

RE: 400302 Lot 15 HT MiTek USA, Inc. 16023 Swingley Ridge Rd Chesterfield, MO 63017 314-434-1200

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

Design Code: IRC2018/TPI2014 Design Program: MiTek 20/20 8.2

Wind Code: N/A Wind Speed: 115 mph Roof Load: 45.0 psf Floor Load: N/A psf

This package includes 81 individual, dated Truss Design Drawings and 0 Additional Drawings.

No.	Seal#	Truss Name	Date	No.	Seal#	Truss Name	Date
1	I41303167	A1	5/14/2020	27	I41303193	G2	5/14/2020
2	I41303168	A2	5/14/2020	28	I41303194	H1	5/14/2020
3	I41303169	A3	5/14/2020	29	I41303195	H2	5/14/2020
4	I41303170	A4	5/14/2020	30	I41303196	H3	5/14/2020
5	I41303171	B1	5/14/2020	31	I41303197	H4	5/14/2020
6	I41303172	B2	5/14/2020	32	I41303198	H5	5/14/2020
7	I41303173	B3	5/14/2020	33	I41303199	H6	5/14/2020
8	I41303174	B4	5/14/2020	34	I41303200	J1	5/14/2020
9	I41303175	C1	5/14/2020	35	I41303201	J2	5/14/2020
10	I41303176	C2	5/14/2020	36	I41303202	J3	5/14/2020
11	I41303177	C3	5/14/2020	37	I41303203	J4	5/14/2020
12	I41303178	C4	5/14/2020	38	I41303204	J5	5/14/2020
13	I41303179	C5	5/14/2020	39	I41303205	J6	5/14/2020
14	I41303180	C6	5/14/2020	40	I41303206	J7	5/14/2020
15	I41303181	C7	5/14/2020	41	I41303207	J8	5/14/2020
16	I41303182	D1	5/14/2020	42	I41303208	J9	5/14/2020
17	I41303183	D2	5/14/2020	43	I41303209	J10	5/14/2020
18	I41303184	D3	5/14/2020	44	I41303210	J11	5/14/2020
19	I41303185	D4	5/14/2020	45	I41303211	J12	5/14/2020
20	I41303186	D5	5/14/2020	46	I41303212	J13	5/14/2020
21	I41303187	D6	5/14/2020	47	I41303213	J15	5/14/2020
22	I41303188	E1	5/14/2020	48	I41303214	J16	5/14/2020
23	I41303189	E2	5/14/2020	49	I41303215	J17	5/14/2020
24	I41303190	E3	5/14/2020	50	I41303216	J18	5/14/2020
25	I41303191	E4	5/14/2020	51	141303217	J19	5/14/2020
26	I41303192	G1	5/14/2020	52	I41303218	J20	5/14/2020

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

MiTek USA, Inc under my direct supervision

based on the parameters provided by Wheeler - Waverly.

Truss Design Engineer's Name: Garcia, Juan

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

Kansas COA: E-943

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





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Site Information:

Project Name:

Project Customer: Lot/Block: Address: Subdivision:

City, County: State:

No.	Seal#	Truss Name	Date
53	141303219	J21	5/14/2020
54	141303220	J22	5/14/2020
55	141303221	J23	5/14/2020
56	141303222	J24	5/14/2020
57	141303223	J25	5/14/2020
58	141303224	J26	5/14/2020
59	141303225	J27	5/14/2020
60	141303226	K1	5/14/2020
61	141303227	K2	5/14/2020
62	141303228	K3	5/14/2020
63	141303229	K4	5/14/2020
64	141303230	LAY1	5/14/2020
65	141303231	LAY2	5/14/2020
66	141303232	LAY3	5/14/2020
67	141303233	LAY4	5/14/2020
68	141303234	LAY5	5/14/2020
69	141303235	LAY6	5/14/2020
70	141303236	LAY7	5/14/2020
71	141303237	LAY8	5/14/2020
72	141303238	V1	5/14/2020
73	141303239	V2	5/14/2020
74	141303240	V3	5/14/2020
75	141303241	V4	5/14/2020
76	141303242	V5	5/14/2020
77	141303243	V6	5/14/2020
78	141303244	V7	5/14/2020
79	I41303245	V8	5/14/2020
80	141303246	V9	5/14/2020
81	I41303247	V10	5/14/2020



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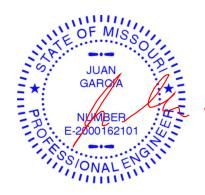
based on the parameters provided by Wheeler - Waverly.

Truss Design Engineer's Name: Garcia, Juan

My license renewal date for the state of Missouri is December 31, 2020.

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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62	141303228	K3	5/14/2020
63	141303229	K4	5/14/2020
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65	141303231	LAY2	5/14/2020
66	141303232	LAY3	5/14/2020
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78	141303244	V7	5/14/2020
79	I41303245	V8	5/14/2020
80	141303246	V9	5/14/2020
81	I41303247	V10	5/14/2020

Job Truss Truss Type Qty Lot 15 HT 141303167 400302 HIP GIRDER 2 Job Reference (optional) 8.240 s Apr 4 2020 MITek Industries, Inc. Thu May 14 11:56:00 2020 Page 1 ID:bWuMDBN0tjF5cDvSpwhpH1zCzbQ-c9qP7nliLJ?elLWE6gAXvwWfW1?85PtnPskkBDzGbFT Wheeler Lumber, Waverly, KS 66871 -0-10-8 2-0-0 3-5-4 7-10-0 12-2-12 13-8-0 15-8-0 16-6-8 0-10-8 2-0-0 1-5-4 4-4-12 4-4-12 1-5-4 2-0-0 0-10-8

Scale = 1:29.1

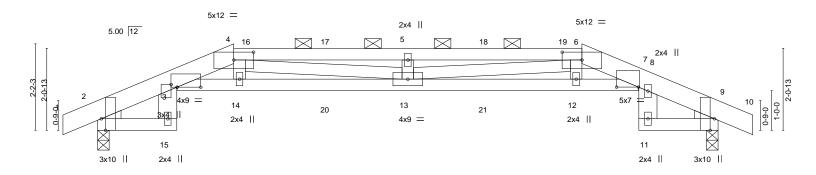


Plate Offse	ets (X,Y)-	2-0-0 - [2:0-0-4,0-0-9	1-5-4 9], [2:0-0-7,0-5	-2], [2:0-3-8,E	4-4-12 Edge], [3:0-7	7-3,0-0-0], [3:0-0-	13,0-1-13], [4:		-4-12 2-6], [6:	:0-6-0,0-2	!-6], [7:0-	1-5-4 -6-10,0-0-0], [9	2-0-0 9:0-0-4,0-0-9],	[9:0-0-7
		,0-5-2], [9:0-3		3, 2	3-1/1-		-,1,-		-3/ [-		-3/1			
LOADING	\ ,	SPAC		2-0-0	CSI.		DEFL.	in	()	l/defl	L/d	l l	LATES	GRIP
TCLL	25.0	I	Grip DOL	1.15	TC	0.78	Vert(LL)	-0.20	13	>937	360	M	T20	197/144
TCDL	10.0		er DOL	1.15	BC	0.65	Vert(CT)	-0.37	13	>495	240			
BCLL	0.0 *		tress Incr	NO		0.14	Horz(CT)	0.25	9	n/a	n/a			
BCDL	10.0	Code	IRC2018/TPI2	.014	Matrix	x-S	Wind(LL)	0.19	13	>976	240	W	eight: 119 lb	FT = 10%

BRACING-

TOP CHORD

BOT CHORD

12-2-12

7-10-0

LUMBER-

TOP CHORD 2x6 SPF No.2 *Except*

4-6: 2x4 SPF No.2

2-0-0

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

3-15,8-11: 2x6 SPF No.2

WEDGE

Left: 2x3 SPF No.2, Right: 2x3 SPF No.2

REACTIONS. (lb/size) 2=996/0-3-8, 9=998/0-3-8

Max Horz 2=-31(LC 30)

Max Uplift 2=-223(LC 4), 9=-221(LC 5) Max Grav 2=996(LC 21), 9=998(LC 22)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

3-5-4

TOP CHORD 2-3=-552/142, 3-4=-3349/761, 4-16=-4564/1075, 16-17=-4564/1075, 5-17=-4564/1075,

5-18=-4564/1075, 18-19=-4564/1075, 6-19=-4564/1075, 6-7=-3397/771, 7-8=-40/283, 8-9=-541/131

BOT CHORD 3-14=-758/3515. 14-20=-731/3449. 13-20=-731/3449. 13-21=-732/3447. 12-21=-732/3447.

7-12=-727/3378

WEBS 4-13=-300/1135, 5-13=-311/147, 6-13=-304/1139, 6-12=-24/370

NOTES-

- 1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
 - Top chords connected as follows: 2x6 2 rows staggered at 0-9-0 oc, 2x4 1 row at 0-9-0 oc.

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

- Webs connected as follows: 2x6 2 rows staggered at 0-9-0 oc, 2x4 1 row at 0-9-0 oc.
- 2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- 3) Unbalanced roof live loads have been considered for this design.
- 4) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 5) Provide adequate drainage to prevent water ponding.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 223 lb uplift at joint 2 and 221 lb uplift at ioint 9.
- 9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

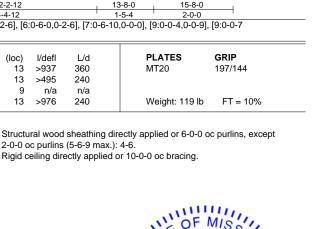
M WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

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/TPH Quality Criteria, DSB-89 and BCSI Building Component fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

ANSI/TPI1 Qua
Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.





GARCIA

NUMBER

-2000162101

ONALE

Job	Truss	Truss Type	Qty	Ply	Lot 15 HT	
400302	A1	HIP GIRDER	1	2	Job Reference (optional)	I41303167

Wheeler Lumber, Waverly, KS 66871

8.240 s Apr 4 2020 MiTek Industries, Inc. Thu May 14 11:56:00 2020 Page 2 ID:bWuMDBN0tjF5cDvSpwhpH1zCzbQ-c9qP7nliLJ?elLWE6gAXvwWfW1?85PtnPskkBDzGbFT

NOTES-

11) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 165 lb down and 103 lb up at 3-5-4, 72 lb down and 47 lb up at 3-10-0, 75 lb down and 47 lb up at 5-10-0, 75 lb down and 47 lb up at 7-10-0, 75 lb down and 47 lb up at 9-10-0, and 72 lb down and 47 lb up at 11-10-0, and 165 lb down and 103 lb up at 12-2-12 on top chord, and 76 lb down and 23 lb up at 3-5-4, 32 lb down and 23 lb up at 3-10-0, 32 lb down and 23 lb up at 5-10-0, 32 lb down and 23 lb up at 7-10-0, 32 lb down and 23 lb up at 9-10-0, and 32 lb down and 23 lb up at 11-10-0, and 76 lb down and 23 lb up at 12-2-0 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 (plf)

Vert: 1-4=-70, 4-6=-70, 6-10=-70, 2-15=-20, 3-7=-20, 9-11=-20

Concentrated Loads (lb)

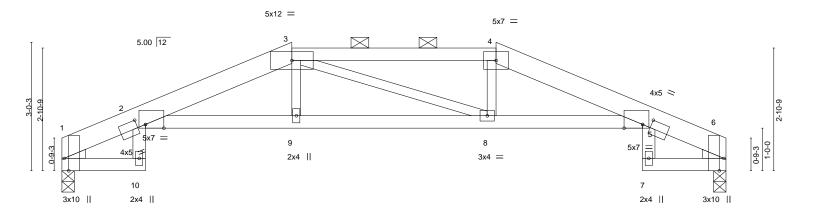
Vert: 4=-41(F) 6=-41(F) 14=-108(F) 13=-32(F) 5=-17(F) 12=-108(F) 16=-17(F) 17=-17(F) 18=-17(F) 19=-17(F) 20=-32(F) 21=-32(F)



Job Truss Truss Type Qty Lot 15 HT 141303168 400302 A2 Hip Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inc. Wed May 13 16:44:35 2020 Page 1 Wheeler Lumber, Waverly, KS 66871

ID:bWuMDBN0tjF5cDvSpwhpH1zCzbQ-blrt_2E_zkurxzMAudAm_okWHSOWsRy4L6DZw?zGs6w 13-7-8 15-7-0 1-11-8 3-5-4 4-9-8 3-5-4 1-11-8

Scale = 1:27.0



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

		T T										
LOADIN	G (psf)	SPACING- 2	2-0-0	CSI.		DEFL.	in	(loc)	I/defI	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.83	Vert(LL)	-0.16	8	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.64	Vert(CT)	-0.29	8-9	>643	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.09	Horz(CT)	0.32	6	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI20	014	Matri	k-S	Wind(LL)	0.10	9	>999	240	Weight: 53 lb	FT = 10%

BRACING-

TOP CHORD

BOT CHORD

except

13-7-8

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

Rigid ceiling directly applied or 10-0-0 oc bracing

Structural wood sheathing directly applied or 3-2-10 oc purlins,

LUMBER-TOP CHORD

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

2x4 SPF No.2

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

2-10,5-7: 2x4 SPF No.2

WEDGE

Left: 2x3 SPF No.2, Right: 2x3 SPF No.2

REACTIONS. (size) 1=0-3-8, 6=0-3-8

Max Horz 1=-46(LC 9)

Max Uplift 1=-66(LC 8), 6=-66(LC 9) Max Grav 1=688(LC 1), 6=688(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

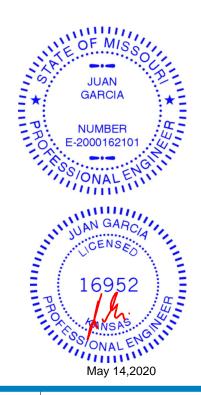
5-4-12

TOP CHORD 1-2=-399/62, 2-3=-1634/190, 3-4=-1569/191, 4-5=-1634/185, 5-6=-399/57

BOT CHORD 2-9=-130/1564, 8-9=-126/1569, 5-8=-121/1564

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) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate arip 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 6.
- 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) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



15-7-0



MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

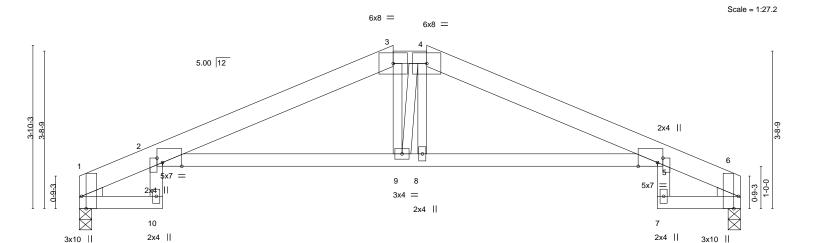


Job Truss Truss Type Lot 15 HT 141303169 400302 A3 Hip Job Reference (optional) Waverly, KS 66871 8.240 s Mar 9 2020 MiTek Industries, Inc. Wed May 13 16:44:36 2020 Page 1 Wheeler Lumber, ID:bWuMDBN0tjF5cDvSpwhpH1zCzbQ-3xPFCOEck10iZ7xNSLh?X?Gglsl4bu0DZmz6SRzGs6v 13-7-8 8-2-4 15-7-0

0-9-8

5-5-4

5-5-4



1-11-8 5-5-4 0-9-8 1-11-8 Plate Offsets (X,Y)--[1:0-3-8,Edge], [1:0-0-4,0-4-10], [1:0-0-2,0-0-5], [2:0-1-4,0-1-9], [2:0-5-7,Edge], [5:0-1-4,0-1-9], [5:0-5-7,Edge], [6:0-0-2,0-0-5], [6:0-0-4,0-4-10], [6:0-3-8

	,Lugej			
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d	PLATES GRIP
TCLL 25.0	Plate Grip DOL 1.15	TC 0.88	Vert(LL) -0.21 2-9 >879 360	MT20 197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.62	Vert(CT) -0.39 2-9 >470 240	
BCLL 0.0 *	Rep Stress Incr YES	WB 0.10	Horz(CT) 0.41 6 n/a n/a	
BCDL 10.0	Code IRC2018/TPI2014	Matrix-S	Wind(LL) 0.15 2-9 >999 240	Weight: 56 lb FT = 10%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-TOP CHORD

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

2x4 SPF No.2

1-11-8

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

2-10,5-7: 2x4 SPF No.2

WEDGE

Left: 2x3 SPF No.2, Right: 2x3 SPF No.2

REACTIONS. (size) 1=0-3-8, 6=0-3-8 Max Horz 1=61(LC 8)

Max Uplift 1=-84(LC 8), 6=-84(LC 9) Max Grav 1=688(LC 1), 6=688(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

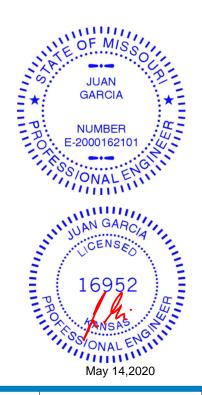
TOP CHORD 1-2=-399/84, 2-3=-1312/118, 3-4=-1222/143, 4-5=-1318/115, 5-6=-400/68

BOT CHORD 2-9=-76/1214, 8-9=-42/1223, 5-8=-45/1220

WEBS 3-9=-115/294

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) gable end 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 6.
- 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) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



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

2-0-0 oc purlins (4-6-10 max.): 3-4.

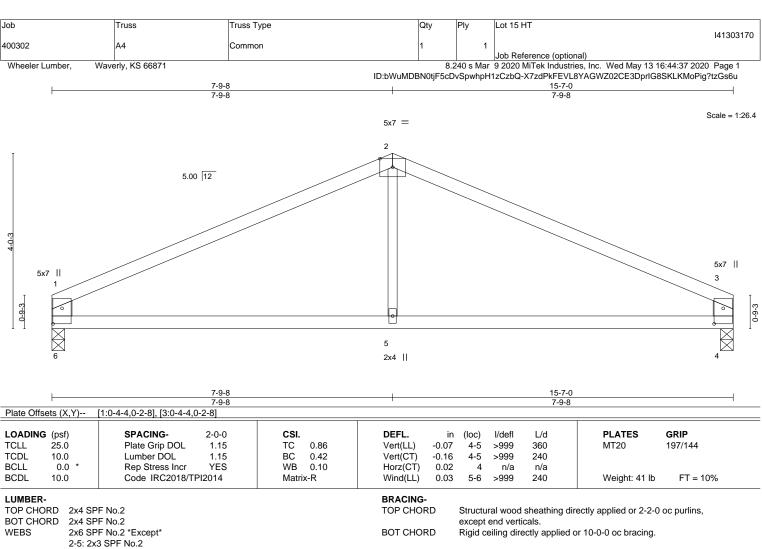
Rigid ceiling directly applied or 10-0-0 oc bracing

1-11-8



MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.





(size) 6=0-3-8, 4=0-3-8 Max Horz 6=-37(LC 13)

Max Uplift 6=-86(LC 8), 4=-86(LC 9)

Max Grav 6=681(LC 1), 4=681(LC 1)

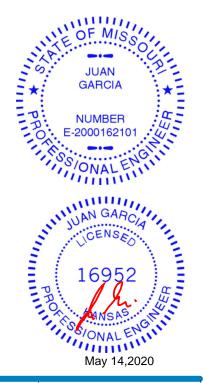
FORCES. (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) or less except when shown. TOP CHORD 1-2=-928/114, 2-3=-928/114, 1-6=-594/134, 3-4=-594/134

BOT CHORD 5-6=-44/758, 4-5=-44/758

WEBS 2-5=0/306

REACTIONS.

- 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) gable end 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.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6, 4.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.



Job Truss Truss Type Qty Ply Lot 15 HT 141303171 B1 400302 Half Hip Girder | **Z** | Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inc. Wed May 13 16:44:40 2020 Page 1 Wheeler Lumber, Waverly, KS 66871 ID:bWuMDBN0tjF5cDvSpwhpH1zCzbQ-xifm2mH7oGX71kF8hAlxhrRMlT8kXWZpUNxKbCzGs6r

5-10-8

24-0-12

5-10-8

31-10-0

7-9-4

35-9-12

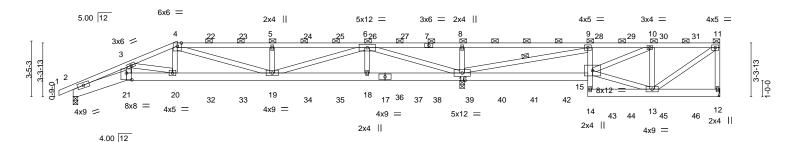
3-11-12

9-16

40-0-0

4-2-4

Scale = 1:71.3



3-3-8	6-5-4 12-3-12	18-2-4	24-0-12	31-10-0	35-9-12 40-0-0	——
3-3-8	3-1-12 5-10-8	5-10-8	5-10-8	7-9-4	3-11-12 4-2-4	
Plate Offsets (X,Y) [3	21:0-4-0,0-5-0]					
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL.	in (loc) I/defl L/d	PLATES G	RIP
TCLL 25.0	Plate Grip DOL 1.15	TC 0.85	Vert(LL) -0	.20 19 >999 360	MT20 19	97/144
TCDL 10.0	Lumber DOL 1.15	BC 0.45	Vert(CT) -0	.36 19-20 >798 240		
BCLL 0.0 *	Rep Stress Incr NO	WB 0.83	Horz(CT) 0).13 12 n/a n/a		
BCDL 10.0	Code IRC2018/TPI2014	Matrix-S	Wind(LL) 0	.11 19 >999 240	Weight: 413 lb	FT = 10%
			` ′		<u> </u>	

WEBS 2x4 SPF No.2

-0-10-8 0-10-8

3-3-8

3-1-12

5-10-8

REACTIONS. (size) 12=Mechanical, 2=0-3-8, 16=0-3-8 (req. 0-3-12)

Max Horz 2=99(LC 26)

Max Uplift 12=-83(LC 4), 2=-102(LC 4), 16=-311(LC 5) Max Grav 12=966(LC 20), 2=1813(LC 1), 16=4796(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

2-3=-6550/430, 3-4=-5177/324, 4-5=-5099/188, 5-6=-5096/187, 6-8=-167/3123, TOP CHORD

8-9=-167/3123, 9-10=-1414/214, 10-11=-941/113, 11-12=-872/117

BOT CHORD 2-21=-472/5902, 20-21=-431/5452, 19-20=-342/4715, 18-19=-41/2182, 16-18=-41/2182,

15-16=-243/1520, 9-15=0/597

WEBS 3-21=-93/1278, 3-20=-674/109, 4-20=-55/1266, 4-19=0/553, 5-19=-788/173,

6-19=-192/3069, 6-18=0/272, 6-16=-5588/181, 8-16=-594/127, 9-16=-4688/383,

13-15=-86/877, 10-15=-134/516, 10-13=-759/207, 11-13=-100/1120

NOTES-

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

Top chords connected as follows: 2x4 - 1 row at 0-7-0 oc.

Bottom chords connected as follows: 2x8 - 2 rows staggered at 0-9-0 oc, 2x6 - 2 rows staggered at 0-9-0 oc, 2x4 - 1 row at 0-9-0 oc. Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.

- 2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- 3) Unbalanced roof live loads have been considered for this design.
- 4) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 5) Provide adequate drainage to prevent water ponding.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 8) WARNING: Required bearing size at joint(s) 16 greater than input bearing size
- 9) Refer to girder(s) for truss to truss connections.
- 10) Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify
- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 12 except (jt=lb) 2=102. 16=311.
- 12) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and Continuierencestagianzdard ANSI/TPI 1.



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OF MIS

GARCIA

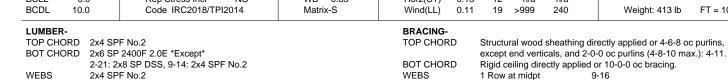
NUMBER

E-2000162101

ONALE

M WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 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 Design Valid for use only with release controlled in the controlle



Job	Truss	Truss Type	Qty	Ply	Lot 15 HT	
400202	B1	Holf Hip Cirdor	4	_		I41303171
400302	D1	Half Hip Girder		2	Job Reference (optional)	

Wheeler Lumber,

Waverly, KS 66871

8.240 s Mar 9 2020 MiTek Industries, Inc. Wed May 13 16:44:40 2020 Page 2 ID:bWuMDBN0tjF5cDvSpwhpH1zCzbQ-xifm2mH7oGX71kF8hAlxhrRMlT8kXWZpUNxKbCzGs6r

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

14) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 121 lb down and 51 lb up at 6-5-4, 103 lb down and 51 lb up at 8-6-0, 103 lb down and 51 lb up at 10-6-0, 103 lb down and 51 lb up at 12-6-0, 103 lb down and 51 lb up at 14-6-0, 103 lb down and 51 lb up at 16-6-0, 103 lb down and 51 lb up at 18-6-0, 103 lb down and 51 lb up at 20-6-0, 122 lb down and 70 lb up at 32-6-0, 122 lb down and 70 lb up at 34-6-0, and 122 lb down and 70 lb up at 36-6-0, and 122 lb down and 70 lb up at 38-6-0 on top chord, and 515 lb down and 123 lb up at 6-5-4, 89 lb down at 8-6-0, 89 lb down at 10-6-0, 89 lb down at 12-6-0, at 14-6-0, 89 lb down at 16-6-0, 89 lb down at 18-6-0, 89 lb down at 20-6-0, 255 lb down and 44 lb up at 24-6-0, 255 lb down and 44 lb up at 24-6-0, 255 lb down and 44 lb up at 26-6-0, 255 lb down and 44 lb up at 28-6-0, 255 lb down and 44 lb up at 30-6-0, 75 lb down at 32-6-0, 75 lb down at 34-6-0, and 75 lb down at 36-6-0, and 75 lb down at 38-6-0 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 (plf)

Vert: 1-4=-70, 4-11=-70, 2-21=-20, 15-21=-20, 12-14=-20

Concentrated Loads (lb)

Vert: 4=-98(F) 20=-515(F) 19=-89(F) 5=-98(F) 22=-98(F) 23=-98(F) 24=-98(F) 25=-98(F) 26=-98(F) 27=-98(F) 28=-122(F) 30=-122(F) 30=-122(F) 31=-122(F) 32=-89(F) 33=-89(F) 34=-89(F) 35=-89(F) 36=-89(F) 37=-89(F) 38=-255(F) 40=-255(F) 40=-255(F) 42=-255(F) 42=-255(F) 43=-58(F) 44=-58(F) 45=-58(F) 46 = -58(F)



Job Truss Truss Type Lot 15 HT 141303172 Hip 400302 B2 Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inc. Wed May 13 16:44:41 2020 Page 1 Wheeler Lumber, Waverly, KS 66871 ID:bWuMDBN0tjF5cDvSpwhpH1zCzbQ-QvC8F5llZaf_fupKFuHAE3zYrtN5GzCyj1gt8ezGs6q

7-10-3

31-10-0

7-9-9

36-6-12

4-8-12

Structural wood sheathing directly applied or 2-10-4 oc purlins,

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

4-17

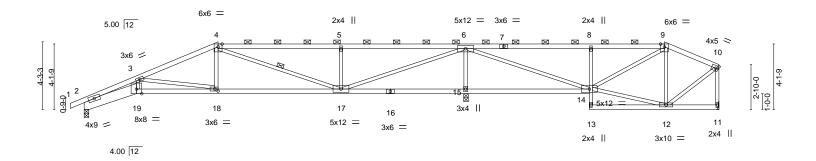
Rigid ceiling directly applied or 2-2-0 oc bracing.

1 Row at midpt

Scale = 1:72.6

40-0-0

3-5-4



3-3-8	8-5-4 5-1-12	16-2-3 7-8-15	24-0-12 7-10-9	31-10-0 7-9-4	36-6-12 40-0-0 4-8-12 3-5-4
Plate Offsets (X,Y) [18:0-2-	-8,0-1-8]				
TCLL 25.0 F TCDL 10.0 L BCLL 0.0 *	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2018/TPI2014	CSI. TC 0.83 BC 0.95 WB 0.87 Matrix-S	Vert(CT) -0. Horz(CT) 0.	in (loc) l/defl L/d 20 18-19 >999 360 38 17-18 >759 240 13 15 n/a n/a 11 18-19 >999 240	PLATES GRIP MT20 197/144 Weight: 150 lb FT = 10%

BOT CHORD

WEBS

LUMBER-**BRACING-**TOP CHORD

16-2-3

7-8-15

TOP CHORD 2x4 SPF No.2

BOT CHORD 2x4 SPF No.2 *Except*

2-19: 2x8 SP DSS, 8-13: 2x3 SPF No.2

5-1-12

WEBS 2x3 SPF No.2

REACTIONS. (size) 2=0-3-8, 11=Mechanical, 15=0-3-8

Max Horz 2=86(LC 7)

Max Uplift 2=-22(LC 4), 11=-11(LC 4), 15=-100(LC 5) Max Grav 2=984(LC 19), 11=509(LC 20), 15=2199(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

2-3=-3580/80, 3-4=-1804/44, 4-5=-1218/95, 5-6=-1216/93, 6-8=-525/74, 8-9=-505/76, TOP CHORD

9-10=-385/43 10-11=-484/25

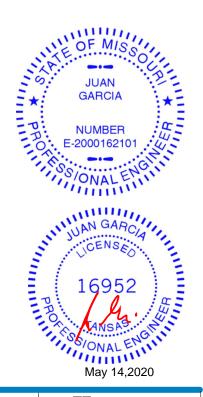
BOT CHORD 2-19=-140/3239, 18-19=-129/2963, 17-18=-59/1624, 15-17=-1176/52, 14-15=-1176/52,

8-14=-471/113

WEBS 3-19=0/1012, 3-18=-1345/128, 4-18=0/422, 4-17=-438/34, 5-17=-581/137, 6-17=-113/2539, 6-15=-2008/199, 6-14=-88/1679, 12-14=0/308, 10-12=0/398

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); 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Refer to girder(s) for truss to truss connections.
- 7) Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 11, 15.
- 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.





M WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.



Job Truss Truss Type Lot 15 HT 141303173 Hip 400302 ВЗ Job Reference (optional)
8.240 s Mar 9 2020 MiTek Industries, Inc. Wed May 13 16:44:43 2020 Page 1 Wheeler Lumber, Waverly, KS 66871 ID:bWuMDBN0tjF5cDvSpwhpH1zCzbQ-MHKugnK?5BviuBzjMJJeJU3sSg2OkuPFAL9_CXzGs6o

6-9-2

24-0-12

6-10-6

Scale = 1:72.6

34-6-12

2-8-12

Structural wood sheathing directly applied, except end verticals, and

3-17, 4-16

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

1 Row at midpt

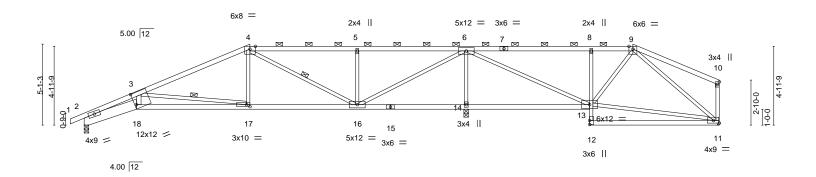
Rigid ceiling directly applied or 2-2-0 oc bracing.

31-10-0

7-9-4

40-0-0

5-5-4



3-3-8		17-2-6	24-0-12	31-10-0	34-6-12 40-0-0	
3-3-8	7-1-12	6-9-2	6-10-6	7-9-4	2-8-12 5-5-4	
Plate Offsets (X,Y)	[4:0-4-2,Edge], [17:0-2-8,0-1-8], [1	8:0-1-4,0-8-12]				
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL.	in (loc) I/defl L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL 1.15	TC 0.88	Vert(LL) -0.2	23 17-18 >999 360	MT20	197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.96	Vert(CT) -0.4	45 17-18 >632 240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.83	Horz(CT) 0.	15 14 n/a n/a		
BCDL 10.0	Code IRC2018/TPI2014	Matrix-S	Wind(LL) 0.	12 17-18 >999 240	Weight: 156 lb	FT = 10%

BRACING-

TOP CHORD

BOT CHORD

WEBS

LUMBER-

REACTIONS.

TOP CHORD 2x4 SPF No.2

BOT CHORD 2x4 SPF No.2 *Except*

2-18: 2x8 SP DSS, 8-12: 2x3 SPF No.2

7-1-12

WEBS 2x3 SPF No.2 *Except*

3-18: 2x4 SPF No.2

(size) 2=0-3-8, 14=0-3-8 (req. 0-3-11), 11=Mechanical

Max Horz 2=87(LC 7)

Max Uplift 2=-19(LC 8), 14=-92(LC 5), 11=-13(LC 9) Max Grav 2=931(LC 19), 14=2341(LC 1), 11=473(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD $2 - 3 = -3575/100, \ 3 - 4 = -1357/42, \ 4 - 5 = -580/88, \ 5 - 6 = -577/87, \ 6 - 8 = -331/75, \ 8 - 9 = -314/76$ **BOT CHORD** 2-18=-124/3261, 17-18=-125/2932, 16-17=-26/1164, 14-16=-1293/49, 13-14=-1293/49,

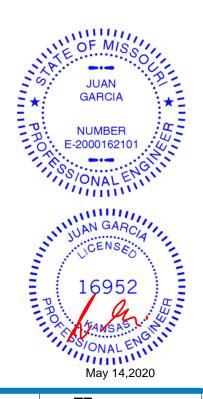
8-13=-442/105

WEBS 3-18=0/1042, 3-17=-1771/188, 4-17=0/438, 4-16=-767/36, 5-16=-493/115,

6-16=-76/2018, 6-14=-2161/188, 6-13=-65/1565, 9-11=-333/25

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); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) WARNING: Required bearing size at joint(s) 14 greater than input bearing size.
- 7) Refer to girder(s) for truss to truss connections.
- 8) Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 14, 11.
- 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.





MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.



Job Truss Truss Type Lot 15 HT 141303174 Hip 400302 B4 Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inc. Wed May 13 16:44:44 2020 Page 1

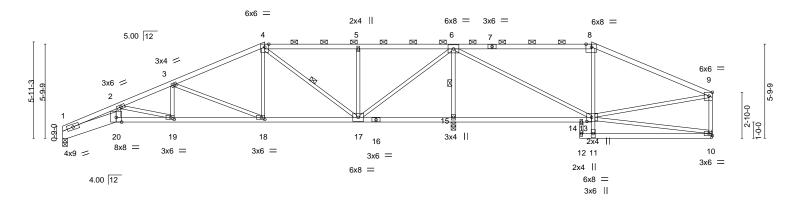
Wheeler Lumber, Waverly, KS 66871

3-5-9

5-8-2

ID:bWuMDBN0tjF5cDvSpwhpH1zCzbQ-qUuGt7LdsV1ZWLYvw0qtrhb0q4Q7TKWOP?vXkzzGs6n 32₋6-12 0-8-12 40-0-0 24-0-12 31-10-0 5-9-2 5-10-6 7-9-4 7-5-4

Scale = 1:70.9



	3-3-8	₁ 6-9-2 ₁	12-5-4	18-2-6	1	24-0-12	1	31-10-0	32 _r 6-12	40-0-0	1
	3-3-8	3-5-9	5-8-2	5-9-2		5-10-6	ı	7-9-4	0-8-12	7-5-4	
Plate Offs	ets (X,Y)	[8:0-4-2,Edge], [9	:0-2-8,Edge], [13:0-3-	8,0-3-0], [18:0-	2-8,0-1-8], [1	19:0-2-8,0-1-8]					
LOADING	(psf)	SPACING-	- 2-0-0	CSI.		DEFL.	in (loc)	I/defI	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip	DOL 1.15	TC (0.91	Vert(LL)	-0.15 19-20	>999	360	MT20	197/144
TCDL	10.0	Lumber DO	OL 1.15	BC (0.87	Vert(CT)	-0.27 19-20	>999	240		
BCLL	0.0 *	Rep Stress	s Incr YES	WB (0.84	Horz(CT)	0.11 15	n/a	n/a		
BCDL	10.0	Code IRC:	2018/TPI2014	Matrix-	s l	Wind(LL)	0.08 19-20	>999	240	Weight: 159 lb	FT = 10%
						. ,					

BOT CHORD

WEBS

LUMBER-**BRACING-**TOP CHORD

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

1-20: 2x8 SP DSS, 12-14: 2x3 SPF No.2

WEBS 2x3 SPF No.2 *Except*

2-20: 2x4 SPF No.2

(size) 1=0-3-8, 10=Mechanical, 15=0-3-8 (req. 0-3-11)

Max Horz 1=86(LC 7)

Max Uplift 1=-16(LC 8), 10=-29(LC 9), 15=-72(LC 5) Max Grav 1=849(LC 19), 10=485(LC 20), 15=2360(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

 $1\hbox{-}2\hbox{--}3259/106, 2\hbox{-}3\hbox{--}1857/57, 3\hbox{-}4\hbox{--}989/55, 4\hbox{-}5\hbox{--}294/87, 5\hbox{-}6\hbox{--}292/85, 6\hbox{-}8\hbox{--}325/67,}$ TOP CHORD

8-9=-441/72, 9-10=-429/64 1-20=-133/2940, 19-20=-121/2643, 18-19=-42/1708, 17-18=-12/833, 15-17=-1087/59,

BOT CHORD 14-15=-1087/59, 13-14=-1062/88, 12-14=-343/0

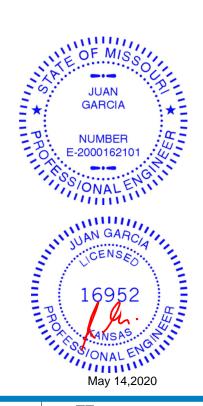
2-20=-7/934, 2-19=-966/81, 3-18=-933/100, 4-18=0/472, 4-17=-823/35, 5-17=-384/89, 6-17=-35/1607, 6-15=-2198/157, 6-13=-6/1387, 11-13=0/544, 8-13=-492/105,

9-13=-54/271, 3-19=0/339

WEBS

REACTIONS.

- 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); 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) WARNING: Required bearing size at joint(s) 15 greater than input bearing size.
- 7) Refer to girder(s) for truss to truss connections.
- 8) Bearing at joint(s) 1 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 10, 15.
- 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



Structural wood sheathing directly applied or 2-10-11 oc purlins,

4-17, 6-15

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

Rigid ceiling directly applied or 5-4-12 oc bracing.

1 Row at midpt



MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.



Job Truss Truss Type Qty Lot 15 HT 141303175 C1 Hip 400302 Job Reference (optional)
8.240 s Mar 9 2020 MiTek Industries, Inc. Wed May 13 16:44:45 2020 Page 1 Wheeler Lumber, Waverly, KS 66871 ID:bWuMDBN0tjF5cDvSpwhpH1zCzbQ-lgSf5TLFdo9Q8V75UkL6Ou8HSUkUClgYefe5HQzGs6m

6-5-10

24-6-12

4-9-15

29-11-0

5-4-5

Structural wood sheathing directly applied or 3-3-3 oc purlins,

4-13, 7-9

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

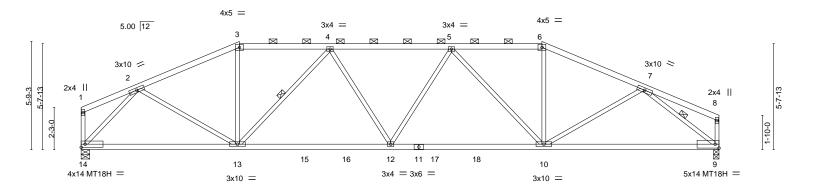
Rigid ceiling directly applied or 2-2-0 oc bracing.

1 Row at midpt

Scale = 1:61.4

34-0-0

4-1-0



	8-5-4 8-5-4	16-6-0 8-0-12	24-6-12 8-0-12	34-0-0 9-5-4	
LOADING (psf) TCLL 25.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2018/TPI2014	CSI. TC 0.53 BC 0.99 WB 0.97 Matrix-S	DEFL. in (loc) l/defl Vert(LL) -0.20 12-13 >999 Vert(CT) -0.36 12-13 >999 Horz(CT) 0.10 9 n/a Wind(LL) 0.10 12 >999	L/d PLATES GRIP 360 MT20 197/144 240 MT18H 197/144 n/a 240 Weight: 129 lb FT = 1	

BRACING-

TOP CHORD

BOT CHORD

WEBS

LUMBER-

REACTIONS.

TOP CHORD 2x4 SPF No.2

2x4 SPF No.2 *Except* BOT CHORD

9-11: 2x4 SPF 2100F 1.8E

WEBS 2x3 SPF No.2

(size) 14=0-5-8, 9=0-3-8

Max Horz 14=-70(LC 6) Max Uplift 14=-184(LC 4), 9=-178(LC 5)

Max Grav 14=1597(LC 2), 9=1595(LC 2)

5-4-4

4-9-15

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 2-3=-2137/304, 3-4=-1912/300, 4-5=-2557/403, 5-6=-2060/319, 6-7=-2298/324 TOP CHORD

BOT CHORD $13\text{-}14\text{=-}189/1300,\ 12\text{-}13\text{=-}341/2434,\ 10\text{-}12\text{=-}349/2493,\ 9\text{-}10\text{=-}250/1689}$

2-13=-31/764, 3-13=-18/555, 4-13=-842/191, 4-12=0/281, 5-10=-737/178, 6-10=-23/602, WFBS

7-10=0/538, 2-14=-1886/303, 7-9=-2079/328

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) gable end 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 14=184, 9=178.
- 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.



MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.





Wheeler Lumber, Waverly, KS 66871

ID:bWuMDBN0tjF5cDvSpwhpH1zCzbQ-ms01lpMtO6HHlfil2RsLw6hP_u77xGohtJOepszGs6l

Structural wood sheathing directly applied or 2-2-0 oc purlins,

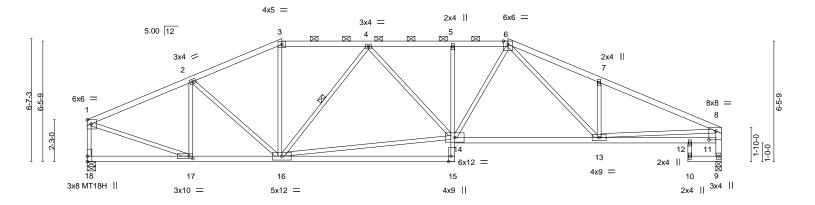
except end verticals, and 2-0-0 oc purlins (3-6-14 max.): 3-6.

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

6-0-0 oc bracing: 10-12,9-10.

1 Row at midpt





1	5-6-11	10-5-4	19-8	-8	1	27-4-10		32-2-8	₁ 34-0-0 ₁
ı	5-6-11	4-10-9	9-3-	4	1	7-8-2		4-9-14	1-9-8
Plate Offsets (X,Y)	[1:Edge,0-2-12], [8	:0-4-8,0-5-11], [11:0	-0-0,0-1-12], [15:0-3-8,Ed	dge], [17:0-2-8,0-1-8	3]				
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	I/defI	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip D	OL 1.15	TC 0.74	Vert(LL)	-0.25 15-16	>999	360	MT20	197/144
CDL 10.0	Lumber DOI	_ 1.15	BC 0.77	Vert(CT)	-0.55 15-16	>734	240	MT18H	197/144
3CLL 0.0 *	Rep Stress	ncr YES	WB 0.72	Horz(CT)	0.11 9	n/a	n/a		
BCDL 10.0	Code IRC20	018/TPI2014	Matrix-S	Wind(LL)	0.14 13-14	>999	240	Weight: 144 lb	FT = 10%

BOT CHORD

WEBS

LUMBER-**BRACING-**TOP CHORD

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

5-15,10-12: 2x3 SPF No.2

WEBS 2x3 SPF No.2 *Except* 8-9: 2x4 SPF 2100F 1.8E

(size) 18=0-5-8, 9=0-3-8

Max Horz 18=-68(LC 4) Max Uplift 18=-159(LC 4), 9=-154(LC 5) Max Grav 18=1519(LC 1), 9=1519(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

1-2=-1881/230, 2-3=-1989/290, 3-4=-1777/284, 4-5=-2422/386, 5-6=-2437/387, TOP CHORD

6-7=-2771/391, 7-8=-2792/316, 1-18=-1460/188, 9-11=-1467/168, 8-11=-1437/185BOT CHORD 16-17=-177/1676, 5-14=-309/116, 13-14=-245/2169, 12-13=-100/595, 11-12=-94/667 **WEBS**

2-17=-516/119, 2-16=0/290, 3-16=-18/447, 4-16=-817/183, 14-16=-286/2101,

4-14=-25/363, 6-14=-75/650, 6-13=-170/507, 7-13=-401/229, 8-13=-186/1912,

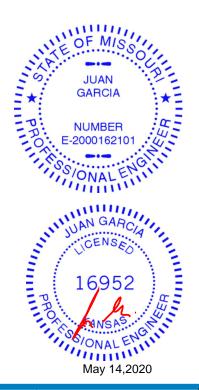
1-17=-192/1731

NOTES-

REACTIONS.

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) gable end 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 18=159, 9=154.
- 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.





M WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.





Wheeler Lumber, Waverly, KS 66871

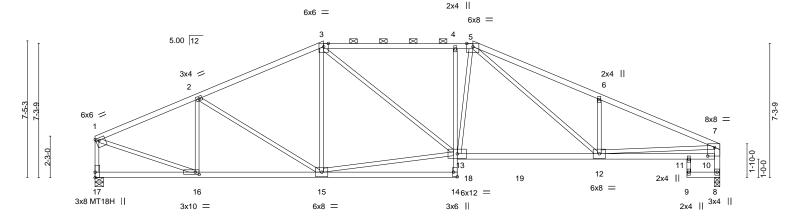
ID:bWuMDBN0tjF5cDvSpwhpH1zCzbQ-iF8njVO8wjX??zsg9svp0XmiVhlRPBc_KdtltkzGs6j

Structural wood sheathing directly applied, except end verticals, and

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

Rigid ceiling directly applied or 2-2-0 oc bracing.





		5-6-11	12-5-4			19-8-8	20-6-12	27-5-4		32-2-8	34-0-0
		5-6-11 '	6-10-10	'		7-3-4	0-10-4	6-10-9		4-9-4	1-9-8
Plate Offse	ets (X,Y)	[1:0-2-0,0-1-8], [5:0-4-2	2,Edge], [7:0-4-8,	0-5-11], [10:0-	0-0,0-1-12],	[14:Edge,0-2-8],	[16:0-2-8,0-1-8	3]			
LOADING	(psf)	SPACING-	2-0-0	CSI.		DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC (0.93	Vert(LL)	-0.30 12-13	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC (0.97	Vert(CT)	-0.53 12-13	>766	240	MT18H	197/144
BCLL	0.0 *	Rep Stress Incr	YES	WB (0.70	Horz(CT)	0.10 8	n/a	n/a		
BCDL	10.0	Code IRC2018/	TPI2014	Matrix-S	s	Wind(LL)	0.12 12-13	>999	240	Weight: 143 lb	FT = 10%

TOP CHORD

BOT CHORD

LUMBER-**BRACING-**

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

4-14,9-11: 2x3 SPF No.2 2x3 SPF No.2 *Except*

WEBS 7-8: 2x4 SPF 2100F 1.8E

REACTIONS. (size) 17=0-5-8, 8=0-3-8

Max Horz 17=-67(LC 4)

Max Uplift 17=-154(LC 8), 8=-163(LC 9) Max Grav 17=1577(LC 2), 8=1610(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD $1\hbox{-}2\hbox{--}1964/197, 2\hbox{-}3\hbox{--}2024/259, 3\hbox{-}4\hbox{--}2238/324, 4\hbox{-}5\hbox{--}2242/320, 5\hbox{-}6\hbox{--}2937/413,}$

6-7=-2943/284, 1-17=-1492/179, 8-10=-1537/177, 7-10=-1466/194

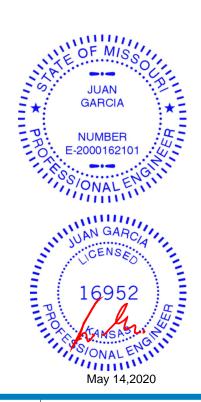
BOT CHORD 15-16=-182/1769, 4-13=-546/214, 12-13=-172/2159, 11-12=-94/621, 10-11=-91/705 **WEBS**

2-16=-489/133, 13-15=-123/1781, 3-13=-93/657, 5-13=-112/713, 5-12=-228/688,

6-12=-465/261, 7-12=-160/2043, 1-16=-160/1839

NOTES-

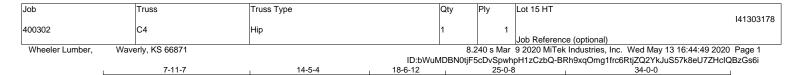
- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate arip 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.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 17=154, 8=163.
- 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.





M WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.





4-1-8

6-5-13



8-11-8

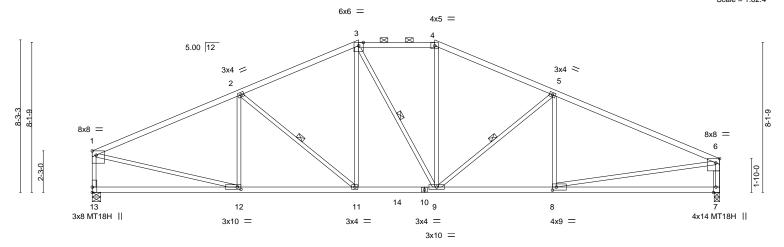
Structural wood sheathing directly applied, except end verticals, and

2-11, 3-9, 5-9

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

1 Row at midpt

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



	L	7-11-7	14-5-4	18-6-12	25-0-8	34-0-0	_
	I	7-11-7	6-5-13	4-1-8	6-5-13	8-11-8	1
Plate Offs	sets (X,Y)	[1:Edge,0-2-12], [6:0-2-8,Edge], [7:0-3-8,Edge], [8:0-2-8,0-2-0],	[12:0-2-8,0-1-8]			
LOADING	(psf)	SPACING- 2-0-0	CSI.	DEFL.	in (loc) I/defl L/	d PLATES GRIP	
TCLL	25.0	Plate Grip DOL 1.15	TC 0.85	Vert(LL)	-0.18 7-8 >999 36	0 MT20 197/144	
TCDL	10.0	Lumber DOL 1.15	BC 0.84	Vert(CT)	-0.38 7-8 >999 24	0 MT18H 197/144	
BCLL	0.0 *	Rep Stress Incr YES	WB 0.66	Horz(CT)	0.06 7 n/a n/	a	
BCDL	10.0	Code IRC2018/TPI2014	Matrix-S	Wind(LL)	0.07 8-9 >999 24	0 Weight: 137 lb FT = 10)%

BRACING-

TOP CHORD

BOT CHORD

WEBS

LUMBER-

WEBS

TOP CHORD 2x4 SPF 2100F 1.8E *Except*

3-4: 2x4 SPF No.2 2x4 SPF No.2

BOT CHORD 2x3 SPF No.2

REACTIONS. (size) 13=0-5-8, 7=0-3-8 Max Horz 13=-64(LC 4)

Max Uplift 13=-172(LC 8), 7=-181(LC 9) Max Grav 13=1581(LC 2), 7=1578(LC 2)

7-11-7

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 1-2=-2146/232, 2-3=-1907/229, 3-4=-1701/255, 4-5=-1932/245, 5-6=-2338/261,

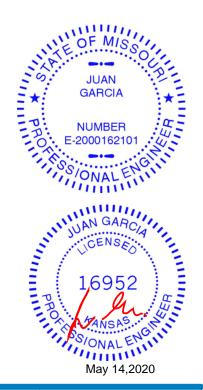
1-13=-1455/211. 6-7=-1435/226

BOT CHORD 11-12=-201/1910, 9-11=-69/1682, 8-9=-176/2076

WEBS 2-12=-287/134, 2-11=-366/177, 3-11=-55/417, 4-9=-31/440, 5-9=-526/204,

1-12=-136/1869, 6-8=-129/1925

- 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) gable end 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 13=172, 7=181.
- 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.





MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.



Job Truss Truss Type Qty Lot 15 HT 141303179 Hip 400302 C5 Job Reference (optional)
8.240 s Mar 9 2020 MiTek Industries, Inc. Wed May 13 16:44:50 2020 Page 1 Wheeler Lumber, Waverly, KS 66871 ID:bWuMDBN0tjF5cDvSpwhpH1zCzbQ-fdFX8APORLniEG?3HHxH5yr4cVWpt5HHnxMsydzGs6h 17-5-8 16-6-12 39-10-8 Scale = 1:70.5 16-6-0 0-0-12 0-0-12 **60×6**10-∓2 2x4 || 5 2x4 || 5.00 12 3 3x4 > 3x6 > 6 3x4 2 6x6 = 6x6 > 8 2-3-0 9 10 1-0-0 16 20 19 18 5x12 = 3x8 MT18H || 3x10 4x9 12 15 13 11 4x5 = 3x6 =3x6 || 5x12 = 6x8 ≥ 5-6-10 11-0-5 33-10-4 39-0-0 16-6-0 5-6-10 5-5-11 5-5-11 Plate Offsets (X,Y)--[1:0-2-0,0-1-8], [11:0-1-2,0-0-8], [11:0-1-12,0-2-0], [18:0-2-8,0-1-8] **PLATES** GRIP LOADING (psf) SPACING-DEFL. (loc) I/defI L/d 197/144 **TCLL** 25.0 Plate Grip DOL 1.15 TC 0.82 Vert(LL) -0.15 13-15 >999 360 MT20 **TCDL** 10.0 Lumber DOL 1.15 ВС 0.66 Vert(CT) -0.29 13-15 >999 240 MT18H 197/144 **BCLL** 0.0 Rep Stress Incr YES WB 0.69 Horz(CT) 0.06 12 n/a n/a Code IRC2018/TPI2014 Wind(LL) BCDL 10.0 Matrix-S 0.08 16-17 >999 240 Weight: 169 lb FT = 10% LUMBER-**BRACING-**TOP CHORD 2x4 SPF No.2 TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins,

BOT CHORD 2x4 SPF No.2 *Except* 5-15: 2x3 SPF No.2

WEBS 2x3 SPF No.2

except end verticals.

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

6-0-0 oc bracing: 12-13,11-12. 1 Row at midpt 5-16

WEBS 1 Row at midpt 2-17, 6-16

REACTIONS. 19=0-5-8, 12=0-3-8 (size)

Max Horz 19=-190(LC 9)

Max Uplift 19=-187(LC 8), 12=-310(LC 9) Max Grav 19=1537(LC 2), 12=2145(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD $1-2=-1916/240,\ 2-3=-1928/259,\ 3-4=-1903/362,\ 4-5=-1711/336,\ 5-6=-1747/258,$

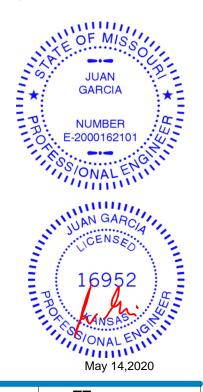
6-8=-1787/239, 8-9=-176/514, 1-19=-1457/210

BOT CHORD 17-18=-218/1725, 16-17=-28/1439, 5-16=-423/222, 12-13=-386/186 **WEBS**

2-18=-460/152, 3-17=-432/223, 4-17=-222/721, 4-16=-268/777, 6-13=-569/162, 8-13=-161/2007, 8-12=-1882/390, 1-18=-189/1795, 9-12=-339/193, 13-16=-49/1466

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) gable end 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 19=187, 12=310.
- 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.





MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

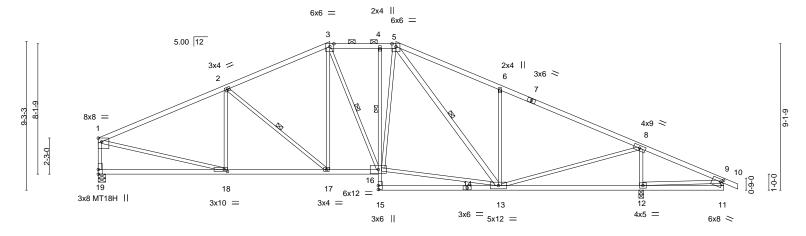
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not Design Valid for use only with release controlled in the controlle



Job Truss Truss Type Qty Lot 15 HT 141303180 Hip 400302 C6 Job Reference (optional)
8.240 s Mar 9 2020 MiTek Industries, Inc. Wed May 13 16:44:52 2020 Page 1 Wheeler Lumber, Waverly, KS 66871

ID:bWuMDBN0tjF5cDvSpwhpH1zCzbQ-b0NIZsRezy1QTa9SOizIANxQLJDHL_9aFFry0WzGs6f 7-11-7 7-11-7 39-0-0 18-6-12 25-0-9 33-10-4 39-10₁8 6-5-13 3-0-4 6-5-14 8-9-11 5-1-12 0-10-8

Scale = 1:71.8



		7-11-7	14-5	5-4	17-5-8	25-0-	.9		33-10-4	34-Q-0	39-0-0
		7-11-7	6-5-	13	3-0-4	7-7-	1 '		8-9-11	0-1 ⁻¹ 12	5-0-0
Plate Offs	sets (X,Y)	[1:Edge,0-2-12], [11:0-1-2,0)-0-8], [11:0-1-	12,0-2-0], [18:	:0-2-8,0-1-8	1					
LOADING	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC 0.	81	Vert(LL)	-0.12 18-19	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC 0.	59	Vert(CT)	-0.25 18-19	>999	240	MT18H	197/144
BCLL	0.0 *	Rep Stress Incr	YES	WB 0.	67	Horz(CT)	0.05 12	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2	014	Matrix-S		Wind(LL)	0.07 17-18	>999	240	Weight: 174 l	b FT = 10%

LUMBER-**BRACING-**

TOP CHORD 2x4 SPF No.2 *Except* 1-3: 2x4 SPF 2100F 1.8E

BOT CHORD 2x4 SPF No.2 *Except* 4-15: 2x3 SPF No.2

WEBS 2x3 SPF No.2 *Except* 5-13: 2x4 SPF No.2

TOP CHORD **BOT CHORD**

Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals, and 2-0-0 oc purlins (4-7-4 max.): 3-5.

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

6-0-0 oc bracing: 12-13,11-12. 1 Row at midpt

4-16 **WEBS** 1 Row at midpt

REACTIONS. (size) 19=0-5-8, 12=0-3-8

Max Horz 19=-173(LC 9)

Max Uplift 19=-171(LC 8), 12=-296(LC 9) Max Grav 19=1474(LC 1), 12=2086(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD $1-2=-2003/231,\ 2-3=-1748/228,\ 3-4=-1529/227,\ 4-5=-1524/226,\ 5-6=-1695/356,$

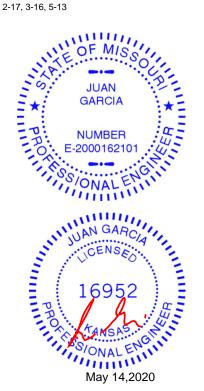
6-8=-1720/214, 8-9=-175/511, 1-19=-1399/210 17-18=-166/1763, 16-17=-29/1519, 12-13=-383/185

BOT CHORD WEBS 2-18=-271/134, 2-17=-374/177, 3-17=-55/350, 13-16=-19/1382, 5-16=-18/447,

6-13=-561/296, 8-13=-167/1938, 8-12=-1883/375, 1-18=-135/1723, 9-12=-331/189

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) gable end 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 19=171, 12=296,
- 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.





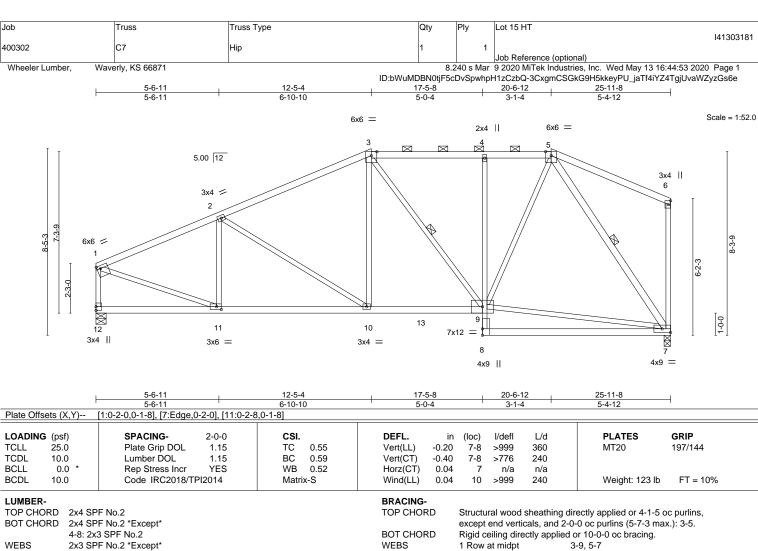
M WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

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 permanent. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



16023 Swingley Ridge Rd Chesterfield, MO 63017



WEBS

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

REACTIONS. (size) 12=0-5-8, 7=0-3-8 Max Horz 12=228(LC 7)

Max Uplift 12=-140(LC 8), 7=-140(LC 5) Max Grav 12=1208(LC 2), 7=1210(LC 2)

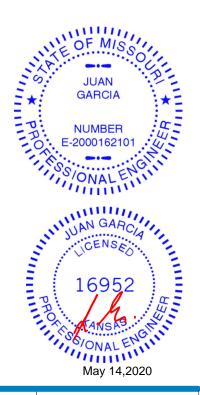
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 1-2=-1459/177, 2-3=-1324/198, 3-4=-993/208, 4-5=-988/208, 1-12=-1127/164

BOT CHORD 10-11=-244/1303, 9-10=-206/1145, 4-9=-336/135

WEBS 2-11=-318/127, 3-10=-2/368, 3-9=-286/81, 7-9=-198/550, 5-9=-87/865, 1-11=-130/1348,

5-7=-1177/215

- 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) gable end 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb)
- 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) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

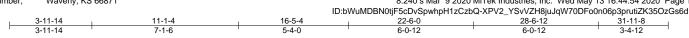


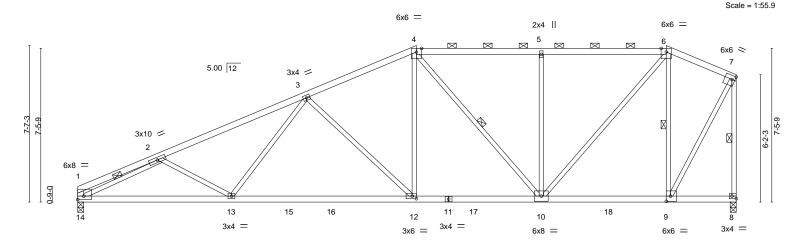


MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.









L		7-5-9	1	16-	5-4	1	22-6-0		I	28-6-12	31-11-8	
		7-5-9	1	8-11	-11	ı	6-0-12		I	6-0-12	3-4-12	
Plate Offsets	(X,Y) [1:0-1-12,0-0-12], [1:Edge,)-2-0], [7:Edo	ge,0-2-4], [8:	Edge,0-1-8],	[9:0-2-8,0-3-0], [12:0-2-8,0-1-8]					
LOADING (ps TCLL 25 TCDL 10	,	SPACING- Plate Grip DOL Lumber DOL	2-0-0 1.15 1.15	CSI. TC BC	0.73 0.96	DEFL. Vert(LL) Vert(CT)	in (loc) -0.28 12-13 -0.49 12-13	l/defl >999 >771	L/d 360 240	PLATES MT20	GRIP 197/144	
BCLL 0).0 *).0 *	Rep Stress Incr Code IRC2018/TPI	YES	WB Matri	0.84	Horz(CT) Wind(LL)	0.49 12-13 0.08 8 0.10 12-13	n/a >999	n/a 240	Weight: 134	Hb FT = 10%	

BOT CHORD

WEBS

BRACING-LUMBER-TOP CHORD

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

1-14: 2x4 SPF No.2

(size) 14=0-3-8, 8=0-3-8 Max Horz 14=253(LC 5)

Max Uplift 14=-184(LC 8), 8=-197(LC 5) Max Grav 14=1512(LC 2), 8=1539(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

1-2=-438/23, 2-3=-2701/308, 3-4=-1941/279, 4-5=-1461/277, 5-6=-1461/277, TOP CHORD

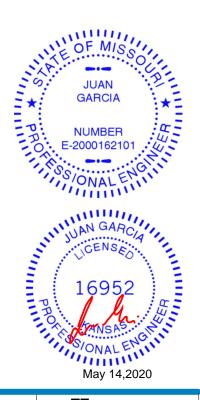
6-7=-710/165, 7-8=-1514/203

BOT CHORD 13-14=-452/2458, 12-13=-335/2182, 10-12=-266/1724, 9-10=-141/653 WEBS 3-13=0/414, 3-12=-640/246, 4-12=-80/763, 4-10=-422/103, 5-10=-516/208,

6-10=-186/1265, 6-9=-975/239, 2-14=-2385/382, 7-9=-184/1343

REACTIONS.

- 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) gable end 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 14=184, 8=197.
- 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) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



Structural wood sheathing directly applied or 2-4-4 oc purlins,

4-10, 6-9, 2-14, 7-8

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

Rigid ceiling directly applied or 2-2-0 oc bracing.

1 Row at midpt



MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

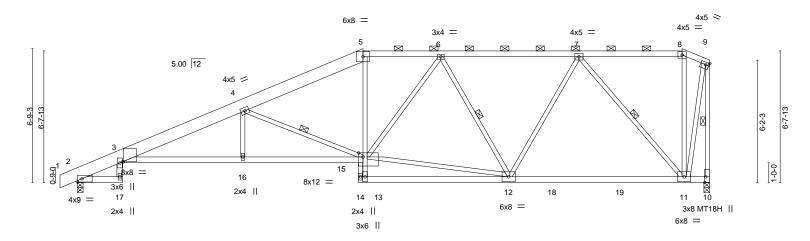


Job Truss Truss Type Qty Lot 15 HT 141303183 400302 D2 Hip Job Reference (optional)

Wheeler Lumber, Waverly, KS 66871

8.240 s Apr 4 2020 MiTek Industries, Inc. Thu May 14 11:56:22 2020 Page 1 ID:bWuMDBN0tjF5cDvSpwhpH1zCzbQ-yO9kklZVA4nWOkCSOHahoZROvvU4FA_0TH3uzyzGbF7 -0-10-8 2-3-8 0-10-8 2-3-8 8-4-6 14-5-4 18-4-7 25-4-3 30-6-12 31-11-8 6-0-14 6-0-14 3-11-3 6-11-12 5-2-9

Scale = 1:58.2



2-3-8	8-4-6	14-2-8	14 ₇ 5-4	21-10-5		1	30-6-	12 3	1-11-8
2-3-8	6-0-14	5-10-2	0-2-12	7-5-1		1	8-8-	7 '1	-4-12
Plate Offsets (X,Y)	[3:0-0-5,0-0-0], [9:0-2-0,0-1-8], [10:0-3-8,Edge], [15:0	0-2-12,0-2-8]						
LOADING (psf) TCLL 25.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING- 2-0-1 Plate Grip DOL 1.1: Lumber DOL 1.1: Rep Stress Incr YES Code IRC2018/TPI2014	TC BC WB	0.85 0.79 0.93 x-S	DEFL. Vert(LL) Vert(CT) Horz(CT) Wind(LL)	in (loc) -0.34 3-16 -0.60 3-16 0.36 10 0.24 3-16	>630 n/a	L/d 360 240 n/a 240	PLATES MT20 MT18H Weight: 166 lb	GRIP 197/144 197/144 FT = 10%

BOT CHORD

WEBS

LUMBER-

BRACING-TOP CHORD 2x4 SPF No.2 *Except* TOP CHORD

1-5: 2x8 SP DSS

BOT CHORD 2x4 SPF No.2 *Except*

3-15: 2x4 SPF 2100F 1.8E, 14-15: 2x3 SPF No.2

2x3 SPF No.2 *Except* **WEBS**

3-17: 2x4 SPF No.2

REACTIONS. (lb/size) 2=1495/0-3-8, 10=1426/0-3-8

Max Horz 2=261(LC 7)

Max Uplift 2=-196(LC 8), 10=-231(LC 5) Max Grav 2=1528(LC 2), 10=1508(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 2-3=-807/47, 3-4=-3643/406, 4-5=-2483/345, 5-6=-2186/338, 6-7=-1632/281,

7-8=-327/103, 8-9=-372/112, 9-10=-1665/192

3-16=-551/3522, 15-16=-549/3516, 14-15=-529/0, 12-18=-270/1235, 18-19=-270/1235, BOT CHORD

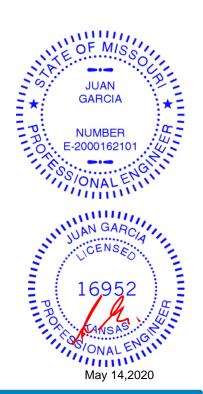
11-19=-270/1235

WEBS 4-15=-1454/327. 12-15=-382/1803. 6-15=-77/367. 6-12=-774/203. 7-12=-27/813.

7-11=-1442/285, 9-11=-176/1555, 13-15=0/667, 5-15=-55/752

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) gable end 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 196 lb uplift at joint 2 and 231 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.



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

4-15, 6-12, 7-11, 9-10

end verticals, and 2-0-0 oc purlins (3-7-12 max.): 5-8.

6-0-0 oc bracing: 14-15.

1 Row at midpt

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



M WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.



Job Truss Truss Type Qty Lot 15 HT 141303184 D3 400302 Half Hip Job Reference (optional)
8.240 s Mar 9 2020 MiTek Industries, Inc. Wed May 13 16:44:56 2020 Page 1 Wheeler Lumber, Waverly, KS 66871 ID:bWuMDBN0tjF5cDvSpwhpH1zCzbQ-TncpPEU91BYsyBTDdX2hKD57bwaHHmy9AtpA9HzGs6b

19-8-15

5-6-7

25-8-3

14-2-8

1-9-4

5-0-14

Scale = 1:57.2

31-11-8

6-3-5

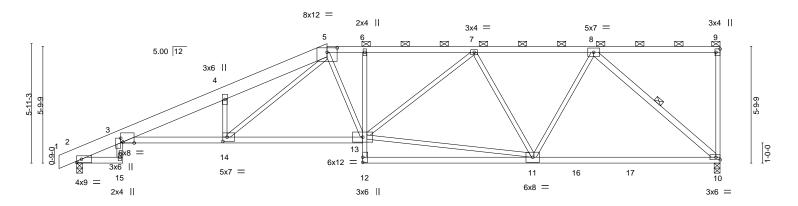
Structural wood sheathing directly applied or 3-2-6 oc purlins,

except end verticals, and 2-0-0 oc purlins (3-4-11 max.): 5-9.

8-10

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

1 Row at midpt



2-2-2 2-		12-5-		22-8-9		1	31-11-8	
2-2-2 0-	<u>1-7 5-0-14</u>	5-0-1	4 1-9-4	8-6-1		ı	9-2-15	
Plate Offsets (X,Y)	[3:0-2-4,0-1-4], [3:0-6-12,E	dge], [5:0-6-0,	0-2-10], [9:Edge,0-	2-8], [14:0-2-8,0-2-8]				
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL. in (loc)	I/def	l L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.73	Vert(LL) -0.31 13-14	>999	360	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.59	Vert(CT) -0.56 13-14	>681	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.81	Horz(CT) 0.31 10) n/a	a n/a		
BCDL 10.0	Code IRC2018/TPI	2014	Matrix-S	Wind(LL) 0.20 13-14	>999	240	Weight: 155 lb	FT = 10%

BRACING-

TOP CHORD

BOT CHORD

WEBS

LUMBER-

TOP CHORD 2x8 SP DSS *Except*

2-3-8

5-0-14

5-9: 2x4 SPF No.2

BOT CHORD 2x4 SPF 2100F 1.8E *Except*

2-15: 2x4 SPF No.2, 6-12: 2x3 SPF No.2 2x3 SPF No.2 *Except*

WEBS 3-15,8-10: 2x4 SPF No.2

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

Max Horz 2=243(LC 7)

Max Uplift 10=-254(LC 5), 2=-182(LC 4) Max Grav 10=1499(LC 2), 2=1533(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 2-3=-805/59, 3-4=-3846/444, 4-5=-4080/542, 5-6=-2592/420, 6-7=-2578/422,

7-8=-1814/310

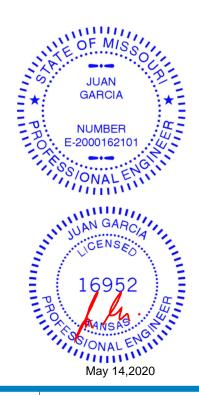
BOT CHORD 3-14=-603/3696, 13-14=-456/2457, 6-13=-259/122, 10-11=-301/1365 WFBS

4-14=-975/295, 5-14=-305/1644, 5-13=-63/371, 11-13=-404/2044, 7-13=-75/535,

7-11=-824/232, 8-11=-28/930, 8-10=-1805/341

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) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Provide adequate drainage to prevent water ponding.
- 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 10=254, 2=182.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 7) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.





MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.



Job Truss Truss Type Qty Lot 15 HT 141303185 400302 Half Hip Job Reference (optional)

Wheeler Lumber, Waverly, KS 66871

2-3-8

2-3-8

6-4-6

4-0-14

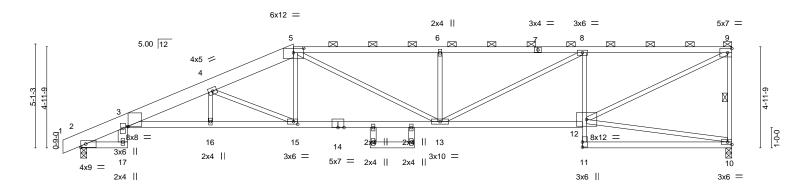
10-5-4

4-0-14

-0-10-8 0-10-8

8.240 s Apr 4 2020 MiTek Industries, Inc. Thu May 14 11:56:34 2020 Page 1 ID:bWuMDBN0tjF5cDvSpwhpH1zCzbQ-citGFPi1LmHpqa7m5pnVH5wUEla92cfnE9zXNFzGbEx 17-7-10 24-7-8 31-11-8 7-2-6 6-11-14 7-4-0

Scale = 1:56.6



2-3-8	6-4-6	10-5-4	17-7-10		24-7	'- 8	1	31-11-8	
2-3-8	4-0-14	4-0-14	7-2-6	ı	6-11	-14	1	7-4-0	ļ
Plate Offsets (X,Y)	[3:0-0-5,0-0-0], [5:0-6-0	0,0-2-10], [15:0-2-	8,0-1-8]						
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	I/defI	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.76	Vert(LL)	-0.30 13-15	>999	360	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.77	Vert(CT	-0.58 13-15	>659	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.88	Horz(CT	0.35 10	n/a	n/a		
BCDL 10.0	Code IRC2018	/TPI2014	Matrix-S	Wind(LL	0.24 13-15	>999	240	Weight: 147 lb	FT = 10%

BRACING-

TOP CHORD

BOT CHORD

WEBS

LUMBER-

TOP CHORD 2x4 SPF 2100F 1.8E *Except*

1-5: 2x8 SP DSS

BOT CHORD 2x4 SPF No.2 *Except*

3-14: 2x4 SPF 2100F 1.8E, 8-11: 2x3 SPF No.2

2x3 SPF No.2 *Except* **WEBS**

3-17: 2x6 SPF No.2, 18-20,19-21: 2x4 SPF No.2

REACTIONS. (lb/size) 10=1425/0-3-8, 2=1492/0-3-8

Max Horz 2=206(LC 5)

Max Uplift 10=-259(LC 5), 2=-202(LC 4)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 2-3=-719/73, 3-4=-3846/519, 4-5=-3049/472, 5-6=-3145/559, 6-7=-3145/559,

7-8=-3145/559, 8-9=-2330/454, 9-10=-1351/305

BOT CHORD 3-16=-672/3789, 15-16=-668/3777, 14-15=-518/2773, 13-14=-518/2773, 12-13=-489/2341,

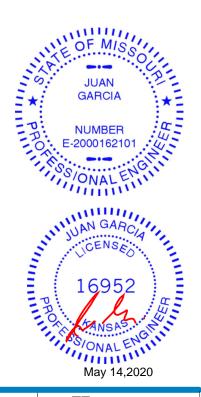
8-12=-956/288

WEBS 4-15=-1123/240, 5-15=-30/595, 5-13=-117/417, 6-13=-505/212, 8-13=-133/908,

9-12=-504/2575

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) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate
- 2) Provide adequate drainage to prevent water ponding.
- 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 259 lb uplift at joint 10 and 202 lb uplift at ioint 2.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 7) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



Structural wood sheathing directly applied or 3-0-12 oc purlins,

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

9-10

Rigid ceiling directly applied or 8-1-13 oc bracing.

1 Row at midpt



MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 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/TPH Quality Criteria, DSB-89 and BCSI Building Component fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

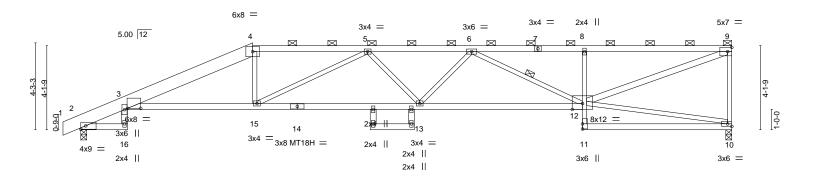
ANSI/TPI1 Qua
Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



Job Truss Truss Type Qty Lot 15 HT 141303186 400302 D5 Half Hip Job Reference (optional) Wheeler Lumber, Waverly, KS 66871

8.240 s Apr. 4 2020 MiTek Industries, Inc. Thu May 14 11:56:41 2020 Page 1 ID:bWuMDBN0tjF5cDvSpwhpH1zCzbQ-v2ovkooQhwApAf96?nP83ZjfkZ1wBoOprlAP7LzGbEq -0-10-8 0-10-8 2-3-8 8-5-4 14-1-0 19-2-5 24-7-8 31-11-8 2-3-8 6-1-12 5-7-12 5-1-5 5-5-4 7-4-0

Scale = 1:56.6



2-3-8 2-3-8	8-5-4 6-1-12	16-7-10 8-2-6	24-7-8 7-11-14	31-11-8 7-4-0
Plate Offsets (X,Y)	[3:0-7-11,0-0-0]			
LOADING (psf) TCLL 25.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2018/TPI2014	CSI. TC 0.81 BC 0.57 WB 0.82 Matrix-S	DEFL. in (loc) I/defl L/d Vert(LL) -0.41 13-15 >932 360 Vert(CT) -0.76 13-15 >504 240 Horz(CT) 0.43 10 n/a n/a Wind(LL) 0.33 13-15 >999 240	PLATES GRIP MT20 197/144 MT18H 197/144 Weight: 138 lb FT = 10%

BRACING-

TOP CHORD

BOT CHORD

WEBS

LUMBER-

TOP CHORD 2x8 SP DSS *Except*

4-7: 2x4 SPF No.2, 7-9: 2x4 SPF 2100F 1.8E

BOT CHORD 2x4 SPF No.2 *Except*

3-14,12-14: 2x4 SPF 2100F 1.8E, 8-11: 2x3 SPF No.2

WEBS 2x3 SPF No.2 *Except*

3-16,9-12,17-19,18-20: 2x4 SPF No.2

REACTIONS. (lb/size) 10=1425/0-3-8, 2=1494/0-3-8

Max Horz 2=170(LC 5) Max Uplift 10=-262(LC 5), 2=-218(LC 4)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-3=-713/87, 3-4=-3351/509, 4-5=-3210/524, 5-6=-3967/671, 6-7=-2883/549,

7-8=-2883/549, 8-9=-2873/557, 9-10=-1351/307

BOT CHORD 3-15=-591/3198, 14-15=-777/3955, 13-14=-777/3955, 12-13=-759/3829, 8-12=-507/214

4-15=-1/438, 5-15=-838/228, 6-13=0/293, 6-12=-1064/198, 9-12=-599/3061 **WEBS**

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C: Enclosed: MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Provide adequate drainage to prevent water ponding.
- 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 262 lb uplift at joint 10 and 218 lb uplift at ioint 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.
- 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



Structural wood sheathing directly applied or 2-6-7 oc purlins, except

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

6-12

Rigid ceiling directly applied or 8-10-12 oc bracing.

1 Row at midpt

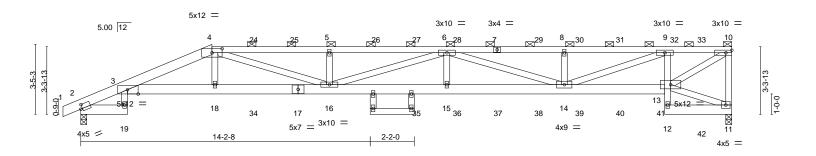
M WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.



Job Truss Truss Type Qty Lot 15 HT 141303187 400302 D6 Half Hip Girder 3 Job Reference (optional) 8.240 s Apr 4 2020 MiTek Industries, Inc. Thu May 14 11:56:59 2020 Page 1 ID:bWuMDBN0tjF5cDvSpwhpH1zCzbQ-NWujVy0jSRRGKQXa3ZkNoMTkCpA0P1CT_YXMmIzGbEY Wheeler Lumber, Waverly, KS 66871

-0-10-8 0-10-8 2-3-8 6-5-4 12-2-7 17-11-10 23-8-13 28-8-0 31-11-8 2-3-8 4-1-12 5-9-3 5-9-3 5-9-3 4-11-3 3-3-8

Scale = 1:56.6



	2-3-8	6-5-4	12-2-7			11-10	23-8-1		1		1-11-8
	2-3-8	4-1-12	5-9-3		' 5	-9-3	5-9-3			4-11-3	3-3-8
Plate Offse	ets (X,Y)	[2:0-1-1,0-2-8], [3:0-6-4	,Edge], [4:0-6-0,0)-2-6]							
LOADING	(psf)	SPACING-	2-0-0	CSI.		DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.81	Vert(LL)	-0.41 15-16	>925	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.51	Vert(CT)	-0.74 15-16	>513	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.41	Horz(CT)	0.32 11	n/a	n/a		
BCDL	10.0	Code IRC2018/	TPI2014	Matri	x-S	Wind(LL)	0.24 15-16	>999	240	Weight: 510 lb	FT = 10%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x4 SPF No.2 *Except*

1-4: 2x6 SP DSS

BOT CHORD 2x6 SP 2400F 2.0E *Except* 9-12,20-21: 2x4 SPF No.2

WEBS 2x4 SPF No.2

(lb/size) 11=2891/0-3-8, 2=2862/0-3-8 REACTIONS.

Max Horz 2=100(LC 5)

Max Uplift 11=-114(LC 5), 2=-195(LC 4)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 2-3=-1669/115, 3-4=-8942/674, 4-24=-11247/673, 24-25=-11247/673, 5-25=-11247/673,

5-26=-11247/673, 26-27=-11247/673, 6-27=-11247/673, 6-28=-8983/344, 7-28=-8983/344,

7-29=-8983/344, 8-29=-8983/344, 8-30=-8983/344, 30-31=-8983/344, 31-32=-8983/344,

9-32=-8983/344, 9-33=-4358/178, 10-33=-4358/178, 10-11=-2787/146

BOT CHORD 3-18=-694/8480, 18-34=-699/8587, 17-34=-699/8587, 16-17=-699/8587, 16-35=-606/11994, 15-35=-606/11994, 15-36=-606/11994, 36-37=-606/11994, 37-38=-606/11994,

14-38=-606/11994, 14-39=-214/4605, 39-40=-213/4608, 40-41=-212/4611,

13-41=-211/4614. 9-13=-2195/190

WFBS 3-19=-36/561, 4-18=-63/1230, 4-16=-31/2928, 5-16=-723/192, 6-16=-853/0, 6-15=0/538,

 $6-14=-3177/240,\ 8-14=-608/146,\ 9-14=-178/4688,\ 10-13=-214/5058$

NOTES-

- 1) 3-ply truss to be connected together with 10d (0.131"x3") nails as follows:
 - Top chords connected as follows: 2x6 2 rows staggered at 0-9-0 oc, 2x4 1 row at 0-7-0 oc.

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

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

- 2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- 3) Unbalanced roof live loads have been considered for this design.
- 4) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 5) Provide adequate drainage to prevent water ponding.
- 6) All plates are 2x4 MT20 unless otherwise indicated.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 114 lb uplift at joint 11 and 195 lb uplift at
- 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.



MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 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/TPH Quality Criteria, DSB-89 and BCSI Building Component fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

ANSI/TPI1 Qua
Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



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

O

GARCIA

NUMBER

-2000162101

end verticals, and 2-0-0 oc purlins (5-9-9 max.): 4-10.

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



16023 Swingley Ridge Rd Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Lot 15 HT	
400302	D6	Half Hip Girder	1	3	Job Reference (optional)	I41303187

Wheeler Lumber, Waverly, KS 66871

8.240 s Apr 4 2020 MiTek Industries, Inc. Thu May 14 11:56:59 2020 Page 2 ID:bWuMDBN0tjF5cDvSpwhpH1zCzbQ-NWujVy0jSRRGKQXa3ZkNoMTkCpA0P1CT_YXMmIzGbEY

NOTES-

12) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 140 lb down and 62 lb up at 6-5-4, 117 lb down and 62 lb up at 8-6-0, 117 lb down and 62 lb up at 10-6-0, 117 lb down and 62 lb up at 12-6-0, 117 lb down and 62 lb up at 14-6-0, 98 lb down and 51 lb up at 16-6-0, 98 lb down and 51 lb up at 18-6-0, 98 lb down and 51 lb up at 20-6-0, 98 lb down and 51 lb up at 26-6-0, 98 lb down and 51 lb up at 26-6-0, and 98 lb down a and 51 lb up at 28-6-0, and 122 lb down and 70 lb up at 30-6-0 on top chord, and 536 lb down and 145 lb up at 6-5-4, 79 lb down at 8-6-0, 79 lb down at 10-6-0, 79 lb down at 12-6-0, 89 lb down at 16-6-0, 89 lb down at 18-6-0, 89 lb down at 20-6-0, 89 lb down at 22-6-0, 89 lb down at 24-6-0, 89 lb down at 26-6-0, and 89 lb down at 28-6-0, and 75 lb down at 30-6-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

13) Filler applied to ply: 1(Front)

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-4=-70, 4-10=-70, 2-19=-20, 3-13=-20, 11-12=-20

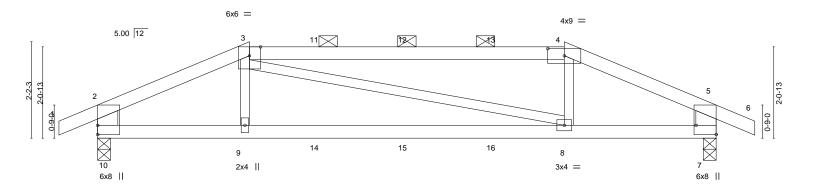
Concentrated Loads (lb)

Vert: 4=-117(B) 7=-98(B) 17=-74(B) 18=-536(B) 16=-74(B) 5=-117(B) 24=-117(B) 25=-117(B) 26=-117(B) 27=-98(B) 28=-98(B) 29=-98(B) 30=-98(B) 31=-98(B) 32=-98(B) 33=-122(B) 34=-74(B) 35=-89(B) 36=-89(B) 37=-89(B) 38=-89(B) 39=-89(B) 40=-89(B) 41=-89(B) 42=-58(B)



Job Truss Truss Type Qty Lot 15 HT 141303188 E1 400302 Hip Girder Job Reference (optional)
8.240 s Mar 9 2020 MiTek Industries, Inc. Wed May 13 16:45:03 2020 Page 1 Wheeler Lumber, Waverly, KS 66871 ID:bWuMDBN0tjF5cDvSpwhpH1zCzbQ-m7YStdZYNKQsIGVZXWgK7huGvkuvQ6tBnS?2vNzGs6U 14-10-8 14-0-0 10-6-12 3-5-4 3-5-4 0-10-8 3-5-4 0-10-8

Scale = 1:26.1



		3-5-4	10-6-12	10-6-12				14-0-0				
		3-5-4	7-1-8					3-5-4	ı			
Plate Offsets	(X,Y)	[2:0-1-2,0-2-12], [4:0-4-8,0-1	I-15], [5:0-1	-2,0-2-12], [7	:Edge,0-5-8	3], [7:0-0-0,0-2-12],	[10:0-0-	0,0-2-1	[2]			
LOADING (p	osf)	SPACING- 2	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 25	5.Ó	Plate Grip DOL	1.15	TC	0.91	Vert(LL)	-0.15	8-9	>999	360	MT20	197/144
TCDL 10	0.0	Lumber DOL	1.15	BC	0.91	Vert(CT)	-0.35	8-9	>466	240		
BCLL (0.0 *	Rep Stress Incr	NO	WB	0.09	Horz(CT)	0.03	7	n/a	n/a		
BCDL 10	0.0	Code IRC2018/TPI20	014	Matrix	-S	Wind(LL)	0.13	8-9	>999	240	Weight: 45 lb	FT = 10%

BOT CHORD

LUMBER-**BRACING-**TOP CHORD

TOP CHORD 2x4 SPF No.2 *Except*

3-4: 2x4 SPF 2100F 1.8E 2x4 SPF No.2

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

2-10,5-7: 2x6 SP 2400F 2.0E

REACTIONS. 10=0-3-8, 7=0-3-8 (size)

Max Horz 10=17(LC 28)

Max Uplift 10=-183(LC 4), 7=-183(LC 5) Max Grav 10=858(LC 1), 7=858(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD

2-3=-1359/274, 3-4=-1168/268, 4-5=-1339/269, 2-10=-750/160, 5-7=-755/161

BOT CHORD 9-10=-220/1197, 8-9=-228/1192, 7-8=-209/1171

WEBS 3-9=0/275, 4-8=0/285

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) gable end 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 10=183, 7=183.
- 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) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 9) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 164 lb down and 131 lb up at 3-5-4, 76 lb down and 61 lb up at 5-0-0, 76 lb down and 61 lb up at 7-0-0, and 76 lb down and 61 lb up at 9-0-0, and 164 lb down and 131 lb up at 10-6-12 on top chord, and 55 lb down at 3-5-4, 23 lb down at 5-0-0, 23 lb down at 7-0-0, and 23 lb down at 9-0-0, and 55 lb down at 10-6-0 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



Structural wood sheathing directly applied or 2-11-6 oc purlins,

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

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

Continued on page 2





Job Truss Truss Type Qty Ply Lot 15 HT I41303188 E1 400302 Hip Girder

Wheeler Lumber,

Waverly, KS 66871

Job Reference (optional)
8.240 s Mar 9 2020 MiTek Industries, Inc. Wed May 13 16:45:03 2020 Page 2 ID:bWuMDBN0tjF5cDvSpwhpH1zCzbQ-m7YStdZYNKQsIGVZXWgK7huGvkuvQ6tBnS?2vNzGs6U

LOAD CASE(S) Standard

Uniform Loads (plf)

Vert: 1-2=-70, 2-3=-70, 3-4=-70, 4-5=-70, 5-6=-70, 7-10=-20

Concentrated Loads (lb)

Vert: 3=-64(F) 4=-64(F) 9=-37(F) 8=-37(F) 11=-31(F) 12=-31(F) 13=-31(F) 14=-16(F) 15=-16(F) 16=-16(F)



Job Truss Truss Type Qty Lot 15 HT 141303189 Hip 400302 E2 Job Reference (optional)
8.240 s Mar 9 2020 MiTek Industries, Inc. Wed May 13 16:45:04 2020 Page 1 Wheeler Lumber, Waverly, KS 66871 ID:bWuMDBN0tjF5cDvSpwhpH1zCzbQ-EK5q4zaA8eYjvQ4l5DBZfvQWx8Nf9amL?6lbSpzGs6T 14-10-8 -0-10-8 0-10-8 14-0-0 8-6-12

3-1-8

Scale = 1:26.1

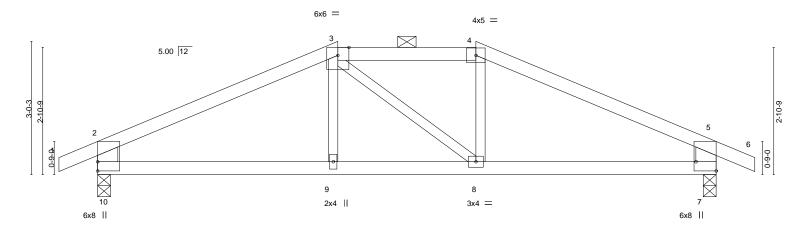
0-10-8

5-5-4

Structural wood sheathing directly applied or 5-4-12 oc purlins,

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

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



		5-5-4	I	8-6-12	1	14-0-0	
	ı	5-5-4	· · · · · · · · · · · · · · · · · · ·	3-1-8	I	<u> </u>	
Plate Offse	ets (X,Y)	[2:0-1-2,0-2-12], [5:0-1-2,0-2-12], [7:Ed	ge,0-5-8], [7:0-0-0,0-2-1	2], [10:0-0-0,0-2-12]			
LOADING	(psf)	SPACING- 2-0-0	CSI.	DEFL. in	(loc) I/defl	L/d PLATES	GRIP
TCLL	25.0	Plate Grip DOL 1.15	TC 0.58	Vert(LL) -0.05	8-9 >999	360 MT20	197/144
TCDL	10.0	Lumber DOL 1.15	BC 0.37	Vert(CT) -0.10	8-9 >999	240	
BCLL	0.0 *	Rep Stress Incr YES	WB 0.05	Horz(CT) 0.02	7 n/a	n/a	
BCDL	10.0	Code IRC2018/TPI2014	Matrix-S	Wind(LL) 0.03	8-9 >999	240 Weight: 4	4 lb FT = 10%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

2-10,5-7: 2x6 SPF No.2

(size) 10=0-3-8, 7=0-3-8 Max Horz 10=-27(LC 13)

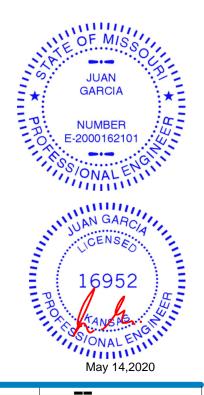
Max Uplift 10=-90(LC 8), 7=-90(LC 9) Max Grav 10=687(LC 1), 7=687(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-3=-877/96, 3-4=-727/108, 4-5=-877/96, 2-10=-612/128, 5-7=-612/128 BOT CHORD 9-10=-32/729, 8-9=-34/727, 7-8=-34/729

NOTES-

REACTIONS.

- 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) gable end 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.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 10, 7.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.





M WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.



Job Truss Truss Type Qty Lot 15 HT 141303190 400302 E3 Common Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inc. Wed May 13 16:45:05 2020 Page 1 Wheeler Lumber, Waverly, KS 66871 ID:bWuMDBN0tjF5cDvSpwhpH1zCzbQ-jWfCHJbovygaXafxfwioC6zgTYj2u0PUEmU8_FzGs6S 7-0-0 0-10-8 Scale = 1:24.4 4x9 = 3 5.00 12 6x8 II 6 2x4 || 6x8 || 14-0-0 7-0-0 Plate Offsets (X,Y)--[2:0-1-2,0-2-12], [4:Edge,0-5-8], [4:0-1-2,0-2-12], [5:0-0-0,0-2-12], [7:0-0-0,0-2-12] **PLATES** GRIP LOADING (psf) SPACING-DEFL. (loc) I/defI L/d **TCLL** 25.0 Plate Grip DOL 1.15 TC 0.65 Vert(LL) -0.05 6-7 >999 360 MT20 197/144 **TCDL** 10.0 Lumber DOL 1.15 ВС 0.36 Vert(CT) -0.11 6-7 >999 240 **BCLL** 0.0 Rep Stress Incr YES WB 0.09 Horz(CT) 0.01 5 n/a n/a

Wind(LL)

BRACING-

TOP CHORD

BOT CHORD

6-7

0.03

>999

except end verticals.

240

Rigid ceiling directly applied or 10-0-0 oc bracing

Structural wood sheathing directly applied or 5-0-8 oc purlins,

LUMBER-

BCDL

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

10.0

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

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

Max Horz 7=47(LC 12)

Max Uplift 7=-103(LC 8), 5=-77(LC 9) Max Grav 7=690(LC 1), 5=606(LC 1)

FORCES. (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) or less except when shown. TOP CHORD 2-3=-820/104, 3-4=-815/102, 2-7=-620/149, 4-5=-529/120

Code IRC2018/TPI2014

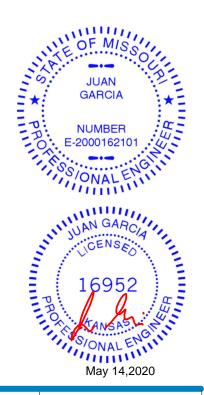
BOT CHORD 6-7=-38/662, 5-6=-38/662

WEBS 3-6=0/276

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

Matrix-R

- 3) 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5 except (jt=lb) 7=103.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



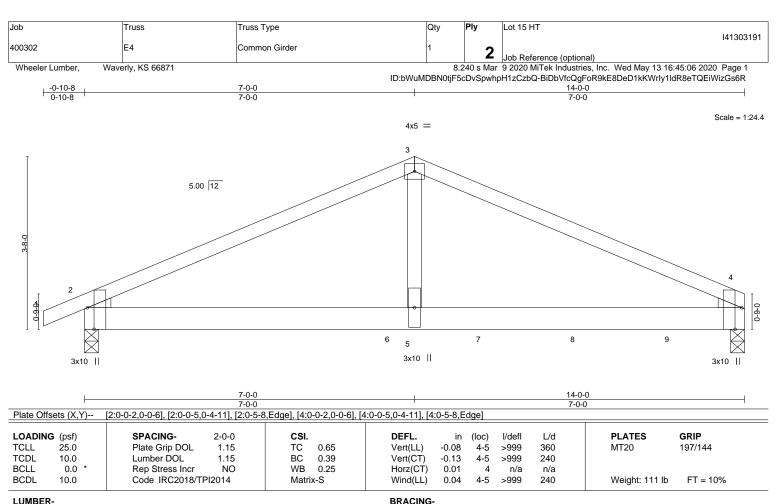
FT = 10%

Weight: 38 lb



MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.





TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x4 SPF No.2 **BOT CHORD** 2x6 SP 2400F 2.0E WEBS 2x4 SPF No.2

WEDGE

Left: 2x3 SPF No.2, Right: 2x3 SPF No.2

REACTIONS. (size) 2=0-3-8, 4=0-3-8

Max Horz 2=58(LC 33)

Max Uplift 2=-172(LC 8), 4=-192(LC 9) Max Grav 2=1542(LC 1), 4=2117(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 2-3=-3009/271. 3-4=-2997/269 **BOT CHORD** 2-5=-190/2615, 4-5=-190/2615

3-5=-77/2023 WEBS

NOTES-

- 1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
 - Top chords connected as follows: 2x4 1 row at 0-9-0 oc.

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

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

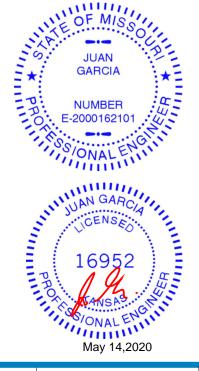
- 2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- 3) Unbalanced roof live loads have been considered for this design.
- 4) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=172 4=192
- 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) 946 lb down and 103 lb up at 6-6-13, 489 lb down and 31 lb up at 8-6-0, and 453 lb down and 33 lb up at 10-6-0, and 465 lb down and 49 lb up at 12-6-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

Continued on page 2

MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 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 Design Valid for use only with release controlled in the controlle



Structural wood sheathing directly applied or 6-0-0 oc purlins.

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



Job	Truss	Truss Type	Qty	Ply	Lot 15 HT	\Box
400302	E4	Common Girder	1	2	Id Reference (ontional)	Л

Wheeler Lumber,

Waverly, KS 66871

8.240 s Mar 9 2020 MiTek Industries, Inc. Wed May 13 16:45:06 2020 Page 2 ID:bWuMDBN0tjF5cDvSpwhpH1zCzbQ-BiDbVfcQgFoR9kE8DeD1kKWrly1ldR8eTQEiWizGs6R

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-3=-70, 3-4=-70, 2-4=-20

Concentrated Loads (lb)

Vert: 6=-946(B) 7=-489(B) 8=-453(B) 9=-465(B)



Job Truss Truss Type Qty Lot 15 HT 141303192 400302 G1 Hip Girder Job Reference (optional)
8.240 s Mar 9 2020 MiTek Industries, Inc. Wed May 13 16:45:07 2020 Page 1 Wheeler Lumber, Waverly, KS 66871 ID:bWuMDBN0tjF5cDvSpwhpH1zCzbQ-fvnzi_c3RZwIntpKmLkGHX26vMQbMxqni4zF28zGs6Q 8-0-0

4-0-0

Scale = 1:16.8

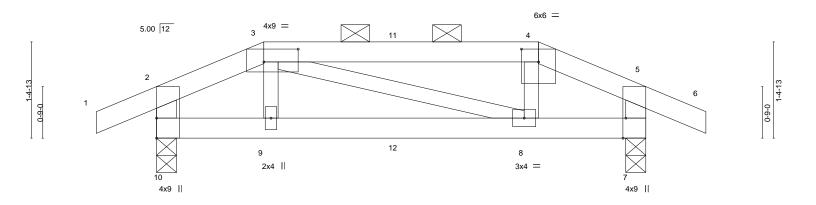
0-10-8

1-6-12

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.

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



	1-6-12 1-6-12	5-6-12 4-0-0	7-1-a	
Plate Offsets (X,Y)		3-0,0-2-4], [5:0-0-12,0-1-12], [7:0-3-8,Edge],		2
LOADING (psf) TCLL 25.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr NO Code IRC2018/TPI2014	CSI. DEFL. TC 0.27 Vert(LL) BC 0.22 Vert(CT) WB 0.03 Horz(CT) Matrix-S Wind(LL)	in (loc) l/defl L/d -0.01 8-9 >999 360 -0.03 8-9 >999 240 0.00 7 n/a n/a 0.01 8-9 >999 240	PLATES GRIP MT20 197/144 Weight: 24 lb FT = 10%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

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

0-10-8

1-6-12

(size) 10=0-3-8, 7=0-3-8

Max Horz 10=-17(LC 27) Max Uplift 10=-74(LC 4), 7=-74(LC 5) Max Grav 10=375(LC 1), 7=375(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. 2-3=-368/60, 3-4=-299/56, 4-5=-368/59, 2-10=-308/66, 5-7=-308/65 TOP CHORD

BOT CHORD 9-10=-34/300, 8-9=-30/299, 7-8=-27/300

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) gable end 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.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 10, 7.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 9) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 57 lb down and 64 lb up at 1-6-12, and 50 lb down and 23 lb up at 3-6-12, and 57 lb down and 64 lb up at 5-6-12 on top chord, and 7 lb down and 3 lb up at 1-6-12, and 3 lb down and 1 lb up at 3-6-12, and 7 lb down and 3 lb up at 5-6-0 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).

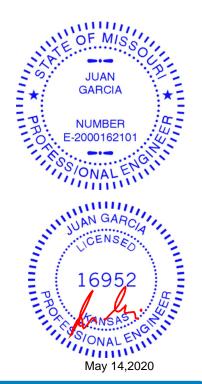
LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

Vert: 1-2=-70, 2-3=-70, 3-4=-70, 4-5=-70, 5-6=-70, 7-10=-20

Concentrated Loads (lb)

Vert: 9=3(F) 8=3(F) 12=1(F)





MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.



Job Truss Truss Type Qty Lot 15 HT 141303193 400302 G2 Common Job Reference (optional)
8.240 s Mar 9 2020 MiTek Industries, Inc. Wed May 13 16:45:08 2020 Page 1 Wheeler Lumber, Waverly, KS 66871 ID:bWuMDBN0tjF5cDvSpwhpH1zCzbQ-75LLwKdhCt29O1OWK3GVqlbldln95OwwwkjpbazGs6P 8-0-0 0-10-8 3-6-12 3-6-12 0-10-8 Scale = 1:17.0 4x5 = 3 5.00 12

> 3-6-12 3-6-12

> > **BOT CHORD**

2x4 ||

Plate Offs	sets (X,Y)	[2:0-0-12,0-1-12], [4:0-0-	2:0-0-12,0-1-12], [4:0-0-12,0-1-12], [6:0-3-8,Edge], [6:0-0-0,0-1-12], [8:0-0-0,0-1-12]										
LOADING	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL	25.0	Plate Grip DOL	1.15	TC	0.21	Vert(LL)	-0.01	7	>999	360	MT20	197/144	
TCDL	10.0	Lumber DOL	1.15	BC	0.14	Vert(CT)	-0.02	7	>999	240			
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.04	Horz(CT)	0.00	6	n/a	n/a			
BCDL	10.0	Code IRC2018/TI	PI2014	Matri	x-R	Wind(LL)	0.00	7	>999	240	Weight: 21 lb	FT = 10%	

LUMBER-**BRACING-**TOP CHORD

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

3-7: 2x3 SPF No.2

(size) 8=0-3-8, 6=0-3-8 Max Horz 8=-15(LC 13)

4x9 ||

Max Uplift 8=-63(LC 8), 6=-63(LC 9) Max Grav 8=379(LC 1), 6=379(LC 1)

FORCES. (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) or less except when shown TOP CHORD 2-3=-333/49, 3-4=-333/48, 2-8=-328/85, 4-6=-328/85

BOT CHORD 7-8=-4/254, 6-7=-4/254

NOTES-

REACTIONS.

- 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) gable end 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 8, 6.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



4x9

Structural wood sheathing directly applied or 6-0-0 oc purlins,

Rigid ceiling directly applied or 10-0-0 oc bracing

except end verticals.

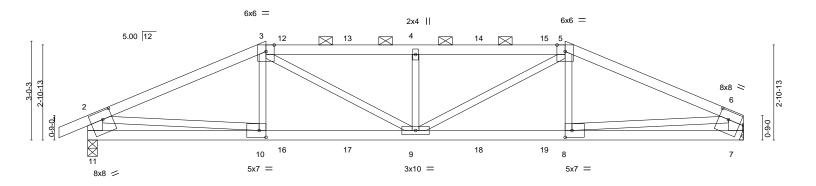


MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.



Job Truss Truss Type Qty Ply Lot 15 HT 141303194 400302 Н1 Hip Girder Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inc. Wed May 13 16:45:10 2020 Page 1 Wheeler Lumber, Waverly, KS 66871 ID:bWuMDBN0tjF5cDvSpwhpH1zCzbQ-3UT5L0fxkUJteLXvSUIzvAgUhZlzZ5GDO2CvfTzGs6N 0-10-8 0-10-8 10-0-0 14-6-12 20-0-0 4-6-12 4-6-12 5-5-4

Scale = 1:35.1



	5-5-4	10-0-0	14-6-12	20-0-0		
	5-5-4	4-6-12	4-6-12	5-5-4	ı	
Plate Offsets (X,Y)	- [6:0-3-8,0-3-0], [7:0-2-9,0-1-1], [8:0-2	2-8,0-2-8], [10:0-2-8,0-2-8], [11:0-3-8,0)-3-0], [11:0-2-9,0-1-1]			
LOADING (psf)	SPACING- 2-0-0	CSI. DI	EFL. in (loc) I/defl	L/d PLATES GRIP		
TCLL 25.0	Plate Grip DOL 1.15	TC 0.88 Ve	ert(LL) -0.16 9 >999	360 MT20 197/144		
TCDL 10.0	Lumber DOL 1.15	BC 0.88 Ve	ert(CT) -0.28 8-9 >826	240		
BCLL 0.0 *	Rep Stress Incr NO	WB 0.82 Ho	orz(CT) 0.05 7 n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014	Matrix-S W	ind(LL) 0.10 9 >999 :	240 Weight: 71 lb FT = 10%	D	

TOP CHORD

BOT CHORD

LUMBER-**BRACING-**

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

2-11,6-7: 2x6 SPF No.2

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

Max Horz 11=24(LC 5)

Max Uplift 11=-184(LC 4), 7=-168(LC 9) Max Grav 11=1753(LC 1), 7=1671(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

2-3=-3138/360, 3-4=-3608/416, 4-5=-3608/416, 5-6=-3142/359, 2-11=-1687/207, TOP CHORD

6-7=-1604/191

10-11=-109/604, 9-10=-308/2819, 8-9=-307/2833, 7-8=-62/480

3-10=0/338, 3-9=-85/975, 4-9=-706/186, 5-9=-83/967, 5-8=0/329, 2-10=-246/2289, **WEBS**

6-8=-265/2374

REACTIONS.

BOT CHORD

- 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); 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 11=184, 7=168,
- 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) 121 lb down and 64 lb up at 5-5-4, 109 lb down and 64 lb up at 6-0-0, 98 lb down and 64 lb up at 8-0-0, 98 lb down and 64 lb up at 10-0-0, 98 lb down and 64 lb up at 12-0-0, and 109 lb down and 64 lb up at 14-0-0, and 121 lb down and 64 lb up at 14-6-12 on top chord, and 344 lb down and 99 lb up at 5-5-4, 60 lb down at 6-0-0, 60 lb down at 8-0-0, 60 lb down at 10-0-0, 60 lb down at 12-0-0, and 60 lb down at 14-0-0, and 344 lb down and 99 lb up at 14-6-0 on bottom chord. The design/selection of such connection device(s) is the
- 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

Continued on page 2



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 permanent. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



Structural wood sheathing directly applied or 2-7-2 oc purlins,

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

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



Job	Truss	Truss Type	Qty	Ply	Lot 15 HT
400302	 H1	Hip Girder	1	1	I41303194
400302	П	Inip Girder		'	Job Reference (optional)

Wheeler Lumber,

Waverly, KS 66871

8.240 s Mar 9 2020 MiTek Industries, Inc. Wed May 13 16:45:10 2020 Page 2 ID:bWuMDBN0tjF5cDvSpwhpH1zCzbQ-3UT5L0fxkUJteLXvSUIzvAgUhZIzZ5GDO2CvfTzGs6N

LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

Vert: 1-2=-70, 2-3=-70, 3-5=-70, 5-6=-70, 7-11=-20

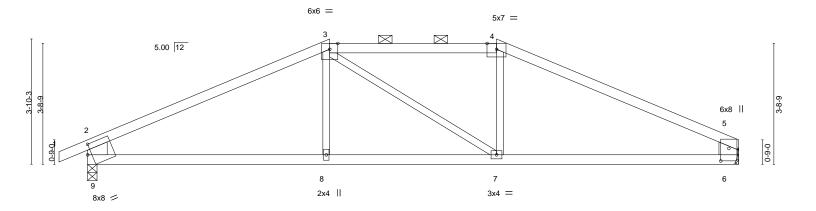
Concentrated Loads (lb)

Vert: 3=-98(F) 5=-98(F) 10=-344(F) 9=-43(F) 4=-98(F) 8=-344(F) 12=-98(F) 13=-98(F) 14=-98(F) 15=-98(F) 16=-43(F) 17=-43(F) 18=-43(F) 19=-43(F) 19=



Job Truss Truss Type Qty Lot 15 HT 141303195 Hip 400302 H2 Job Reference (optional)
8.240 s Mar 9 2020 MiTek Industries, Inc. Wed May 13 16:45:10 2020 Page 1 Wheeler Lumber, Waverly, KS 66871 ID:bWuMDBN0tjF5cDvSpwhpH1zCzbQ-3UT5L0fxkUJteLXvSUIzvAgS4ZKFZFSDO2CvfTzGs6N 0-10-8 0-10-8 12-6-12 7-5-4 7-5-4

Scale = 1:35.4



		7-5-4	1	12-6-12							
	ı	7-5-4	5-1-8				7-5-4	ı			
Plate Offse	ets (X,Y)	[2:0-3-15,0-0-0], [5:0-4-10,0-3-0	, [9:0-1-8,0-3-9], [9:	0-3-6,0-1-6]							
LOADING	(psf)	SPACING- 2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL 1.15	TC	0.98	Vert(LL)	-0.15	7-8	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL 1.15	BC	0.74	Vert(CT)	-0.29	7-8	>809	240		
BCLL	0.0 *	Rep Stress Incr YES	WB	0.16	Horz(CT)	0.04	6	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014	Matrix	k-S	Wind(LL)	0.07	7-8	>999	240	Weight: 61 lb	FT = 10%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

2-9,5-6: 2x8 SP DSS

REACTIONS. (size) 9=0-3-8, 6=Mechanical

Max Horz 9=29(LC 10) Max Uplift 9=-16(LC 4)

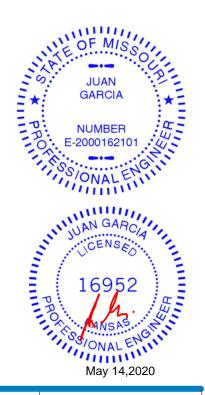
Max Grav 9=958(LC 1), 6=870(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. 2-3=-1368/21, 3-4=-1147/35, 4-5=-1351/18, 2-9=-869/62, 5-6=-759/47 8-9=0/1156, 7-8=0/1153, 6-7=0/1149 TOP CHORD

BOT CHORD

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); 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 9.
- 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.



Structural wood sheathing directly applied, except end verticals, and

2-0-0 oc purlins (4-10-9 max.): 3-4.

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



MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.



Job Truss Truss Type Qty Lot 15 HT 141303196 400302 НЗ Hip Job Reference (optional)
8.240 s Mar 9 2020 MiTek Industries, Inc. Wed May 13 16:45:11 2020 Page 1 Wheeler Lumber, Waverly, KS 66871 ID:bWuMDBN0tjF5cDvSpwhpH1zCzbQ-Xg0UYMfZVoRkFV65?BpCRNDdqzhNlhSNcixTBvzGs6M 10-6-12 16-4-14 20-0-0

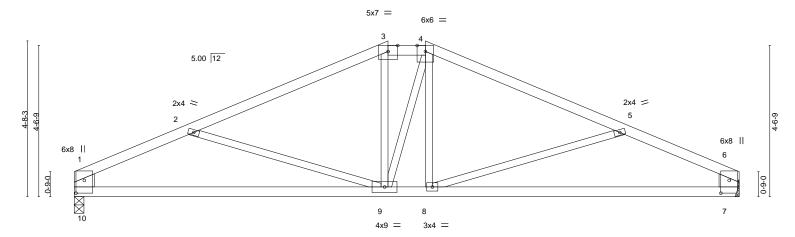
1-1-8

5-10-2

5-10-2

Scale = 1:34.7

3-7-2



	9-5-4				1-1-8	1-1-8						
Plate Offsets	s (X,Y)	[1:0-4-10,0-3-0], [6:0-4-10									•	
LOADING ((psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 2	25.Ó	Plate Grip DOL	1.15	TC	0.98	Vert(LL)	-0.17	`8-9	>999	360	MT20	197/144
TCDL 1	10.0	Lumber DOL	1.15	BC	0.68	Vert(CT)	-0.34	7-8	>680	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.24	Horz(CT)	0.04	7	n/a	n/a		
BCDL 1	10.0	Code IRC2018/TF	PI2014	Matri	x-S	Wind(LL)	0.08	9	>999	240	Weight: 70 lb	FT = 10%

TOP CHORD

BOT CHORD

10-6-12

LUMBER-**BRACING-**

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

WEBS 2x3 SPF No.2 *Except* 1-10,6-7: 2x8 SP DSS

(size) 10=0-3-8, 7=Mechanical

Max Horz 10=26(LC 10)

Max Uplift 10=-10(LC 8), 7=-10(LC 9) Max Grav 10=873(LC 1), 7=873(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 1-2=-1414/77, 2-3=-1161/4, 3-4=-1021/26, 4-5=-1160/4, 5-6=-1414/77, 1-10=-763/57,

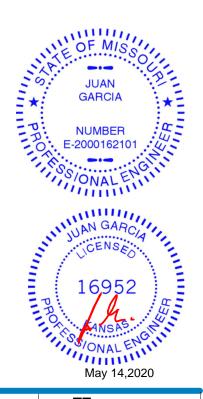
6-7=-762/57

BOT CHORD 9-10=-75/1214, 8-9=0/1020, 7-8=-49/1214 2-9=-258/133, 3-9=-25/269, 5-8=-259/133 WEBS

NOTES-

REACTIONS.

- 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); 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 10, 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



Structural wood sheathing directly applied, except end verticals, and

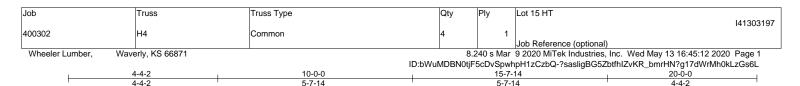
2-0-0 oc purlins (5-4-1 max.): 3-4.

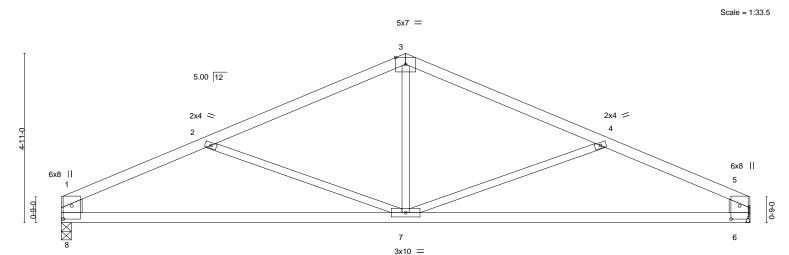
Rigid ceiling directly applied or 10-0-0 oc bracing.



MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.







			10-0-0									
Plate Off	sets (X,Y)	[1:0-4-10,0-3-0], [5:0-4-1	0,0-3-0]									
LOADING	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.81	Vert(LL)	-0.19	7	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.74	Vert(CT)	-0.37	6-7	>628	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.31	Horz(CT)	0.04	6	n/a	n/a		
BCDL	10.0	Code IRC2018/TF	PI2014	Matri	x-S	Wind(LL)	0.08	7	>999	240	Weight: 64 lb	FT = 10%

LUMBER-

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

WEBS 2x3 SPF No.2 *Except* 1-8,5-6: 2x8 SP DSS

BRACING-

TOP CHORD Structural wood sheathing directly applied or 3-3-5 oc purlins,

20-0-0

except end verticals.

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

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

Max Horz 8=29(LC 10)

Max Uplift 8=-12(LC 8), 6=-12(LC 9) Max Grav 8=873(LC 1), 6=873(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

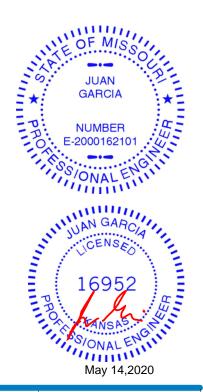
1-2=-1414/76, 2-3=-1103/14, 3-4=-1103/14, 4-5=-1414/77, 1-8=-758/60, 5-6=-758/60 TOP CHORD

10-0-0

7-8=-72/1216, 6-7=-43/1216 BOT CHORD

WEBS 3-7=0/434, 4-7=-331/139, 2-7=-331/139

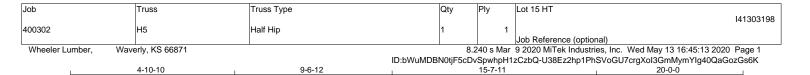
- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 8, 6.
- 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.





M WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.





6-0-15

4-8-2

Scale = 1:34.3

4-4-5

20-0-0

Structural wood sheathing directly applied or 4-0-12 oc purlins,

except end verticals, and 2-0-0 oc purlins (5-8-9 max.): 1-3.

2-9

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

1 Row at midpt

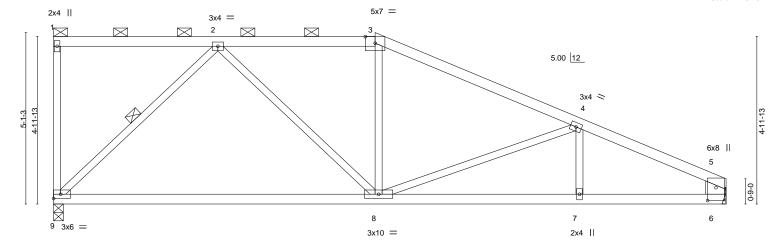


Plate Offsets (X,Y)	[3:0-3-8,0-2-5], [5:0-4-10,0-3-0]			0-0-15		4-4-5	
LOADING (psf) TCLL 25.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2018/TPI2014	CSI. TC 0.60 BC 0.67 WB 0.41 Matrix-S	DEFL. in Vert(LL) -0.20 Vert(CT) -0.41 Horz(CT) 0.02 Wind(LL) 0.06	8-9 >999 8-9 >569 6 n/a	360 240 n/a	PLATES MT20 Weight: 72 lb	GRIP 197/144 FT = 10%

BRACING-

TOP CHORD

BOT CHORD

WEBS

LUMBER-

REACTIONS.

TOP CHORD 2x4 SPF No.2 2x4 SPF 2100F 1.8E **BOT CHORD WEBS** 2x3 SPF No.2 *Except*

5-6: 2x8 SP DSS

(size) 9=0-3-8, 6=Mechanical

4-10-10

Max Horz 9=-155(LC 6) Max Uplift 9=-43(LC 4), 6=-12(LC 9) Max Grav 9=882(LC 1), 6=882(LC 1)

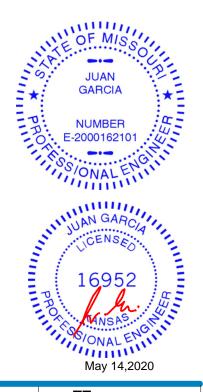
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

2-3=-979/34, 3-4=-1135/23, 4-5=-1406/40, 5-6=-704/33 TOP CHORD

BOT CHORD 8-9=-2/687, 7-8=-13/1230, 6-7=-13/1230 **WEBS** 2-9=-944/90, 2-8=0/406, 4-8=-270/104

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); 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 9, 6.
- 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.





MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.



Job Truss Truss Type Qty Lot 15 HT 141303199 400302 Н6 Half Hip Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inc. Wed May 13 16:45:14 2020 Page 1 Wheeler Lumber, Waverly, KS 66871 ID:bWuMDBN0tjF5cDvSpwhpH1zCzbQ-yFicAOiSojpl6yrghJNv30r9NAeWVvBpJgA7oEzGs6J 7-6-12 7-6-12 13-3-0 5-8-3 6-9-0 Scale = 1:36.5 6x8 = 3x4 || \boxtimes 5.00 12 > 3x4 6x8 II 4 0-6-0 9 6 8 3x6 = 3x4 = 2x4 || 20-0-0 7-6-12 Plate Offsets (X,Y)--[2:0-4-2,Edge], [4:0-4-10,0-3-0] SPACING-DEFL. **PLATES** GRIP LOADING (psf) CSI. (loc) I/defI L/d **TCLL** 25.0 Plate Grip DOL 1.15 TC 0.90 Vert(LL) -0.15 6-7 >999 360 MT20 197/144 **TCDL** 10.0 Lumber DOL 1.15 ВС 0.91 Vert(CT) -0.26 7-8 >888 240 **BCLL** 0.0 Rep Stress Incr YES WB 0.82 Horz(CT) 0.03 5 n/a n/a Code IRC2018/TPI2014 Wind(LL) FT = 10% BCDL 10.0 Matrix-S 6-7 >999 240 Weight: 72 lb 0.06 LUMBER-**BRACING-**TOP CHORD 2x4 SPF No.2 TOP CHORD Structural wood sheathing directly applied or 3-11-0 oc purlins, **BOT CHORD** 2x4 SPF No.2 except end verticals, and 2-0-0 oc purlins (3-9-12 max.): 1-2. **WEBS BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc bracing.

WEBS

1 Row at midpt

2-8

REACTIONS.

2x3 SPF No.2 *Except*

4-5: 2x8 SP DSS

(size) 8=0-3-8, 5=Mechanical Max Horz 8=-182(LC 4)

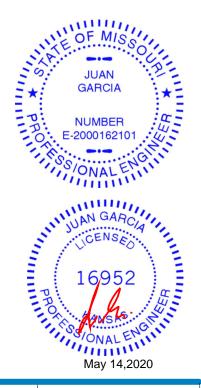
Max Uplift 8=-42(LC 4), 5=-18(LC 9) Max Grav 8=930(LC 2), 5=918(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

1-8=-251/62, 2-3=-973/40, 3-4=-1431/45, 4-5=-759/57 TOP CHORD

7-8=0/843, 6-7=0/1240, 5-6=0/1240 BOT CHORD **WEBS** 2-8=-1020/36, 2-7=0/552, 3-7=-460/93

- 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); 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 6) Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 8, 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) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.





MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.



Job Truss Truss Type Qty Lot 15 HT 141303200 400302 J1 Diagonal Hip Girder Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inc. Wed May 13 16:45:15 2020 Page 1 Wheeler Lumber, Waverly, KS 66871 ID:bWuMDBN0tjF5cDvSpwhpH1zCzbQ-QRG_Ojj4Z0x9k6QsE1u8cDORra8YEYFyXKvgKgzGs6l 2-9-3 2-9-3 1-2-14 1-11-10 Scale = 1:13.5 3.54 12 1-1-12 2 0-6-0 ⁶ 2x4 || 3x6 || 4-8-13 Plate Offsets (X,Y)--[3:0-3-8,0-1-6] SPACING-(loc) **PLATES** GRIP LOADING (psf) 2-0-0 CSI. DEFL. in I/defl L/d Plate Grip DOL **TCLL** 25.0 1.15 TC 0.40 Vert(LL) -0.04 6 >999 360 MT20 197/144 TCDL 10.0 Lumber DOL 1.15 ВС 0.28 Vert(CT) -0.09 6 >604 240 **BCLL** 0.0 Rep Stress Incr NO WB 0.00 Horz(CT) 0.04 5 n/a n/a Code IRC2018/TPI2014 Wind(LL) FT = 10% **BCDL** 10.0 Matrix-R >999 240 Weight: 14 lb 0.05 6 LUMBER-**BRACING-**TOP CHORD 2x4 SPF No.2 TOP CHORD Structural wood sheathing directly applied or 4-8-13 oc purlins, **BOT CHORD** 2x4 SPF No.2 *Except* except end verticals

BOT CHORD

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

3-6: 2x3 SPF No.2

WEBS 2x4 SPF No.2

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

Max Horz 7=68(LC 4)

Max Uplift 7=-85(LC 4), 4=-45(LC 8)

Max Grav 7=322(LC 1), 4=123(LC 1), 5=85(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 2-7=-308/105

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) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate
- 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 7, 4.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 66 lb down and 20 lb up at 1-11-15, and 66 lb down and 20 lb up at 1-11-15 on top chord, and 3 lb down and 2 lb up at 1-10-5, and 3 lb down and 2 lb up at 1-10-5 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

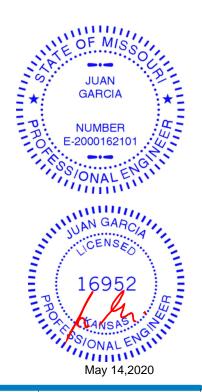
LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.15. Plate Increase=1.15 Uniform Loads (plf)

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

Concentrated Loads (lb)

Vert: 8=4(F=2, B=2)





MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.



Job Truss Truss Type Qty Lot 15 HT 141303201 400302 J2 Jack-Open Job Reference (optional)
8.240 s Mar 9 2020 MiTek Industries, Inc. Wed May 13 16:45:26 2020 Page 1 Wheeler Lumber, Waverly, KS 66871 ID:bWuMDBN0tjF5cDvSpwhpH1zCzbQ-bZQ8iUrzzPKbYom_OrajYYLOn0xYJXza3X4mDXzGs67 -0-10-8 2-0-0 0-10-8 2-0-0 1-5-4 Scale = 1:13.8 5.00 12 1-2-3 2 5 1-0-0 0-6-0 ⁶ 2x4 || 5x7 || 2-0-0 [2:0-0-12,0-1-12], [3:0-3-8,0-1-5], [7:0-0-0,0-1-12] Plate Offsets (X,Y)--SPACING-**PLATES** GRIP LOADING (psf) DEFL. in (loc) I/defI L/d Plate Grip DOL **TCLL** 25.0 1.15 TC 0.17 Vert(LL) -0.01 6 >999 360 MT20 197/144 **TCDL** 10.0 Lumber DOL 1.15 BC 0.13 Vert(CT) -0.02 6 >999 240 **BCLL** 0.0 Rep Stress Incr YES WB 0.00 Horz(CT) 0.01 5 n/a n/a Code IRC2018/TPI2014 Wind(LL) FT = 10% BCDL 10.0 Matrix-R 0.02 >999 240 Weight: 11 lb 6 LUMBER-**BRACING-**TOP CHORD Structural wood sheathing directly applied or 3-5-4 oc purlins,

BOT CHORD

except end verticals.

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

TOP CHORD 2x4 SPF No.2

BOT CHORD 2x4 SPF No.2 *Except*

3-6: 2x3 SPF No.2

WEBS 2x4 SPF No.2

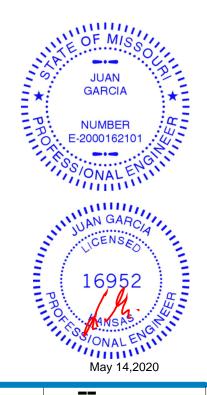
REACTIONS. (size) 7=0-3-8, 4=Mechanical, 5=Mechanical

Max Horz 7=63(LC 8)

Max Uplift 7=-30(LC 8), 4=-38(LC 8), 5=-3(LC 8) Max Grav 7=234(LC 1), 4=87(LC 1), 5=61(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

- 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) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate
- 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 7, 4, 5.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.





Job Truss Truss Type Qty Lot 15 HT 141303202 400302 J3 Jack-Open 12

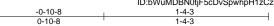
Wheeler Lumber, Waverly, KS 66871

Job Reference (optional)
8.240 s Mar 9 2020 MiTek Industries, Inc. Wed May 13 16:45:37 2020 Page 1 ID:bWuMDBN0tjF5cDvSpwhpH1zCzbQ-ngbJ?F_tNni2NV55XfHJVsIHcSjwNVhCblEr5PzGs5y

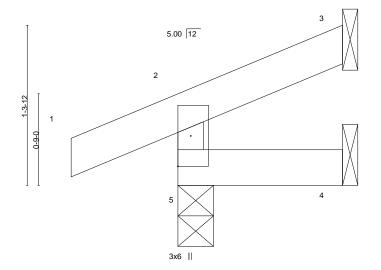
Structural wood sheathing directly applied or 1-4-3 oc purlins,

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

except end verticals.



Scale = 1:9.4



1-4-3

Plate Offsets (X,Y)	[2:0-0-8,0-1-4], [5:0-0-0,0-1-4]				
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl	L/d	PLATES GRIP
TCLL 25.0	Plate Grip DOL 1.15	TC 0.06	Vert(LL) -0.00 5 >999	360	MT20 197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.01	Vert(CT) -0.00 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 5 >999	240	Weight: 5 lb FT = 10%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

WEBS 2x3 SPF No.2

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

Max Horz 5=33(LC 5)

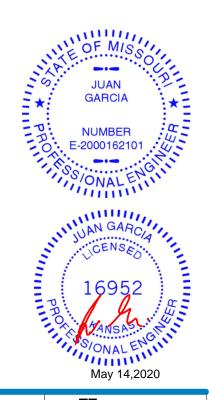
Max Uplift 5=-34(LC 4), 3=-18(LC 8)

Max Grav 5=151(LC 1), 3=20(LC 1), 4=22(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-

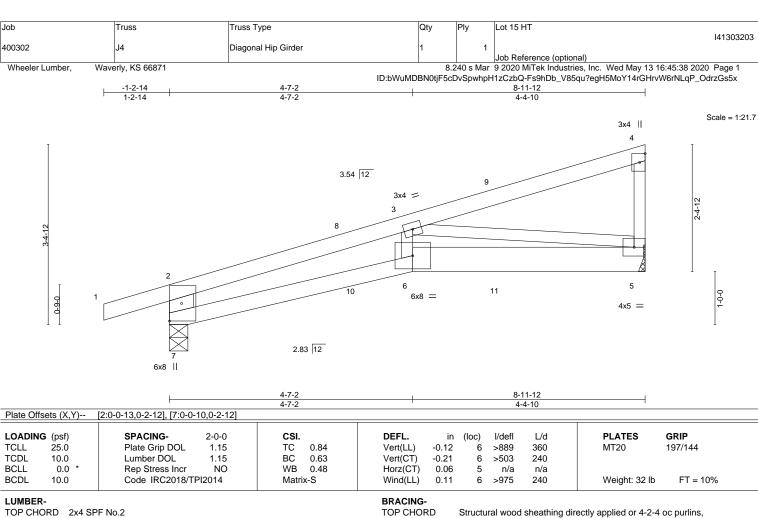
- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate
- 2) This truss has been designed for a 10.0 psf bottom 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 3.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.





MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.





BOT CHORD

except end verticals.

Rigid ceiling directly applied or 10-0-0 oc bracing

BOT CHORD 2x4 SPF No.2 *Except*

5-6: 2x6 SPF No.2 2x3 SPF No.2 *Except* **WEBS** 2-7: 2x6 SP DSS

REACTIONS. (size) 7=0-4-3, 5=Mechanical

Max Horz 7=123(LC 5)

Max Uplift 7=-141(LC 4), 5=-112(LC 8) Max Grav 7=533(LC 1), 5=454(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 2-7=-650/210, 2-3=-1088/263 **BOT CHORD** 6-7=-295/994, 5-6=-282/1005 3-6=0/289, 3-5=-959/280 WEBS

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate
- 2) 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Bearing at joint(s) 7 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 7=141, 5=112,
- 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) 72 lb down and 44 lb up at 3-4-15, 72 lb down and 44 lb up at 3-4-15, and 103 lb down and 78 lb up at 6-2-14, and 103 lb down and 78 lb up at 6-2-14 on top chord, and 6 lb down at 3-4-15, 6 lb down at 3-4-15, and 28 lb down at 6-2-14, and 28 lb down at 6-2-14 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



Continued on page 2

M WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 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 Design Valid for use only with release controlled in the controlle



Job	Truss	Truss Type	Qty	Ply	Lot 15 HT	٦
40000		D: 111: 0: 1			I41303203	
400302	J4	Diagonal Hip Girder	1	1		
					Job Reference (optional)	

Wheeler Lumber,

Waverly, KS 66871

8.240 s Mar 9 2020 MiTek Industries, Inc. Wed May 13 16:45:38 2020 Page 2 ID:bWuMDBN0tjF5cDvSpwhpH1zCzbQ-Fs9hDb_V85qu?egH5MoY14rGHrvW6rNLqP_OdrzGs5x

LOAD CASE(S) Standard

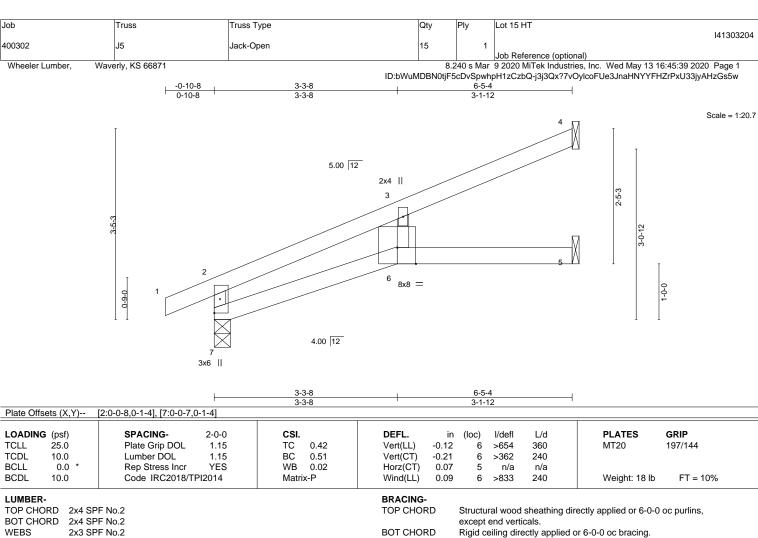
Uniform Loads (plf)

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

Concentrated Loads (lb)

Vert: 9=-66(F=-33, B=-33) 10=-1(F=-1, B=-1) 11=-40(F=-20, B=-20)





WEBS 2x3 SPF No.2

REACTIONS. (size) 7=0-3-8, 4=Mechanical, 5=Mechanical

Max Horz 7=79(LC 8)

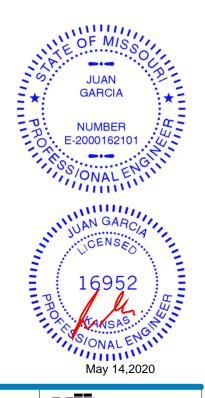
Max Uplift 7=-3(LC 8), 4=-37(LC 8)

Max Grav 7=356(LC 1), 4=168(LC 1), 5=109(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Bearing at joint(s) 7 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 7, 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.

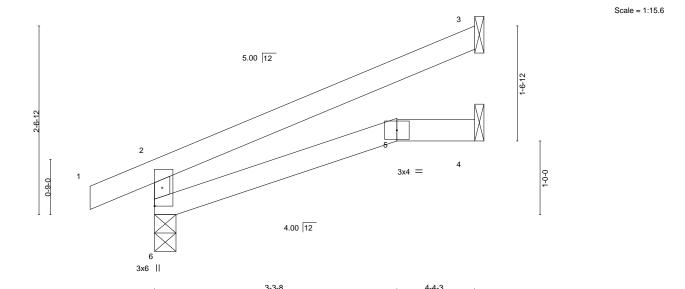




MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.



Job Truss Truss Type Qty Ply Lot 15 HT 141303205 400302 J6 Jack-Open Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inc. Wed May 13 16:45:40 2020 Page 1 Wheeler Lumber, Waverly, KS 66871 ID:bWuMDBN0tjF5cDvSpwhpH1zCzbQ-BFHReH0lgi4cEyggCng07VwlifiNasReHjTVijzGs5v 4-4-3 -0-10-8 3-3-8 3-3-8 0-10-8 1-0-11



1-0-11

except end verticals.

Structural wood sheathing directly applied or 4-4-3 oc purlins,

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

Plate Off	sets (X,Y) [[2:0-0-8,0-1-4], [6:0-0-7,0	0-1-4]								_	
LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.27	Vert(LL)	-0.02	5-6	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.15	Vert(CT)	-0.03	5-6	>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/TI	PI2014	Matri	x-R	Wind(LL)	0.01	5-6	>999	240	Weight: 12 lb	FT = 10%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

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

WEBS 2x3 SPF No.2

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

Max Horz 6=78(LC 8)

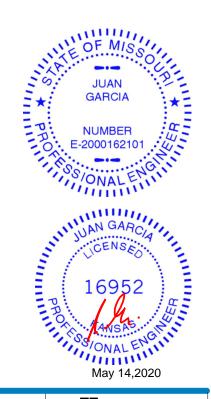
Max Uplift 6=-35(LC 8), 3=-70(LC 8)

Max Grav 6=265(LC 1), 3=132(LC 1), 4=80(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

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) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate
- 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Bearing at joint(s) 6 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6, 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.





MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.



Job Truss Truss Type Qty Lot 15 HT 141303206 J7 400302 Jack-Open Job Reference (optional)
8.240 s Mar 9 2020 MiTek Industries, Inc. Wed May 13 16:45:41 2020 Page 1

Wheeler Lumber, Waverly, KS 66871 ID:bWuMDBN0tjF5cDvSpwhpH1zCzbQ-fRqprc1NR0CTs6PsmUMFfiSzb34QJJgnWNC2EAzGs5u

Structural wood sheathing directly applied or 2-4-3 oc purlins,

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

except end verticals.

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

Scale = 1:11.5

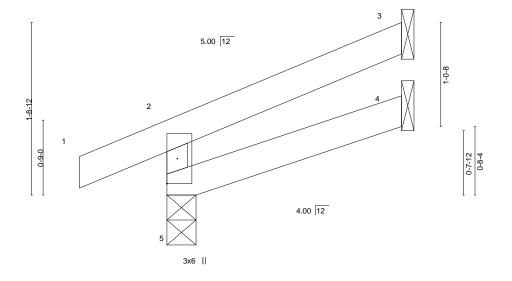


Plate Offsets (X,Y)	[2:0-0-8,0-1-4], [5:0-0-7,0-1-4]							
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL.	in (lo	c) I/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL 1.15	TC 0.06	Vert(LL)	-0.00 4	-5 >999	360	MT20	197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.04	Vert(CT)	-0.00 4	-5 >999	240		
BCLL 0.0 *	Rep Stress Incr 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%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

WEBS 2x3 SPF No.2

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

Max Horz 5=45(LC 5)

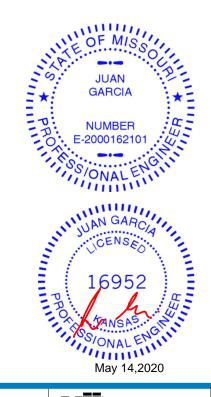
Max Uplift 5=-29(LC 4), 3=-37(LC 8)

Max Grav 5=182(LC 1), 3=61(LC 1), 4=41(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

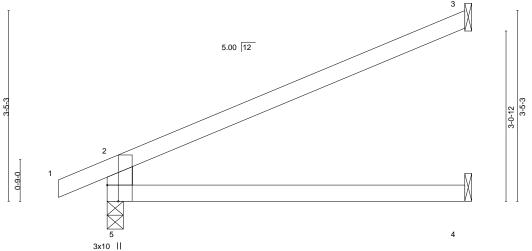
NOTES-

- 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) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate
- 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Bearing at joint(s) 5 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 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.





Job Truss Truss Type Qty Lot 15 HT 141303207 400302 J8 Jack-Open Job Reference (optional)
8.240 s Mar 9 2020 MiTek Industries, Inc. Wed May 13 16:45:42 2020 Page 1 Wheeler Lumber, Waverly, KS 66871 ID:bWuMDBN0tjF5cDvSpwhpH1zCzbQ-7eOC2y20CJLKTG_3KCtUCw?0?TLe2mwxl1ycnczGs5t 6-5-4 6-5-4 0-10-8 Scale = 1:20.7



BRACING-

TOP CHORD

BOT CHORD

Plate Offsets (2	X,Y)	[2:0-1-2,0-2-12], [5:0-3-8,	0-1-2,0-2-12], [5:0-3-8,Edge], [5:0-0-0,0-2-12]									
LOADING (ps	f)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.	0	Plate Grip DOL	1.15	TC	0.60	Vert(LL)	-0.06	4-5	>999	360	MT20	197/144
TCDL 10.	0	Lumber DOL	1.15	BC	0.36	Vert(CT)	-0.15	4-5	>505	240		
BCLL 0.	0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.05	3	n/a	n/a		
BCDL 10.	0	Code IRC2018/TF	PI2014	Matri	x-R	Wind(LL)	0.05	4-5	>999	240	Weight: 17 lb	FT = 10%

LUMBER-

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

WEBS 2x6 SPF No.2

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

Max Horz 5=79(LC 8)

Max Uplift 5=-4(LC 8), 3=-56(LC 8)

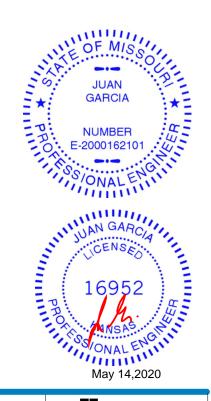
Max Grav 5=361(LC 1), 3=192(LC 1), 4=115(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 2-5=-316/57

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 3.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



Structural wood sheathing directly applied or 6-0-0 oc purlins,

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

except end verticals.



MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.



Job Truss Truss Type Qty Lot 15 HT 141303208 400302 J9 Jack-Closed Job Reference (optional)
8.240 s Mar 9 2020 MiTek Industries, Inc. Wed May 13 16:45:42 2020 Page 1 Wheeler Lumber, Waverly, KS 66871 ID:bWuMDBN0tjF5cDvSpwhpH1zCzbQ-7eOC2y20CJLKTG_3KCtUCw?5YTLU2mwxl1ycnczGs5t 5-6-0 0-10-8 5-6-0 Scale = 1:21.8 2x4 || 3x4 || 5.00 12 4x5 = 51-0-0 0-6-0 2x4 || 2x4 || 3x6 II 5-6-0 Plate Offsets (X,Y)--[2:0-0-8,0-1-4], [8:0-0-0,0-1-4] SPACING-DEFL. **PLATES** GRIP LOADING (psf) CSI. (loc) I/defI L/d **TCLL** 25.0 Plate Grip DOL 1.15 TC 0.31 Vert(LL) -0.03 7-8 >999 360 MT20 197/144 **TCDL** 10.0 Lumber DOL 1.15 ВС 0.37 Vert(CT) -0.07 7-8 >999 240 **BCLL** 0.0 Rep Stress Incr YES WB 0.00 Horz(CT) 0.01 5 n/a n/a Code IRC2018/TPI2014 Wind(LL) FT = 10% BCDL 10.0 Matrix-R >999 240 Weight: 20 lb 0.01 6

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

3-7: 2x3 SPF No.2

WEBS 2x3 SPF No.2

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

Max Horz 8=96(LC 5)

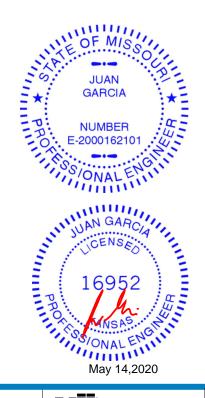
Max Uplift 8=-14(LC 8), 5=-24(LC 8) Max Grav 8=354(LC 1), 5=275(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 2-8=-309/50

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 8, 5.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



Structural wood sheathing directly applied or 6-0-0 oc purlins,

Rigid ceiling directly applied or 10-0-0 oc bracing

except end verticals.



MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.



Job Truss Truss Type Qty Lot 15 HT 141303209 400302 J10 Diagonal Hip Girder Job Reference (optional)
8.240 s Mar 9 2020 MiTek Industries, Inc. Wed May 13 16:45:17 2020 Page 1 Wheeler Lumber, Waverly, KS 66871 ID:bWuMDBN0tjF5cDvSpwhpH1zCzbQ-MqOlpPkK4eBtzQaFMSwcheTfgOlwiPQF?eOnPZzGs6G 6-0-10 8-11-12 3-2-2 3-2-2 1-2-14 2-10-8 2-11-2 Scale = 1:20.7 2x4 || 5 2x4 = 3.54 12 9 6 10 11 0-6-0 4x5 =7 2x4 II 3x10 || 5-9-10 Plate Offsets (X,Y)--[2:0-0-1,0-0-4], [2:0-0-2,0-6-3], [2:0-5-8,Edge], [3:0-4-0,0-2-12] SPACING-GRIP LOADING (psf) 2-0-0 CSI. DEFL. (loc) I/defI L/d **PLATES TCLL** 25.0 Plate Grip DOL 1.15 TC 0.96 Vert(LL) -0.21 >505 360 MT20 197/144 TCDL 10.0 Lumber DOL 1.15 ВС 0.61 Vert(CT) -0.41>257 240 **BCLL** 0.0 Rep Stress Incr NO WB 0.21 Horz(CT) 0.15 6 n/a n/a Code IRC2018/TPI2014 FT = 10% **BCDL** 10.0 Matrix-S Wind(LL) >447 240 Weight: 36 lb 0.23 **BRACING-**

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x4 SPF 2100F 1.8E **BOT CHORD** 2x6 SPF No.2 *Except*

3-7: 2x4 SPF 2100F 1.8E

2x3 SPF No.2 **WEBS**

WEDGE

Left: 2x3 SPF No.2

REACTIONS. (size) 6=Mechanical, 2=0-4-9

Max Horz 2=114(LC 22)

Max Uplift 6=-136(LC 8), 2=-166(LC 4) Max Grav 6=490(LC 1), 2=582(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 3-4=-786/255 **BOT CHORD** 3-6=-269/762 4-6=-771/299 **WEBS**

- 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) gable end 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 6=136, 2=166.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 63 lb down and 25 lb up at 3-4-15, 63 lb down and 25 lb up at 3-4-15, and 97 lb down and 59 lb up at 6-2-14, and 97 lb down and 59 lb up at 6-2-14 on top chord, and 31 lb down and 29 lb up at 3-4-15, 31 lb down and 29 lb up at 3-4-15, and 45 lb down and 31 lb up at 6-2-14, and 45 lb down and 31 lb up at 6-2-14 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

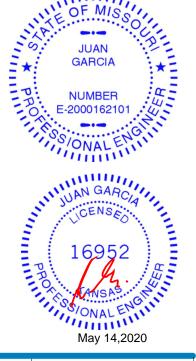
1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

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

Continued on page 2

MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 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 Design Valid for use only with release controlled in the controlle



Structural wood sheathing directly applied or 6-0-0 oc purlins,

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

except end verticals



Job	Truss	Truss Type	Qty	Ply	Lot 15 HT	٦
40000	140	D: 111: 0: 1			I41303209	
400302	J10	Diagonal Hip Girder	1	1		
					Job Reference (optional)	1

Wheeler Lumber,

Waverly, KS 66871

8.240 s Mar 9 2020 MiTek Industries, Inc. Wed May 13 16:45:17 2020 Page 2 ID:bWuMDBN0tjF5cDvSpwhpH1zCzbQ-MqOlpPkK4eBtzQaFMSwcheTfgOlwiPQF?eOnPZzGs6G

LOAD CASE(S) Standard

Concentrated Loads (lb)

Vert: 9=-29(F=-14, B=-14) 10=-53(F=-27, B=-27) 11=-90(F=-45, B=-45)



Job Truss Truss Type Qty Lot 15 HT 141303210 400302 J11 Jack-Open Job Reference (optional)
8.240 s Mar 9 2020 MiTek Industries, Inc. Wed May 13 16:45:18 2020 Page 1 Wheeler Lumber, Waverly, KS 66871 ID:bWuMDBN0tjF5cDvSpwhpH1zCzbQ-q0y70llyrxJkba8Rw9RrEs0wqn75RvkPDl8Kx?zGs6F 2-3-8 2-3-8 0-10-8 4-1-12 Scale = 1:20.7 5.00 12 2-5-3 3-0-12 6 2 1-0-0 0-6-0 Ľ 2x4 | 3x6 4-1-12 Plate Offsets (X,Y)--[2:0-0-8,0-1-4], [8:0-0-0,0-1-4] SPACING-DEFL. **PLATES** GRIP LOADING (psf) CSI. in (loc) I/defI L/d -0.10 **TCLL** 25.0 Plate Grip DOL 1.15 TC 0.55 Vert(LL) 5-6 >732 360 MT20 197/144 **TCDL** 10.0 Lumber DOL 1.15 BC 0.48 Vert(CT) -0.21 5-6 >367 240 **BCLL** 0.0 Rep Stress Incr YES WB 0.02 Horz(CT) 0.11 5 n/a n/a Code IRC2018/TPI2014 Wind(LL) FT = 10% BCDL 10.0 Matrix-S >918 240 Weight: 18 lb 0.08 5-6 LUMBER-**BRACING-**TOP CHORD 2x4 SPF No.2 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, **BOT CHORD** 2x4 SPF No.2 except end verticals. **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc bracing

WEBS 2x3 SPF No.2

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

Max Horz 8=80(LC 8) Max Uplift 4=-48(LC 8)

Max Grav 8=368(LC 1), 4=187(LC 1), 5=119(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 2-8=-364/21

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); 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.





MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.



Job Truss Truss Type Qty Lot 15 HT 141303211 400302 J12 Jack-Open Job Reference (optional)
8.240 s Mar 9 2020 MiTek Industries, Inc. Wed May 13 16:45:19 2020 Page 1 Wheeler Lumber, Waverly, KS 66871 ID:bWuMDBN0tjF5cDvSpwhpH1zCzbQ-ICVVD5macFRbDkjeTty4m3YBHBWVAMEYSytuURzGs6E -0-10-8 2-3-8 0-10-8 2-0-11 Scale = 1:15.6 5.00 12 1-6-12 3x4 = 2x4 || 9 7_{2x4} ||

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

LOADIN	G (psf)	SPACING- 2-0-0	CSI.	DEFL.	in ((loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL 1.15	TC 0.18	Vert(LL) -	-0.02	7	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL 1.15	BC 0.22	Vert(CT) -	-0.04	6	>999	240		
BCLL	0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT)	0.02	5	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014	Matrix-R	Wind(LL)	0.02	7	>999	240	Weight: 13 lb	FT = 10%

BRACING-

TOP CHORD

BOT CHORD

2-0-11

except end verticals.

Structural wood sheathing directly applied or 4-4-3 oc purlins,

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

LUMBER-

TOP CHORD 2x4 SPF No.2 BOT CHORD

2x4 SPF No.2 *Except*

6-7: 2x3 SPF No.2

WEBS 2x3 SPF No.2

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

Max Horz 8=78(LC 8)

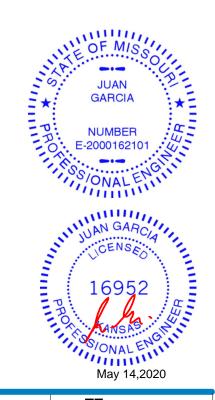
Max Uplift 8=-31(LC 8), 4=-50(LC 8), 5=-2(LC 8) Max Grav 8=275(LC 1), 4=113(LC 1), 5=87(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 2-8=-259/55

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) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate
- 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 8, 4, 5.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.





Job Truss Truss Type Qty Lot 15 HT I41303212 400302 J13 Jack-Open Job Reference (optional)
8.240 s Mar 9 2020 MiTek Industries, Inc. Wed May 13 16:45:20 2020 Page 1 Wheeler Lumber, Waverly, KS 66871 ID:bWuMDBN0tjF5cDvSpwhpH1zCzbQ-mP3tRRmCNZZSqtlq1aTJJH5NvbvcvpUhhcdR0uzGs6D 2-4-3 2-4-3 0-10-8 Scale = 1:11.5

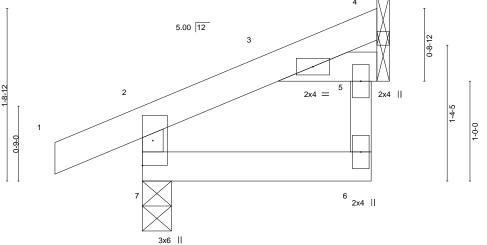


Plate Offsets (X,Y)-- [2:0-0-8,0-1-4], [7:0-0-0,0-1-4]

LOADING (psf) TCLL 25.0	SPACING- 2-0-0 Plate Grip DOL 1.15	CSI. TC 0.06	DEFL. in (loc) I/defl L/d Vert(LL) -0.00 3 >999 360	PLATES GRIP MT20 197/144
TCDL 10.0 BCLL 0.0 *	Lumber DOL 1.15 Rep Stress Incr YES	BC 0.03 WB 0.00	Vert(CT) -0.00 3 >999 240 Horz(CT) -0.00 5 n/a n/a	137/144
BCDL 10.0	Code IRC2018/TPI2014	Matrix-R	Wind(LL) 0.00 3 >999 240	Weight: 9 lb FT = 10%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

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

5-6: 2x3 SPF No.2

WEBS 2x3 SPF No.2

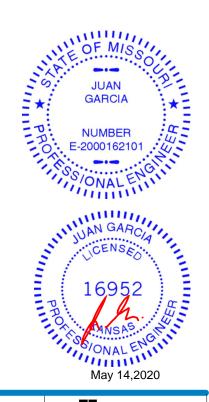
(size) 7=0-3-8, 4=Mechanical, 5=Mechanical

Max Horz 7=44(LC 8)

Max Uplift 7=-28(LC 4), 4=-18(LC 8), 5=-6(LC 8) Max Grav 7=183(LC 1), 4=41(LC 1), 5=71(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

- 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) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate
- 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 7, 4, 5.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



Structural wood sheathing directly applied or 2-4-3 oc purlins,

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

except end verticals.



MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.



Job Truss Truss Type Qty Lot 15 HT 141303213 400302 J15 Diagonal Hip Girder Job Reference (optional)
8.240 s Mar 9 2020 MiTek Industries, Inc. Wed May 13 16:45:21 2020 Page 1 Wheeler Lumber, Waverly, KS 66871 ID:bWuMDBN0tjF5cDvSpwhpH1zCzbQ-FbdGennr8shJS1t0bH?YrUdVo?DPeGkrwGM?YKzGs6C 1-2-14 4-8-13 Scale = 1:13.5 3.54 12 6 2-1-12 1-9-10 2 0-6-0 4x9 || ⁵ 4-8-13 Plate Offsets (X,Y)--[5:0-5-0,0-2-0] SPACING-DEFL. LOADING (psf) 2-0-0 CSI. (loc) I/defl L/d **PLATES** GRIP **TCLL** 25.0 Plate Grip DOL 1.15 TC 0.31 Vert(LL) -0.02 4-5 >999 360 MT20 197/144 TCDL 10.0 Lumber DOL 1.15 ВС 0.19 Vert(CT) -0.04 4-5 >999 240 **BCLL** 0.0 Rep Stress Incr NO WB 0.00 Horz(CT) 0.01 3 n/a n/a Code IRC2018/TPI2014 **BCDL** 10.0 Matrix-R Wind(LL) >999 240 Weight: 13 lb FT = 10% 0.01 4-5 LUMBER-**BRACING-**TOP CHORD 2x4 SPF No.2 TOP CHORD Structural wood sheathing directly applied or 4-8-13 oc purlins, **BOT CHORD** 2x4 SPF No.2 except end verticals. **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc bracing

WEBS 2x6 SPF No.2

REACTIONS. (size) 5=0-4-9, 3=Mechanical, 4=Mechanical

Max Horz 5=68(LC 4)

Max Uplift 5=-94(LC 4), 3=-60(LC 8)

Max Grav 5=317(LC 1), 3=133(LC 1), 4=82(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 2-5=-281/132

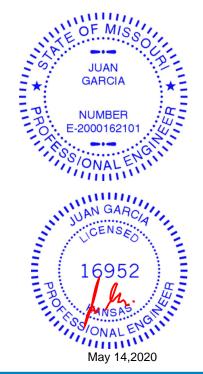
NOTES-

- 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) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate
- 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 3.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 66 lb down and 20 lb up at 1-11-15, and 66 lb down and 20 lb up at 1-11-15 on top chord, and 3 lb down and 2 lb up at 1-11-15, and 3 lb down and 2 lb up at 1-11-15 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

Vert: 1-2=-70, 2-3=-70, 4-5=-20 Concentrated Loads (lb) Vert: 7=4(F=2, B=2)





MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.



Job Truss Truss Type Qty Lot 15 HT 141303214 400302 J16 Jack-Open Job Reference (optional)
8.240 s Mar 9 2020 MiTek Industries, Inc. Wed May 13 16:45:21 2020 Page 1

Wheeler Lumber, Waverly, KS 66871 ID:bWuMDBN0tjF5cDvSpwhpH1zCzbQ-FbdGennr8shJS1t0bH?YrUdXK?EseGkrwGM?YKzGs6C

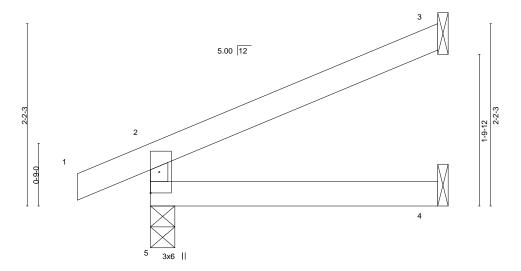
Structural wood sheathing directly applied or 3-5-4 oc purlins,

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

except end verticals.

3-5-4 3-5-4 -0-10-8 0-10-8

Scale = 1:13.8



BRACING-

TOP CHORD

BOT CHORD

Plate Off	Plate Offsets (X,Y) [2:0-0-8,0-1-4], [5:0-0-0,0-1-4]											
LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.15	Vert(LL)	-0.01	4-5	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.09	Vert(CT)	-0.01	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/TF	PI2014	Matri	x-R	Wind(LL)	0.00	4-5	>999	240	Weight: 10 lb	FT = 10%

LUMBER-

REACTIONS.

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

WEBS 2x3 SPF No.2

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

Max Horz 5=63(LC 8)

Max Uplift 5=-33(LC 8), 3=-54(LC 8)

Max Grav 5=226(LC 1), 3=101(LC 1), 4=62(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

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) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate
- 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 3.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.





MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.



Job Truss Truss Type Qty Lot 15 HT 141303215 400302 J17 Diagonal Hip Girder Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inc. Wed May 13 16:45:23 2020 Page 1 Wheeler Lumber, Waverly, KS 66871

ID:bWuMDBN0tjF5cDvSpwhpH1zCzbQ-B_I03Tp5gUx1hL1Pii10wvjidoph6AD8Nar5dDzGs6A

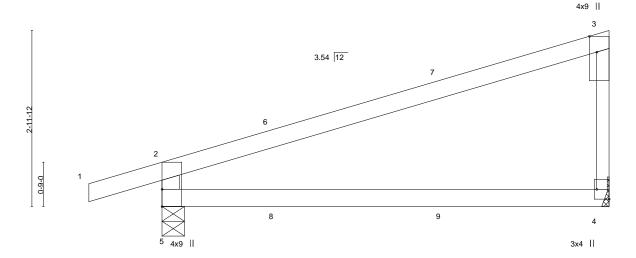
Structural wood sheathing directly applied or 6-0-0 oc purlins,

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

except end verticals.

7-6-12 7-6-12 1-2-14

Scale = 1:19.5



TOP CHORD

BOT CHORD

Plate Offsets (X,Y)	[2:0-0-8,0-1-12], [3:0-3-3,Eage], [4:Eage	e,0-2-8], [5:0-0-0,0-1-12]		
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d PLATES GRIP	
TCLL 25.0	Plate Grip DOL 1.15	TC 0.87	Vert(LL) -0.11 4-5 >765 360 MT20 197/144	
TCDL 10.0	Lumber DOL 1.15	BC 0.52	Vert(CT) -0.25 4-5 >355 240	
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) 0.05 4-5 >999 240 Weight: 21 lb FT = 10%	

LUMBER-**BRACING-**

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

3-4: 2x3 SPF No.2

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

Max Horz 5=122(LC 5) Max Uplift 5=-124(LC 4), 4=-82(LC 8)

Max Grav 5=438(LC 1), 4=329(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 2-5=-383/182

NOTES-

REACTIONS.

- 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) gable end 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4 except (jt=lb) 5=124
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 66 lb down and 20 lb up at 1-11-15, 66 lb down and 20 lb up at 1-11-15, and 87 lb down and 62 lb up at 4-9-14, and 87 lb down and 62 lb up at 4-9-14 on top chord, and 3 lb down and 2 lb up at 1-11-15, 3 lb down and 2 lb up at 1-11-15, and 17 lb down at 4-9-14, and 17 lb down at 4-9-14 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

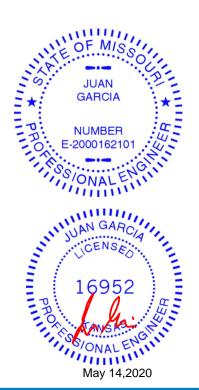
LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

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

Concentrated Loads (lb)

Vert: 7=-3(F=-1, B=-1) 8=4(F=2, B=2) 9=-13(F=-7, B=-7)





MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.



Job Truss Truss Type Qty Lot 15 HT 141303216 400302 J18 Jack-Open Job Reference (optional)
8.240 s Mar 9 2020 MiTek Industries, Inc. Wed May 13 16:45:24 2020 Page 1 Wheeler Lumber, Waverly, KS 66871 ID:bWuMDBN0tjF5cDvSpwhpH1zCzbQ-fAJOHoqjRn3uJVcbGQYFT7F_xCDurdTHcDbf9fzGs69 5-5-4 5-5-4 -0-10-8 0-10-8 Scale = 1:18.7 5.00 12 0-6-0 _P

Plate Offsets (X,Y)	[2:0-0-8,0-1-4], [5:0-0-0,	0-1-4]								
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	I/defl	L/d	PLATES	G
TOLL OF O	Dieta Cris DOI	4 4 5	TO 0.45	174/111	0.04	4 -	000	000	MATOO	4.0

LOADING	(psf)	SPACING- 2-	-0-0	CSI.		DEFL.	in	(loc)	I/defI	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL 1	1.15	TC	0.45	Vert(LL)	-0.04	4-5	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL 1	1.15	BC	0.27	Vert(CT)	-0.08	4-5	>769	240		
BCLL	0.0 *	Rep Stress Incr Y	/ES	WB	0.00	Horz(CT)	0.03	3	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI20	14	Matri	x-R	Wind(LL)	0.02	4-5	>999	240	Weight: 14 lb	FT = 10%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x4 SPF No.2

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

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

Max Horz 5=68(LC 8)

Max Uplift 5=-4(LC 8), 3=-50(LC 8)

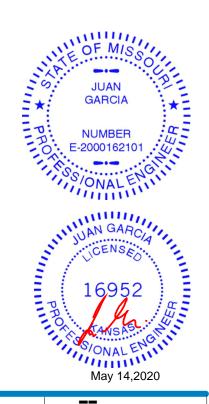
Max Grav 5=312(LC 1), 3=168(LC 1), 4=100(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 2-5=-270/46

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 3.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



Structural wood sheathing directly applied or 5-5-4 oc purlins,

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

except end verticals.



MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.



Job Truss Truss Type Qty Lot 15 HT 141303217 400302 J19 Jack-Open Job Reference (optional)
8.240 s Mar 9 2020 MiTek Industries, Inc. Wed May 13 16:45:25 2020 Page 1

Wheeler Lumber, Waverly, KS 66871 ID:bWuMDBN0tjF5cDvSpwhpH1zCzbQ-7MtmU8qLC5BlxfBnq73U0KoDTcbua4jRqtKCh5zGs68

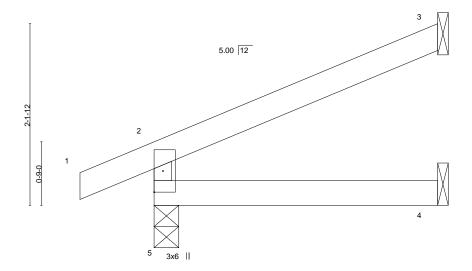
Structural wood sheathing directly applied or 3-4-3 oc purlins,

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

except end verticals.

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

Scale = 1:13.6



3-4-3

BRACING-

TOP CHORD

BOT CHORD

Plate Offsets (X,Y) [2:0-0-8,0-1-4], [5:0-0-0,0-1-4]								
LOADING (psf) TCLL 25.0	SPACING- 2-0-0 Plate Grip DOL 1.15	CSI. TC 0.14	(,	GRIP 197/144				
TCDL 10.0 BCLL 0.0 * BCDL 10.0	Lumber DOL 1.15 Rep Stress Incr YES Code IRC2018/TPI2014	BC 0.09 WB 0.00 Matrix-R	Vert(CT) -0.01 4-5 >999 240 Horz(CT) -0.01 3 n/a n/a 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 2x3 SPF No.2

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

Max Horz 5=61(LC 8)

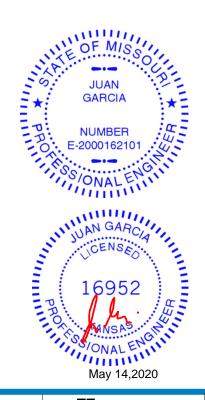
Max Uplift 5=-32(LC 8), 3=-53(LC 8)

Max Grav 5=222(LC 1), 3=98(LC 1), 4=60(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

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) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate
- 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 3.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.





MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.



Job Truss Truss Type Qty Lot 15 HT 141303218 400302 J20 Jack-Open

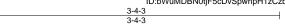
Wheeler Lumber, Waverly, KS 66871

Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inc. Wed May 13 16:45:27 2020 Page 1 ID:bWuMDBN0tjF5cDvSpwhpH1zCzbQ-3I_XvqsbkiSSAyLAxY5z5ltZeQHJ2zDjlBpJm_zGs66

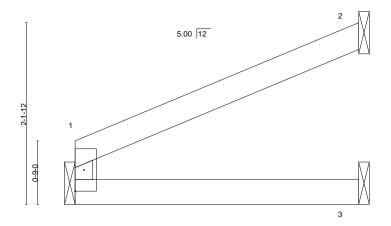
Structural wood sheathing directly applied or 3-4-3 oc purlins,

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

except end verticals.



Scale = 1:13.6



3x6

Plate Off	sets (X,Y)	[1:0-0-8,0-1-4], [4:0-0-0,0)-1-4]									
LOADIN	· · ·	SPACING-	2-0-0	CSI.	0.40	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.16	Vert(LL)	-0.01	3-4	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.09	Vert(CT)	-0.01	3-4	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.01	2	n/a	n/a		
BCDL	10.0	Code IRC2018/Ti	PI2014	Matri	x-R	Wind(LL)	0.00	3-4	>999	240	Weight: 8 lb	FT = 10%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

WEBS 2x3 SPF No.2

REACTIONS. (size) 4=Mechanical, 2=Mechanical, 3=Mechanical

Max Horz 4=47(LC 8)

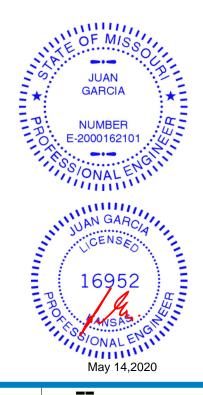
Max Uplift 4=-8(LC 8), 2=-55(LC 8)

Max Grav 4=143(LC 1), 2=105(LC 1), 3=61(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

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) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate
- 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 2.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.





Job Truss Truss Type Qty Lot 15 HT 141303219 400302 J21 Diagonal Hip Girder Job Reference (optional)
8.240 s Mar 9 2020 MiTek Industries, Inc. Wed May 13 16:45:28 2020 Page 1 Wheeler Lumber, Waverly, KS 66871 ID:bWuMDBN0tjF5cDvSpwhpH1zCzbQ-XxYv6AtEV0aJo6vMVGdCdzQImpednQTtXrZsIQzGs65 1-2-14 2-1-0 Scale = 1:9.7 3.54 12 0-4-1 1-4-6 0-6-0 3x6 || Plate Offsets (X,Y)--[2:0-0-6,0-1-4], [5:0-0-0,0-1-4] SPACING-LOADING (psf) CSI. DEFL. in (loc) I/defI L/d **PLATES GRIP TCLL** 25.0 Plate Grip DOL 1.15 TC 0.07 Vert(LL) -0.00 >999 360 MT20 197/144 5 **TCDL** 10.0 Lumber DOL 1.15 ВС 0.02 Vert(CT) -0.00 5 >999 240 **BCLL** 0.0 Rep Stress Incr NO WB 0.00 Horz(CT) -0.00 3 n/a n/a Code IRC2018/TPI2014 FT = 10% **BCDL** 10.0 Matrix-R Wind(LL) >999 240 Weight: 7 lb 0.00 5 LUMBER-**BRACING-**TOP CHORD Structural wood sheathing directly applied or 2-1-0 oc purlins,

BOT CHORD

except end verticals.

Rigid ceiling directly applied or 10-0-0 oc bracing

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

WEBS 2x3 SPF No.2

REACTIONS. 5=0-4-9, 3=Mechanical, 4=Mechanical (size)

Max Horz 5=42(LC 7)

Max Uplift 5=-97(LC 6), 3=-24(LC 12) Max Grav 5=83(LC 1), 3=22(LC 1), 4=27(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

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) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate
- 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 3.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 14 lb down and 5 lb up at -1-2-14, and 14 lb down and 5 lb up at -1-2-14 on top chord. The design/selection of such connection device(s) is the responsibility
- 8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

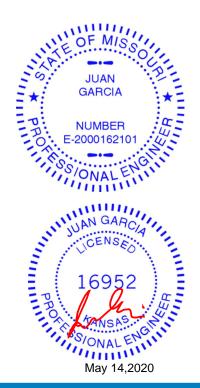
LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15 Concentrated Loads (lb)

Vert: 1=-21(F=-11, B=-11)

Trapezoidal Loads (plf)

Vert: 1=0(F=35, B=35)-to-6=-18(F=26, B=26), 6=0(F=35, B=35)-to-2=-15(F=27, B=27), 2=-15(F=27, B=27)-to-3=-50(F=10, B=10), 5=-4(F=8, B=8)-to-4=-14(F=3, B=3)





MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.



Job Truss Truss Type Qty Lot 15 HT 141303220 400302 J22 Jack-Open

Wheeler Lumber, Waverly, KS 66871

Job Reference (optional)
8.240 s Mar 9 2020 MiTek Industries, Inc. Wed May 13 16:45:29 2020 Page 1 ID:bWuMDBN0tjF5cDvSpwhpH1zCzbQ-086HKWtsGKiAPGUZ3z8RAAzwdD_zWti0IVIQqszGs64

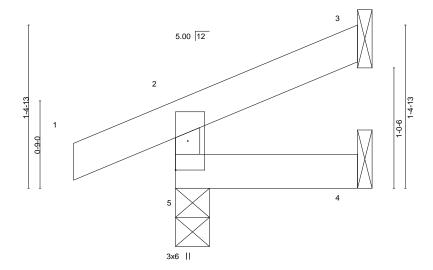
Structural wood sheathing directly applied or 1-6-12 oc purlins,

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

except end verticals.

1-6-12 0-10-8 1-6-12

Scale = 1:9.9



1-6-12 1-6-12

Plate Off	sets (X,Y)	[2:0-0-8,0-1-4], [5:0-0-0,0-1-	4]									
LOADIN	G (psf)	SPACING- 2	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.06	Vert(LL)	-0.00	5	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.02	Vert(CT)	-0.00	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/TPI20	014	Matri	x-R	Wind(LL)	0.00	5	>999	240	Weight: 5 lb	FT = 10%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

WEBS 2x3 SPF No.2

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

Max Horz 5=35(LC 5)

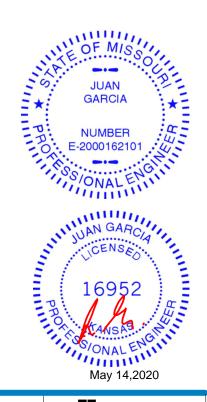
Max Uplift 5=-33(LC 4), 3=-23(LC 8)

Max Grav 5=157(LC 1), 3=31(LC 1), 4=27(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

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) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate
- 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 3.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.





MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.



Job Truss Truss Type Qty Lot 15 HT 141303221 400302 J23 Diagonal Hip Girder Job Reference (optional)
8.240 s Mar 9 2020 MiTek Industries, Inc. Wed May 13 16:45:31 2020 Page 1 Wheeler Lumber, Waverly, KS 66871 ID:bWuMDBN0tjF5cDvSpwhpH1zCzbQ-yWE1lCv6nxyufaexAOAvFb29H1bm_nCJDpnWvlzGs62 6-0-9 1-4-13 6-0-9 Scale = 1:15.6 3x6 II 3 3.12 12 6 0-6-0 10 4 3x4 || 3x6 II 6-0-9 Plate Offsets (X,Y)--[2:0-0-5,0-1-4], [4:Edge,0-2-8], [5:0-0-0,0-1-4] GRIP LOADING (psf) SPACING-CSI. DEFL. (loc) I/defl L/d **PLATES TCLL** 25.0 Plate Grip DOL 1.15 TC 0.50 Vert(LL) -0.05 4-5 >999 360 MT20 197/144 TCDL 10.0 Lumber DOL 1.15 ВС 0.31 Vert(CT) -0.10 4-5 >714 240 **BCLL** 0.0 Rep Stress Incr NO WB 0.00 Horz(CT) 0.00 n/a n/a 4 Code IRC2018/TPI2014 **BCDL** Matrix-R Wind(LL) >999 240 Weight: 17 lb FT = 10% 10.0 0.01 4-5

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

WEBS 2x3 SPF No.2

REACTIONS. (size) 5=0-4-11, 4=Mechanical

Max Horz 5=92(LC 7)

Max Uplift 5=-117(LC 4), 4=-61(LC 8) Max Grav 5=383(LC 1), 4=258(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 2-5=-335/158

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) gable end 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4 except (jt=lb) 5=117
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 60 lb down and 21 lb up at 2-3-15, and 77 lb down and 42 lb up at 2-11-5, and 75 lb down and 54 lb up at 4-10-10 on top chord, and 3 lb down and 2 lb up at 2-3-15, and 5 lb down at 2-11-5, and 16 lb down at 4-10-10 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

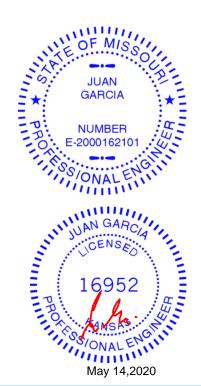
1) Dead + Roof Live (balanced): Lumber Increase=1.15. Plate Increase=1.15

Uniform Loads (plf)

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

Concentrated Loads (lb)

Vert: 8=-4(B) 9=2(B) 10=-1(F) 11=-7(B)



Structural wood sheathing directly applied or 6-0-0 oc purlins,

Rigid ceiling directly applied or 10-0-0 oc bracing

except end verticals.



MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.



Job Truss Truss Type Qty Lot 15 HT 141303222 400302 J24 Jack-Open Job Reference (optional)
8.240 s Mar 9 2020 MiTek Industries, Inc. Wed May 13 16:45:32 2020 Page 1

Wheeler Lumber, Waverly, KS 66871 ID:bWuMDBN0tjF5cDvSpwhpH1zCzbQ-QjoQyXwkYF4lGjD8k5h8opbQFR_rjESTSTX4RBzGs61

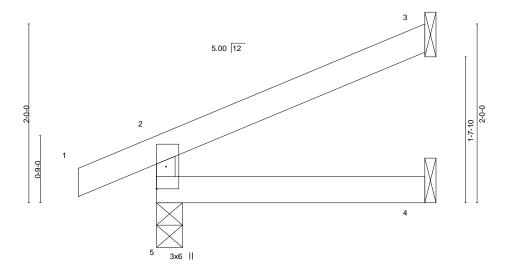
Structural wood sheathing directly applied or 3-0-1 oc purlins,

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

except end verticals.

3-0-1 0-10-8

Scale = 1:12.9



3-0-1 3-0-1

BRACING-

TOP CHORD

BOT CHORD

Plate Offsets (X,Y)	[2:0-0-8,0-1-4], [5:0-0-0,0-1-4]			
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d	PLATES GRIP
TCLL 25.0	Plate Grip DOL 1.15	TC 0.10	Vert(LL) -0.00 4-5 >999 360	MT20 197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.07	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	Weight: 9 lb FT = 10%
BCDL 10.0	Code IRC2018/TPI2014	Matrix-R	Wind(LL) 0.00 4-5 >999 240	

LUMBER-

REACTIONS.

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

WEBS 2x3 SPF No.2

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

Max Horz 5=56(LC 8)

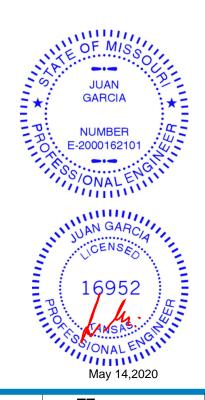
Max Uplift 5=-31(LC 8), 3=-47(LC 8)

Max Grav 5=208(LC 1), 3=85(LC 1), 4=54(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

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) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate
- 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 3.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.





Job Truss Truss Type Qty Lot 15 HT 141303223 400302 J25 Jack-Open Job Reference (optional)
8.240 s Mar 9 2020 MiTek Industries, Inc. Wed May 13 16:45:33 2020 Page 1

Wheeler Lumber, Waverly, KS 66871

ID:bWuMDBN0tjF5cDvSpwhpH1zCzbQ-uvMoAtxMJYCcutoKlpCNK07ZVqKDShicg7GdzdzGs60

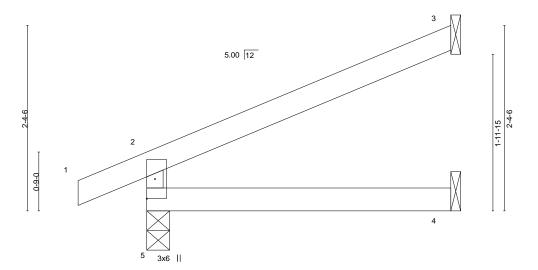
Structural wood sheathing directly applied or 3-10-8 oc purlins,

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

except end verticals.

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

Scale = 1:14.7



3-10-8 3-10-8

BRACING-

TOP CHORD

BOT CHORD

Plate Offsets (X,Y)	[2:0-0-8,0-1-4], [5:0-0-0,0-1-4]			
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d	PLATES GRIP
TCLL 25.0	Plate Grip DOL 1.15	TC 0.20	Vert(LL) -0.01 4-5 >999 360	MT20 197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.12	Vert(CT) -0.02 4-5 >999 240	197/144
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT) 0.01 3 n/a n/a	Weight: 11 lb FT = 10%
BCDL 10.0	Code IRC2018/TPI2014	Matrix-R	Wind(LL) 0.01 4-5 >999 240	

LUMBER-

REACTIONS.

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

WEBS 2x3 SPF No.2

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

Max Horz 5=70(LC 8)

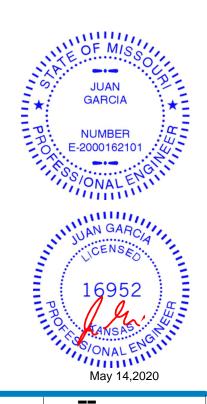
Max Uplift 5=-34(LC 8), 3=-61(LC 8)

Max Grav 5=244(LC 1), 3=116(LC 1), 4=71(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

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) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate
- 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 3.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.





MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.



Job Truss Truss Type Qty Lot 15 HT 141303224 400302 J26 Jack-Open Job Reference (optional)
8.240 s Mar 9 2020 MiTek Industries, Inc. Wed May 13 16:45:34 2020 Page 1

Wheeler Lumber, Waverly, KS 66871

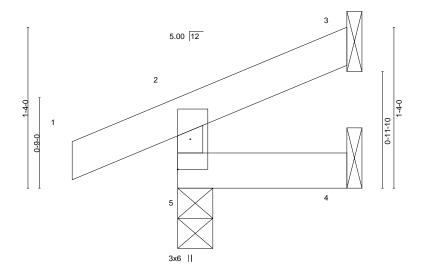
Structural wood sheathing directly applied or 1-4-13 oc purlins,

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

except end verticals.

ID:bWuMDBN0tjF5cDvSpwhpH1zCzbQ-M5vANDx_4sKTW1NWsWjctEgmMEhCB8ylvn0BV4zGs6? 1-4-13 -0-10-8 0-10-8 1-4-13

Scale = 1:9.6



1-4-13

Plate Off	Plate Offsets (X,Y) [2:0-0-8,0-1-4], [5:0-0-0,0-1-4]											
LOADING	G (psf)	SPACING- 2	2-0-0	CSI.		DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.06	Vert(LL)	-0.00	5	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.01	Vert(CT)	-0.00	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/TPI2	014	Matri	x-R	Wind(LL)	0.00	5	>999	240	Weight: 5 lb	FT = 10%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

WEBS 2x3 SPF No.2

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

Max Horz 5=34(LC 5)

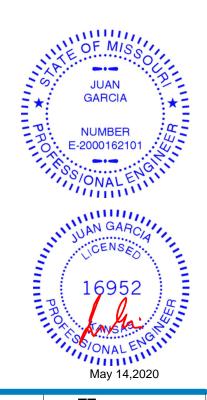
Max Uplift 5=-34(LC 4), 3=-19(LC 8)

Max Grav 5=153(LC 1), 3=23(LC 1), 4=24(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

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) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate
- 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 3.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.





MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.



Job Truss Truss Type Qty Lot 15 HT 141303225 400302 J27 Jack-Open Job Reference (optional)
8.240 s Mar 9 2020 MiTek Industries, Inc. Wed May 13 16:45:36 2020 Page 1 Wheeler Lumber, Waverly, KS 66871 ID:bWuMDBN0tjF5cDvSpwhpH1zCzbQ-IU1wovzFcTaBILXvzxm4yfl7t2NAe2R2M5VHZyzGs5z 2-5-15 2-5-15 -0-10-8 0-10-8 Scale = 1:10.3 4.00 12 2 1-6-0 1-1-13 0-8-0 3x6 || Plate Offsets (X,Y)--[2:0-0-7,0-1-4], [5:0-0-0,0-1-4] SPACING-DEFL. **PLATES** GRIP LOADING (psf) CSI. (loc) I/defI L/d **TCLL** 25.0 Plate Grip DOL 1.15 TC 0.06 Vert(LL) -0.00 4-5 >999 360 MT20 197/144 **TCDL** 10.0 Lumber DOL 1.15 ВС 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 Code IRC2018/TPI2014 FT = 10% BCDL 10.0 Matrix-R Wind(LL) >999 240 Weight: 7 lb 0.00 5

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

WEBS 2x3 SPF No.2

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

Max Horz 5=43(LC 4)

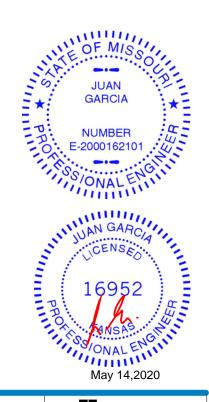
Max Uplift 5=-58(LC 4), 3=-34(LC 8)

Max Grav 5=188(LC 1), 3=67(LC 1), 4=44(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

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) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate
- 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 3.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



Structural wood sheathing directly applied or 2-5-15 oc purlins,

Rigid ceiling directly applied or 10-0-0 oc bracing

except end verticals.

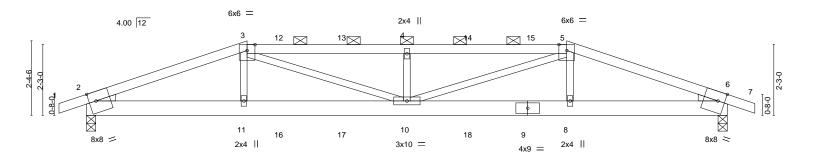


MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.



Job	Truss	Truss Type	Qty	Ply	Lot 15 HT		
							I41303226
400302	K1	Hip Girder	1	1			
					Job Reference (optional)		
Wheeler Lumber,	Waverly, KS 66871		8.3	240 s Mar	9 2020 MiTek Industries, Inc.	Wed May 13 16:45	:44 2020 Page 1
			ID:bWuMDBN0tjF5c	DvSpwhpH	11zCzbQ-40WyTe3Gjxb2jZ8R	RdvyHL4H4Gu6Wb	aECLRjrVzGs5r
_[0-10-8]	5-1-2	10-2-0	1 1	5-2-14	1	20-4-0	21-2-8
0-10-8	5-1-2	5-0-14	' '	5-0-14		5-1-2	0-10-8

Scale = 1:36.6



5-1-2		5-1-2	10-2-0	15-2-14	20-4-0			
	-	5-1-2	5-0-14	5-0-14	5-1-2			
Plate Offset	Plate Offsets (X,Y) [2:0-1-14,0-0-0], [2:0-8-8,0-1-9], [2:0-2-10,Edge], [6:0-1-14,0-0-0], [6:0-8-8,0-1-9], [6:0-2-10,Edge]							
LOADING ((psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl	L/d PLATES GRIP			
TCLL 2	25.0	Plate Grip DOL 1.15	TC 0.95	/ert(LL) -0.19 10 >999	360 MT20 197/144			
TCDL '	10.0	Lumber DOL 1.15	BC 0.87	/ert(CT) -0.35 10 >694	240			
BCLL	0.0 *	Rep Stress Incr NO	WB 0.37	Horz(CT) 0.06 6 n/a	n/a			
BCDL	10.0	Code IRC2018/TPI2014	Matrix-S	Nind(LL) 0.17 10 >999	240 Weight: 76 lb FT = 10%			

TOP CHORD

BOT CHORD

LUMBER- BRACING-

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

WEBS 2x6 SPF No.2
2x6 SPF No.2

WEDGE

Left: 2x3 SPF No.2, Right: 2x3 SPF No.2

REACTIONS. (size) 2=0-3-8, 6=0-3-8

Max Horz 2=34(LC 33)

Max Uplift 2=-340(LC 4), 6=-340(LC 5) Max Grav 2=1369(LC 1), 6=1369(LC 1)

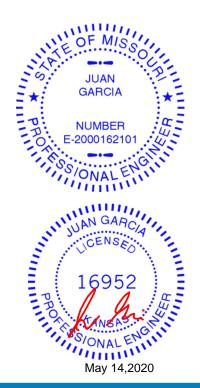
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-3=-3066/704, 3-4=-3699/879, 4-5=-3699/879, 5-6=-3066/705

BOT CHORD 2-11=-630/2796, 10-11=-629/2775, 8-10=-604/2774, 6-8=-605/2796 WEBS 3-11=-20/400, 3-10=-262/1090, 4-10=-599/277, 5-10=-262/1090, 5-8=-21/400

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) gable end 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=340, 6=340.
- 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) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 9) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 83 lb down and 70 lb up at 6-2-0, 83 lb down and 70 lb up at 8-2-0, 83 lb down and 70 lb up at 10-2-0, and 83 lb down and 70 lb up at 12-2-0, and 83 lb down and 70 lb up at 14-2-0 on top chord, and 226 lb down and 93 lb up at 5-1-2, 31 lb down at 6-2-0, 31 lb down at 8-2-0, 31 lb down at 10-2-0, 31 lb down at 12-2-0, and 31 lb down at 14-2-0, and 226 lb down and 93 lb up at 15-2-14 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



Structural wood sheathing directly applied or 2-11-4 oc purlins,

2-0-0 oc purlins (2-2-12 max.): 3-5.

Rigid ceiling directly applied or 9-2-14 oc bracing.

Continued on page 2

🗥 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.



Job	Truss	Truss Type	Qty	Ply	Lot 15 HT
400302	K1	Hip Girder	1	1	141303226
400302	KI	Inip Gildei		'	Job Reference (optional)

Wheeler Lumber,

Waverly, KS 66871

8.240 s Mar 9 2020 MiTek Industries, Inc. Wed May 13 16:45:44 2020 Page 2 ID:bWuMDBN0tjF5cDvSpwhpH1zCzbQ-40WyTe3Gjxb2jZ8RRdvyHL4H4Gu6WbaECLRjrVzGs5r

LOAD CASE(S) Standard

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

Uniform Loads (plf)

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

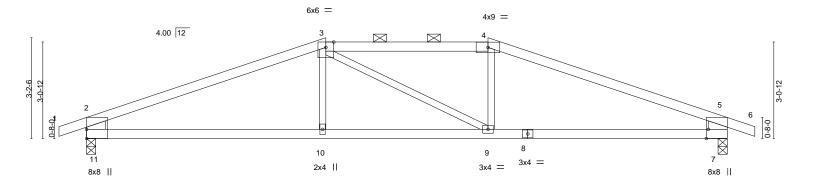
Concentrated Loads (lb)

Vert: 9=-22(B) 11=-226(B) 10=-22(B) 4=-46(B) 8=-226(B) 12=-46(B) 13=-46(B) 14=-46(B) 15=-46(B) 16=-22(B) 17=-22(B) 18=-22(B) 1



Job Truss Truss Type Qty Lot 15 HT 141303227 Hip 400302 K2 Job Reference (optional)
8.240 s Mar 9 2020 MiTek Industries, Inc. Wed May 13 16:45:45 2020 Page 1 Wheeler Lumber, Waverly, KS 66871 ID:bWuMDBN0tjF5cDvSpwhpH1zCzbQ-YD4Kh_4uUEjvKjjd?KQBqYdWOglgF44NR?AGNxzGs5q 0-10-8 0-10-8 21-2-8 0-10-8 12-8-14 5-1-12

Scale = 1:36.6



	7-7-2		12-8-14			20-4-0				
	7-7-2	l	5-1-12				7-7-2			
Plate Offsets (X,Y)	[2:0-1-3,0-3-10], [5:0-1-3,0-3-10], [7:0-0	0,0-3-10], [7:0-3-8,Edge	e], [11:0-0-0,0-3-10]							
LOADING (psf) TCLL 25.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2018/TPI2014	CSI. TC 0.65 BC 0.59 WB 0.17 Matrix-S	DEFL. in Vert(LL) -0.12 Vert(CT) -0.24 Horz(CT) 0.05 Wind(LL) 0.08	9-10 9-10 7	l/defl >999 >990 n/a >999	L/d 360 240 n/a 240	PLATES MT20 Weight: 60 lb	GRIP 197/144 FT = 10%		

BOT CHORD

LUMBER-**BRACING-**TOP CHORD

TOP CHORD 2x4 SPF 2100F 1.8E *Except*

3-4: 2x4 SPF No.2 **BOT CHORD** 2x4 SPF No.2 **WEBS** 2x3 SPF No.2 *Except* 2-11,5-7: 2x8 SP DSS

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

Max Horz 11=33(LC 8)

Max Uplift 11=-197(LC 4), 7=-197(LC 5) Max Grav 11=970(LC 1), 7=970(LC 1)

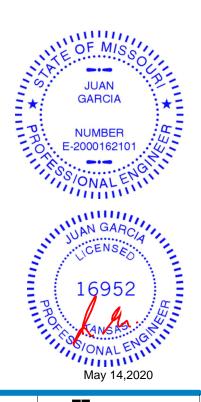
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 2-3=-1639/256, 3-4=-1460/278, 4-5=-1639/255, 2-11=-881/241, 5-7=-882/241

BOT CHORD 10-11=-190/1464, 9-10=-193/1460, 7-9=-164/1464

REACTIONS.

- 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) gable end 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 11=197, 7=197.
- 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) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



Structural wood sheathing directly applied or 4-11-7 oc purlins,

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

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

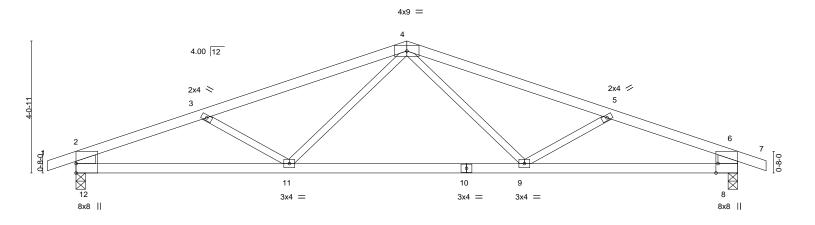


MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.



Job	Truss	Truss Type	Qty	Ply	Lot 15 HT		
							I41303228
400302	K3	Common	1	1			
					Job Reference (optional))	
Wheeler Lumber, Wav	erly, KS 66871		8.2	240 s Mar	9 2020 MiTek Industries,	Inc. Wed May 13 16:45:46 2020	Page 1
		ID:bWuMD	BN0tjF5cDv	SpwhpH1:	zCzbQ-0PeiuK5WFYrmyt	HqZ2xQMmAfm4eL_Y5Wgfwpwl	NzGs5p
ر0-10-8 ا	I-0-3	10-2-0	•	16-3-1	3	20-4-0	₁ 21-2-8 ₁
0-10-8	I-0-3	6-1-13		6-1-1	3	4-0-3	0-10-8

Scale = 1:35.4



	6-6-10					13-9-6						
	ı	6-6-10			7-2-11						ı	
Plate Offsets (X,Y) [2:0-1-3,0-3-10], [6:0-1-3,0-3-10], [8:0-0-0,					3:0-3-8,Edg	e], [12:0-0-0,0-3-10]						
LOADING	i (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	I/defI	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.81	Vert(LL)	-0.17	9-11	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.63	Vert(CT)	-0.32	9-11	>730	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.12	Horz(CT)	0.05	8	n/a	n/a		
BCDL	10.0	Code IRC2018/TI	PI2014	Matri	k-S	Wind(LL)	0.12	9-11	>999	240	Weight: 65 lb	FT = 10%
						. , ,						

TOP CHORD

BOT CHORD

LUMBER-**BRACING-**

TOP CHORD 2x4 SPF 2100F 1.8E BOT CHORD 2x4 SPF No.2 WEBS 2x3 SPF No.2 *Except*

2-12,6-8: 2x8 SP 2400F 2.0E

REACTIONS. (size) 12=0-3-8, 8=0-3-8 Max Horz 12=49(LC 8)

Max Uplift 12=-180(LC 4), 8=-180(LC 5) Max Grav 12=970(LC 1), 8=970(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

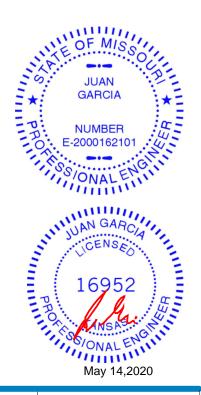
2-3=-1713/290, 3-4=-1502/196, 4-5=-1502/196, 5-6=-1713/290, 2-12=-888/206, TOP CHORD

6-8=-888/206

BOT CHORD 11-12=-263/1537, 9-11=-105/1179, 8-9=-226/1537 WEBS 4-9=-12/348, 5-9=-255/195, 4-11=-11/348, 3-11=-255/195

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) gable end 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb)
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



Structural wood sheathing directly applied or 3-9-12 oc purlins,

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

except end verticals.

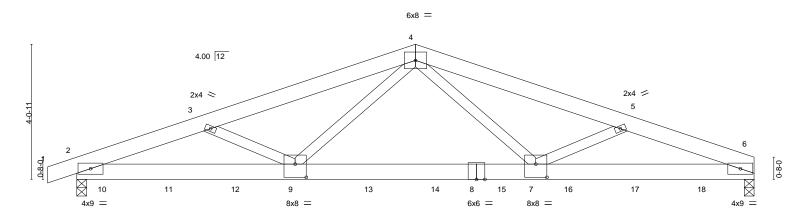


MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.



Job Truss Truss Type Qty Lot 15 HT 141303229 400302 K4 Common Girder | **Z** | Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inc. Wed May 13 16:45:47 2020 Page 1 Wheeler Lumber, Waverly, KS 66871 ID:bWuMDBN0tjF5cDvSpwhpH1zCzbQ-UbC56g580szda1s06lSfvzisvUwJjt?gulfNSqzGs5o 20-4-0 $\frac{0-10-8}{0-10-8}$ 10-2-0 16-3-13 4-0-3 6-1-13 6-1-13 4-0-3

Scale = 1:34.6



	6-6-10	1	13-9-6	20-4-0	
	6-6-10	ı	7-2-11	6-6-10	<u> </u>
Plate Offsets (X,	[7:0-4-0,0-4-12], [9:0-4-0,0-4-12]				
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/def	I L/d PLATES GRIP	
TCLL 25.0	Plate Grip DOL 1.15	TC 0.59	Vert(LL) -0.20 7-9 >999) 360 MT20 197/144	
TCDL 10.0	Lumber DOL 1.15	BC 0.84	Vert(CT) -0.35 7-9 >683	3 240	
BCLL 0.0	Rep Stress Incr NO	WB 0.59	Horz(CT) 0.07 6 n/a	a n/a	
BCDL 10.0	Code IRC2018/TPI2014	Matrix-S	Wind(LL) 0.10 7-9 >999	9 240 Weight: 211 lb FT = 10%	

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

TOP CHORD 2x6 SPF No.2 **BOT CHORD** 2x6 SP 2400F 2.0E

WEBS 2x4 SPF No.2

(size) 6=0-3-8 (req. 0-3-15), 2=0-3-8 (req. 0-4-5)

Max Horz 2=67(LC 33)

Max Uplift 6=-192(LC 5), 2=-264(LC 4) Max Grav 6=4994(LC 1), 2=5496(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

2-3=-10646/477, 3-4=-10820/354, 4-5=-11181/234, 5-6=-10961/376 TOP CHORD **BOT CHORD**

2-9=-459/9872, 7-9=-171/7192, 6-7=-323/10155 WFBS

4-7=0/4792, 5-7=-183/795, 4-9=-141/4308, 3-9=-197/719

NOTES-

- 1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows: Top chords connected as follows: 2x6 - 2 rows staggered at 0-7-0 oc. Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-5-0 oc. Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
- 2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- 3) Unbalanced roof live loads have been considered for this design.
- 4) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) WARNING: Required bearing size at joint(s) 6, 2 greater than input bearing size.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 6=192, 2=264,
- 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) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 901 lb down and 35 lb up at 0-10-0, 862 lb down and 32 lb up at 2-10-0, 853 lb down and 32 lb up at 4-10-0, 853 lb down and 32 lb up at 6-10-0, 853 lb down and 32 lb up at 8-10-0, 853 lb down and 32 lb up at 10-10-0, 853 lb down and 30 lb up at 12-10-0, 850 lb down at 14-10-0, and 1651 lb down and 188 lb up at 16-10-0, and 123 lb down and 28 lb up at 18-10-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others

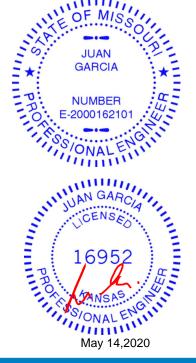
LOAD CASE(S) Standard

Continued on page 2

M WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 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 permanent. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



Structural wood sheathing directly applied or 4-1-8 oc purlins.

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



Job	Truss	Truss Type	Qty	Ply	Lot 15 HT
400000	17.4				l41303229
400302	K4	Common Girder	1	2	Job Reference (optional)

Wheeler Lumber,

Waverly, KS 66871

8.240 s Mar 9 2020 MiTek Industries, Inc. Wed May 13 16:45:47 2020 Page 2 ID:bWuMDBN0tjF5cDvSpwhpH1zCzbQ-UbC56g580szda1s06lSfvzisvUwJjt?gulfNSqzGs5o

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-4=-70, 4-6=-70, 2-6=-20

Concentrated Loads (lb)

 $Vert: 9 = -853(F) \ 10 = -865(F) \ 11 = -862(F) \ 12 = -853(F) \ 13 = -853(F) \ 14 = -853(F) \ 15 = -853(F) \ 16 = -850(F) \ 17 = -1651(F) \ 18 = -123(F) \ 18 = -123(F)$



Job Truss Truss Type Qty Lot 15 HT 141303230 400302 LAY1 GABLE Job Reference (optional)
8.240 s Mar 9 2020 MiTek Industries, Inc. Wed May 13 16:45:48 2020 Page 1 Wheeler Lumber, Waverly, KS 66871 ID:bWuMDBN0tjF5cDvSpwhpH1zCzbQ-yomTJ06mn95UBBRCgS_uRBF9qtTCSTup7yPw_GzGs5n 8-7-10 4-3-13 4-3-13 Scale = 1:31.7 4x5 = 3 13.00 12 2x4 || 2x4 || 2x4 // 8 7 6 2x4 \ 2x4 || 2x4 || 2x4 ||

8-7-10

DEFL.

Vert(LL)

Vert(CT)

Horz(CT)

BRACING-

TOP CHORD

BOT CHORD

I/defI

n/a

n/a

n/a

(loc)

5

n/a

n/a

0.00

L/d

999

999

n/a

Rigid ceiling directly applied or 10-0-0 oc bracing

PLATES

Weight: 32 lb

MT20

Structural wood sheathing directly applied or 6-0-0 oc purlins.

GRIP

197/144

FT = 10%

LUMBER-

TCLL

TCDL

BCLL

BCDL

LOADING (psf)

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

25.0

10.0

0.0

10.0

OTHERS 2x4 SPF No.2

REACTIONS. All bearings 8-7-10.

Max Horz 1=115(LC 7)

Max Uplift All uplift 100 lb or less at joint(s) 1, 5 except 8=-161(LC 8), 6=-161(LC 9)

2-0-0

1.15

1.15

YES

Max Grav All reactions 250 lb or less at joint(s) 1, 5, 7, 8, 6

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-

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

SPACING-

Plate Grip DOL

Rep Stress Incr

Code IRC2018/TPI2014

Lumber DOL

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

CSI.

TC

ВС

WB

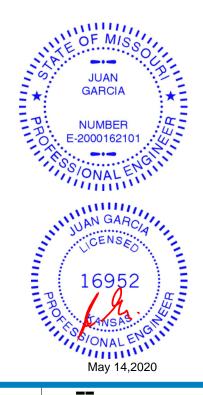
Matrix-P

0.06

0.03

0.03

- 3) Gable requires continuous bottom chord bearing.
- 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 5 except (jt=lb) 8=161, 6=161,
- 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.





M WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.



Job Truss Truss Type Qty Ply Lot 15 HT 141303231 400302 LAY2 GABLE Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inc. Wed May 13 16:45:49 2020 Page 1 Wheeler Lumber, Waverly, KS 66871 ID:bWuMDBN0tjF5cDvSpwhpH1zCzbQ-Q_JrWM7PYTDLpL0PEAV7_OoLqHpVBwEzMc8TWizGs5m 6-11-10 3-5-13 3-5-13 Scale = 1:26.1 4x5 = 3 13.00 12 2x4 || 2x4 || 2 2x4 \ 2x4 // 2x4 || 2x4 || 2x4 ||

			6-11-10				
LOADING (psf) TCLL 25.0	SPACING- 2-0-0 Plate Grip DOL 1.15	CSI. TC 0.05	DEFL. in Vert(LL) n/a	(loc)	l/defl n/a	L/d 999	PLATES GRIP MT20 197/144
TCDL 10.0 BCLL 0.0 *	Lumber DOL 1.15 Rep Stress Incr YES	BC 0.03 WB 0.03	Vert(CT) n/a Horz(CT) 0.00	- 5	n/a n/a	999 n/a	
BCDL 10.0	Code IRC2018/TPI2014	Matrix-P					Weight: 25 lb FT = 10%

6-11-10

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

OTHERS 2x4 SPF No.2

REACTIONS. All bearings 6-11-10. (lb) -

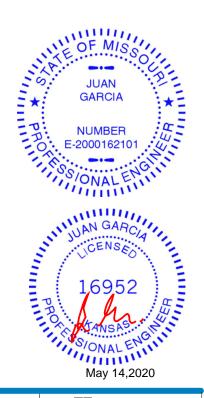
Max Uplift All uplift 100 lb or less at joint(s) 1, 5 except 8=-137(LC 8), 6=-137(LC 9)

Max Grav All reactions 250 lb or less at joint(s) 1, 5, 7, 8, 6

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

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) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Gable requires continuous bottom chord bearing.
- 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 5 except (jt=lb) 8=137, 6=137,
- 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.



Structural wood sheathing directly applied or 6-0-0 oc purlins.

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



MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.



Job Truss Truss Type Qty Ply Lot 15 HT 141303232 400302 LAY3 GABLE Job Reference (optional)
8.240 s Mar 9 2020 MiTek Industries, Inc. Wed May 13 16:45:50 2020 Page 1 Wheeler Lumber, Waverly, KS 66871 ID:bWuMDBN0tjF5cDvSpwhpH1zCzbQ-uAtDkh81JnLCRUbbot0MXcKVEh9dwNN6aGu138zGs5l 8-11-10 4-5-13 4-5-13 Scale = 1:32.8 4x5 = 3 13.00 12 2x4 || 2x4 || 5 ****** 2x4 // 2x4 📏 8 7 6 2x4 || 2x4 || 2x4 || 8-11-10

LOADING (psf) TCLL 25.0 TCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15	CSI. TC 0.07 BC 0.03	DEFL. in (loc) I/defl L/d Vert(LL) n/a - n/a 999 Vert(CT) n/a - n/a 999	PLATES GRIP MT20 197/144
BCLL 0.0 * BCDL 10.0	Rep Stress Incr YES Code IRC2018/TPI2014	WB 0.03 Matrix-P	Horz(CT) 0.00 5 n/a n/a	Weight: 34 lb FT = 10%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

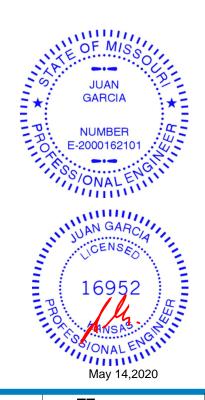
REACTIONS. All bearings 8-11-10. Max Horz 1=-120(LC 4)

Max Uplift All uplift 100 lb or less at joint(s) 1, 5 except 8=-168(LC 8), 6=-168(LC 9) Max Grav All reactions 250 lb or less at joint(s) 1, 5, 7 except 8=261(LC 15), 6=261(LC 16)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

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) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Gable requires continuous bottom chord bearing.
- 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 5 except (jt=lb) 8=168, 6=168,
- 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.



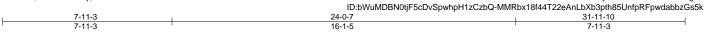
Structural wood sheathing directly applied or 6-0-0 oc purlins.

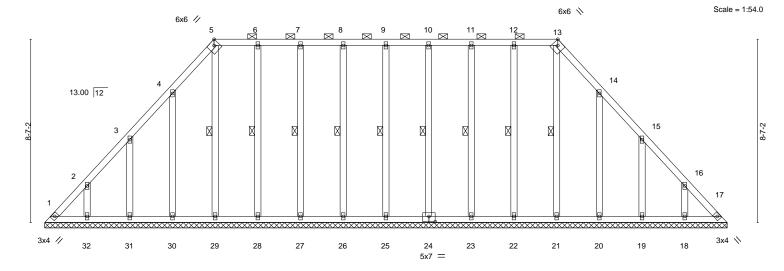
Rigid ceiling directly applied or 10-0-0 oc bracing.





Wheeler Lumber, Waverly, KS 66871





31-11-10 31-11-10

Plate Offsets (X,Y)	Plate Offsets (X,Y) [5:0-2-9,Edge], [13:0-2-9,Edge], [24:0-3-8,0-3-0]											
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d PLATES GRIP									
TCLL 25.0	Plate Grip DOL 1.15	TC 0.06	Vert(LL) n/a - n/a 999 MT20 197/144									
TCDL 10.0	Lumber DOL 1.15	BC 0.04	Vert(CT) n/a - n/a 999									
BCLL 0.0 *	Rep Stress Incr YES	WB 0.11	Horz(CT) 0.01 17 n/a n/a									
BCDL 10.0	Code IRC2018/TPI2014	Matrix-S	Weight: 188 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.): 5-13.

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

WEBS 1 Row at midpt 9-25, 8-26, 7-27, 6-28, 5-29, 10-24, 11-23,

12-22, 13-21

REACTIONS. All bearings 31-11-10.

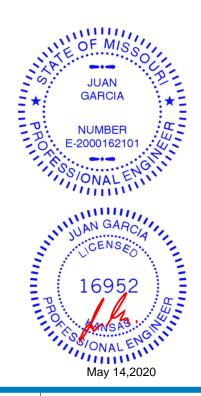
(lb) -Max Horz 1=221(LC 5)

Max Uplift All uplift 100 lb or less at joint(s) 17, 25, 26, 27, 28, 29, 24, 23, 22 except 1=-114(LC 6), 30=-135(LC 8), 31=-130(LC 8), 32=-131(LC 8), 20=-134(LC 9), 19=-130(LC 9), 18=-131(LC 9) Max Grav All reactions 250 lb or less at joint(s) 1, 17, 25, 26, 27, 28, 29, 30, 31, 32, 24, 23, 22, 21, 20, 19, 18

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 1-2=-284/215

- 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) gable end 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 2x4 MT20 unless otherwise indicated.
- 5) Gable requires continuous bottom chord bearing.
- 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 17, 25, 26, 27, 28, 29, 24, 23, 22 except (jt=lb) 1=114, 30=135, 31=130, 32=131, 20=134, 19=130, 18=131.
- 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.



MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.



Job Truss Truss Type Qty Ply Lot 15 HT 141303234 400302 LAY5 GABLE Job Reference (optional)
8.240 s Mar 9 2020 MiTek Industries, Inc. Wed May 13 16:45:53 2020 Page 1

Wheeler Lumber, Waverly, KS 66871 ID:bWuMDBN0tjF5cDvSpwhpH1zCzbQ-JIZMMjAvcijmIyKAT0Z38Ey1huAB7jvYHE6hfTzGs5i

15-11-10 7-11-3 7-11-3 7-11-3

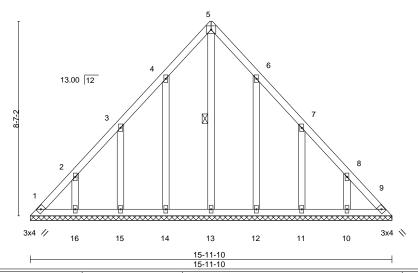
> Scale = 1:50.9 4x5 =

> > Structural wood sheathing directly applied or 6-0-0 oc purlins.

5-13

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

1 Row at midpt



LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.06	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.04	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.11	Horz(CT)	0.01	9	n/a	n/a		
BCDL	10.0	Code IRC2018/TF	PI2014	Matri	x-S						Weight: 79 lb	FT = 10%

BRACING-

WEBS

TOP CHORD

BOT CHORD

LUMBER-

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

2x4 SPF No.2

REACTIONS. All bearings 15-11-10. Max Horz 1=-222(LC 4) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 1, 9 except 14=-132(LC 8), 15=-131(LC 8), 16=-131(LC 8),

12=-130(LC 9), 11=-132(LC 9), 10=-131(LC 9)

Max Grav All reactions 250 lb or less at joint(s) 1, 9, 13, 14, 15, 16, 12, 11, 10

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 1-2=-295/189, 8-9=-262/140

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) gable end 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 2x4 MT20 unless otherwise indicated.
- 4) Gable requires continuous bottom chord bearing.
- 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 9 except (jt=lb) 14=132, 15=131, 16=131, 12=130, 11=132, 10=131.
- 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.





MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.



Job Truss Truss Type Qty Lot 15 HT 141303235 400302 LAY6 GABLE Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inc. Wed May 13 16:45:54 2020 Page 1

Wheeler Lumber, Waverly, KS 66871 ID:bWuMDBN0tjF5cDvSpwhpH1zCzbQ-nx7ka3BXN?rdv6vM1j4lhSV9RIVesA9iVusECwzGs5h

25-5-1 7-11-3 7-11-3 16-1-5 1-4-10

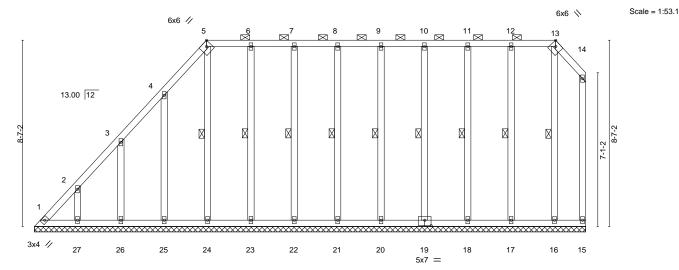


Plate Off	late Offsets (X,Y) [5:0-2-9,Edge], [13:0-2-9,Edge], [19:0-3-8,0-3-0]											
LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.25	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.09	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.11	Horz(CT)	-0.00	15	n/a	n/a		
BCDL	10.0	Code IRC2018/TP	12014	Matri	x-S						Weight: 166 lb	FT = 10%

LUMBER-

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

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 5-13. **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc bracing, Except:

6-0-0 oc bracing: 18-19,17-18,16-17. **WEBS**

1 Row at midpt 5-24, 6-23, 7-22, 8-21, 9-20, 10-19, 11-18, 12-17, 13-16

REACTIONS. All bearings 25-5-1.

Max Horz 1=311(LC 5) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 15, 23, 22, 21, 20, 19, 18, 17, 16 except 1=-144(LC 6),

27=-131(LC 8), 26=-129(LC 8), 25=-136(LC 8), 24=-100(LC 5)

Max Grav All reactions 250 lb or less at joint(s) 15, 27, 26, 25, 24, 23, 22, 21, 20, 19, 18, 17, 16 except

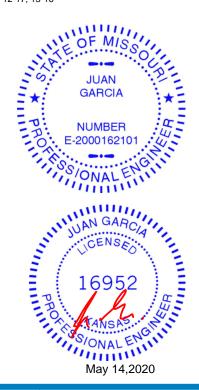
1=256(LC 5)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

1-2=-351/256, 2-3=-282/208 TOP CHORD

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) gable end 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 2x4 MT20 unless otherwise indicated.
- 5) Gable requires continuous bottom chord bearing.
- 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 15, 23, 22, 21, 20, 19, 18, 17, 16 except (jt=lb) 1=144, 27=131, 26=129, 25=136, 24=100.
- 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.



MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.



Job Truss Truss Type Qty Lot 15 HT 141303236 400302 LAY7 GABLE Job Reference (optional)
8.240 s Mar 9 2020 MiTek Industries, Inc. Wed May 13 16:45:55 2020 Page 1 Wheeler Lumber, Waverly, KS 66871 ID:bWuMDBN0tjF5cDvSpwhpH1zCzbQ-F8h6nPC98JzUXGUYaQcXDf2NKisxbeorkYbokMzGs5g 6-11-2 2-6-7 Scale = 1:17.6 3x4 📏 13.00 12 12 11 10 9 8 Plate Offsets (X,Y)--[5:0-1-7,Edge] SPACING-DEFL. **PLATES** LOADING (psf) 2-0-0 CSI. in (loc) I/defI L/d GRIP **TCLL** 25.0 Plate Grip DOL 1.15 TC 0.05 Vert(LL) n/a n/a 999 MT20 197/144 **TCDL** 10.0 Lumber DOL 1.15 ВС 0.02 Vert(CT) n/a n/a 999 **BCLL** 0.0 Rep Stress Incr YES WB 0.02 Horz(CT) 0.00 n/a n/a Code IRC2018/TPI2014 FT = 10% BCDL 10.0 Matrix-S Weight: 34 lb LUMBER-**BRACING-**TOP CHORD 2x4 SPF No.2 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, **BOT CHORD** 2x4 SPF No.2 except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 1-5. WEBS 2x4 SPF No.2 **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc bracing **OTHERS** 2x4 SPF No.2

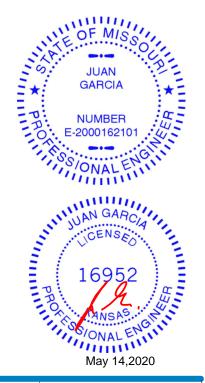
REACTIONS. All bearings 9-5-9.

Max Horz 12=-98(LC 4) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 12, 7, 11, 10, 9, 8 All reactions 250 lb or less at joint(s) 12, 7, 11, 10, 9, 8

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

- 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) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate
- 2) Provide adequate drainage to prevent water ponding.
- 3) All plates are 2x4 MT20 unless otherwise indicated.
- 4) Gable requires continuous bottom chord bearing.
- 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 12, 7, 11, 10, 9, 8.
- 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.



MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.



Job Truss Truss Type Qty Lot 15 HT 141303237 400302 LAY8 GABLE Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inc. Wed May 13 16:45:56 2020 Page 1 Wheeler Lumber, Waverly, KS 66871 ID:bWuMDBN0tjF5cDvSpwhpH1zCzbQ-jKFU_ICovd5L9P2l887mmtaXe6CsK5y?zCLLGozGs5f 4-11-12 4-11-12 Scale = 1:28.8 4x5 = 3 10.40 12 2x4 || 2x4 || 2 5 (.... 2x4 💉 2x4 / 2x4 II 2x4 || 2x4 II LOADING (psf) SPACING-2-0-0 CSI. DEFL. I/defI L/d **PLATES** GRIP (loc) TCLL 25.0 Plate Grip DOL Vert(LL) 999 197/144 1.15 TC 0.08 n/a n/a MT20 **TCDL** 10.0 Lumber DOL 1.15 ВС 0.04 Vert(CT) n/a 999 n/a **BCLL** 0.0 Rep Stress Incr YES WB 0.03 Horz(CT) 0.00 5 n/a n/a Code IRC2018/TPI2014 BCDL 10.0 Matrix-S Weight: 34 lb FT = 10%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

OTHERS 2x4 SPF No.2

REACTIONS. All bearings 9-11-8.

Max Horz 1=-104(LC 6)

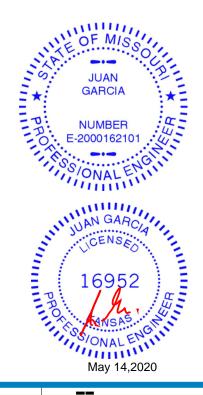
Max Uplift All uplift 100 lb or less at joint(s) 1 except 8=-134(LC 8), 6=-134(LC 9)

Max Grav All reactions 250 lb or less at joint(s) 1, 5, 7 except 8=274(LC 15), 6=274(LC 16)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

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) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Gable requires continuous bottom chord bearing.
- 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1 except (jt=lb) 8=134. 6=134.
- 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.



Structural wood sheathing directly applied or 6-0-0 oc purlins.

Rigid ceiling directly applied or 10-0-0 oc bracing



M WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.



Job Truss Truss Type Qty Lot 15 HT 141303238 Valley 400302 V1 Job Reference (optional)
8.240 s Mar 9 2020 MiTek Industries, Inc. Wed May 13 16:45:57 2020 Page 1 Wheeler Lumber, Waverly, KS 66871

ID:bWuMDBN0tjF5cDvSpwhpH1zCzbQ-BWotC5DQgwDCmZdxire?J47hdWWA3Ye8Bs4voEzGs5e

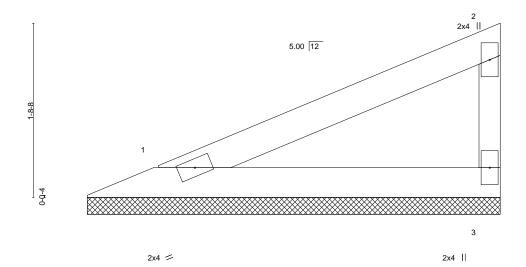
Structural wood sheathing directly applied or 4-1-4 oc purlins,

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

except end verticals.

4-1-4

Scale = 1:11.3



LOADING (psf) TCLL 25.0 TCDL 10.0 BCLL 0.0 *	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES	CSI. TC 0.19 BC 0.10 WB 0.00	DEFL. ii Vert(LL) n/i Vert(CT) n/i Horz(CT) -0.00	a -	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20	GRIP 197/144
BCDL 10.0	Code IRC2018/TPI2014	Matrix-P					Weight: 10 lb	FT = 10%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

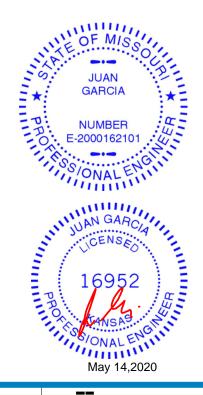
TOP CHORD 2x4 SPF No.2 BOT CHORD 2x4 SPF No.2 **WEBS** 2x3 SPF No.2

1=4-0-10, 3=4-0-10 (size) Max Horz 1=60(LC 5) Max Uplift 1=-21(LC 8), 3=-33(LC 8) Max Grav 1=146(LC 1), 3=146(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

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) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Gable requires continuous bottom chord bearing.
- 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.





Job Truss Truss Type Qty Lot 15 HT 141303239 Valley 400302 V2 Job Reference (optional)
8.240 s Mar 9 2020 MiTek Industries, Inc. Wed May 13 16:45:58 2020 Page 1 Wheeler Lumber, Waverly, KS 66871

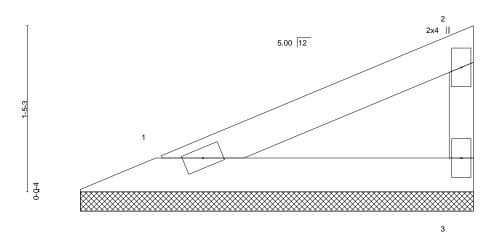
ID:bWuMDBN0tjF5cDvSpwhpH1zCzbQ-fjMFPQE2QEM3OjC7GZ9ErlgtXvt0o?uHQWqSLhzGs5d 3-5-4 3-5-4

Structural wood sheathing directly applied or 3-5-4 oc purlins,

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

except end verticals.

Scale = 1:9.9



2x4 / 2x4 ||

BOT CHORD

LOADING (not)	SPACING- 2-0-0	CSI.	DEFL. in	(100)	1/4061	L/d	PLATES	GRIP
LOADING (psf)				(loc)	I/defI		_	
TCLL 25.0	Plate Grip DOL 1.15	TC 0.11	Vert(LL) n/a	-	n/a	999	MT20	197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.06	Vert(CT) n/a	-	n/a	999		
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-P	. ,				Weight: 8 lb	FT = 10%

LUMBER-BRACING-TOP CHORD

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

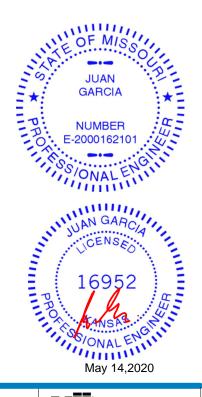
REACTIONS. 1=3-4-10, 3=3-4-10 (size)

Max Horz 1=47(LC 5) Max Uplift 1=-17(LC 8), 3=-26(LC 8) Max Grav 1=116(LC 1), 3=116(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

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) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Gable requires continuous bottom chord bearing.
- 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



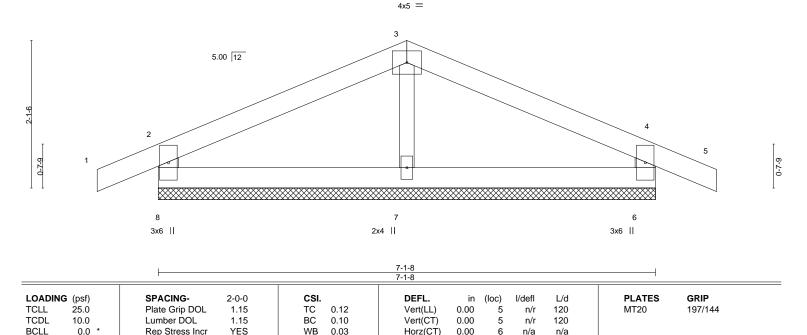


MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.



Job Truss Truss Type Lot 15 HT 141303240 Valley 400302 V3 Job Reference (optional)
8.240 s Mar 9 2020 MiTek Industries, Inc. Wed May 13 16:45:59 2020 Page 1 Wheeler Lumber, Waverly, KS 66871 ID:bWuMDBN0tjF5cDvSpwhpH1zCzbQ-7vwddmFgBYUw0tnKpGgTOVC2BJCjXSjRfAZ?t7zGs5c 8-0-0 0-10-8 3-6-12 3-6-12 0-10-8

Scale = 1:16.5



BRACING-

TOP CHORD

BOT CHORD

Code IRC2018/TPI2014 LUMBER-

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

10.0

WEBS 2x4 SPF No.2 **OTHERS** 2x3 SPF No.2

(size) 8=7-1-8, 6=7-1-8, 7=7-1-8

Max Horz 8=-19(LC 13)

Max Uplift 8=-74(LC 8), 6=-76(LC 9)

Max Grav 8=265(LC 1), 6=265(LC 1), 7=227(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-

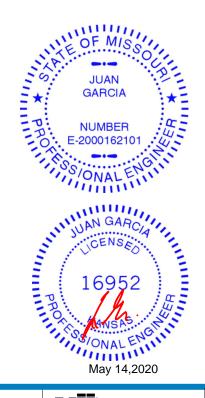
REACTIONS.

BCDL

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

Matrix-R

- 3) Gable requires continuous bottom chord bearing.
- 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 8, 6.
- 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.



Weight: 21 lb

Structural wood sheathing directly applied or 6-0-0 oc purlins,

Rigid ceiling directly applied or 10-0-0 oc bracing

except end verticals

FT = 10%

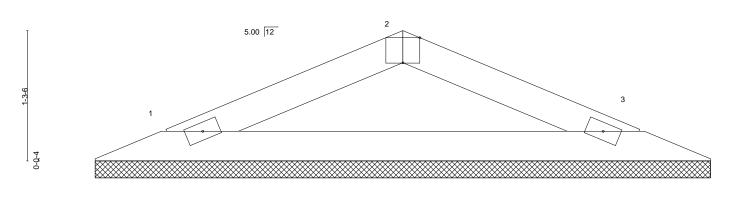


MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.



Job Truss Truss Type Qty Lot 15 HT 141303241 Valley 400302 V4 Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inc. Wed May 13 16:45:59 2020 Page 1 Wheeler Lumber, Waverly, KS 66871 ID:bWuMDBN0tjF5cDvSpwhpH1zCzbQ-7vwddmFgBYUw0tnKpGgTOVC2dJAaXS8RfAZ?t7zGs5c 3-0-14 3-0-14 Scale = 1:11.3

3x4 =



2x4 >

6-1-13 Plate Offsets (X,Y)--[2:0-2-0,Edge] SPACING-DEFL. **PLATES** GRIP LOADING (psf) 2-0-0 CSI. in (loc) I/defI L/d Plate Grip DOL **TCLL** 25.0 1.15 TC 0.09 Vert(LL) n/a n/a 999 MT20 197/144 **TCDL** 10.0 Lumber DOL 1.15 ВС 0.23 Vert(CT) n/a n/a 999 **BCLL** 0.0 Rep Stress Incr YES WB 0.00 Horz(CT) 0.00 3 n/a n/a Code IRC2018/TPI2014 FT = 10% BCDL 10.0 Matrix-P Weight: 13 lb

LUMBER-

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

BRACING-

TOP CHORD **BOT CHORD** Structural wood sheathing directly applied or 6-0-0 oc purlins.

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

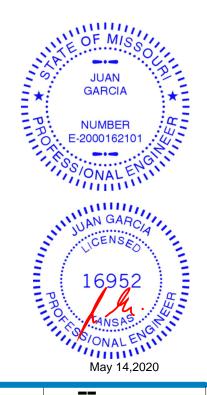
REACTIONS. (size)

1=6-0-10, 3=6-0-10 Max Horz 1=17(LC 8) Max Uplift 1=-27(LC 8), 3=-27(LC 9) Max Grav 1=209(LC 1), 3=209(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

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) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Gable requires continuous bottom chord bearing.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 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.





Job Truss Truss Type Lot 15 HT 141303242 Valley 400302 V5 Job Reference (optional)
8.240 s Mar 9 2020 MiTek Industries, Inc. Wed May 13 16:46:00 2020 Page 1 Wheeler Lumber, Waverly, KS 66871 ID:bWuMDBN0tjF5cDvSpwhpH1zCzbQ-c5U?q6Flyrcnd1MWN_BiwjlAnjXMGuMauqJZPZzGs5b 8-10-8 8-10-8 Scale = 1:23.2 2x4 || 3 5.00 12 2x4 || 2 0-0-4 4 2x4 || 2x4 = 2x4 ||

TCLL 25.0 F TCDL 10.0 L BCLL 0.0 *	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2018/TPI2014	CSI. TC 0.26 BC 0.13 WB 0.07 Matrix-P	Vert(LL) Vert(CT) Horz(CT)	in (loo n/a n/a -0.00	rc) I/defl - n/a - n/a 4 n/a	L/d 999 999 n/a	PLATES MT20 Weight: 24 lb	GRIP 197/144 FT = 10%
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BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

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

REACTIONS. (size) 1=8-9-14, 4=8-9-14, 5=8-9-14

Max Horz 1=146(LC 5)

Max Uplift 4=-23(LC 5), 5=-120(LC 8)

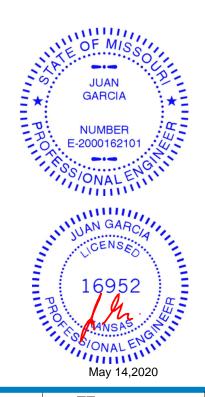
Max Grav 1=142(LC 1), 4=129(LC 1), 5=451(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

2-5=-351/180 **WEBS**

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Gable requires continuous bottom chord bearing.
- 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4 except (jt=lb) 5=120
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



Structural wood sheathing directly applied or 6-0-0 oc purlins,

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

except end verticals.



M WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.



Job Truss Truss Type Qty Lot 15 HT 141303243 Valley 400302 V6 Job Reference (optional)
8.240 s Mar 9 2020 MiTek Industries, Inc. Wed May 13 16:46:01 2020 Page 1 Wheeler Lumber, Waverly, KS 66871 ID:bWuMDBN0tjF5cDvSpwhpH1zCzbQ-4I2N2SGwj9keFBxixhixTwHEK7pc?Mdk6U26y0zGs5a 6-10-8 6-10-8 Scale = 1:17.8 2x4 | 2 5.00 12 0-0-4 2x4 = 2x4 ||

LOADING	· · ·		0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL 1	.15	TC	0.72	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL 1	.15	BC	0.39	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr Y	ES	WB	0.00	Horz(CT)	-0.00	3	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI20	14	Matri	x-P						Weight: 17 lb	FT = 10%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-TOP CHORD BOT CHORD

2x4 SPF No 2 2x4 SPF No.2

WEBS 2x3 SPF No.2

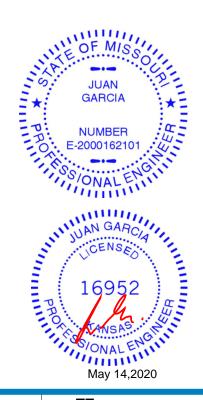
REACTIONS. 1=6-9-14, 3=6-9-14 (size)

Max Horz 1=110(LC 5) Max Uplift 1=-40(LC 8), 3=-62(LC 8) Max Grav 1=271(LC 1), 3=271(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

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) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Gable requires continuous bottom chord bearing.
- 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



Structural wood sheathing directly applied or 6-10-8 oc purlins,

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

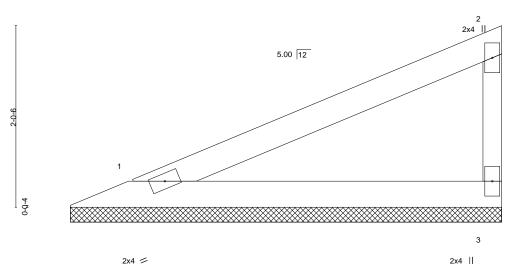
except end verticals.



MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.



Job Truss Truss Type Qty Lot 15 HT 141303244 Valley 400302 V7 Job Reference (optional)
8.240 s Mar 9 2020 MiTek Industries, Inc. Wed May 13 16:46:01 2020 Page 1 Wheeler Lumber, Waverly, KS 66871 ID:bWuMDBN0tjF5cDvSpwhpH1zCzbQ-4I2N2SGwj9keFBxixhixTwHLt7t9?Mdk6U26y0zGs5a 4-10-8



LOADING (psf) TCLL 25.0 TCDL 10.0 BCLL 0.0 *	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES	CSI. TC 0.30 BC 0.16 WB 0.00	DEFL. in (loc) Vert(LL) n/a - Vert(CT) n/a - Horz(CT) -0.00 3	l/defl L/d n/a 999 n/a 999 n/a n/a	PLATES GRIP MT20 197/144
BCDL 10.0	Code IRC2018/TPI2014	Matrix-P	, ,		Weight: 12 lb FT = 10%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

WEBS 2x3 SPF No.2

REACTIONS. 1=4-9-14, 3=4-9-14 (size) Max Horz 1=74(LC 5)

Max Uplift 1=-26(LC 8), 3=-41(LC 8)

Max Grav 1=181(LC 1), 3=181(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

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) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Gable requires continuous bottom chord bearing.
- 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



Structural wood sheathing directly applied or 4-10-8 oc purlins,

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

except end verticals.

Scale = 1:12.9



M WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.



Job Truss Truss Type Qty Lot 15 HT I41303245 Valley 400302 V8 Job Reference (optional)
8.240 s Mar 9 2020 MiTek Industries, Inc. Wed May 13 16:46:02 2020 Page 1 Wheeler Lumber, Waverly, KS 66871 ID:bWuMDBN0tjF5cDvSpwhpH1zCzbQ-YUclFoHYUSsVtKWvVPEA08qZFXFMkpttL8ofUSzGs5Z 2-10-8 2-10-8 Scale = 1:8.8 2x4 || 5.00 12 0-0-4 2x4 || 2x4 /

LOADIN	G (pst)	SPACING-	2-0-0	CSI.		DEFL.	ın	(loc)	I/defI	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.07	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.04	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.00	3	n/a	n/a		
BCDL	10.0	Code IRC2018/TP	12014	Matri	x-P						Weight: 6 lb	FT = 10%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

WEBS 2x3 SPF No.2

REACTIONS. 1=2-9-14, 3=2-9-14 (size)

Max Horz 1=37(LC 5) Max Uplift 1=-13(LC 8), 3=-21(LC 8) Max Grav 1=91(LC 1), 3=91(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

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) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Gable requires continuous bottom chord bearing.
- 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



Structural wood sheathing directly applied or 2-10-8 oc purlins,

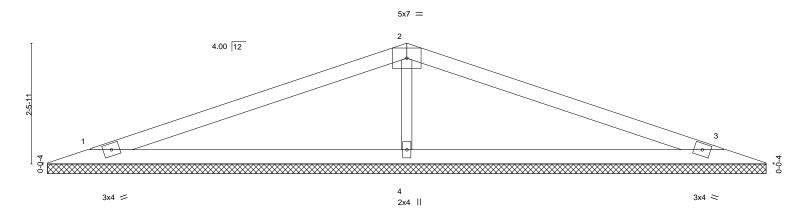
Rigid ceiling directly applied or 10-0-0 oc bracing.

except end verticals.



Job Truss Truss Type Lot 15 HT 141303246 Valley 400302 V9 Job Reference (optional)
8.240 s Mar 9 2020 MiTek Industries, Inc. Wed May 13 16:46:03 2020 Page 1 Wheeler Lumber, Waverly, KS 66871 ID:bWuMDBN0tjF5cDvSpwhpH1zCzbQ-0gA8S8IBFm_LUU5526IPYLNbWwVITFf1aoXD0uzGs5Y 7-5-0 7-5-0 7-5-0

Scale = 1:23.6



0-0 ₋ 12 0-0-12						14-10-0 14-9-4						
LOADING	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.61	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.35	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.09	Horz(CT)	0.00	3	n/a	n/a		
BCDL	10.0	Code IRC2018/TI	PI2014	Matri	x-S	, ,					Weight: 34 lb	FT = 10%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

OTHERS 2x3 SPF No.2

REACTIONS. 1=14-8-8, 3=14-8-8, 4=14-8-8 (size)

Max Horz 1=38(LC 8)

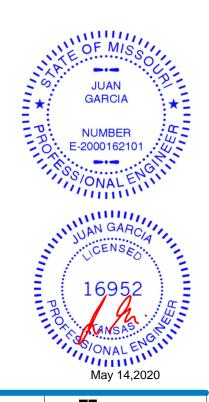
Max Uplift 1=-55(LC 4), 3=-60(LC 9), 4=-60(LC 4) Max Grav 1=261(LC 21), 3=261(LC 22), 4=660(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

2-4=-465/138 **WEBS**

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) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Gable requires continuous bottom chord bearing.
- 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3, 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.



Structural wood sheathing directly applied or 6-0-0 oc purlins.

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

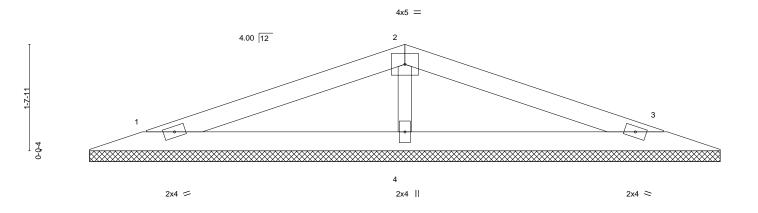


MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.



Job Truss Truss Type Lot 15 HT 141303247 Valley 400302 V10 Job Reference (optional)
8.240 s Mar 9 2020 MiTek Industries, Inc. Wed May 13 16:45:57 2020 Page 1 Wheeler Lumber, Waverly, KS 66871 ID:bWuMDBN0tjF5cDvSpwhpH1zCzbQ-BWotC5DQgwDCmZdxire?J47gFWVj3Yr8Bs4voEzGs5e 4-11-0

Scale = 1:17.7



	-0-12 -0-12		9-10-0 9-9-4									
LOADING (ps	sf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 25	5.0	Plate Grip DOL	1.15	TC	0.21	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL 10	0.0	Lumber DOL	1.15	BC	0.13	Vert(CT)	n/a	-	n/a	999		
BCLL 0	0.0 *	Rep Stress Incr	YES	WB	0.05	Horz(CT)	0.00	3	n/a	n/a		
BCDL 10	0.0	Code IRC2018/TF	PI2014	Matri	x-S						Weight: 21 lb	FT = 10%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

REACTIONS.

1=9-8-8, 3=9-8-8, 4=9-8-8 (size)

Max Horz 1=24(LC 8)

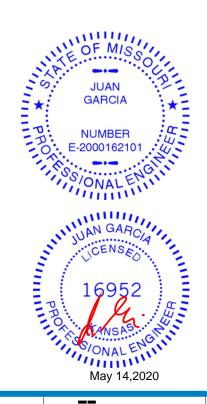
Max Uplift 1=-34(LC 4), 3=-37(LC 9), 4=-37(LC 4) Max Grav 1=160(LC 21), 3=160(LC 22), 4=405(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

2-4=-285/84 **WEBS**

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) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Gable requires continuous bottom chord bearing.
- 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3, 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.



Structural wood sheathing directly applied or 6-0-0 oc purlins.

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



MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

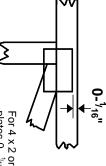


Symbols

PLATE LOCATION AND ORIENTATION



offsets are indicated. Center plate on joint unless x, y and fully embed teeth Apply plates to both sides of truss Dimensions are in ft-in-sixteenths.



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

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

* Plate location details available in MiTek 20/20 software or upon request

PLATE SIZE



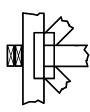
to slots. Second dimension is width measured perpendicular the length parallel to slots. The first dimension is the plate

LATERAL BRACING LOCATION



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

BEARING



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

Industry Standards:

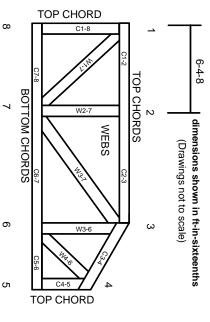
Guide to Good Practice for Handling **Building Component Safety Information** Design Standard for Bracing. Connected Wood Trusses. Installing & Bracing of Metal Plate

ANSI/TPI1:

National Design Specification for Metal Plate Connected Wood Truss Construction.

DSB-89:

Numbering System



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

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

PRODUCT CODE APPROVALS

ICC-ES Reports:

ESR-1311, ESR-1352, ESR1988 ER-3907, ESR-2362, ESR-1397, ESR-3282

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

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

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MiTek Engineering Reference Sheet: MII-7473 rev. 10/03/2015

General Safety Notes

Damage or Personal Injury Failure to Follow Could Cause Property

- Ņ Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI Truss bracing must be designed by an engineer. For
- bracing should be considered may require bracing, or alternative Tor I wide truss spacing, individual lateral braces themselves
- Never exceed the design loading shown and never stack materials on inadequately braced trusses.
- designer, erection supervisor, property owner and all other interested parties. Provide copies of this truss design to the building
- Cut members to bear tightly against each other

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- Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TPI 1.
- 7. Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI 1.
- Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.

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- Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
- 10. Camber is a non-structural consideration and is the camber for dead load deflection responsibility of truss fabricator. General practice is to
- 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
- 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.
- Do not cut or alter truss member or plate without prior approval of an engineer
- 17. Install and load vertically unless indicated otherwise
- Use of green or treated lumber may pose unacceptable project engineer before use. environmental, health or performance risks. Consult with
- 19. Review all portions of this design (front, back, words is not sufficient. and pictures) before use. Reviewing pictures alone
- 20. Design assumes manufacture in accordance with ANSI/TPI 1 Quality Criteria.