joint 1, 45 lb uplift at joint 19, 109 lb uplift at joint 35, 143 lb uplift at joint 34, 36 lb uplift at joint 33, 31 lb uplift at joint 32, 38 lb uplift at joint 31, 33 lb uplift at joint 30, 34 lb uplift at joint 29, 34 lb uplift at joint 28, 34 lb uplift at joint 26, 33 lb uplift at joint 25, 38 lb uplift at joint 24, 31 lb uplift at joint 23, 9 lb uplift at joint 22, 146 lb uplift at joint 21 and 108 lb uplift at joint 20.
- This truss 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.



March 21,2024

Continued on page 2

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Job	Truss	Truss Type	Qty	Ply	Lot 173 HM
B240133	LAY2	Lay-In Gable	1	1	I64360289
					Job Reference (optional)

LOAD CASE(S) Standard

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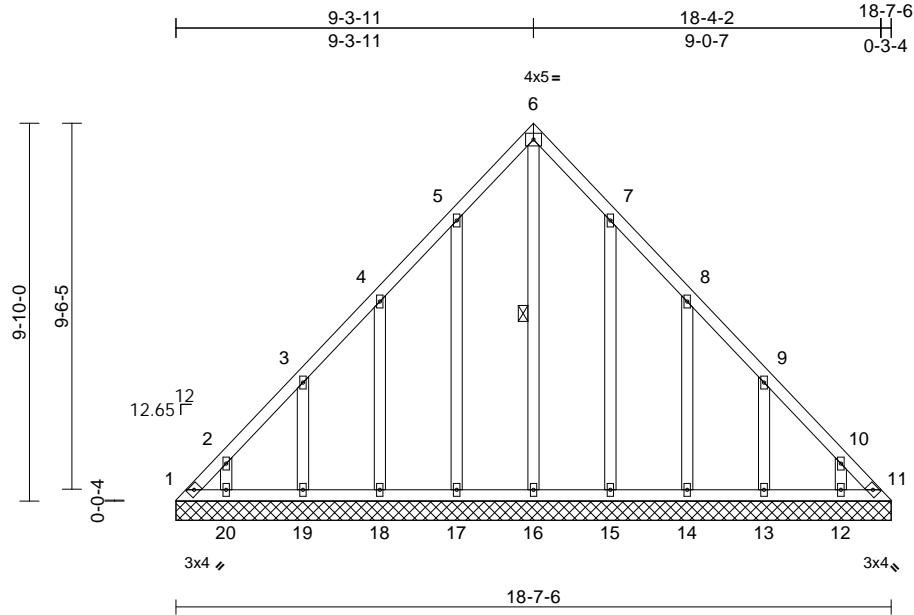
Job	Truss	Truss Type	Qty	Ply	Lot 173 HM	I64360290
B240133	LAY3	Lay-In Gable	2	1	Job Reference (optional)	

Wheeler Lumber, Waverly, KS - 66871,

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Page: 1

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Scale = 1:60

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	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.04	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.16	Horiz(TL)	0.01	11	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S						Weight: 98 lb	FT = 10%

LUMBER

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

BRACING

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	1 Row at midpt 6-16

REACTIONS	(size)	1=18-7-6, 11=18-7-6, 12=18-7-6, 13=18-7-6, 14=18-7-6, 15=18-7-6, 16=18-7-6, 17=18-7-6, 18=18-7-6, 19=18-7-6, 20=18-7-6
Max Horiz	1=251 (LC 7)	
Max Uplift	1=140 (LC 6), 11=98 (LC 7), 12=106 (LC 9), 13=127 (LC 9), 14=127 (LC 9), 15=122 (LC 9), 17=124 (LC 8), 18=126 (LC 8), 19=127 (LC 8), 20=106 (LC 8)	
Max Grav	1=259 (LC 8), 11=231 (LC 9), 12=173 (LC 16), 13=209 (LC 16), 14=201 (LC 16), 15=211 (LC 16), 16=231 (LC 9), 17=214 (LC 15), 18=200 (LC 15), 19=209 (LC 15), 20=173 (LC 15)	

FORCES

	(lb) - Maximum Compression/Maximum Tension
TOP CHORD	1-2=-362/220, 2-3=-264/186, 3-4=-165/137, 4-5=-139/128, 5-6=-113/192, 6-7=-88/170, 7-8=-95/89, 8-9=-122/79, 9-10=-226/128, 10-11=-324/162
BOT CHORD	1-20=-108/233, 19-20=-108/233, 18-19=-108/233, 17-18=-108/233, 16-17=-108/233, 15-16=-108/233, 14-15=-108/233, 13-14=-108/233, 12-13=-108/233, 11-12=-108/233

WEBS

6-16=-207/27, 5-17=-174/148,
4-18=-160/150, 3-19=-168/152,
2-20=-137/123, 7-15=-171/146,
8-14=-161/151, 9-13=-168/152,
10-12=-138/124

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- All plates are 2x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SPF No.2.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 140 lb uplift at joint 1, 98 lb uplift at joint 11, 124 lb uplift at joint 17, 126 lb uplift at joint 18, 127 lb uplift at joint 19, 106 lb uplift at joint 20, 122 lb uplift at joint 15, 127 lb uplift at joint 14, 127 lb uplift at joint 13 and 106 lb uplift at joint 12.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



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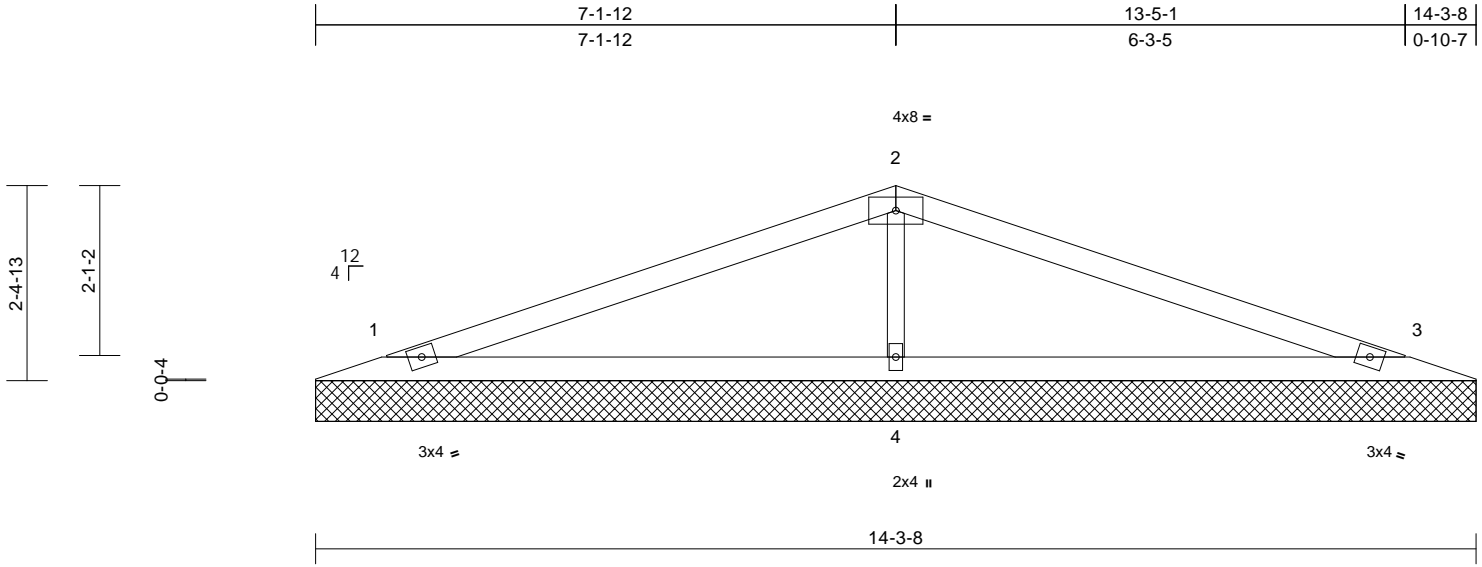
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Job	Truss	Truss Type	Qty	Ply	Lot 173 HM	I64360291
B240133	V3	Valley	1	1	Job Reference (optional)	

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.73 S Feb 22 2024 Print: 8.730 S Feb 22 2024 MiTek Industries, Inc. Wed Mar 20 09:09:19
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Page: 1



Scale = 1:28.4

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.57	Vert(LL)	n/a	-	n/a	999	MT20
TCDL	10.0	Lumber DOL	1.15	BC	0.32	Vert(TL)	n/a	-	n/a	999	197/144
BCLL	0.0*	Rep Stress Incr	YES	WB	0.09	Horiz(TL)	0.00	3	n/a	n/a	
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 33 lb FT = 10%

LUMBER

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

BRACING

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

REACTIONS

(size) 1=14-3-8, 3=14-3-8, 4=14-3-8
Max Horiz 1=37 (LC 12)
Max Uplift 1=54 (LC 4), 3=58 (LC 9), 4=58 (LC 4)
Max Grav 1=253 (LC 21), 3=253 (LC 22), 4=639 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=-102/59, 2-3=-102/47
BOT CHORD 1-4=-1/39, 3-4=-1/39
WEBS 2-4=-450/133

NOTES

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

- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SPF No.2.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 54 lb uplift at joint 1, 58 lb uplift at joint 3 and 58 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



March 21, 2024

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

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

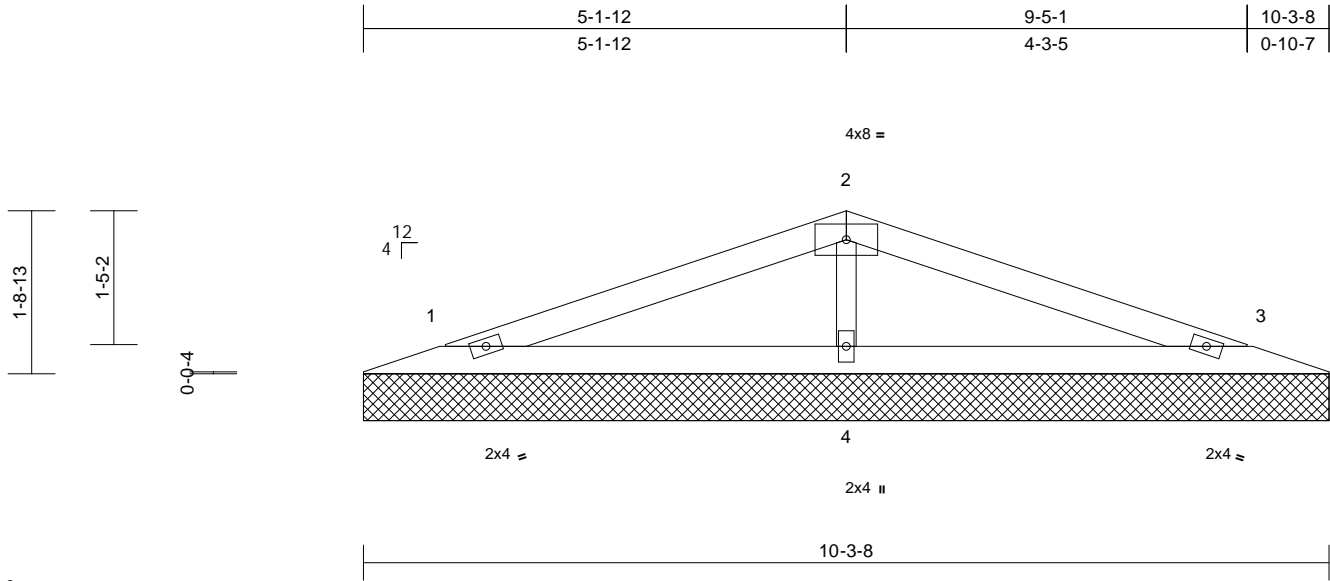
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Job	Truss	Truss Type	Qty	Ply	Lot 173 HM	164360292
B240133	V4	Valley	1	1	Job Reference (optional)	

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Page: 1



Scale = 1:24.6

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.25	Vert(LL)	n/a	-	n/a	999	MT20
TCDL	10.0	Lumber DOL	1.15	BC	0.15	Vert(TL)	n/a	-	n/a	999	197/144
BCLL	0.0*	Rep Stress Incr	YES	WB	0.06	Horiz(TL)	0.00	3	n/a	n/a	
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 23 lb FT = 10%

LUMBER

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

BRACING

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

REACTIONS (size) 1=10-3-8, 3=10-3-8, 4=10-3-8
Max Horiz 1=25 (LC 8)
Max Uplift 1=-37 (LC 4), 3=-40 (LC 9), 4=-40 (LC 4)
Max Grav 1=172 (LC 21), 3=172 (LC 22), 4=435 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-69/40, 2-3=-69/32
BOT CHORD 1-4=-1/26, 3-4=-1/26
WEBS 2-4=-306/91

NOTES

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

- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SPF No.2 .
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 37 lb uplift at joint 1, 40 lb uplift at joint 3 and 40 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

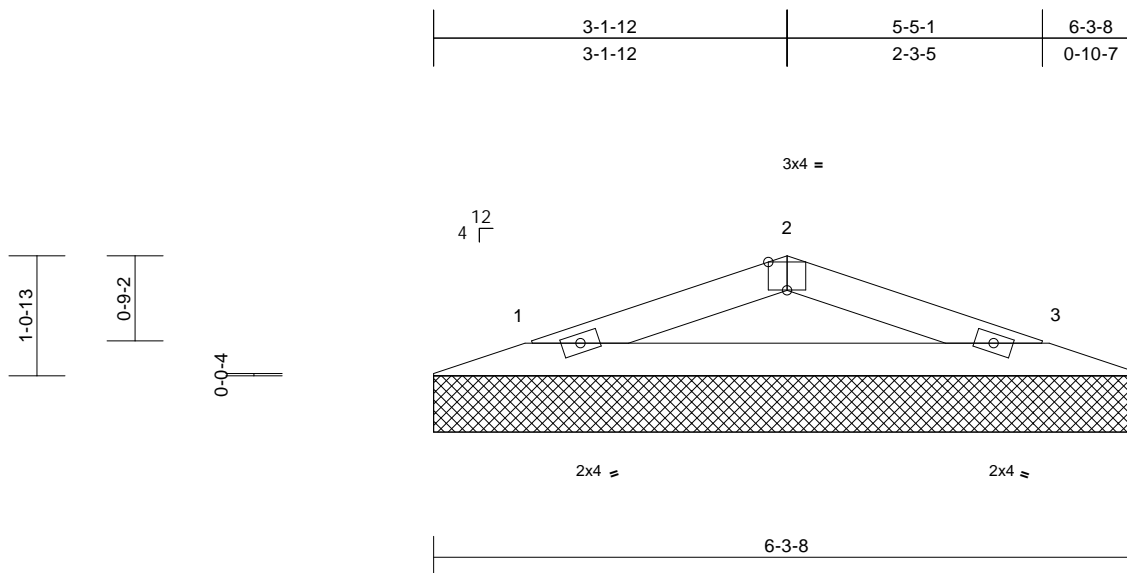


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Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters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

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Scale = 1:20.5

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

[illegible]

LUMBER

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

BRACING

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

REACTIONS

(size)	1=6-3-8, 3=6-3-8
Max Horiz	1=-14 (LC 13)
Max Uplift	1=-30 (LC 4), 3=-
Max Grav	1=204 (LC 1), 3=

FORCES

(Ib) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=-267/85, 2-3=-267/85
BOT CHORD 1-3=-66/234

NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust)
Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) Gable requires continuous bottom chord bearing.
- 5) Gable studs spaced at 2'-0" o.c.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3'-06"-00 tall by 2'-00"-00 wide will fit between the bottom chord and any other members.
- 8) All bearings are assumed to be SPF No.2 .

- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 30 lb uplift at joint 1 and 30 lb uplift at joint 3.
- 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



March 21, 2024



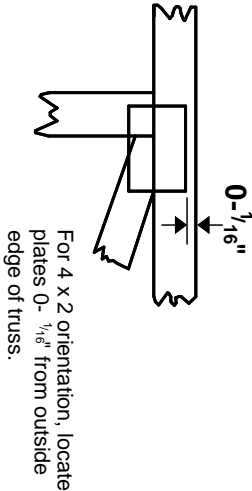
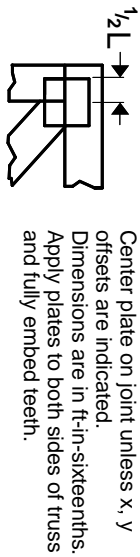
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Symbols

PLATE LOCATION AND ORIENTATION



For 4 x 2 orientation, locate plates 0- 1/16" from outside edge of truss.

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

PLATE SIZE

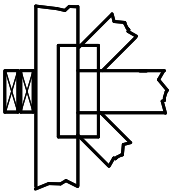
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING LOCATION



Indicated by symbol shown and/or by text in the bracing section of the output. Use T or I bracing if indicated.

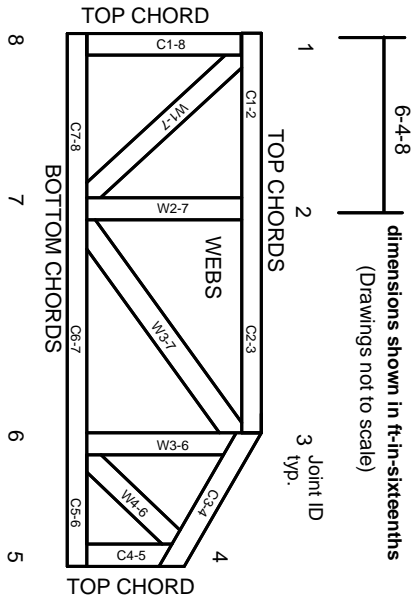
BEARING



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

Industry Standards:
ANSI/TP1: National Design Specification for Metal Plate Connected Wood Truss Construction.
DSB-22: Design Standard for Bracing.
BCSI: Building Component Safety Information, Guide to Good Practice for Handling, Installing, Restraining & Bracing of Metal Plate Connected Wood Trusses.

Numbering System



JOINTS ARE GENERALLY NUMBERED/LETTERED CLOCKWISE AROUND THE TRUSS STARTING AT THE JOINT FARTHEST TO THE LEFT.

CHORDS AND WEBS ARE IDENTIFIED BY END JOINT NUMBERS/LETTERS.

Product Code Approvals

ICC-ES Reports:

ESR-1988, ESR-2362, ESR-2685, ESR-3282
ESR-4722, ESL-1388

Design General Notes

Trusses are designed for wind loads in the plane of the truss unless otherwise shown.

Lumber design values are in accordance with ANSI/TP1 1 section 6.3. These truss designs rely on lumber values established by others.

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MITek Engineering Reference Sheet: MIL-7473 rev. 1/2/2023

General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

1. Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI.
2. Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves may require bracing, or alternative Tor I bracing should be considered.
3. Never exceed the design loading shown and never stack materials on inadequately braced trusses.
4. Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
5. Cut members to bear tightly against each other.
6. Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TP1 1.
7. Design assumes trusses will be suitably protected from the environment in accord with ANSI/TP1 1.
8. Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
9. Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
10. Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
11. Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
12. Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
13. Top chords must be sheathed or purlins provided at spacing indicated on design.
14. Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
15. Connections not shown are the responsibility of others.
16. Do not cut or alter truss member or plate without prior approval of an engineer.
17. Install and load vertically unless indicated otherwise.
18. Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use.
19. Review all portions of this design (front, back, words and pictures) before use. Reviewing pictures alone is not sufficient.
20. Design assumes manufacture in accordance with ANSI/TP1 1 Quality Criteria.
21. The design does not take into account any dynamic or other loads other than those expressly stated.

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