



RE: 400370
Lot 24 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
Wind Code: N/A
Roof Load: 45.0 psf

Design Program: MiTek 20/20 8.2
Wind Speed: 115 mph
Floor Load: N/A psf

This package includes 88 individual, dated Truss Design Drawings and 0 Additional Drawings.

No.	Seal#	Truss Name	Date	No.	Seal#	Truss Name	Date
1	I39252173	A1	6/25/2020	27	I39252199	H1	6/25/2020
2	I39252174	A2	6/25/2020	28	I39252200	H2	6/25/2020
3	I39252175	A3	6/25/2020	29	I39252201	H3	6/25/2020
4	I39252176	B1	6/25/2020	30	I39252202	J1	6/25/2020
5	I39252177	B2	6/25/2020	31	I39252203	J2	6/25/2020
6	I39252178	B3	6/25/2020	32	I39252204	J3	6/25/2020
7	I39252179	B4	6/25/2020	33	I39252205	J4	6/25/2020
8	I39252180	B5	6/25/2020	34	I39252206	J5	6/25/2020
9	I39252181	B6	6/25/2020	35	I39252207	J7	6/25/2020
10	I39252182	C1	6/25/2020	36	I39252208	J8	6/25/2020
11	I39252183	C2	6/25/2020	37	I39252209	J9	6/25/2020
12	I39252184	D1	6/25/2020	38	I39252210	J10	6/25/2020
13	I39252185	D2	6/25/2020	39	I39252211	J11	6/25/2020
14	I39252186	D3	6/25/2020	40	I39252212	J12	6/25/2020
15	I39252187	D4	6/25/2020	41	I39252213	J13	6/25/2020
16	I39252188	D5	6/25/2020	42	I39252214	J14	6/25/2020
17	I39252189	D6	6/25/2020	43	I39252215	J16	6/25/2020
18	I39252190	E1	6/25/2020	44	I39252216	J17	6/25/2020
19	I39252191	E2	6/25/2020	45	I39252217	J18	6/25/2020
20	I39252192	E3	6/25/2020	46	I39252218	J21	6/25/2020
21	I39252193	E4	6/25/2020	47	I39252219	J22	6/25/2020
22	I39252194	E5	6/25/2020	48	I39252220	J23	6/25/2020
23	I39252195	E6	6/25/2020	49	I39252221	J24	6/25/2020
24	I39252196	G1	6/25/2020	50	I39252222	J25	6/25/2020
25	I39252197	G2	6/25/2020	51	I39252223	J26	6/25/2020
26	I39252198	G3	6/25/2020	52	I39252224	J27	6/25/2020

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.



June 25, 2020



RE: 400370 - Lot 24 HT

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

Site Information:

Project Customer: Project Name:
Lot/Block:
Address:
City, County:

Subdivision:

State:

No.	Seal#	Truss Name	Date
53	I39252225	J28	6/25/2020
54	I39252226	J29	6/25/2020
55	I39252227	J30	6/25/2020
56	I39252228	J31	6/25/2020
57	I39252229	J32	6/25/2020
58	I39252230	J33	6/25/2020
59	I39252231	J34	6/25/2020
60	I39252232	J35	6/25/2020
61	I39252233	J36	6/25/2020
62	I39252234	J37	6/25/2020
63	I39252235	J38	6/25/2020
64	I39252236	J39	6/25/2020
65	I39252237	J41	6/25/2020
66	I39252238	J42	6/25/2020
67	I39252239	J43	6/25/2020
68	I39252240	J44	6/25/2020
69	I39252241	J45	6/25/2020
70	I39252242	J46	6/25/2020
71	I39252243	J47	6/25/2020
72	I39252244	J48	6/25/2020
73	I39252245	J49	6/25/2020
74	I39252246	K1	6/25/2020
75	I39252247	K2	6/25/2020
76	I39252248	K3	6/25/2020
77	I39252249	LAY2	6/25/2020
78	I39252250	LAY3	6/25/2020
79	I39252251	LAY4	6/25/2020
80	I39252252	LAY5	6/25/2020
81	I39252253	LAY6	6/25/2020
82	I39252254	LAY7	6/25/2020
83	I39252255	LAY8	6/25/2020
84	I39252256	LAY9	6/25/2020
85	I39252257	R1	6/25/2020
86	I39252258	V1	6/25/2020
87	I39252259	V2	6/25/2020
88	I39252260	V3	6/25/2020



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Lot 24 HT

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Chesterfield, MO 63017
314-434-1200

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

Design Code: IRC2018/TPI2014
Wind Code: N/A
Roof Load: 45.0 psf

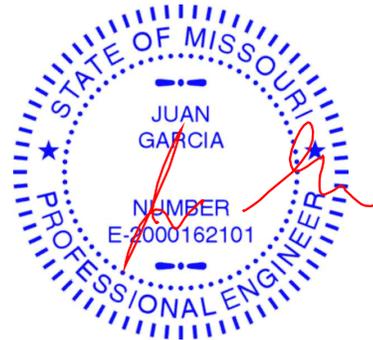
Design Program: MiTek 20/20 8.2
Wind Speed: 115 mph
Floor Load: N/A psf

This package includes 88 individual, dated Truss Design Drawings and 0 Additional Drawings.

No.	Seal#	Truss Name	Date	No.	Seal#	Truss Name	Date
1	I39252173	A1	6/25/2020	27	I39252199	H1	6/25/2020
2	I39252174	A2	6/25/2020	28	I39252200	H2	6/25/2020
3	I39252175	A3	6/25/2020	29	I39252201	H3	6/25/2020
4	I39252176	B1	6/25/2020	30	I39252202	J1	6/25/2020
5	I39252177	B2	6/25/2020	31	I39252203	J2	6/25/2020
6	I39252178	B3	6/25/2020	32	I39252204	J3	6/25/2020
7	I39252179	B4	6/25/2020	33	I39252205	J4	6/25/2020
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9	I39252181	B6	6/25/2020	35	I39252207	J7	6/25/2020
10	I39252182	C1	6/25/2020	36	I39252208	J8	6/25/2020
11	I39252183	C2	6/25/2020	37	I39252209	J9	6/25/2020
12	I39252184	D1	6/25/2020	38	I39252210	J10	6/25/2020
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14	I39252186	D3	6/25/2020	40	I39252212	J12	6/25/2020
15	I39252187	D4	6/25/2020	41	I39252213	J13	6/25/2020
16	I39252188	D5	6/25/2020	42	I39252214	J14	6/25/2020
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19	I39252191	E2	6/25/2020	45	I39252217	J18	6/25/2020
20	I39252192	E3	6/25/2020	46	I39252218	J21	6/25/2020
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23	I39252195	E6	6/25/2020	49	I39252221	J24	6/25/2020
24	I39252196	G1	6/25/2020	50	I39252222	J25	6/25/2020
25	I39252197	G2	6/25/2020	51	I39252223	J26	6/25/2020
26	I39252198	G3	6/25/2020	52	I39252224	J27	6/25/2020

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 Missouri is December 31, 2020. Missouri COA: 001193

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June 25, 2020



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16023 Swingley Ridge Rd
Chesterfield, MO 63017
314-434-1200

Site Information:

Project Customer: Project Name:
Lot/Block:
Address:
City, County:

Subdivision:

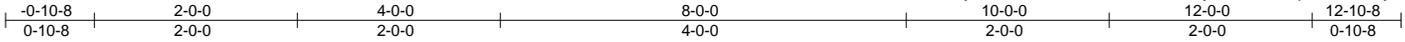
State:

No.	Seal#	Truss Name	Date
53	I39252225	J28	6/25/2020
54	I39252226	J29	6/25/2020
55	I39252227	J30	6/25/2020
56	I39252228	J31	6/25/2020
57	I39252229	J32	6/25/2020
58	I39252230	J33	6/25/2020
59	I39252231	J34	6/25/2020
60	I39252232	J35	6/25/2020
61	I39252233	J36	6/25/2020
62	I39252234	J37	6/25/2020
63	I39252235	J38	6/25/2020
64	I39252236	J39	6/25/2020
65	I39252237	J41	6/25/2020
66	I39252238	J42	6/25/2020
67	I39252239	J43	6/25/2020
68	I39252240	J44	6/25/2020
69	I39252241	J45	6/25/2020
70	I39252242	J46	6/25/2020
71	I39252243	J47	6/25/2020
72	I39252244	J48	6/25/2020
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74	I39252246	K1	6/25/2020
75	I39252247	K2	6/25/2020
76	I39252248	K3	6/25/2020
77	I39252249	LAY2	6/25/2020
78	I39252250	LAY3	6/25/2020
79	I39252251	LAY4	6/25/2020
80	I39252252	LAY5	6/25/2020
81	I39252253	LAY6	6/25/2020
82	I39252254	LAY7	6/25/2020
83	I39252255	LAY8	6/25/2020
84	I39252256	LAY9	6/25/2020
85	I39252257	R1	6/25/2020
86	I39252258	V1	6/25/2020
87	I39252259	V2	6/25/2020
88	I39252260	V3	6/25/2020

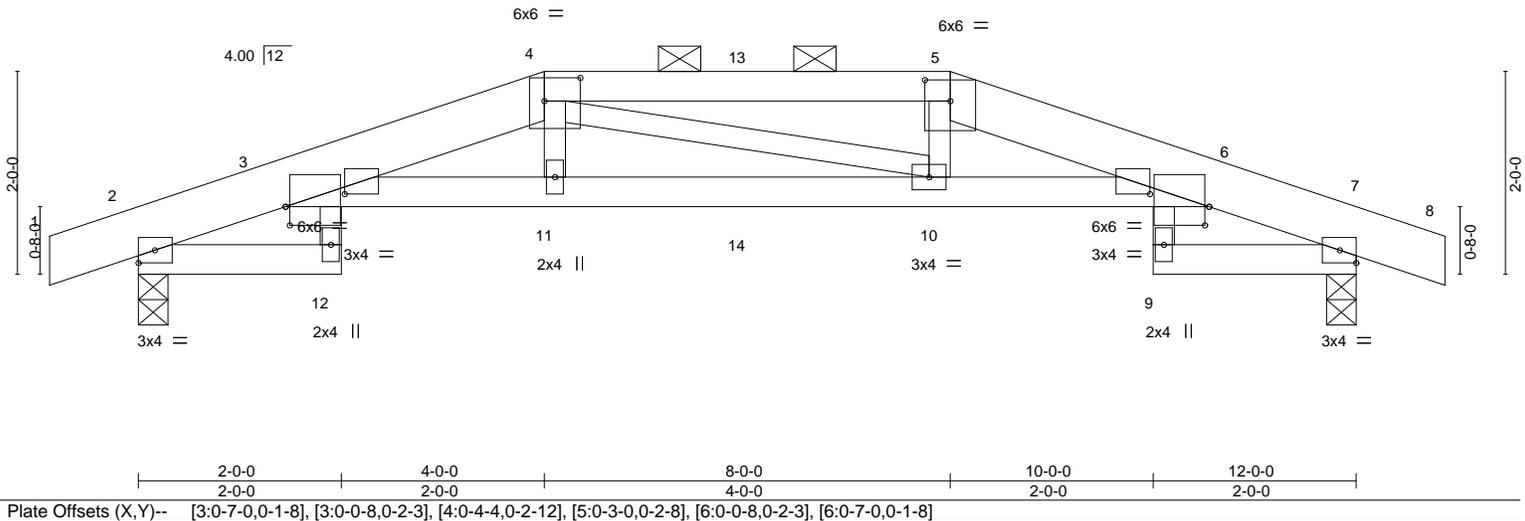
Job 400370	Truss A1	Truss Type Hip Girder	Qty 1	Ply 1	Lot 24 HT	I39252173
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Wheeler Lumber, Waverly, KS 66871

8.240 s Jul 27 2019 MiTek Industries, Inc. Tue Nov 12 14:06:59 2019 Page 1
 ID: XxAsF4MdGikvF3O7A2bzF0yH?NM-xBS8UvLaiouU29Neiwy3s5hmNzvxpL3v0E0cXyJvCQ



Scale = 1:22.6



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 25.0	2-0-0	TC 0.88	in (loc) l/defl L/d	MT20	197/144
TCDL 10.0	Plate Grip DOL 1.15	BC 0.90	Vert(LL) -0.14 10-11 >999 360		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.11	Vert(CT) -0.25 10-11 >563 240		
BCDL 10.0	Rep Stress Incr NO	Matrix-S	Horz(CT) 0.19 7 n/a n/a		
	Code IRC2018/TPI2014		Wind(LL) 0.12 10-11 >999 240	Weight: 43 lb	FT = 10%

LUMBER-	BRACING-
TOP CHORD 2x6 SPF No.2 *Except* 4-5: 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied or 3-0-12 oc purlins, except 2-0-0 oc purlins (3-3-0 max.): 4-5.
BOT CHORD 2x4 SPF No.2 *Except* 3-12,6-9: 2x3 SPF No.2	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 2x3 SPF No.2	

REACTIONS. (lb/size) 2=916/0-3-8, 7=916/0-3-8
 Max Horz 2=30(LC 29)
 Max Uplift 2=-233(LC 4), 7=-233(LC 5)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-419/120, 3-4=-2566/613, 4-13=-2612/623, 5-13=-2614/623, 5-6=-2659/619,
 6-7=-419/117
 BOT CHORD 3-11=-565/2486, 11-14=-569/2517, 10-14=-569/2517, 6-10=-563/2584
 WEBS 4-11=-43/313, 5-10=-44/295

- 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) All bearings are assumed to be SPF No.2 crushing capacity of 425 psi.
 - 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 233 lb uplift at joint 2 and 233 lb uplift at joint 7.
 - 8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - 10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 79 lb down and 48 lb up at 4-0-0, and 79 lb down and 48 lb up at 6-0-0, and 79 lb down and 48 lb up at 8-0-0 on top chord, and 240 lb down and 99 lb up at 4-0-0, and 44 lb down and 25 lb up at 6-0-0, and 240 lb down and 99 lb up at 7-11-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
 - 11) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15



November 12, 2019

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.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



Job	Truss	Truss Type	Qty	Ply	Lot 24 HT	I39252173
400370	A1	Hip Girder	1	1	Job Reference (optional)	

Wheeler Lumber, Waverly, KS 66871

8.240 s Jul 27 2019 MiTek Industries, Inc. Tue Nov 12 14:06:59 2019 Page 2
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LOAD CASE(S) Standard

Uniform Loads (plf)

Vert: 1-3=-70, 3-4=-70, 4-5=-70, 5-6=-70, 6-8=-70, 2-12=-20, 3-6=-20, 7-9=-20

Concentrated Loads (lb)

Vert: 4=-30(F) 5=-30(F) 11=-240(F) 10=-240(F) 13=-30(F) 14=-44(F)

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

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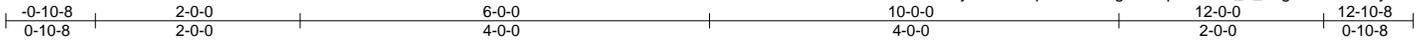
16023 Swingley Ridge Rd
 Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Lot 24 HT	139252174
400370	A2	Roof Special	1	1		

Wheeler Lumber, Waverly, KS 66871

8.240 s Jul 14 2019 MiTek Industries, Inc. Tue Nov 12 11:06:47 2019 Page 1

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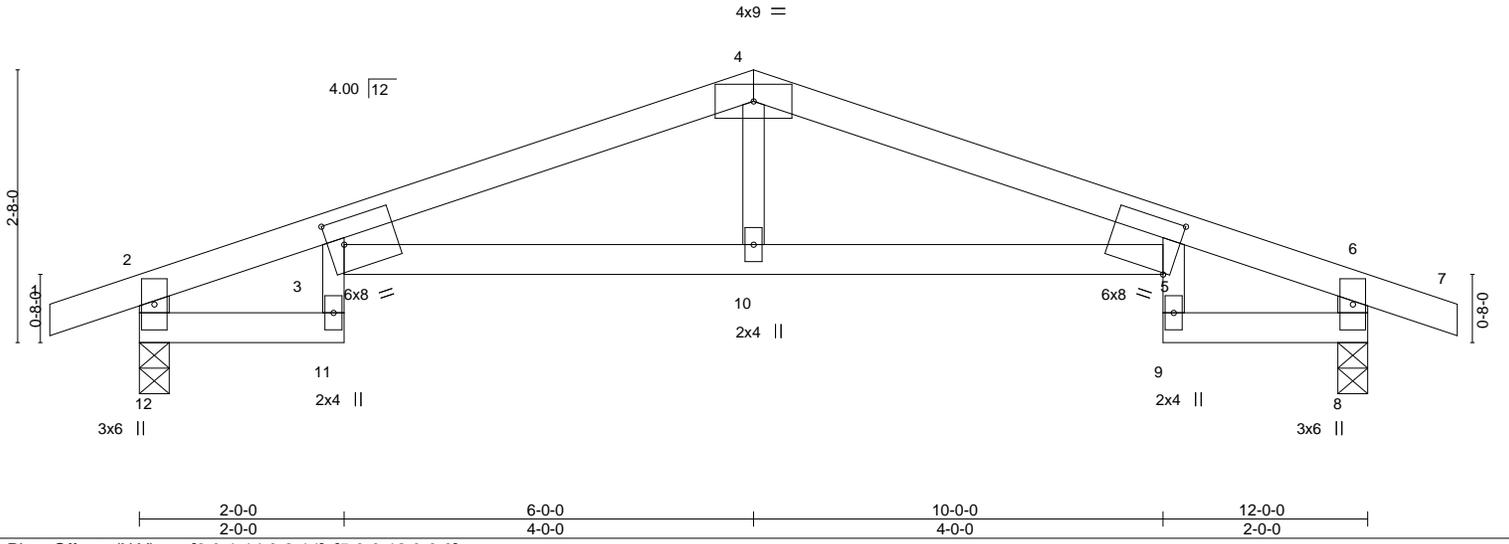


Plate Offsets (X,Y)--	[3:0-1-14,0-2-14], [5:0-0-12,0-6-3]
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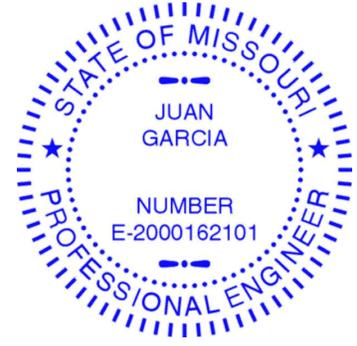
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.86	Vert(LL)	-0.25	3-10	>563	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.82	Vert(CT)	-0.45	3-10	>310		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.06	Horz(CT)	0.47	8	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-R	Wind(LL)	0.18	3-10	>786	Weight: 33 lb	FT = 10%

LUMBER-	BRACING-
TOP CHORD 2x4 SPF 2100F 1.8E	TOP CHORD Structural wood sheathing directly applied or 3-1-0 oc purlins, except end verticals.
BOT CHORD 2x4 SPF No.2 *Except* 3-11,5-9; 2x3 SPF No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SPF No.2 *Except* 4-10: 2x3 SPF No.2	

REACTIONS. (lb/size) 12=598/0-3-8, 8=598/0-3-8
 Max Horz 12=26(LC 12)
 Max Uplift 12=-121(LC 4), 8=-121(LC 5)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 3-4=-1145/124, 4-5=-1145/135, 2-12=-640/140, 6-8=-640/136
 BOT CHORD 3-10=-74/1093, 5-10=-75/1093

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 12=121, 8=121.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



November 12, 2019

Job 400370	Truss A3	Truss Type Roof Special	Qty 2	Ply 1	Lot 24 HT	I39252175
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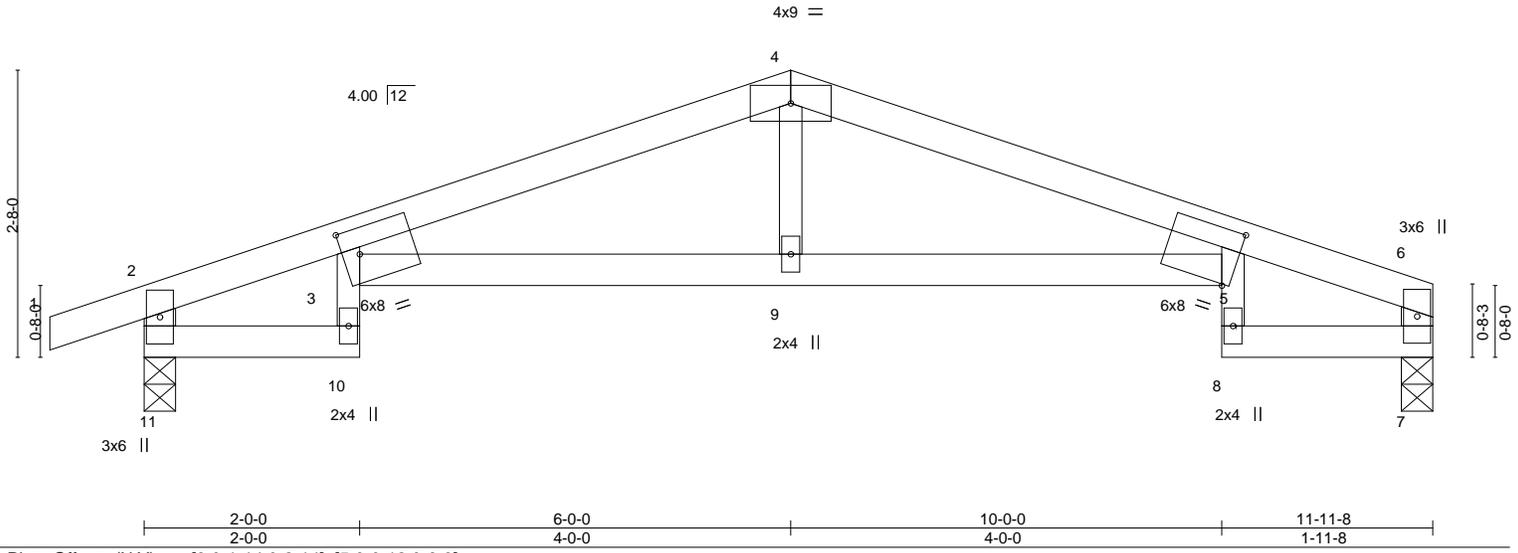
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8.240 s Jul 14 2019 MiTek Industries, Inc. Tue Nov 12 11:06:47 2019 Page 1

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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 0.87	Vert(LL)	-0.25	5-9	>558	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.83	Vert(CT)	-0.45	3-9	>309		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.06	Horz(CT)	0.48	7	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-R	Wind(LL)	0.18	3-9	>768	Weight: 32 lb	FT = 10%

LUMBER-	BRACING-
TOP CHORD 2x4 SPF 2100F 1.8E	TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
BOT CHORD 2x4 SPF No.2 *Except* 3-10,5-8; 2x3 SPF No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SPF No.2 *Except* 4-9: 2x3 SPF No.2	

REACTIONS. (lb/size) 11=600/0-3-8, 7=522/0-3-8
 Max Horz 11=32(LC 12)
 Max Uplift 11=121(LC 4), 7=-76(LC 5)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 3-4=-1151/140, 4-5=-1151/140, 2-11=-642/142, 6-7=-561/96
 BOT CHORD 3-9=-87/1098, 5-9=-87/1098

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 7 except (jt=lb) 11=121.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



November 12, 2019

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/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.



Job	Truss	Truss Type	Qty	Ply	Lot 24 HT	139252176
400370	B1	Hip Girder	1	1		

Wheeler Lumber, Waverly, KS 66871

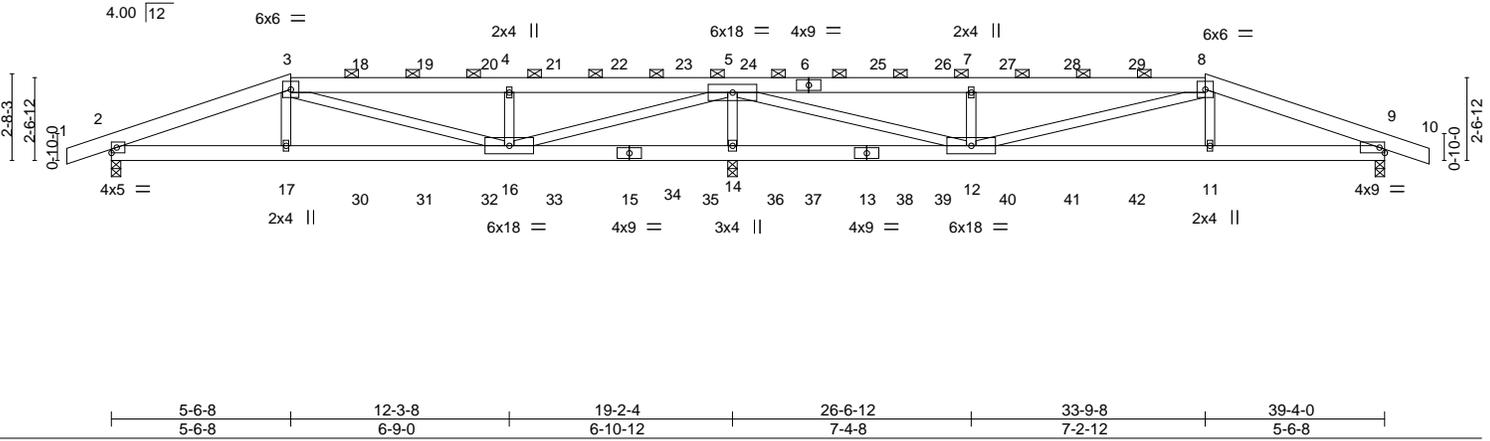
8.240 s Jul 14 2019 MiTek Industries, Inc. Tue Nov 12 11:06:49 2019 Page 1

ID:XXAsF4MdGikvF3O7A2bzF0yH?NM-ZDHdOGawO2bOOnbuxqSnKINMboWm8bzw9Ce?C5yJxrK

Job Reference (optional)



Scale = 1:70.8



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 0.76	Vert(LL)	-0.14 11-12	>999	360	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.90	Vert(CT)	-0.28 11-12	>868	240		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.96	Horz(CT)	0.04 9	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-S	Wind(LL)	0.10 11-12	>999	240		
								Weight: 193 lb	FT = 10%

LUMBER-
 TOP CHORD 2x6 SPF No.2
 BOT CHORD 2x6 SPF No.2 *Except*
 13-15: 2x6 SP 2400F 2.0E
 WEBS 2x4 SPF No.2 *Except*
 5-12,8-12: 2x4 SPF 2100F 1.8E

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 4-2-5 oc purlins, except 2-0-0 oc purlins (3-10-3 max.): 3-8.
 BOT CHORD Rigid ceiling directly applied or 5-3-0 oc bracing.

REACTIONS. (lb/size) 2=1276/0-3-8, 14=3729/0-3-8, 9=1367/0-3-8
 Max Horz 2=40(LC 33)
 Max Uplift 2=-252(LC 4), 14=-411(LC 4), 9=-264(LC 5)
 Max Grav 2=1280(LC 21), 14=3729(LC 1), 9=1370(LC 22)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-2647/366, 3-4=-1820/256, 4-5=-1816/255, 5-7=-2236/309, 7-8=-2240/311, 8-9=-2904/397
 BOT CHORD 2-17=-309/2396, 16-17=-311/2360, 14-16=-1934/265, 12-14=-1934/265, 11-12=-310/2600, 9-11=-308/2636
 WEBS 3-17=0/579, 3-16=-585/137, 4-16=-791/266, 5-16=-465/3896, 5-14=-3275/545, 5-12=-502/4316, 7-12=-872/290, 8-12=-392/121, 8-11=0/597

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TC DL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=252, 14=411, 9=264.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 120 lb down and 55 lb up at 5-6-8, 104 lb down and 55 lb up at 7-8-0, 104 lb down and 55 lb up at 9-8-0, 104 lb down and 55 lb up at 11-8-0, 104 lb down and 55 lb up at 13-8-0, 104 lb down and 55 lb up at 15-8-0, 104 lb down and 55 lb up at 17-8-0, 104 lb down and 55 lb up at 19-8-0, 104 lb down and 55 lb up at 21-8-0, 104 lb down and 55 lb up at 23-8-0, 104 lb down and 55 lb up at 25-8-0, 104 lb down and 55 lb up at 27-8-0, 104 lb down and 55 lb up at 29-8-0, and 104 lb down and 55 lb up at 31-8-0, and 120 lb down and 55 lb up at 33-9-8 on top chord, and 331 lb down and 87 lb up at 5-6-8, 62 lb down at 7-8-0, 62 lb down at 9-8-0, 62 lb down at 11-8-0, 62 lb down at 13-8-0, 62 lb down at 15-8-0, 62 lb down at 17-8-0, 62 lb down at 19-8-0, 62 lb down at 21-8-0, 62 lb down at 23-8-0, 62 lb down at 25-8-0, 62 lb down at 27-8-0, 62 lb down at 29-8-0, and 62 lb down at 31-8-0, and 331 lb down and 87 lb up at 33-8-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.



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WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.
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Job 400370	Truss B1	Truss Type Hip Girder	Qty 1	Ply 1	Lot 24 HT Job Reference (optional)	I39252176
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Wheeler Lumber, Waverly, KS 66871

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NOTES-

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: 1-3=-70, 3-8=-70, 8-10=-70, 2-9=-20

Concentrated Loads (lb)

Vert: 3=-97(B) 6=-97(B) 17=-331(B) 8=-97(B) 11=-331(B) 18=-97(B) 19=-97(B) 20=-97(B) 21=-97(B) 22=-97(B) 23=-97(B) 24=-97(B) 25=-97(B) 26=-97(B)

27=-97(B) 28=-97(B) 29=-97(B) 30=-41(B) 31=-41(B) 32=-41(B) 33=-41(B) 34=-41(B) 35=-41(B) 36=-41(B) 37=-41(B) 38=-41(B) 39=-41(B) 40=-41(B) 41=-41(B)

42=-41(B)

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

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Lot 24 HT	139252177
400370	B2	Hip	1	1		

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Job Reference (optional)



Scale = 1:70.8

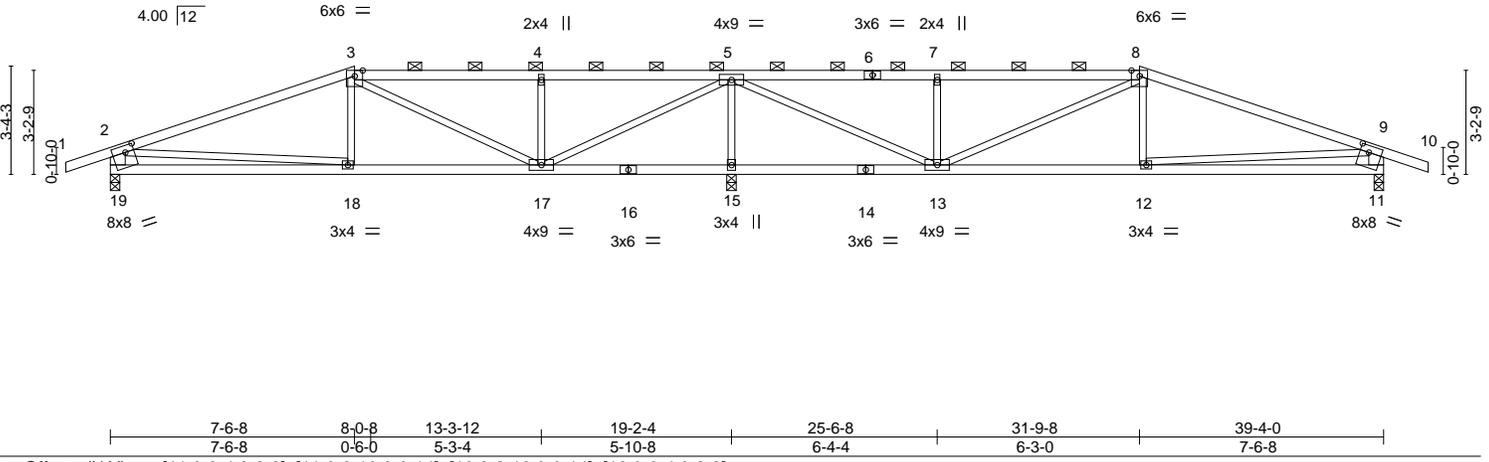


Plate Offsets (X, Y)--	[11:0-3-4,0-2-8], [11:0-2-10,0-0-14], [19:0-2-10,0-0-14], [19:0-3-4,0-2-8]				
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL 1.15	TC 0.71	Vert(LL) -0.07 11-12 >999 360	MT20	197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.44	Vert(CT) -0.16 11-12 >999 240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.60	Horz(CT) 0.02 11 n/a n/a		
BCDL 10.0	Code IRC2018/TPI2014	Matrix-S	Wind(LL) 0.05 12-13 >999 240	Weight: 139 lb	FT = 10%

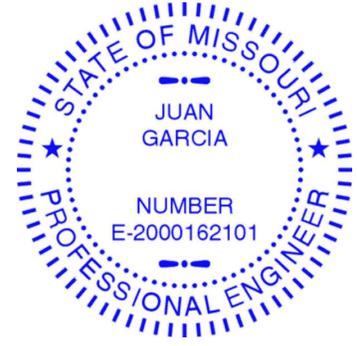
LUMBER-
 TOP CHORD 2x4 SPF No.2
 BOT CHORD 2x4 SPF No.2
 WEBS 2x3 SPF No.2 *Except*
 2-19,9-11: 2x6 SPF No.2

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 4-2-9 oc purlins, except end verticals, and 2-0-0 oc purlins (5-11-3 max.): 3-8.
 BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (lb/size) 19=824/0-3-8, 15=2025/0-3-8, 11=874/0-3-8
 Max Horz 19=31(LC 12)
 Max Uplift 19=206(LC 4), 15=350(LC 4), 11=217(LC 5)
 Max Grav 19=830(LC 21), 15=2025(LC 1), 11=880(LC 22)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-1135/212, 3-4=-624/185, 4-5=-622/183, 5-7=-792/223, 7-8=-794/225,
 8-9=-1264/240, 2-19=-762/247, 9-11=-811/257
 BOT CHORD 18-19=-207/580, 17-18=-145/990, 15-17=-824/175, 13-15=-824/175, 12-13=-146/1113,
 11-12=-180/588
 WEBS 2-18=0/474, 3-18=0/254, 3-17=-430/56, 4-17=-431/175, 5-17=-287/1583,
 5-15=-1877/420, 5-13=-314/1749, 7-13=-478/194, 8-13=-370/48, 8-12=0/253,
 9-12=-5/586

- 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) 19=206, 15=350, 11=217.
 - 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.



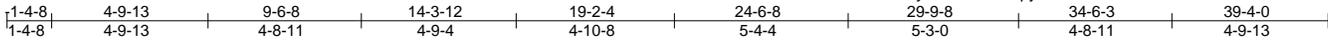
November 12, 2019

Job	Truss	Truss Type	Qty	Ply	Lot 24 HT	139252178
400370	B3	Hip	1	1		

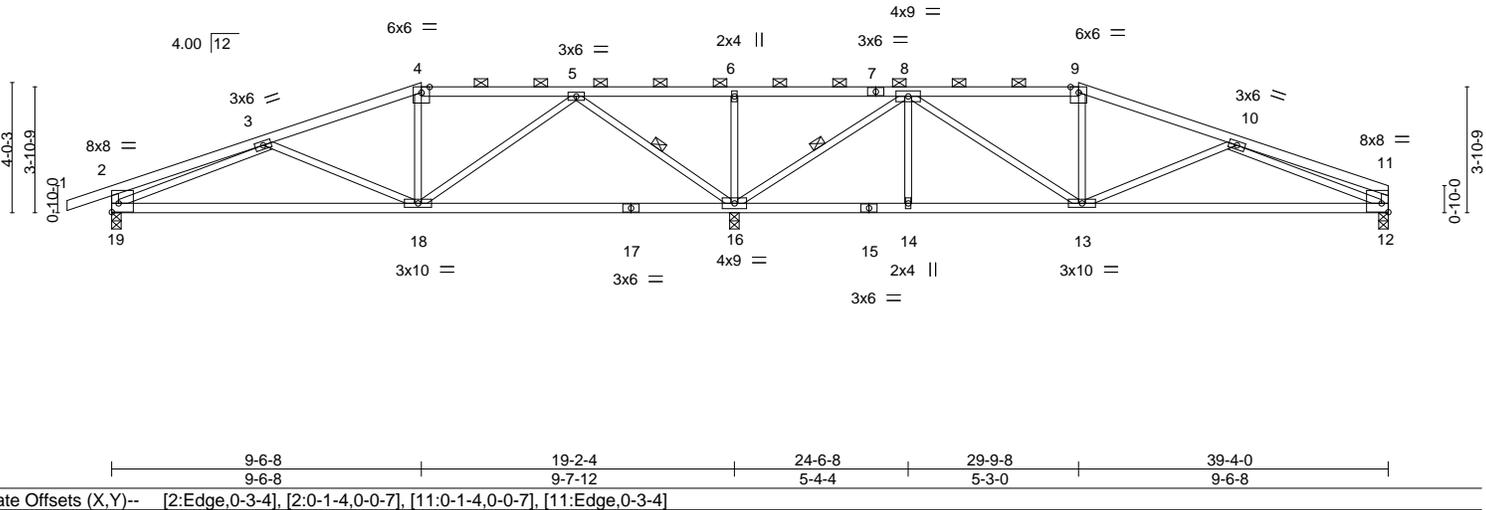
Wheeler Lumber, Waverly, KS 66871

8.240 s Jul 14 2019 MiTek Industries, Inc. Tue Nov 12 11:06:51 2019 Page 1

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Scale = 1:70.6



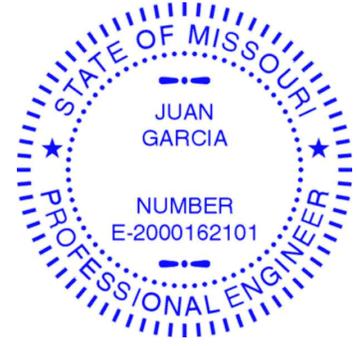
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.54	Vert(LL)	-0.20	12-13	>999	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.74	Vert(CT)	-0.41	12-13	>588		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.66	Horz(CT)	0.04	12	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-S	Wind(LL)	0.04	13	>999	Weight: 140 lb	FT = 10%

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied or 5-7-13 oc purlins, except end verticals, and 2-0-0 oc purlins (5-11-3 max.): 4-9.
BOT CHORD 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x3 SPF No.2	WEBS 1 Row at midpt 5-16, 8-16

REACTIONS. (lb/size) 16=2156/0-3-8, 19=762/0-3-8, 12=707/0-3-8
 Max Horz 19=52(LC 12)
 Max Uplift 16=-371(LC 4), 19=-186(LC 4), 12=-133(LC 5)
 Max Grav 16=2156(LC 1), 19=791(LC 21), 12=734(LC 22)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-303/20, 3-4=-822/138, 4-5=-734/155, 5-6=-139/1001, 6-8=-139/1001, 8-9=-865/197, 9-10=-961/183, 10-11=-341/10, 2-19=-342/128
 BOT CHORD 18-19=-230/1028, 14-16=-14/346, 13-14=-14/346, 12-13=-259/1166
 WEBS 3-18=-339/210, 5-18=-60/733, 5-16=-1326/303, 6-16=-365/146, 8-16=-1490/310, 8-13=-81/671, 10-13=-344/212, 3-19=-873/253, 10-12=-976/304

- 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) 16=371, 19=186, 12=133.
 - 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.



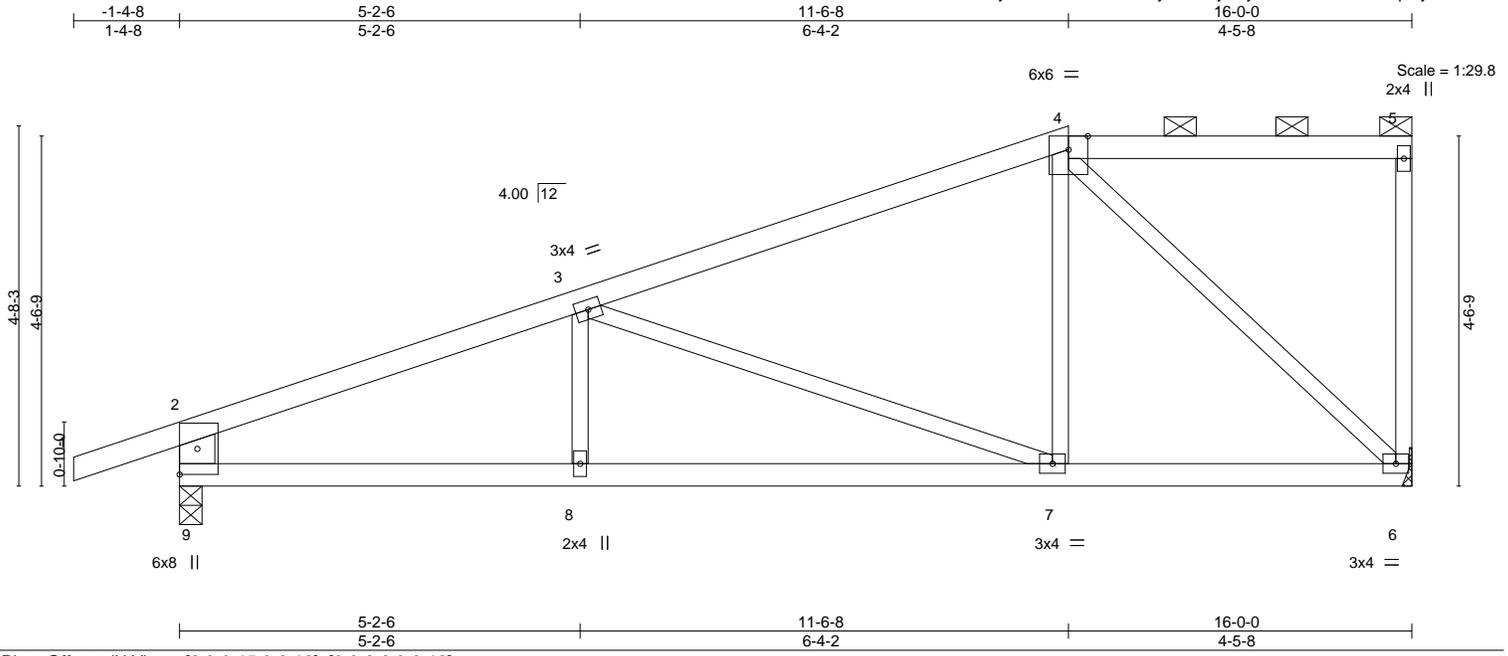
November 12, 2019

Job	Truss	Truss Type	Qty	Ply	Lot 24 HT	139252179
400370	B4	Half Hip	1	1		

Wheeler Lumber, Waverly, KS 66871

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LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 25.0	2-0-0	TC 0.86	in (loc) l/defl L/d	MT20	197/144
TCDL 10.0	Plate Grip DOL 1.15	BC 0.79	Vert(LL) -0.12 7-8 >999 360		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.72	Vert(CT) -0.22 7-8 >840 240		
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Horz(CT) 0.02 6 n/a n/a		
	Code IRC2018/TPI2014		Wind(LL) 0.09 7-8 >999 240	Weight: 58 lb	FT = 10%

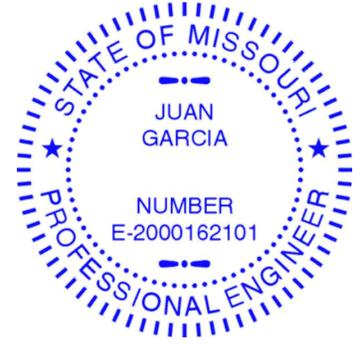
LUMBER-
 TOP CHORD 2x4 SPF No.2
 BOT CHORD 2x4 SPF No.2
 WEBS 2x3 SPF No.2 *Except*
 2-9: 2x6 SP DSS

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 3-0-7 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 4-5.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 6=699/Mechanical, 9=823/0-3-8
 Max Horz 9=197(LC 5)
 Max Uplift 6=-139(LC 4), 9=-192(LC 4)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-1179/202, 3-4=-661/136, 2-9=-713/205
 BOT CHORD 8-9=-205/1043, 7-8=-205/1043, 6-7=-104/558
 WEBS 3-7=-507/170, 4-7=0/371, 4-6=-778/153

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 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.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (it=lb) 6=139, 9=192.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



November 12, 2019

Job 400370	Truss B5	Truss Type Roof Special Girder	Qty 1	Ply 1	Lot 24 HT Job Reference (optional)	I39252180
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Wheeler Lumber, Waverly, KS 66871

8.240 s Jul 14 2019 MiTek Industries, Inc. Tue Nov 12 11:06:53 2019 Page 1
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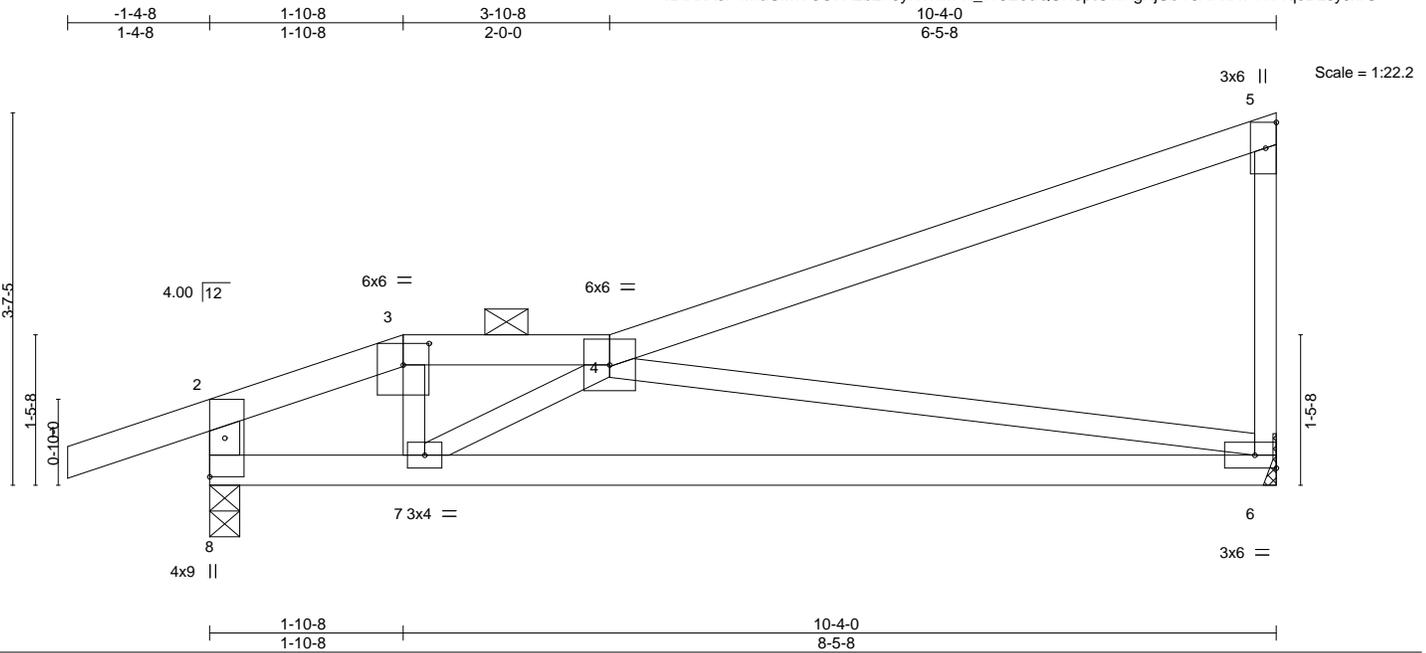


Plate Offsets (X,Y)--	[2:0-0-9,0-1-12], [3:0-3-0,0-2-8], [8:0-0-0,0-1-12]				
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL 1.15	TC 0.66	Vert(LL) -0.15 6-7 >812 360	MT20	197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.65	Vert(CT) -0.31 6-7 >388 240		
BCLL 0.0 *	Rep Stress Incr NO	WB 0.96	Horz(CT) 0.01 6 n/a n/a		
BCDL 10.0	Code IRC2018/TPI2014	Matrix-S	Wind(LL) 0.04 6-7 >999 240	Weight: 36 lb	FT = 10%

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 3-4.
BOT CHORD 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x3 SPF No.2 *Except* 2-8: 2x4 SPF No.2	

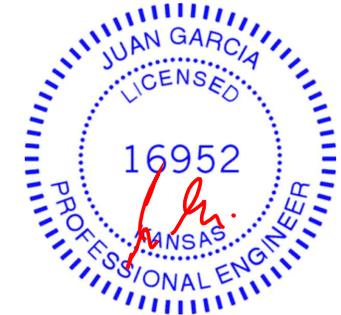
REACTIONS. (lb/size) 6=444/Mechanical, 8=561/0-3-8
Max Horz 8=153(LC 5)
Max Uplift 6=-97(LC 8), 8=-161(LC 4)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-585/44, 3-4=-509/45, 2-8=-513/118
BOT CHORD 7-8=-82/481, 6-7=-239/919
WEBS 3-7=-16/332, 4-7=-484/237, 4-6=-893/270

- NOTES-**
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TC DL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 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.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6 except (jt=lb) 8=161.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 109 lb down and 78 lb up at 1-10-8 on top chord, and 14 lb down and 9 lb up at 1-10-8 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
 - In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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, 6-8=-20
Concentrated Loads (lb)
Vert: 7=9(F)



November 12, 2019

Job 400370	Truss B6	Truss Type Roof Special	Qty 1	Ply 1	Lot 24 HT	I39252181
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Wheeler Lumber, Waverly, KS 66871

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ID: XxAsF4MdGikvF3O7A2bzF0yH?NM-R_W8EedQSH5ptOvfAgXjUbY6qP0B4YHW4qcDLsyJxrG

Job Reference (optional)

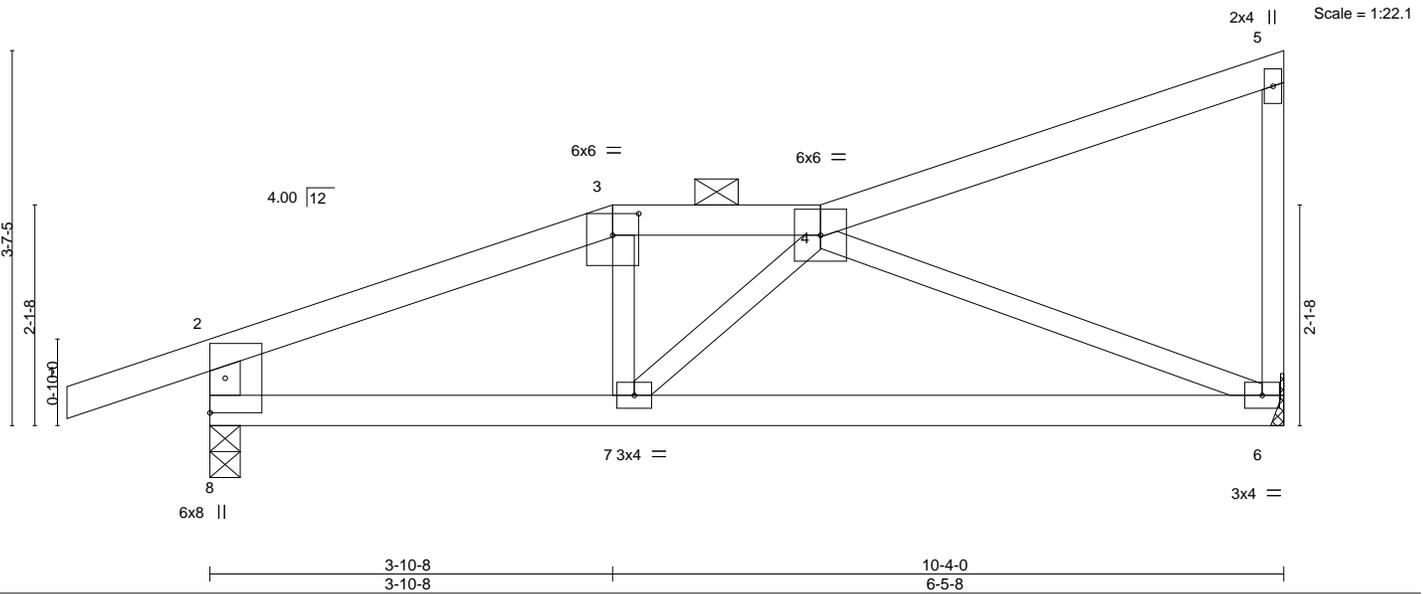
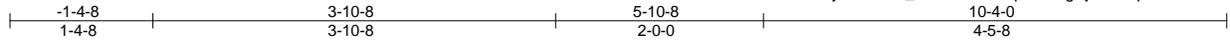


Plate Offsets (X,Y)--	[2:0-0-9,0-1-12], [3:0-3-0,0-2-8], [8:0-0-0,0-1-12]
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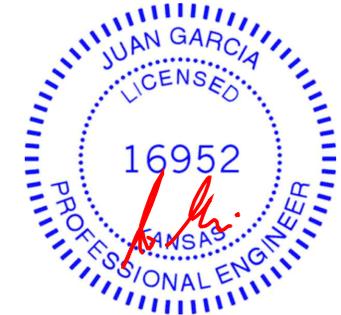
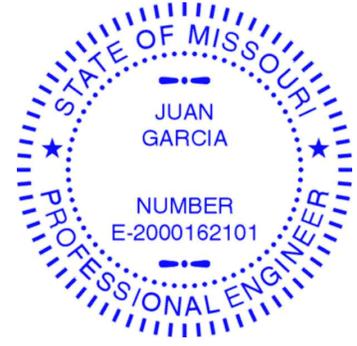
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.49	Vert(LL)	-0.06	6-7	>999	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.36	Vert(CT)	-0.13	6-7	>901		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.36	Horz(CT)	0.01	6	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-S	Wind(LL)	0.03	6-7	>999	Weight: 36 lb	FT = 10%

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 3-4.
BOT CHORD 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x3 SPF No.2 *Except* 2-8: 2x4 SPF No.2	

REACTIONS. (lb/size) 6=446/Mechanical, 8=568/0-3-8
 Max Horz 8=153(LC 5)
 Max Uplift 6=93(LC 8), 8=-144(LC 4)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-638/87, 3-4=-547/96, 2-8=-502/154
 BOT CHORD 7-8=-92/541, 6-7=-127/590
 WEBS 4-6=-620/171

- 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; MWFERS (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.
 - 5) 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) 6 except (jt=lb) 8=144.
 - 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.



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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/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.

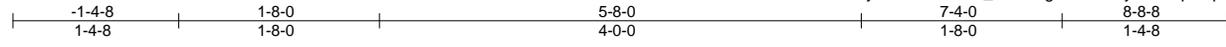
16023 Swingley Ridge Rd
 Chesterfield, MO 63017

Job 400370	Truss C1	Truss Type Hip Girder	Qty 1	Ply 1	Lot 24 HT 139252182
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Wheeler Lumber, Waverly, KS 66871

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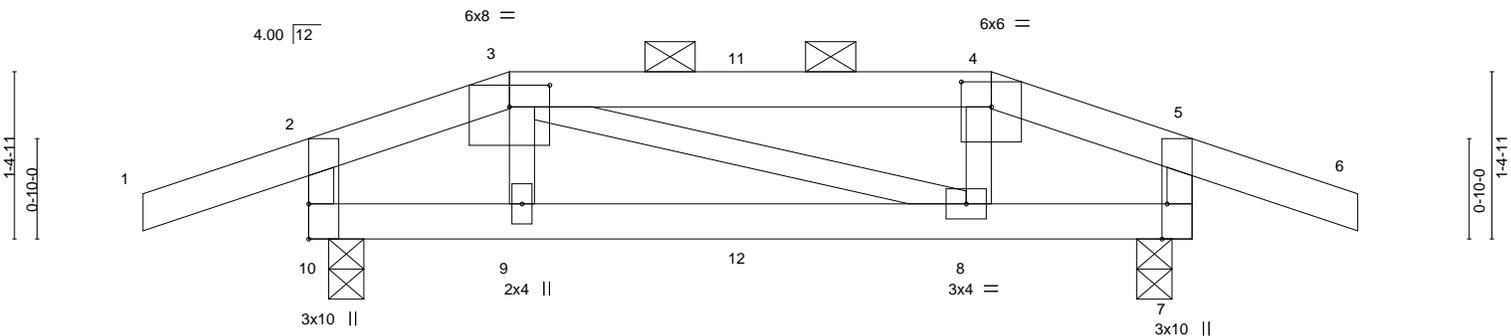


Plate Offsets (X, Y)--	[2:0-0-7,0-1-4], [3:0-4-0,0-2-3], [4:0-3-0,0-2-8], [5:0-0-7,0-1-4], [7:0-3-8,Edge], [7:0-0-0,0-1-4], [10:0-0-0,0-1-4]
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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.32	Vert(LL)	-0.03	8-9	>999	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.24	Vert(CT)	-0.05	8-9	>999		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.03	Horz(CT)	0.00	7	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-S	Wind(LL)	0.02	8-9	>999	Weight: 25 lb	FT = 10%

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 3-4.
BOT CHORD 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x3 SPF No.2	

REACTIONS. (lb/size) 10=413/0-3-8, 7=413/0-3-8
 Max Horz 10=11(LC 47)
 Max Uplift 10=-142(LC 4), 7=-142(LC 5)

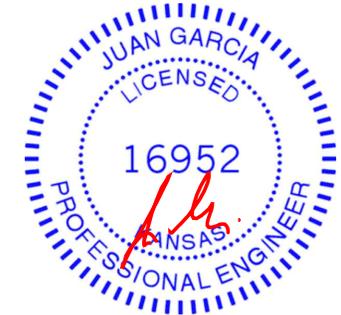
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-347/83, 3-4=-287/75, 4-5=-348/82, 2-10=-335/132, 5-7=-335/131
 BOT CHORD 9-10=-42/302, 8-9=-37/302, 7-8=-43/302

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 10=142, 7=142.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 111 lb down and 54 lb up at 1-8-0, and 49 lb down and 12 lb up at 3-8-0, and 111 lb down and 54 lb up at 5-8-0 on top chord, and 11 lb down and 9 lb up at 1-8-0, and 3 lb down and 4 lb up at 3-8-0, and 11 lb down and 9 lb up at 5-7-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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=9(F) 8=9(F) 12=4(F)



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Job	Truss	Truss Type	Qty	Ply	Lot 24 HT	I39252183
400370	C2	Common	1	1		

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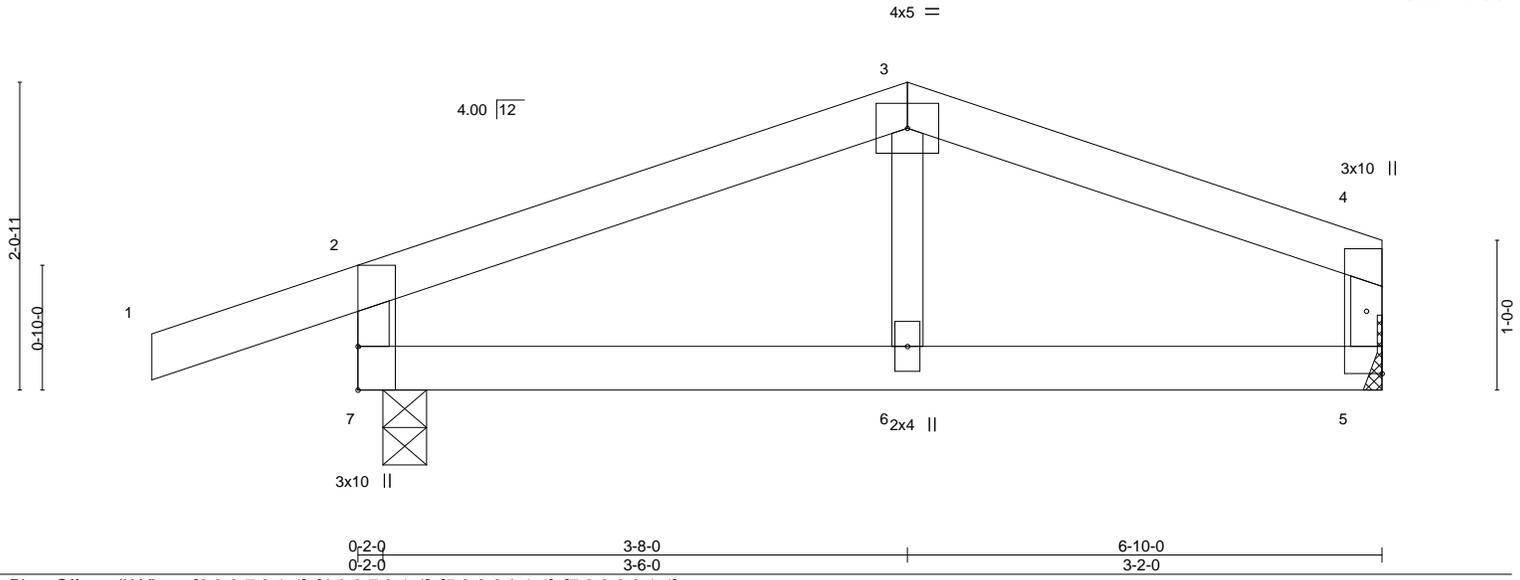


Plate Offsets (X,Y)-- [2:0-0-7,0-1-4], [4:0-0-7,0-1-4], [5:0-0-0,0-1-4], [7:0-0-0,0-1-4]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 25.0	2-0-0	TC 0.31	in (loc) l/defl L/d	MT20	197/144
TCDL 10.0	Plate Grip DOL 1.15	BC 0.22	Vert(LL) -0.02 6 >999 360		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.03	Vert(CT) -0.04 6 >999 240		
BCDL 10.0	Rep Stress Incr YES	Matrix-R	Horz(CT) 0.00 5 n/a n/a		
	Code IRC2018/TPI2014		Wind(LL) 0.01 6 >999 240	Weight: 20 lb	FT = 10%

LUMBER-
 TOP CHORD 2x4 SPF No.2
 BOT CHORD 2x4 SPF No.2
 WEBS 2x3 SPF No.2

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

REACTIONS. (lb/size) 7=413/0-3-8, 5=287/Mechanical
 Max Horz 7=27(LC 5)
 Max Uplift 7=-113(LC 4), 5=-41(LC 5)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-291/45, 3-4=-282/42, 2-7=-346/131

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 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.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5 except (jt=lb) 7=113.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



November 12, 2019

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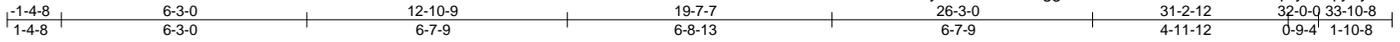


Job 400370	Truss D1	Truss Type Hip Girder	Qty 1	Ply 2	Lot 24 HT Job Reference (optional)	139252184
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ID: XxAsF4MdGikvF3O7A2bzF0yH?NM-sZCGsggJICUOkrdEro4Q6DAX?d??HqCymoqyByJxrD



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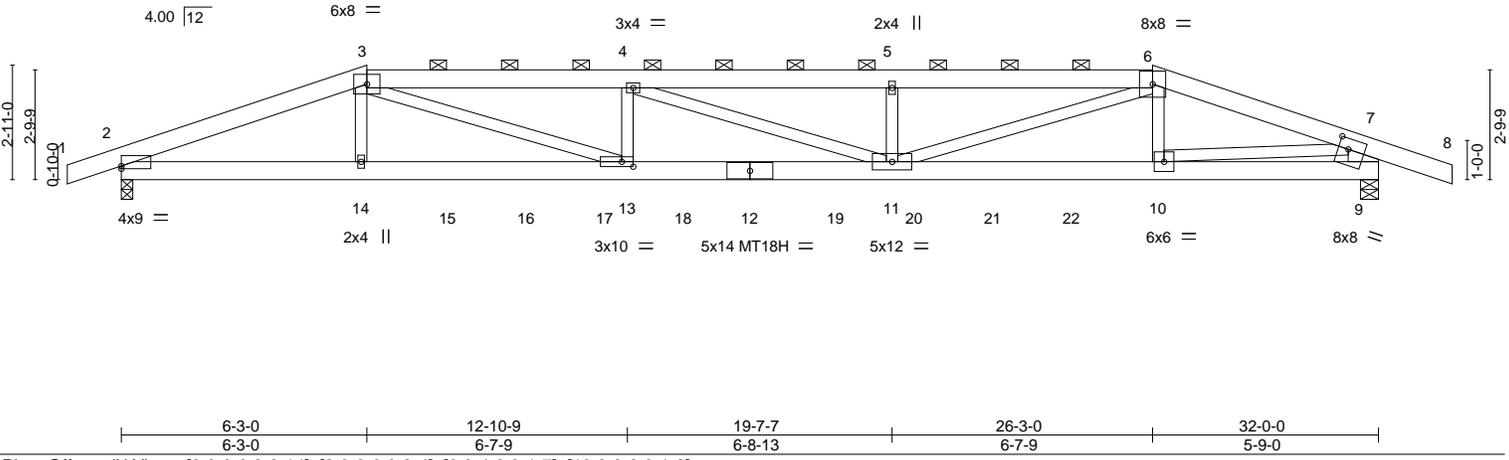


Plate Offsets (X,Y)--	[2:0-0,0,0-14], [9:0-3,0,0-3-4], [9:0-4-6,0-1-7], [13:0-3-8,0-1-8]
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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.88	Vert(LL)	-0.37 11-13	>999	360	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.54	Vert(CT)	-0.64 11-13	>591	240	MT18H	244/190
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.60	Horz(CT)	0.08 9	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-S	Wind(LL)	0.23 11-13	>999	240		Weight: 357 lb FT = 10%

LUMBER-	BRACING-
TOP CHORD 2x6 SPF No.2	TOP CHORD Structural wood sheathing directly applied or 5-5-10 oc purlins, except end verticals, and 2-0-0 oc purlins (4-3-7 max.): 3-6.
BOT CHORD 2x6 SP 2400F 2.0E	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SPF No.2 *Except* 7-9: 2x10 SP DSS	

REACTIONS. (lb/size) 2=3156/0-3-8, 9=3241/0-5-8
 Max Horz 2=-21(LC 24)
 Max Uplift 2=-373(LC 4), 9=-393(LC 5)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-7795/859, 3-4=-11035/1173, 4-5=-10731/1123, 5-6=-10733/1124, 6-7=-6748/718, 7-9=-3131/411
 BOT CHORD 2-14=-759/7183, 13-14=-754/7119, 11-13=-1113/11033, 10-11=-624/6315, 9-10=-138/1451
 WEBS 3-14=-93/1045, 3-13=-401/4267, 4-13=-479/132, 4-11=-374/52, 5-11=-556/123, 6-11=-468/4754, 6-10=-149/321, 7-10=-528/4917

- NOTES-**
- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
 Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc, 2x10 - 2 rows staggered 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.
 - All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
 - Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TC DL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - Provide adequate drainage to prevent water ponding.
 - All plates are MT20 plates unless otherwise indicated.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=373, 9=393.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



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Continued on page 2

<p>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.</p> <p>Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.</p>	 <p>16023 Swingley Ridge Rd Chesterfield, MO 63017</p>
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Job 400370	Truss D1	Truss Type Hip Girder	Qty 1	Ply 2	Lot 24 HT Job Reference (optional)	I39252184
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Wheeler Lumber, Waverly, KS 66871

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NOTES-

- 12) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 610 lb down and 155 lb up at 6-3-0, 239 lb down and 38 lb up at 8-3-12, 239 lb down and 38 lb up at 10-3-12, 239 lb down and 38 lb up at 12-3-12, 239 lb down and 38 lb up at 14-3-12, 239 lb down and 38 lb up at 16-3-0, 239 lb down and 38 lb up at 18-2-4, 239 lb down and 38 lb up at 20-2-4, 239 lb down and 38 lb up at 22-2-4, and 239 lb down and 38 lb up at 24-2-4, and 537 lb down and 132 lb up at 26-2-4 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: 1-3=-70, 3-6=-70, 6-7=-70, 7-8=-70, 2-9=-20

Concentrated Loads (lb)

Vert: 12=-239(F) 14=-610(F) 10=-537(F) 15=-239(F) 16=-239(F) 17=-239(F) 18=-239(F) 19=-239(F) 20=-239(F) 21=-239(F) 22=-239(F)

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

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16023 Swingley Ridge Rd
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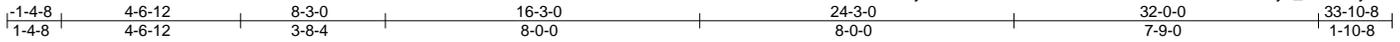
Job	Truss	Truss Type	Qty	Ply	Lot 24 HT	139252185
400370	D2	Hip	1	1		

Wheeler Lumber, Waverly, KS 66871

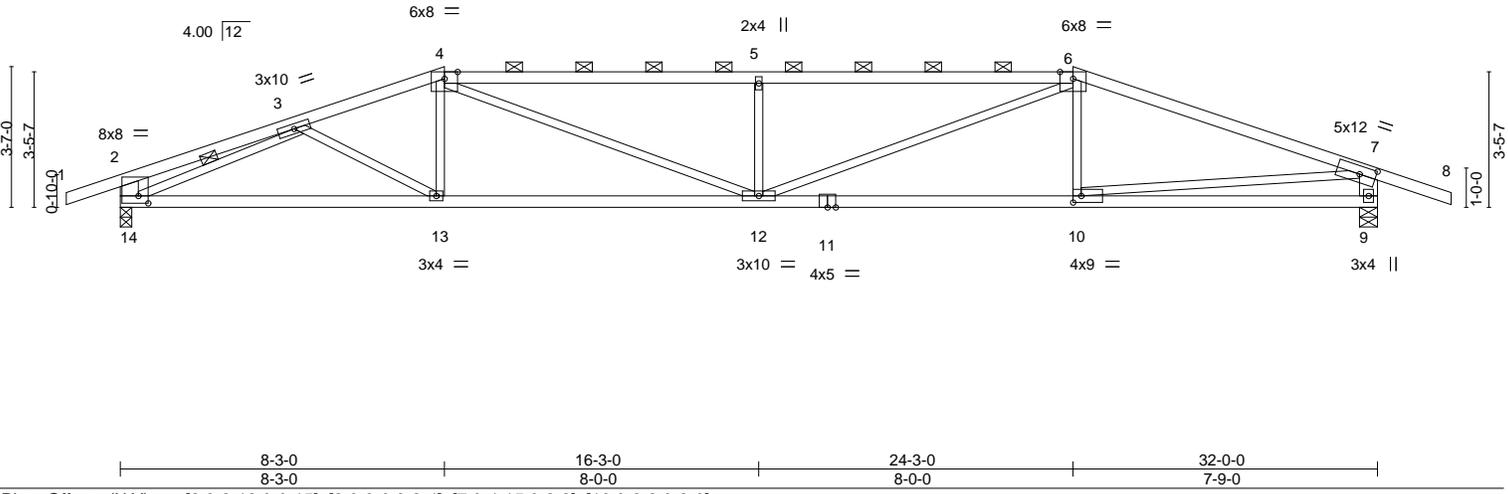
8.240 s Jul 14 2019 MiTek Industries, Inc. Tue Nov 12 11:06:57 2019 Page 1

ID: XxAsF4MdGikvF3O7A2bzF0yH?NM-Kmmf4?hxWVcFL?CQPvbfRiha0HM0Gy6_RaQUdyJxrC

Job Reference (optional)



Scale = 1:58.4



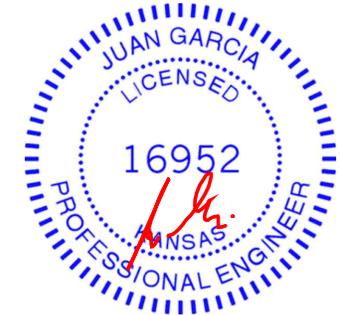
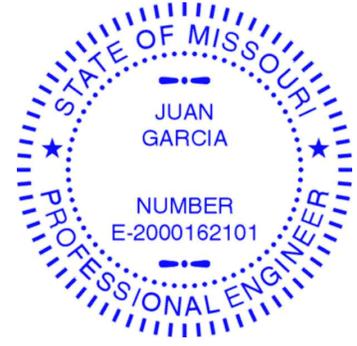
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.95	Vert(LL)	-0.27	12	>999	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.79	Vert(CT)	-0.51	10-12	>744		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.70	Horz(CT)	0.11	9	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-S	Wind(LL)	0.21	12	>999		
								Weight: 113 lb	FT = 10%

LUMBER-	BRACING-
TOP CHORD 2x4 SPF 2100F 1.8E	TOP CHORD Structural wood sheathing directly applied or 3-10-11 oc purlins, except end verticals, and 2-0-0 oc purlins (2-2-0 max.): 4-6.
BOT CHORD 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied or 8-8-11 oc bracing.
WEBS 2x3 SPF No.2 *Except* 2-14,7-9: 2x6 SPF No.2	WEBS 1 Row at midpt 3-14

REACTIONS.	(lb/size)
14=1530/0-3-8, 9=1569/0-5-8	
Max Horz 14=32(LC 8)	
Max Uplift 14=320(LC 4), 9=341(LC 5)	

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	2-3=-564/75, 3-4=-2829/506, 4-5=-3671/685, 5-6=-3671/685, 6-7=-2778/468, 2-14=-491/164, 7-9=-1494/379
BOT CHORD	13-14=-445/2470, 12-13=-406/2677, 10-12=-356/2554, 9-10=-133/527
WEBS	3-13=-6/407, 4-12=-260/1199, 5-12=-697/274, 6-12=-282/1332, 3-14=-2221/456, 7-10=-256/2037

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 14=320, 9=341.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



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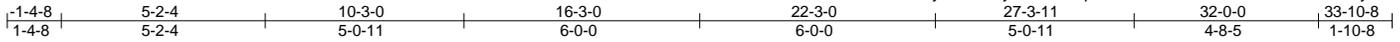
Job	Truss	Truss Type	Qty	Ply	Lot 24 HT	139252186
400370	D3	Hip	1	1		

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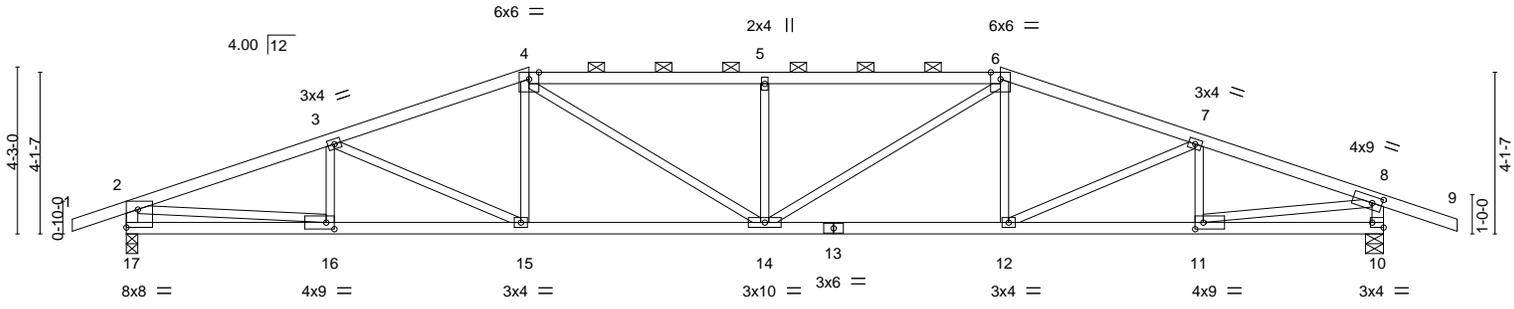
8.240 s Jul 14 2019 MiTek Industries, Inc. Tue Nov 12 11:06:58 2019 Page 1

ID: XxAsF4MdGikvF3O7A2bzF0yH?NM-oyK1HLhZHp6z9nczD6uBeFvmQdvlhwFD5Jz13yJxrB

Job Reference (optional)



Scale = 1:58.4



	5-2-4	10-3-0	16-3-0	22-3-0	27-3-11	32-0-0
	5-2-4	5-0-11	6-0-0	6-0-0	5-0-11	4-8-5
Plate Offsets (X, Y)--	[8:0-3-0,0-2-0], [10:Edge,0-1-8], [11:0-2-8,0-2-0], [16:0-2-8,0-2-0], [17:0-1-12,0-0-0], [17:Edge,0-5-8]					

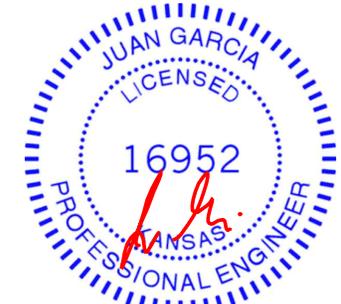
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.73	Vert(LL)	-0.23	14	>999	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.71	Vert(CT)	-0.42	14-15	>906		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.78	Horz(CT)	0.10	10	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-S	Wind(LL)	0.18	14	>999		
								Weight: 118 lb	FT = 10%

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied or 2-11-11 oc purlins, except end verticals, and 2-0-0 oc purlins (2-8-3 max.): 4-6.
BOT CHORD 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied or 8-10-12 oc bracing.
WEBS 2x3 SPF No.2 *Except* 2-17,8-10: 2x4 SPF No.2	

REACTIONS. (lb/size) 17=1531/0-3-8, 10=1570/0-5-8
 Max Horz 17=45(LC 12)
 Max Uplift 17=310(LC 4), 10=331(LC 5)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-2877/491, 3-4=-2727/488, 4-5=-3001/546, 5-6=-3001/546, 6-7=-2645/465,
 7-8=-2618/436, 2-17=-1458/333, 8-10=-1505/351
 BOT CHORD 16-17=-90/436, 15-16=-438/2667, 14-15=-370/2540, 12-14=-315/2465, 11-12=-349/2428
 WEBS 4-15=0/266, 4-14=-150/698, 5-14=-530/206, 6-14=-165/772, 7-11=-310/126,
 2-16=-359/2246, 8-11=-377/2275

- 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) 17=310, 10=331.
 - 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.



November 12, 2019

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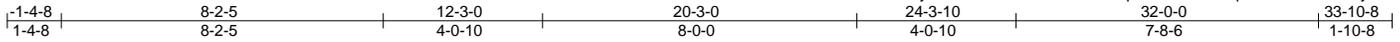
Job	Truss	Truss Type	Qty	Ply	Lot 24 HT	139252187
400370	D4	Hip	1	1		

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ID: XxAsF4MdGikvF3O7A2bzF0yH?NM-G8uPUhiB27szbJMpWwe7kso0QqzmUAIPSI3XZWyJxrA

Job Reference (optional)



Scale = 1:58.4

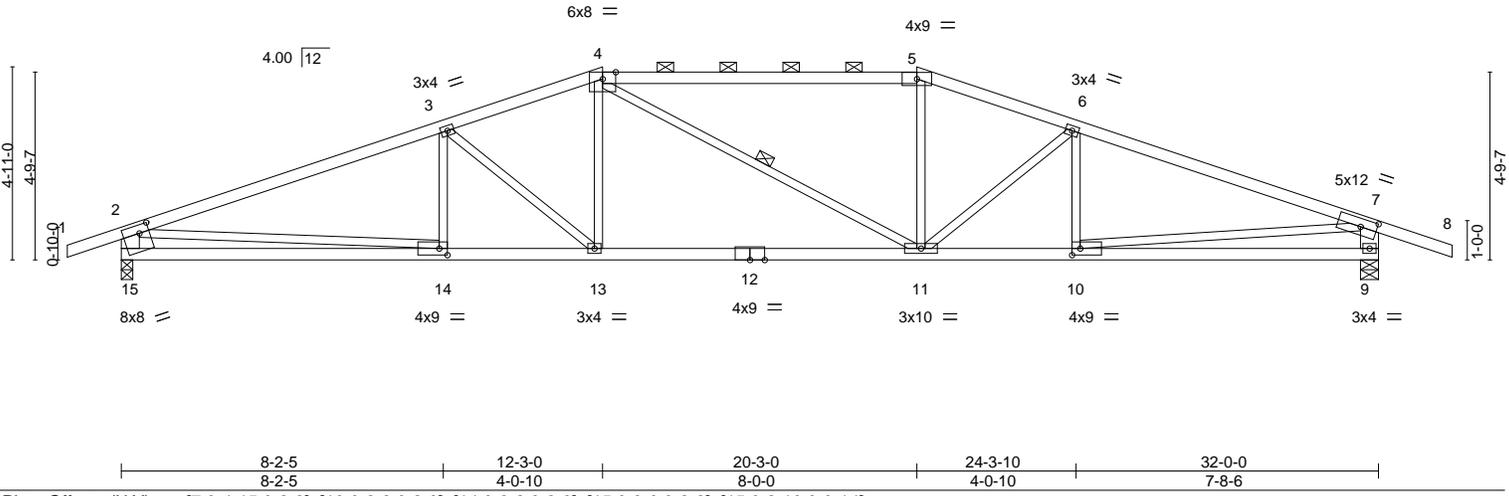


Plate Offsets (X, Y)--	[7:0-4-15,0-2-8], [10:0-2-8,0-2-0], [14:0-2-8,0-2-0], [15:0-3-0,0-2-8], [15:0-2-10,0-0-14]
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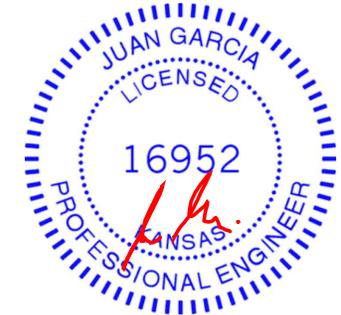
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 1.00	Vert(LL)	-0.18	13	>999	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.73	Vert(CT)	-0.44	11-13	>863		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.68	Horz(CT)	0.08	9	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-S	Wind(LL)	0.14	13	>999		
								Weight: 119 lb	FT = 10%

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2 *Except* 4-5: 2x4 SPF 2100F 1.8E	TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (2-2-0 max.): 4-5.
BOT CHORD 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied or 9-3-2 oc bracing.
WEBS 2x3 SPF No.2 *Except* 2-15,7-9: 2x6 SPF No.2	WEBS 1 Row at midpt 4-11

REACTIONS.	(lb/size)	15=1530/0-3-8, 9=1569/0-5-8
	Max Horz	15=56(LC 12)
	Max Uplift	15=-303(LC 4), 9=-323(LC 5)

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	2-3=-2868/465, 3-4=-2514/443, 4-5=-2304/424, 5-6=-2468/426, 6-7=-2720/432, 2-15=-1440/348, 7-9=-1483/365
BOT CHORD	14-15=-238/855, 13-14=-393/2626, 11-13=-301/2345, 10-11=-317/2490, 9-10=-104/523
WEBS	3-13=-384/161, 4-13=-30/396, 4-11=-255/182, 5-11=0/370, 6-11=-272/144, 2-14=-175/1775, 7-10=-245/1978

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 15=303, 9=323.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



November 12, 2019

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job 400370	Truss D5	Truss Type HIP	Qty 1	Ply 1	Lot 24 HT	I39252188
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ID: XxAsF4MdGikvF3O7A2bzF0yH?NM-kKSn1jpoQ_qDTx?4e9MG3KDoEI4DaQYhPo45yyJxr9

Job Reference (optional)



Scale = 1:40.7

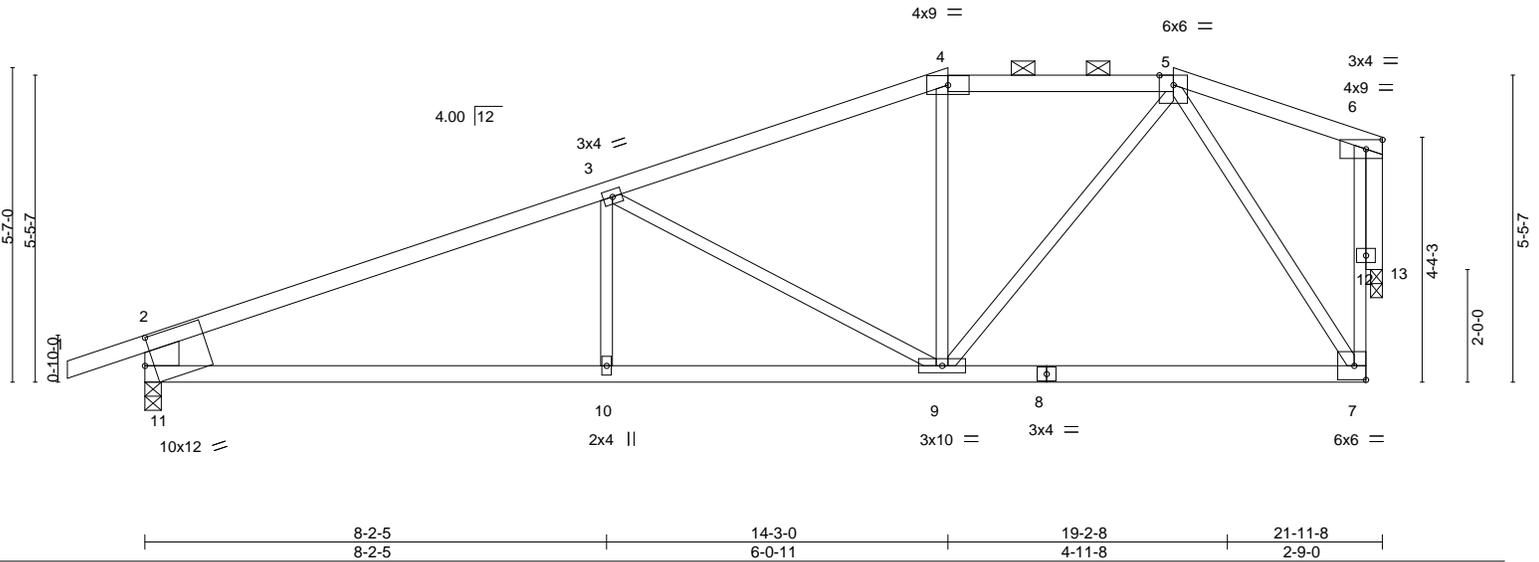


Plate Offsets (X,Y)--	[2:0-3-13,0-0-0], [11:0-1-14,0-5-11], [11:0-3-7,0-1-2]				
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL 1.15	TC 0.89	Vert(LL) -0.16 9-10 >999 360	MT20	197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.79	Vert(CT) -0.29 9-10 >905 240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.84	Horz(CT) 0.07 13 n/a n/a		
BCDL 10.0	Code IRC2018/TPI2014	Matrix-S	Wind(LL) 0.08 9-10 >999 240	Weight: 81 lb	FT = 10%

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2 *Except* 1-4: 2x4 SPF 2100F 1.8E	TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals, and 2-0-0 oc purlins (5-10-6 max.): 4-5.
BOT CHORD 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x3 SPF No.2 *Except* 2-11: 2x8 SP 2400F 2.0E	
OTHERS 2x4 SPF No.2	

REACTIONS. (lb/size) 11=1092/0-3-8, 13=939/0-2-8
Max Horz 11=110(LC 5)
Max Uplift 11=-86(LC 4), 13=-34(LC 4)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1700/71, 3-4=-1069/62, 4-5=-954/74, 2-11=-979/132, 7-12=-16/815, 6-12=-16/815
BOT CHORD 10-11=-91/1504, 9-10=-91/1504, 7-9=-39/552
WEBS 3-9=-635/98, 5-9=-17/678, 5-7=-882/66, 6-13=-947/35

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Bearing at joint(s) 13 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate at joint(s) 13.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 11, 13.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



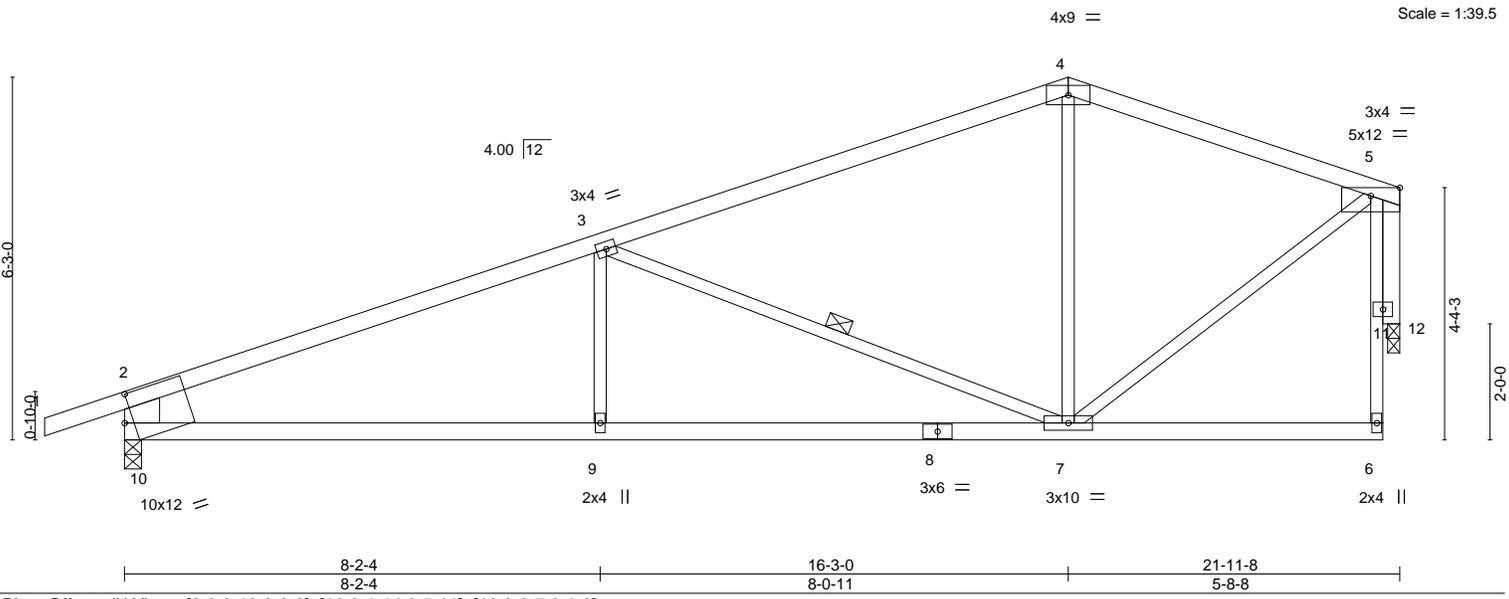
November 12, 2019

Job 400370	Truss D6	Truss Type Roof Special	Qty 5	Ply 1	Lot 24 HT	139252189
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ID: XxAsF4MdGikvF3O7A2bzF0yH?NM-kkSni1jpoQ_qDTx?4e9MG3KCTEHMDdWYhPo45yyJxr9



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 0.91	Vert(LL)	-0.19	7-9	>999	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.84	Vert(CT)	-0.39	7-9	>665		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.65	Horz(CT)	0.08	12	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-S	Wind(LL)	0.10	7-9	>999	Weight: 79 lb	FT = 10%

LUMBER-
TOP CHORD 2x4 SPF 2100F 1.8E *Except*
4-5: 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x3 SPF No.2 *Except*
2-10: 2x8 SP 2400F 2.0E
OTHERS 2x4 SPF No.2

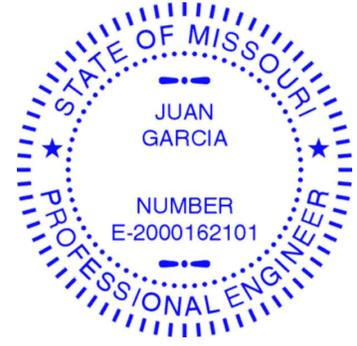
BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 3-7

REACTIONS. (lb/size) 10=1092/0-3-8, 12=939/0-2-8
Max Horz 10=105(LC 5)
Max Uplift 10=-81(LC 4), 12=-24(LC 4)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1739/61, 3-4=-853/46, 4-5=-799/57, 2-10=-980/124
BOT CHORD 9-10=-97/1546, 7-9=-97/1546
WEBS 3-9=0/306, 3-7=-915/111, 5-7=-22/812, 5-12=-949/25

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
- 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) Bearing at joint(s) 12 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 at joint(s) 12.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 10, 12.
- 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.



November 12, 2019

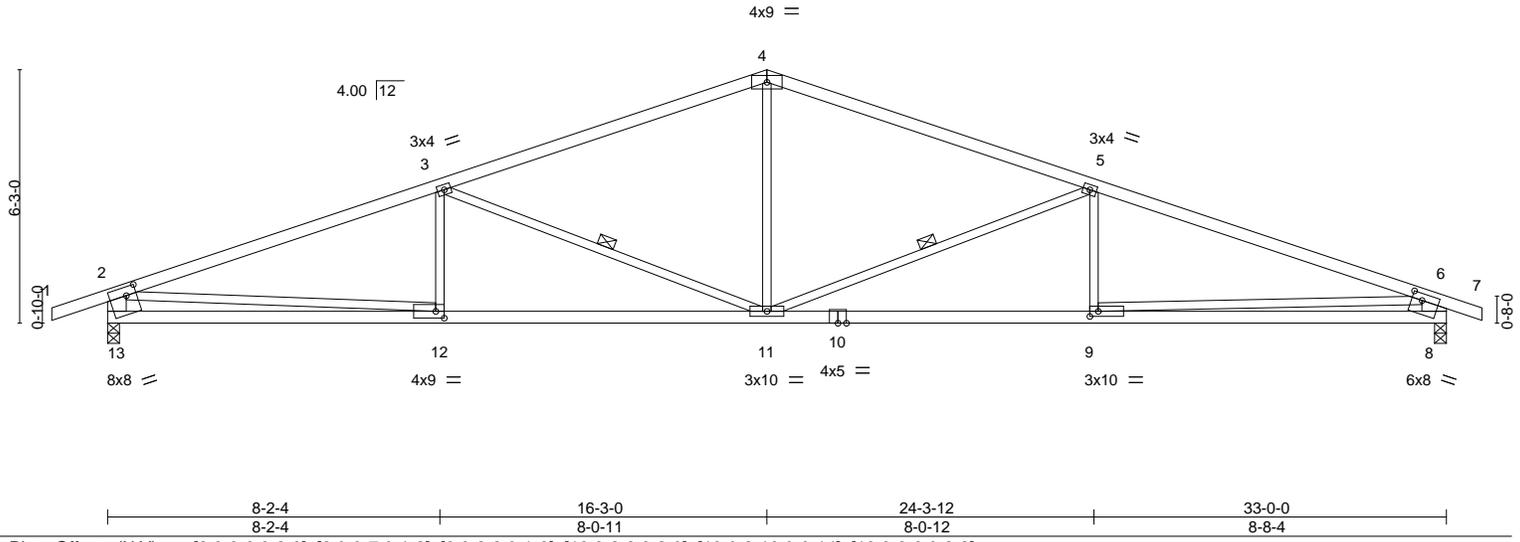
Job 400370	Truss E1	Truss Type Common	Qty 1	Ply 1	Lot 24 HT	139252190
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Wheeler Lumber, Waverly, KS 66871

8.240 s Jul 14 2019 MiTek Industries, Inc. Tue Nov 12 11:07:01 2019 Page 1

ID: XxAsF4MdGikvF3O7A2bzF0yH7NM-CX?9vNkRZk6hqdBELgpbHtS7ed2y3lhv3YedOyJxr8
 24-3-12 33-0-0 33-10-8
 8-0-12 8-8-4 0-10-8

Scale = 1:56.5



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 0.60	Vert(LL)	-0.20 9-11	>999	360	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.87	Vert(CT)	-0.41 11-12	>960	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.71	Horz(CT)	0.10 8	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-S	Wind(LL)	0.14 11-12	>999	240	Weight: 118 lb	FT = 10%

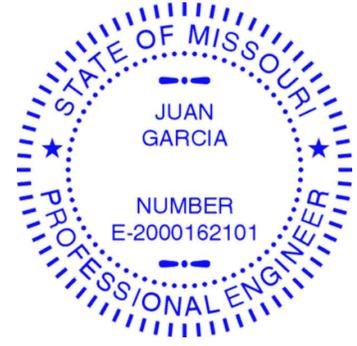
LUMBER-
 TOP CHORD 2x4 SPF 2100F 1.8E
 BOT CHORD 2x4 SPF No.2
 WEBS 2x3 SPF No.2 *Except*
 2-13: 2x6 SPF No.2, 6-8: 2x8 SP DSS

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 3-8-7 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 9-5-0 oc bracing.
 WEBS 1 Row at midpt 3-11, 5-11

REACTIONS. (lb/size) 13=1575/0-3-8, 8=1542/0-3-8
 Max Horz 13=-86(LC 13)
 Max Uplift 13=-281(LC 4), 8=-265(LC 5)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-3039/425, 3-4=-2244/327, 4-5=-2244/322, 5-6=-3161/449, 2-13=-1490/323, 6-8=-1455/310
 BOT CHORD 12-13=-232/772, 11-12=-383/2796, 9-11=-342/2906, 8-9=-246/1180
 WEBS 3-11=-903/258, 4-11=-31/830, 5-11=-1007/276, 5-9=0/269, 2-12=-196/2030, 6-9=-107/1728

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (it=lb) 13=281, 8=265.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



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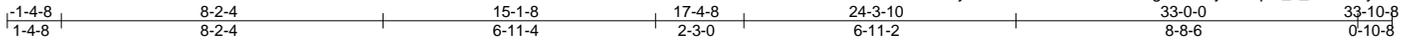
Job	Truss	Truss Type	Qty	Ply	Lot 24 HT	139252191
400370	E2	Hip	1	1		

Wheeler Lumber, Waverly, KS 66871

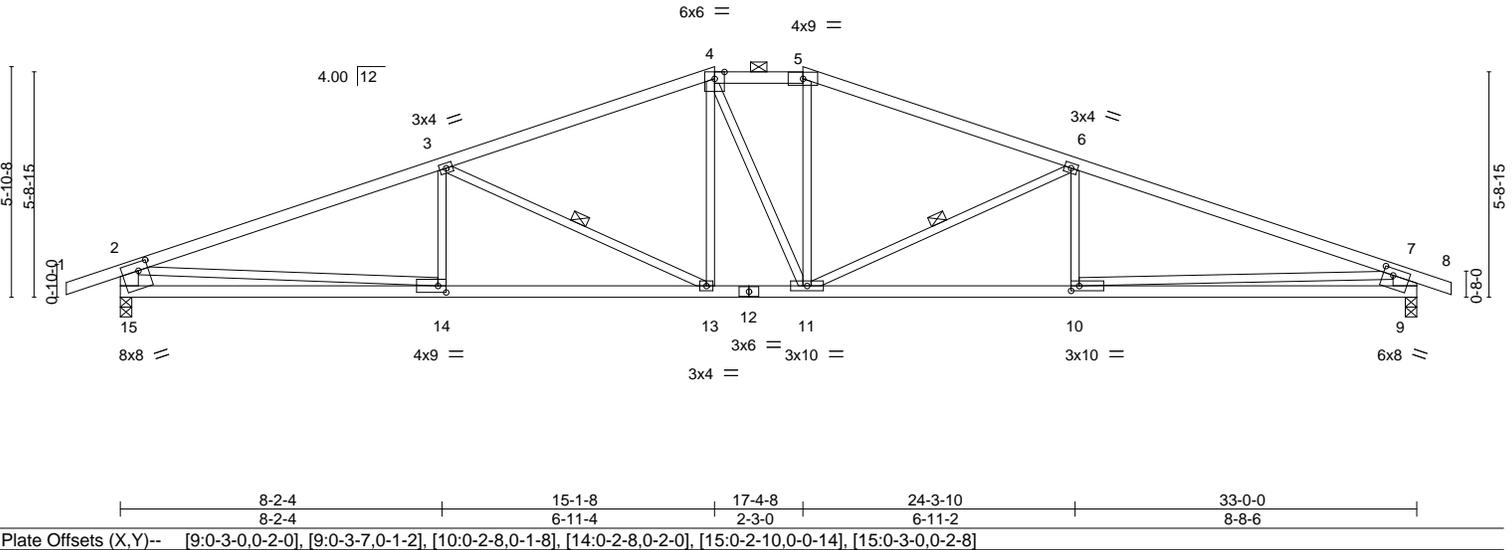
8.240 s Jul 14 2019 MiTek Industries, Inc. Tue Nov 12 11:07:03 2019 Page 1

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Job Reference (optional)



Scale = 1:58.4



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 0.62	Vert(LL)	-0.19 13-14	>999	360	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.79	Vert(CT)	-0.38 13-14	>999	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.68	Horz(CT)	0.10 9	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-S	Wind(LL)	0.14 13-14	>999	240	Weight: 124 lb	FT = 10%

LUMBER-	BRACING-
TOP CHORD 2x4 SPF 2100F 1.8E *Except* 4-5: 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied or 3-8-0 oc purlins, except end verticals, and 2-0-0 oc purlins (3-9-8 max.): 4-5.
BOT CHORD 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied or 9-4-1 oc bracing.
WEBS 2x3 SPF No.2 *Except* 2-15: 2x6 SPF No.2, 7-9: 2x8 SP DSS	WEBS 1 Row at midpt 3-13, 6-11

REACTIONS. (lb/size) 15=1575/0-3-8, 9=1542/0-3-8
 Max Horz 15=-78(LC 9)
 Max Uplift 15=-289(LC 4), 9=-273(LC 5)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-3025/439, 3-4=-2353/357, 4-5=-2160/375, 5-6=-2364/364, 6-7=-3146/464,
 2-15=-1490/332, 7-9=-1455/319
 BOT CHORD 14-15=-240/803, 13-14=-389/2780, 11-13=-208/2151, 10-11=-354/2890, 9-10=-261/1217
 WEBS 3-13=-746/217, 4-13=-44/410, 5-11=-37/415, 6-11=-847/234, 6-10=0/261,
 2-14=-188/1982, 7-10=-98/1676

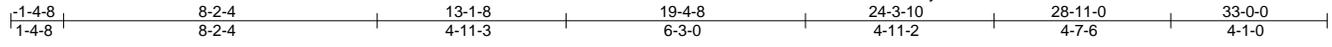
- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 15=289, 9=273.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



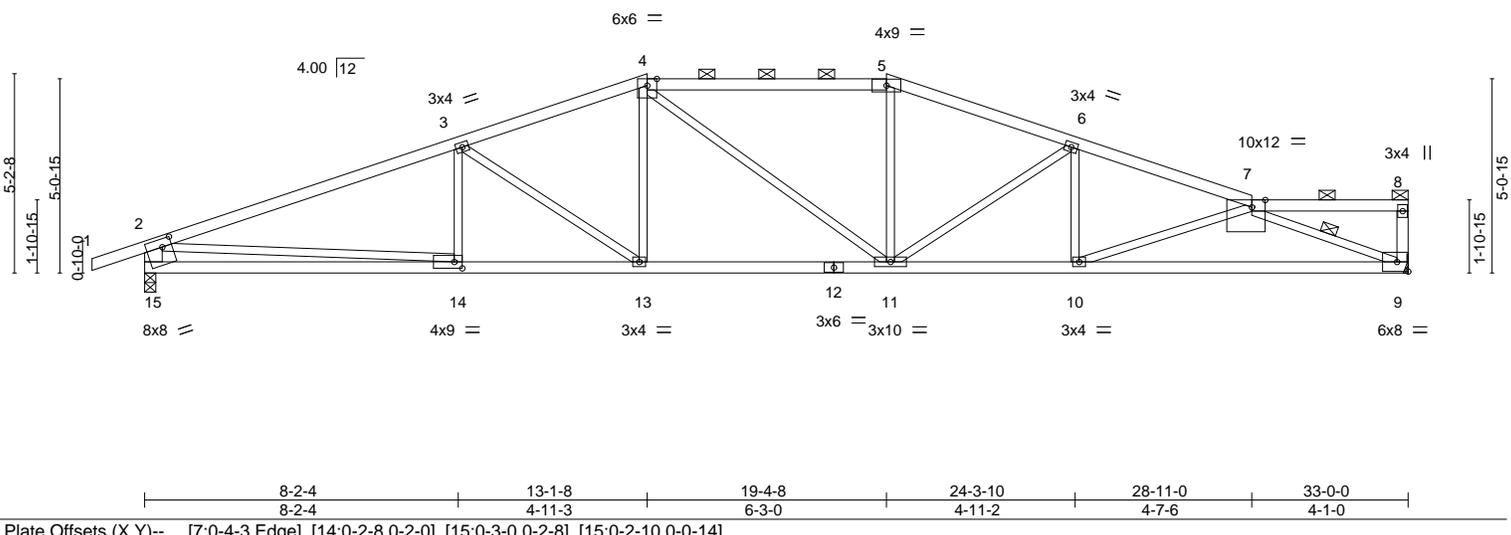
November 12, 2019

Job	Truss	Truss Type	Qty	Ply	Lot 24 HT	
400370	E3	ROOF SPECIAL	1	1		I39252192
Wheeler Lumber, Waverly, KS 66871						Job Reference (optional)

8.240 s Jul 14 2019 MiTek Industries, Inc. Tue Nov 12 11:07:04 2019 Page 1
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Scale = 1:59.9



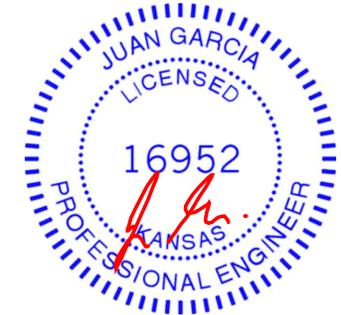
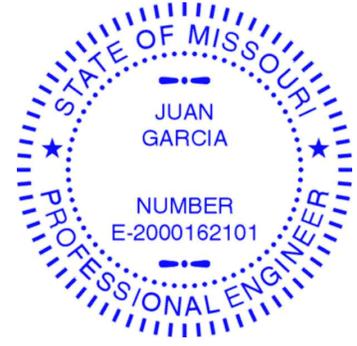
LOADING (psf)	SPACING	2-0-0	CSI	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.99	Vert(LL)	-0.22	10-11	>999	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.94	Vert(CT)	-0.44	11-13	>889		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.74	Horz(CT)	0.12	9	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-S	Wind(LL)	0.12	10-11	>999	Weight: 122 lb	FT = 10%

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2 *Except* 4-5: 2x4 SPF 2100F 1.8E	TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (4-2-15 max.): 4-5, 7-8.
BOT CHORD 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
WEBS 2x3 SPF No.2 *Except* 8-9: 2x4 SPF No.2, 2-15: 2x6 SPF No.2	WEBS 2-2-0 oc bracing: 9-10. 1 Row at midpt 7-9

REACTIONS. (lb/size) 9=1465/Mechanical, 15=1583/0-3-8
 Max Horz 15=45(LC 8)
 Max Uplift 9=-52(LC 5), 15=-97(LC 4)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-3015/103, 3-4=-2570/110, 4-5=-2422/122, 5-6=-2606/114, 6-7=-3094/100, 2-15=-1494/143
 BOT CHORD 14-15=-111/848, 13-14=-67/2767, 11-13=-21/2382, 10-11=-84/2893, 9-10=-156/2976
 WEBS 3-13=-497/80, 4-13=0/392, 4-11=-186/262, 5-11=0/410, 6-11=-585/55, 6-10=0/272, 7-9=-3129/178, 2-14=0/1925

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 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.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 9, 15.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

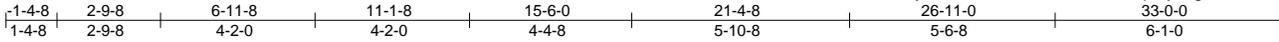


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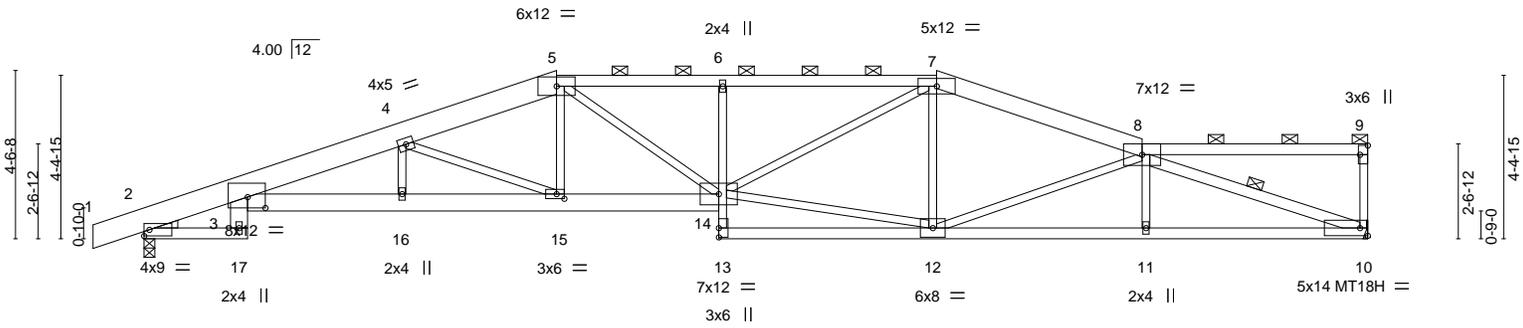
Job 400370	Truss E4	Truss Type ROOF SPECIAL	Qty 1	Ply 1	Lot 24 HT 139252193
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Wheeler Lumber, Waverly, KS 66871

ID: XxAsF4MdGikvF3O7A2bzF0yH?NM-KPV8HZvuuVS72RucqTSjkZigKJ_GkZz?2GMgkHyJvDi
8.240 s Jul 27 2019 MiTek Industries, Inc. Tue Nov 12 14:05:37 2019 Page 1



Scale = 1:61.8



2-9-8 6-11-8 11-1-8 15-6-0 21-4-8 26-11-0 33-0-0
2-9-8 4-2-0 4-2-0 4-4-8 5-10-8 5-6-8 6-1-0

Plate Offsets (X,Y)-- [3:0-5-12,0-3-8], [9:Edge,0-2-8], [15:0-2-8,0-1-8]										
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 0.88	Vert(LL)	-0.38	14-15	>999	360	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.86	Vert(CT)	-0.69	14-15	>568	240	MT18H	197/144
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.82	Horz(CT)	0.37	10	n/a	n/a		
BCDL 10.0	Code	IRC2018/TPI2014	Matrix-S	Wind(LL)	0.21	14	>999	240		
									Weight: 160 lb	FT = 10%

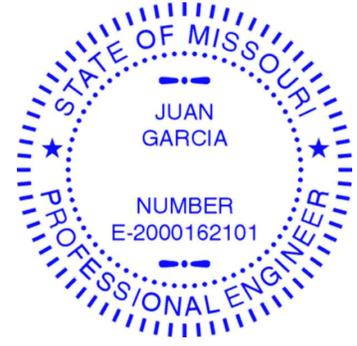
LUMBER-
 TOP CHORD 2x4 SPF No.2 *Except*
 1-5: 2x8 SP DSS, 7-8: 2x6 SPF No.2
 BOT CHORD 2x4 SPF No.2 *Except*
 3-14: 2x6 SPF 1650F 1.4E, 6-13: 2x3 SPF No.2
 WEBS 2x3 SPF No.2 *Except*
 3-17: 2x6 SPF No.2, 8-10: 2x4 SPF No.2
 WEDGE
 Left: 2x3 SPF No.2

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 2-11-6 oc purlins, except end verticals, and 2-0-0 oc purlins (2-2-0 max.): 5-7, 8-9.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
 WEBS 1 Row at midpt 8-10

REACTIONS. (lb/size) 10=1471/Mechanical, 2=1583/0-3-8
 Max Horz 2=64(LC 5)
 Max Uplift 10=60(LC 5), 2=100(LC 4)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-661/12, 3-4=-4417/160, 4-5=-3547/139, 5-6=-3642/159, 6-7=-3635/162, 7-8=-2898/118
 BOT CHORD 3-16=-136/4357, 15-16=-134/4345, 14-15=-89/3324, 6-14=-393/95, 12-13=-1/336, 11-12=-136/3209, 10-11=-132/3214
 WEBS 4-15=-1136/77, 5-15=0/631, 5-14=-58/560, 12-14=-101/2377, 7-14=-75/1159, 8-12=-579/54, 8-10=-3373/122

- 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) 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) Refer to girder(s) for truss to truss connections.
 - 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 60 lb uplift at joint 10 and 100 lb uplift at joint 2.
 - 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.



November 12, 2019

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/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.

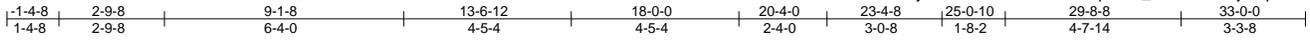


Job 400370	Truss E5	Truss Type ROOF SPECIAL	Qty 1	Ply 2	Lot 24 HT	I39252194
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Wheeler Lumber, Waverly, KS 66871

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Scale = 1:60.7

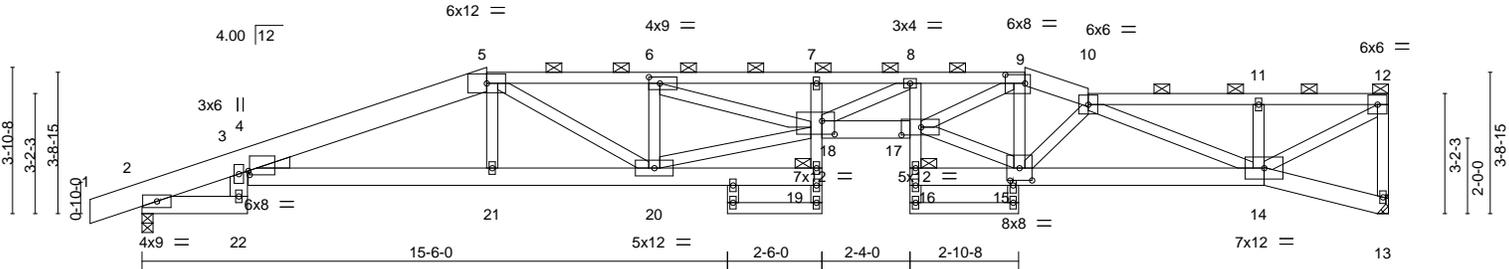


Plate Offsets (X, Y)-- [4:0-0-7,0-1-4], [6:0-3-8,0-2-0], [9:0-6-4,0-2-12], [15:0-4-0,0-3-14], [15:0-1-9,0-1-0], [17:0-6-4,0-2-8], [18:0-4-0,0-4-4]

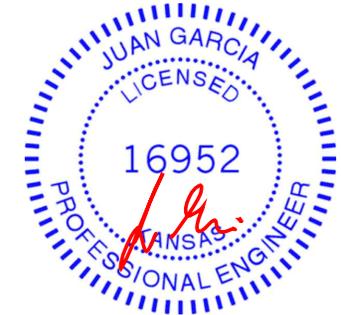
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.47	Vert(LL)	-0.47	18	>828	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.67	Vert(CT)	-0.85	18	>463		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.58	Horz(CT)	0.34	13	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-S	Wind(LL)	0.27	18	>999		
								Weight: 407 lb	FT = 10%

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2 *Except* 1-5: 2x8 SP DSS, 9-10: 2x6 SPF No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (3-9-14 max.): 5-9, 10-12.
BOT CHORD 2x6 SP 2400F 2.0E *Except* 17-18: 2x6 SPF No.2, 23-24,26-27: 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SPF No.2 *Except* 3-22: 2x6 SPF No.2	JOINTS 1 Brace at Jt(s): 12, 19, 16
WEDGE Left: 2x4 SP No.3	

REACTIONS. (lb/size) 13=1466/Mechanical, 2=1574/0-3-8
Max Horz 2=94(LC 7)
Max Uplift 13=-69(LC 5), 2=-108(LC 4)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-676/18, 3-4=-58/1051, 4-5=-4017/152, 5-6=-4409/194, 6-7=-8269/410,
7-8=-8582/422, 8-9=-7959/399, 9-10=-3941/170, 10-11=-2138/91, 11-12=-2137/91,
12-13=-1415/85
BOT CHORD 4-21=-162/3795, 20-21=-158/3816, 19-20=-17/374, 17-18=-425/8151, 15-16=-14/264,
14-15=-231/4155
WEBS 8-17=-477/72, 5-21=0/396, 5-20=-64/861, 18-20=-205/4190, 6-18=-226/4041,
8-18=-58/634, 15-17=-180/3716, 9-17=-262/4708, 9-15=-891/91, 10-15=-653/71,
10-14=-2222/116, 11-14=-322/76, 12-14=-125/2498, 6-20=-1521/145

- NOTES-**
- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x8 - 2 rows staggered at 0-9-0 oc, 2x4 - 1 row at 0-7-0 oc, 2x6 - 2 rows staggered at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
Webs connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc, 2x4 - 1 row at 0-9-0 oc.
 - All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
 - Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TC DL=6.0psf; BC DL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - Provide adequate drainage to prevent water ponding.
 - All plates are 2x4 MT20 unless otherwise indicated.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 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.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 13 except (jt=lb)



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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.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job 400370	Truss E5	Truss Type ROOF SPECIAL	Qty 1	Ply 2	Lot 24 HT Job Reference (optional)	I39252194
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Wheeler Lumber, Waverly, KS 66871

8.240 s Jul 14 2019 MiTek Industries, Inc. Tue Nov 12 11:07:08 2019 Page 2
ID:XxAsF4MdGikvF3O7A2bzF0yH?NM-VtwpNmpqwu_hAhYXYJIEbLgLS3n5GajWfkVNUyJxr1

NOTES-

- 11) This truss is designed in accordance with the 2018 International Residential Code sections R502.1.1.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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/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

Job 400370	Truss E6	Truss Type HALF HIP GIRDER	Qty 1	Ply 3	Lot 24 HT I39252195 Job Reference (optional)
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Wheeler Lumber, Waverly, KS 66871

8.240 s Jul 14 2019 MiTek Industries, Inc. Tue Nov 12 11:07:09 2019 Page 2
ID:XxAsF4MdGikvF3O7A2bzF0yH?NM-z3UBb6qThB6Yor7k61pT8zCmbsRSqfntJU3vwyJxr0

NOTES-

- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 12) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 799 lb down and 223 lb up at 7-1-8, 247 lb down and 39 lb up at 9-2-4, 247 lb down and 39 lb up at 11-2-4, 247 lb down and 39 lb up at 13-2-4, 247 lb down and 39 lb up at 15-2-4, and 247 lb down and 39 lb up at 17-2-4, and 1030 lb down and 135 lb up at 17-10-7 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: 1-5=-70, 5-12=-70, 2-22=-20, 4-19=-20, 16-18=-20, 14-15=-20, 13-14=-20
- Concentrated Loads (lb)
 - Vert: 21=-799(B) 20=-247(B) 23=-247(B) 24=-247(B) 25=-247(B) 26=-247(B) 27=-1030(B)

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

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16023 Swingley Ridge Rd
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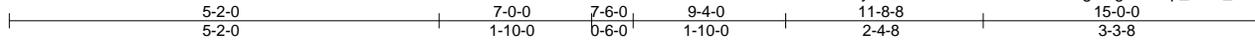
Job	Truss	Truss Type	Qty	Ply	Lot 24 HT	139252196
400370	G1	Roof Special	1	1		

Wheeler Lumber, Waverly, KS 66871

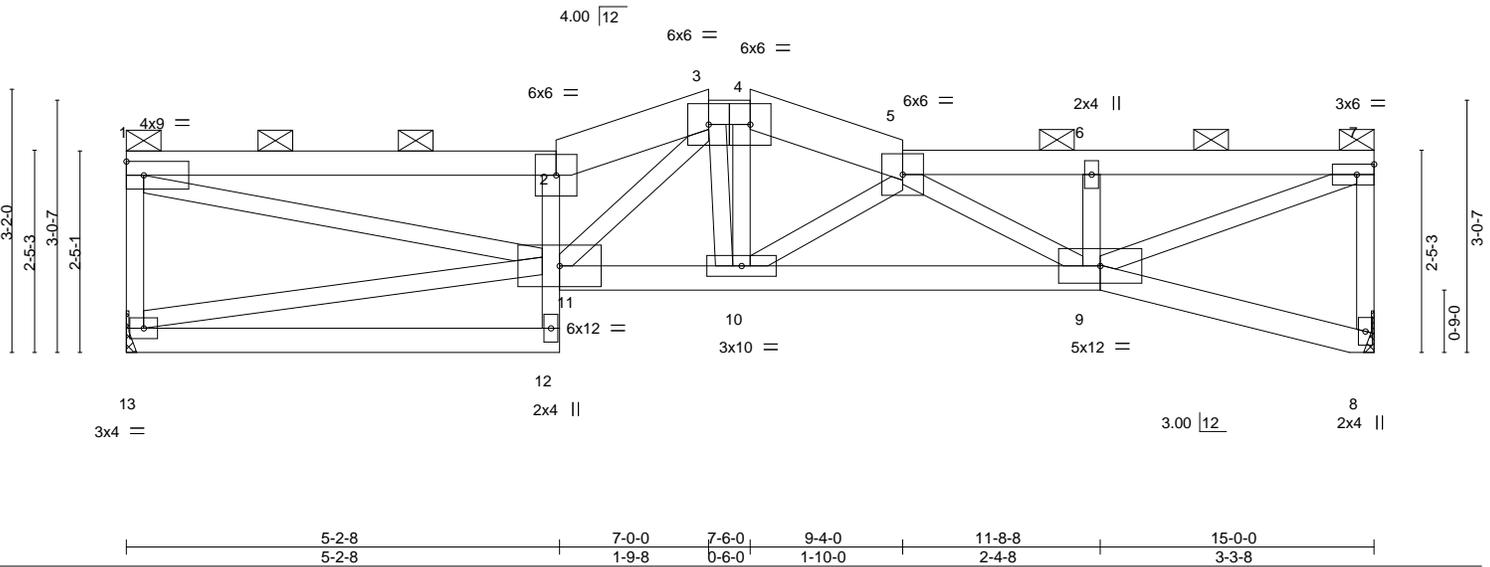
8.240 s Jul 14 2019 MiTek Industries, Inc. Tue Nov 12 11:07:10 2019 Page 1

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Job Reference (optional)



Scale = 1:27.6



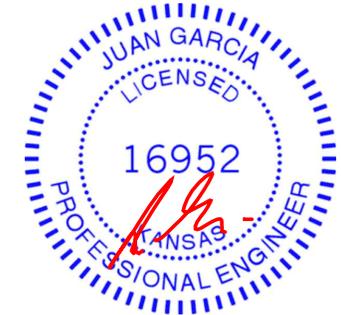
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.48	Vert(LL) -0.08 2 >999 360	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.43	Vert(CT) -0.14 10-11 >999 240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.54	Horz(CT) 0.06 8 n/a n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-S	Wind(LL) 0.04 11 >999 240	Weight: 62 lb	FT = 10%

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2 *Except* 2-3,4-5: 2x6 SPF No.2	TOP CHORD Structural wood sheathing directly applied or 5-7-15 oc purlins, except end verticals, and 2-0-0 oc purlins (4-0-2 max.): 1-2, 3-4, 5-7.
BOT CHORD 2x4 SPF No.2 *Except* 2-12: 2x3 SPF No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x3 SPF No.2	

REACTIONS. (lb/size)	13=666/Mechanical, 8=666/Mechanical
Max Horz	13=62(LC 7)
Max Uplift	13=-20(LC 4), 8=-22(LC 5)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-13=-600/44, 1-2=-1553/18, 2-3=-1705/31, 3-4=-1251/24, 4-5=-1311/21, 5-6=-1248/33, 6-7=-1247/33, 7-8=-630/42
BOT CHORD 2-11=-778/76, 10-11=-35/1234, 9-10=-70/1608
WEBS 1-11=-23/1565, 3-11=-43/525, 4-10=0/285, 5-10=-458/43, 5-9=-425/16, 7-9=-50/1335

- 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) 13, 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.



November 12, 2019

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

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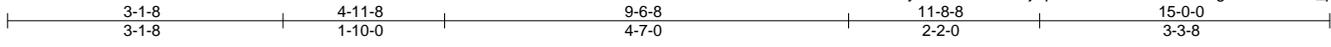
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job 400370	Truss G2	Truss Type Roof Special	Qty 1	Ply 1	Lot 24 HT	I39252197
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Wheeler Lumber, Waverly, KS 66871

8.240 s Jul 14 2019 MiTek Industries, Inc. Tue Nov 12 11:07:11 2019 Page 1

ID:XxAsF4MdGikvF3O7A2bzF0yH?NM-vScx0orjDpMG19H6DSrxDOHC3g1?lidsACdz9_pyJr_



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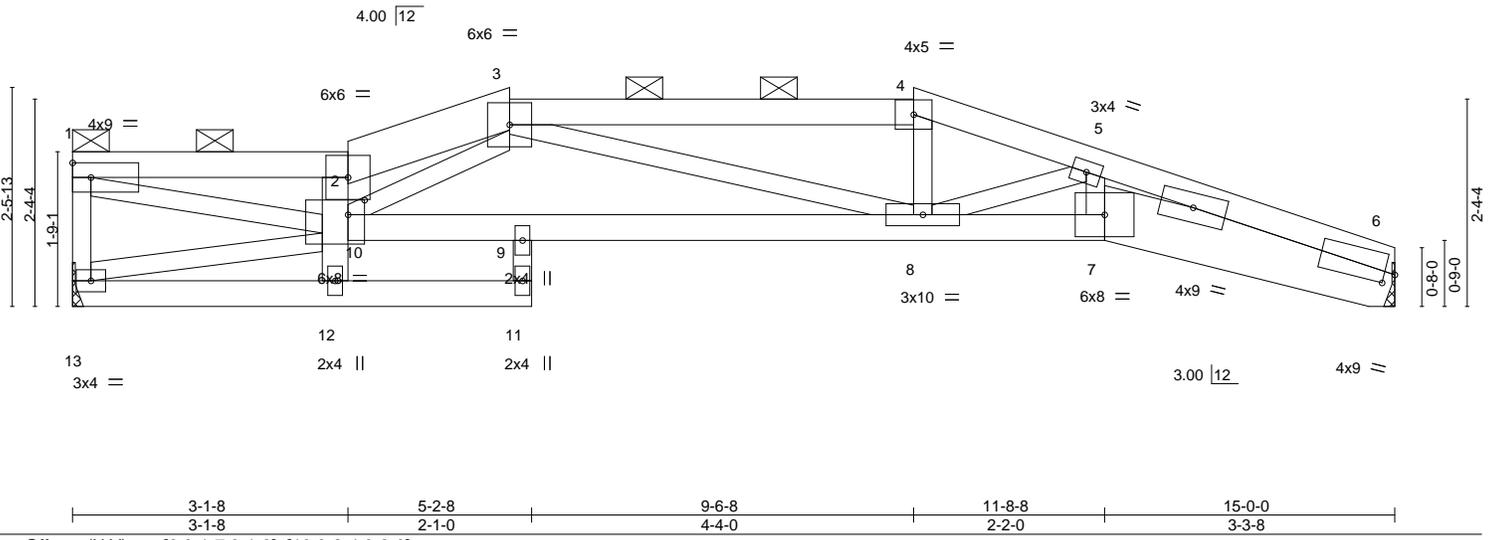


Plate Offsets (X,Y)--	[6:0-1-7,0-1-8], [10:0-2-4,0-2-0]				
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL 1.15	TC 0.44	Vert(LL) -0.12 8-9 >999 360	MT20	197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.83	Vert(CT) -0.26 8-9 >683 240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.61	Horz(CT) 0.11 6 n/a n/a		
BCDL 10.0	Code IRC2018/TPI2014	Matrix-S	Wind(LL) 0.06 8-9 >999 240	Weight: 61 lb	FT = 10%

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2 *Except* 2-3: 2x6 SPF No.2	TOP CHORD Structural wood sheathing directly applied or 3-4-6 oc purlins, except end verticals, and 2-0-0 oc purlins (3-11-14 max.): 1-2, 3-4.
BOT CHORD 2x4 SPF No.2 *Except* 6-7: 2x8 SP DSS	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x3 SPF No.2 *Except* 2-12: 2x4 SPF No.2	

REACTIONS. (lb/size) 13=668/Mechanical, 6=668/Mechanical
Max Horz 13=-43(LC 6)
Max Uplift 13=-27(LC 4), 6=-25(LC 5)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-13=-554/26, 1-2=-1769/10, 2-3=-2181/23, 3-4=-1771/49, 4-5=-1871/42, 5-6=-2577/96
BOT CHORD 12-13=0/304, 9-10=-37/1650, 8-9=-37/1650, 7-8=-62/2243, 6-7=-69/2381
WEBS 1-10=-15/1768, 2-10=-722/43, 3-8=-47/258, 4-8=0/295, 5-8=-487/77, 5-7=-8/510, 3-10=0/529, 10-13=-264/19

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TC DL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 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.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 13, 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.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



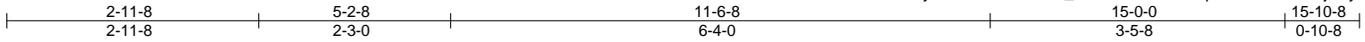
November 12, 2019

Job 400370	Truss G3	Truss Type Hip Girder	Qty 1	Ply 1	Lot 24 HT Job Reference (optional)	139252198
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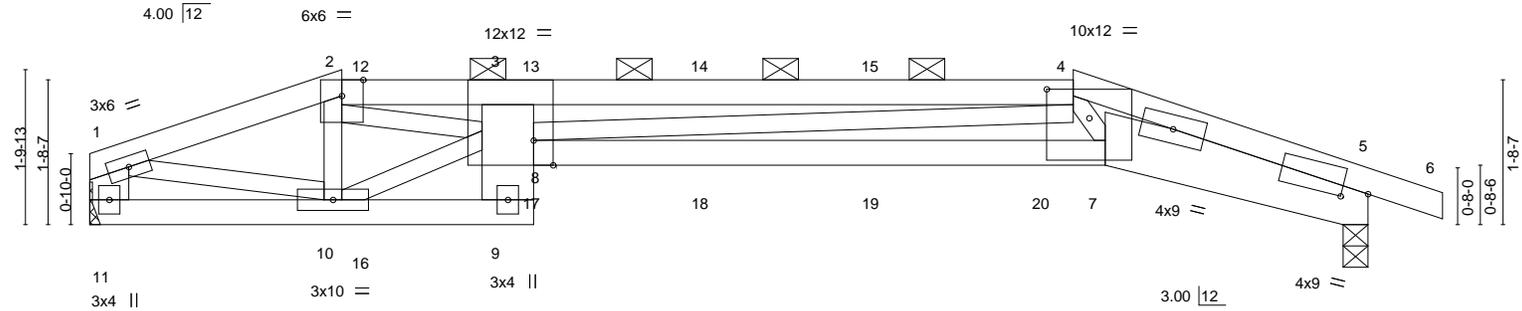
Wheeler Lumber, Waverly, KS 66871

8.240 s Jul 14 2019 MiTek Industries, Inc. Tue Nov 12 11:07:12 2019 Page 1

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Scale = 1:26.9



2-11-8	5-2-8	11-11-0	15-0-0
2-11-8	2-3-0	6-8-8	3-1-0

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

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 0.78	Vert(LL)	-0.18	7-8	>949	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.54	Vert(CT)	-0.42	7-8	>421		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.34	Horz(CT)	0.13	5	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-S	Wind(LL)	0.20	7-8	>900	Weight: 58 lb	FT = 10%

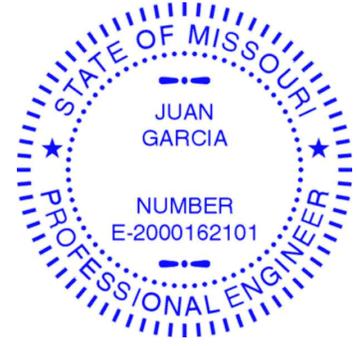
LUMBER-
TOP CHORD 2x4 SPF No.2 *Except*
 2-4: 2x4 SPF 2100F 1.8E
BOT CHORD 2x4 SPF No.2 *Except*
 3-9: 2x8 SP 2400F 2.0E, 7-8: 2x4 SPF 2100F 1.8E, 5-7: 2x8 SP DSS
WEBS 2x3 SPF No.2 *Except*
 1-11: 2x6 SPF No.2

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

REACTIONS. (lb/size) 11=681/Mechanical, 5=756/0-3-8
 Max Horz 11=-25(LC 34)
 Max Uplift 11=-182(LC 4), 5=-224(LC 5)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-1150/326, 2-3=-1832/494, 3-4=-3398/936, 4-5=-3511/865, 1-11=-637/191
BOT CHORD 9-10=-315/1139, 3-8=-297/157, 7-8=-730/2736, 5-7=-802/3320
WEBS 2-8=-178/814, 4-8=-170/731, 4-7=-106/982, 1-10=-264/957

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 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.
 - 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.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 11=182, 5=224.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 82 lb down and 126 lb up at 2-11-8, 65 lb down and 44 lb up at 3-3-4, 65 lb down and 43 lb up at 5-3-4, 65 lb down and 43 lb up at 7-3-0, and 65 lb down and 43 lb up at 9-3-0, and 147 lb down and 171 lb up at 11-6-8 on top chord, and 29 lb down at 2-11-8, 16 lb down at 3-3-4, 16 lb down at 5-3-4, 16 lb down at 7-3-0, 16 lb down at 9-3-0, and 16 lb down at 11-3-0, and 29 lb down at 11-5-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
 - In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).



November 12, 2019

LOAD CASE(S) Standard

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Job 400370	Truss G3	Truss Type Hip Girder	Qty 1	Ply 1	Lot 24 HT I39252198 Job Reference (optional)
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Wheeler Lumber, Waverly, KS 66871

8.240 s Jul 14 2019 MiTek Industries, Inc. Tue Nov 12 11:07:12 2019 Page 2
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LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-2=-70, 2-4=-70, 4-6=-70, 9-11=-20, 7-8=-20, 5-7=-20

Concentrated Loads (lb)

Vert: 2=-3(B) 4=-6(B) 10=-0(B) 12=-3(B) 13=-3(B) 14=-3(B) 15=-3(B) 16=-5(B) 17=-5(B) 18=-5(B) 19=-5(B) 20=-6(B)

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job 400370	Truss H1	Truss Type Hip Girder	Qty 1	Ply 1	Lot 24 HT Job Reference (optional)	I39252199
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8.240 s Jul 14 2019 MiTek Industries, Inc. Tue Nov 12 11:07:14 2019 Page 2
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LOAD CASE(S) Standard

Uniform Loads (plf)

Vert: 1-2=-70, 2-3=-70, 3-5=-70, 5-6=-70, 6-7=-70, 11-12=-20, 9-11=-20, 8-9=-20

Concentrated Loads (lb)

Vert: 11=5(F) 10=2(F) 9=5(F) 15=2(F) 16=2(F)

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

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Chesterfield, MO 63017

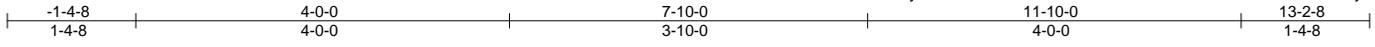
Job	Truss	Truss Type	Qty	Ply	Lot 24 HT	139252200
400370	H2	Hip	1	1		

Wheeler Lumber, Waverly, KS 66871

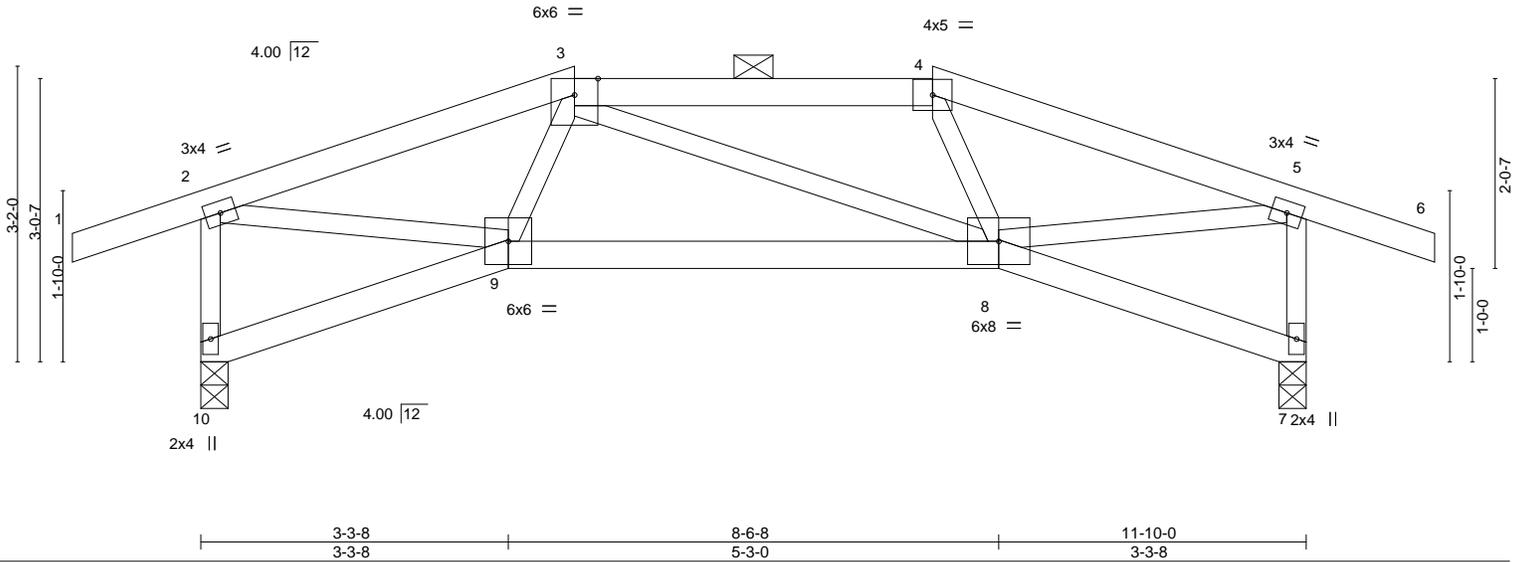
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Job Reference (optional)



Scale = 1:24.5



LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP		
TCLL	25.0	Plate Grip DOL	1.15	TC	0.21	Vert(LL)	-0.04	8-9	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.30	Vert(CT)	-0.08	8-9	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.24	Horz(CT)	0.03	7	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.02	8-9	>999	240	Weight: 45 lb	FT = 10%

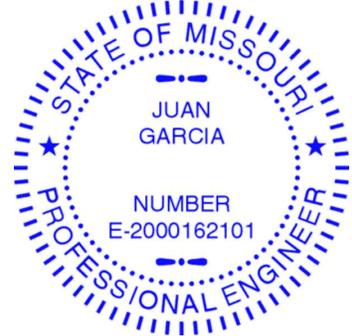
LUMBER-
 TOP CHORD 2x4 SPF No.2
 BOT CHORD 2x4 SPF No.2
 WEBS 2x3 SPF No.2

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

REACTIONS. (lb/size) 10=627/0-3-8, 7=627/0-3-8
 Max Horz 10=-40(LC 6)
 Max Uplift 10=-154(LC 4), 7=-154(LC 5)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-10=-602/162, 2-3=-794/114, 3-4=-726/159, 4-5=-793/121, 5-7=-602/172
 BOT CHORD 8-9=-92/727
 WEBS 2-9=-55/711, 5-8=-70/709

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Bearing at joint(s) 10, 7 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 10=154, 7=154.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



November 12, 2019

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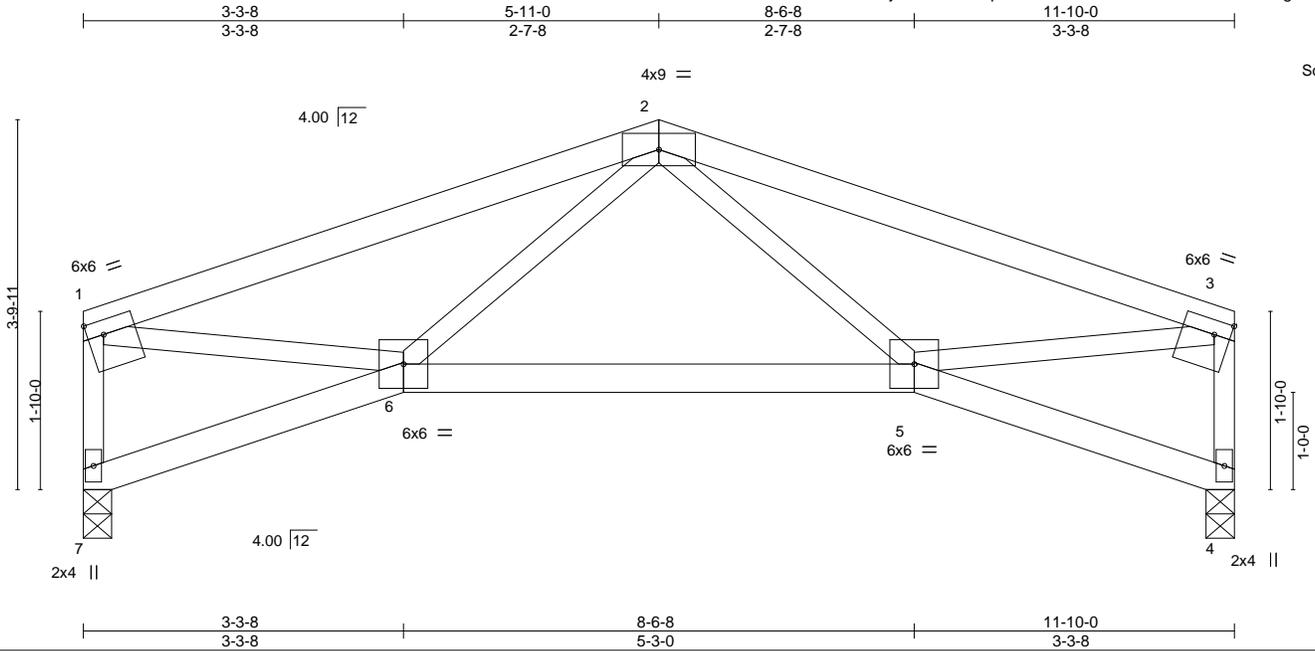
Job 400370	Truss H3	Truss Type Roof Special	Qty 4	Ply 1	Lot 24 HT	139252201
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Wheeler Lumber, Waverly, KS 66871

8.240 s Jul 14 2019 MiTek Industries, Inc. Tue Nov 12 11:07:16 2019 Page 1

ID: XxAsF4MdGikvF3O7A2bzF0yH?NM-GPPq3Vvs1L?Y7w940?R6wR?2nhutzzPvMvgwe1yJxq

Job Reference (optional)



Scale = 1:23.6

Plate Offsets (X,Y)--	[1:0-2-0,0-1-12], [3:0-2-0,0-1-12]				
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 0.51	Vert(LL) -0.04 5-6 >999 360	MT20	197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.28	Vert(CT) -0.08 5-6 >999 240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.20	Horz(CT) 0.02 4 n/a n/a		
BCDL 10.0	Code IRC2018/TPI2014	Matrix-S	Wind(LL) 0.01 5-6 >999 240	Weight: 41 lb	FT = 10%

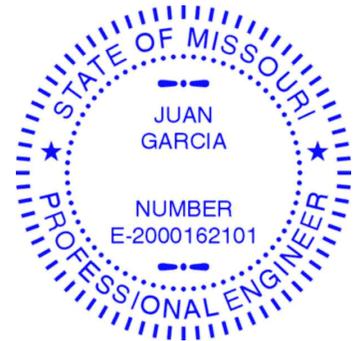
LUMBER-
 TOP CHORD 2x4 SPF No.2
 BOT CHORD 2x4 SPF No.2
 WEBS 2x3 SPF No.2

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 5-7-6 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 7=523/0-3-8, 4=523/0-3-8
 Max Horz 7=-37(LC 4)
 Max Uplift 7=-78(LC 4), 4=-78(LC 5)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-7=-510/91, 1-2=-739/86, 2-3=-739/75, 3-4=-510/103
 BOT CHORD 5-6=-98/643
 WEBS 3-5=-10/594, 1-6=-17/594

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TC DL=6.0psf; BC DL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFERS (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) Bearing at joint(s) 7, 4 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.



November 12, 2019

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Job 400370	Truss J1	Truss Type Diagonal Hip Girder	Qty 2	Ply 1	Lot 24 HT	I39252202
Wheeler Lumber, Waverly, KS 66871					8.240 s Jul 14 2019 MiTek Industries, Inc. Tue Nov 12 11:07:17 2019 Page 1	
					Job Reference (optional)	

ID:XXAsF4MdGikvF3O7A2bzF0yH?NM-kczCGrwUof7P14kGaiyLTfXGg4ANtQ2bZQUBTyJxqu

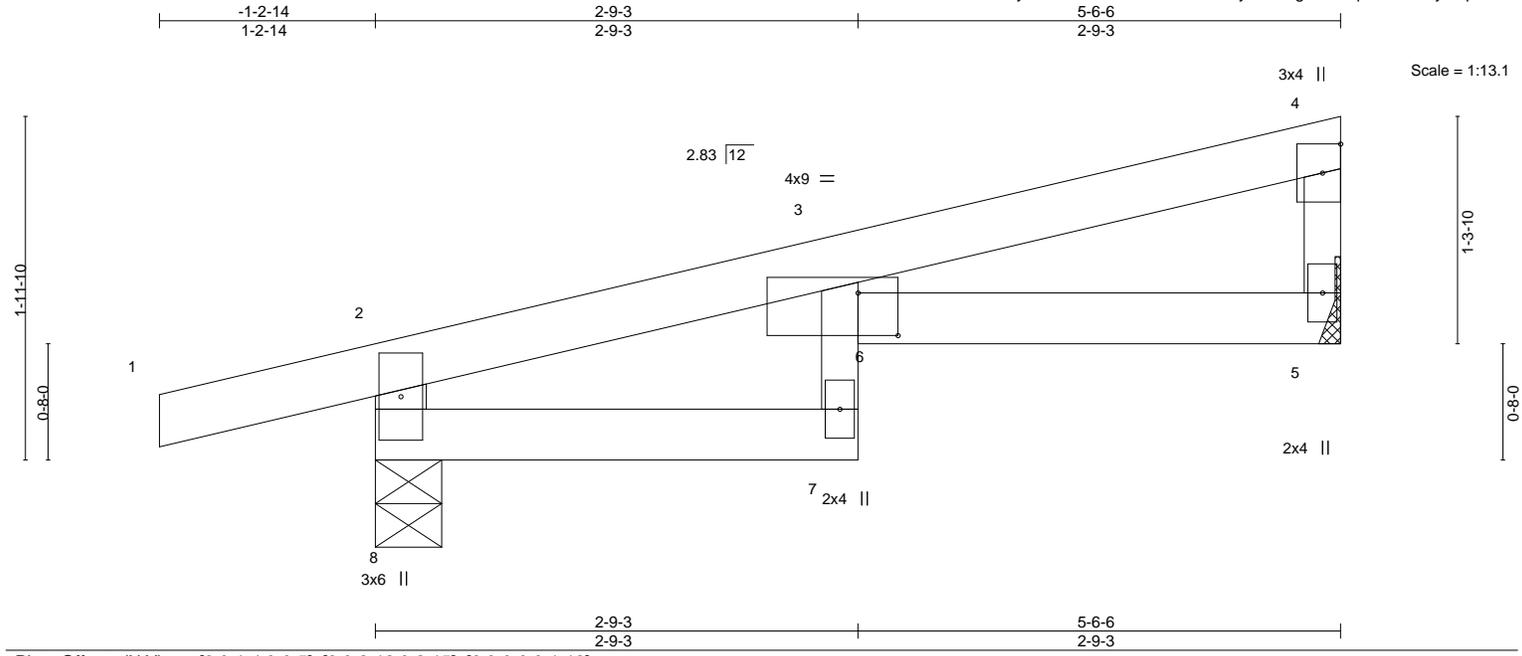


Plate Offsets (X,Y)-- [3:0-1-4,0-0-5], [3:0-2-12,0-2-15], [6:0-0-0,0-1-12]

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 0.31	Vert(LL)	-0.04	6	>999	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.45	Vert(CT)	-0.07	7	>882		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.00	Horz(CT)	0.02	5	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-R	Wind(LL)	0.04	6	>999	Weight: 16 lb	FT = 10%

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied or 5-6-6 oc purlins, except end verticals.
BOT CHORD 2x4 SPF No.2 *Except* 3-7: 2x3 SPF No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SPF No.2 *Except* 4-5: 2x3 SPF No.2	

REACTIONS. (lb/size) 8=347/0-4-9, 5=225/Mechanical
 Max Horz 8=64(LC 22)
 Max Uplift 8=-105(LC 4), 5=-46(LC 8)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-8=-319/120

- NOTES-**
- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) 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) 5 except (jt=lb) 8=105.
 - 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) 67 lb down and 31 lb up at 2-9-8, and 67 lb down and 31 lb up at 2-9-8 on top chord, and 2 lb down and 0 lb up at 2-7-15, and 2 lb down and 0 lb up at 2-7-15 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, 2-4=-70, 7-8=-20, 5-6=-20

Concentrated Loads (lb)
 Vert: 7=1(F=0, B=0)



November 12, 2019

Job 400370	Truss J2	Truss Type Jack-Open	Qty 3	Ply 1	Lot 24 HT 139252203
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Wheeler Lumber, Waverly, KS 66871

8.240 s Jul 14 2019 MiTek Industries, Inc. Tue Nov 12 11:07:22 2019 Page 1
ID: XxAsF4MdGikvF3O7A2bzF0yH?NM-5Zn5JZ_cdBlirrdENFYWAI6y5zsNk3nkq7FsgyJxqp

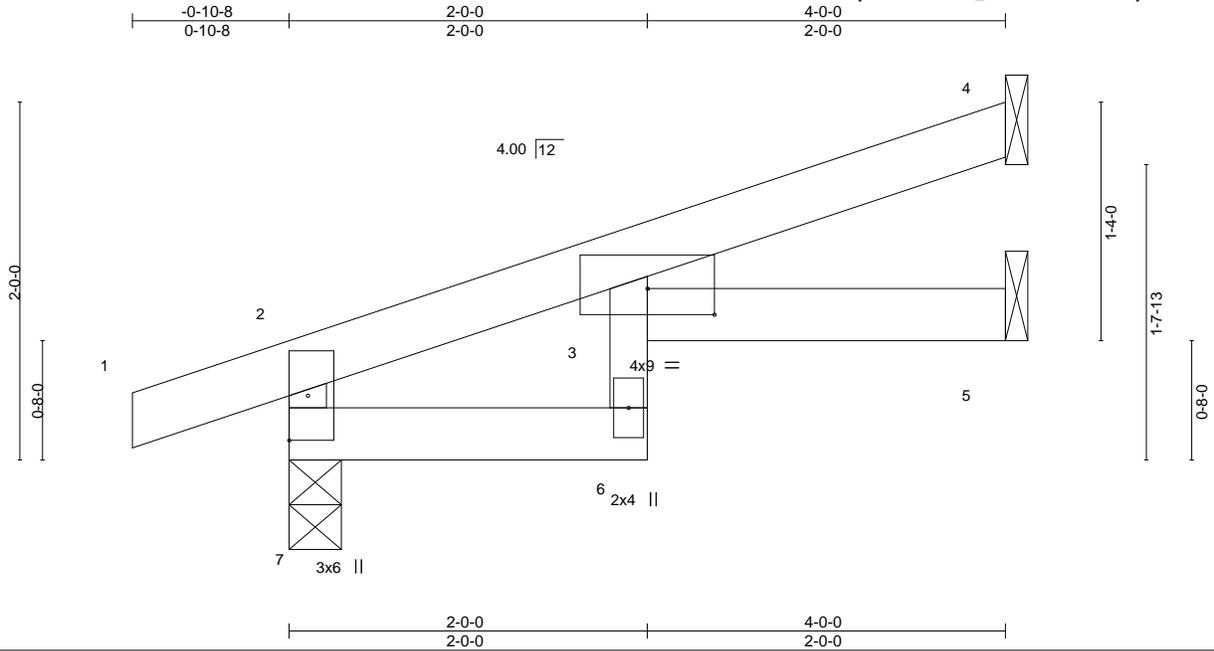


Plate Offsets (X,Y)--	[2:0-0-7,0-1-4], [3:0-4-8,0-1-12], [7:0-0-0,0-1-4]
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LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 25.0	2-0-0	TC 0.27	in (loc) l/defl L/d	MT20	197/144
TCDL 10.0	Plate Grip DOL 1.15	BC 0.17	Vert(LL) -0.02 6 >999 360		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.00	Vert(CT) -0.04 6 >999 240		
BCDL 10.0	Rep Stress Incr YES	Matrix-R	Horz(CT) 0.03 5 n/a n/a	Weight: 11 lb	FT = 10%
	Code IRC2018/TPI2014		Wind(LL) 0.02 6 >999 240		

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied or 4-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SPF No.2 *Except* 3-6: 2x3 SPF No.2	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 2x3 SPF No.2	

REACTIONS. (lb/size) 7=250/0-3-8, 4=100/Mechanical, 5=64/Mechanical
 Max Horz 7=63(LC 4)
 Max Uplift 7=-64(LC 4), 4=-39(LC 8), 5=-5(LC 8)
 Max Grav 7=250(LC 1), 4=100(LC 1), 5=65(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 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) 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.



November 12, 2019

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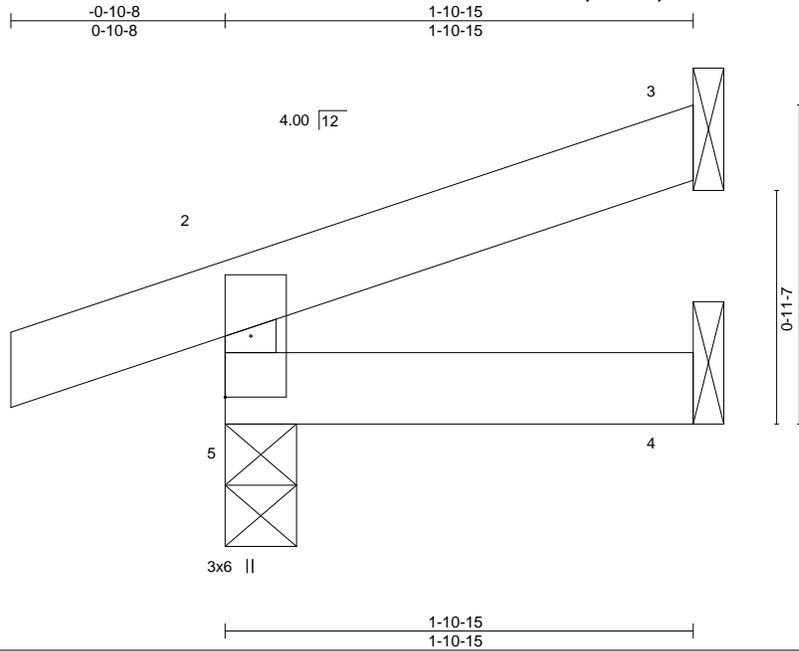
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job 400370	Truss J3	Truss Type Jack-Open	Qty 4	Ply 1	Lot 24 HT Job Reference (optional)	I39252204
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Wheeler Lumber, Waverly, KS 66871

8.240 s Jul 14 2019 MiTek Industries, Inc. Tue Nov 12 11:07:28 2019 Page 1

ID: XxAsF4MdGikvF3O7A2bzF0yH?NM-wj8Nac3NC1WrZm4NjWfwPzVCgW2bnSYg7maZ3KyJxqj



Scale = 1:9.4

Plate Offsets (X,Y)--	[2:0-0-7,0-1-4], [5:0-0-0,0-1-4]				
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 0.06	Vert(LL) -0.00 5 >999 360	MT20	197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.02	Vert(CT) -0.00 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 5 >999 240	Weight: 6 lb	FT = 10%

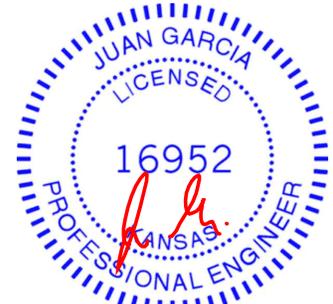
LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied or 1-10-15 oc purlins, except end verticals.
BOT CHORD 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x3 SPF No.2	

REACTIONS. (lb/size) 5=168/0-3-8, 3=46/Mechanical, 4=16/Mechanical
 Max Horz 5=35(LC 4)
 Max Uplift 5=-57(LC 4), 3=-26(LC 8)
 Max Grav 5=168(LC 1), 3=46(LC 1), 4=33(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; TC DL=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) 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.



November 12, 2019

<p>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.</p> <p>Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.</p>	 <p>16023 Swingley Ridge Rd Chesterfield, MO 63017</p>
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Job 400370	Truss J4	Truss Type Jack-Closed Supported Gable	Qty 1	Ply 1	Lot 24 HT I39252205
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Wheeler Lumber, Waverly, KS 66871

8.240 s Jul 14 2019 MiTek Industries, Inc. Tue Nov 12 11:07:34 2019 Page 1

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Scale = 1:9.5

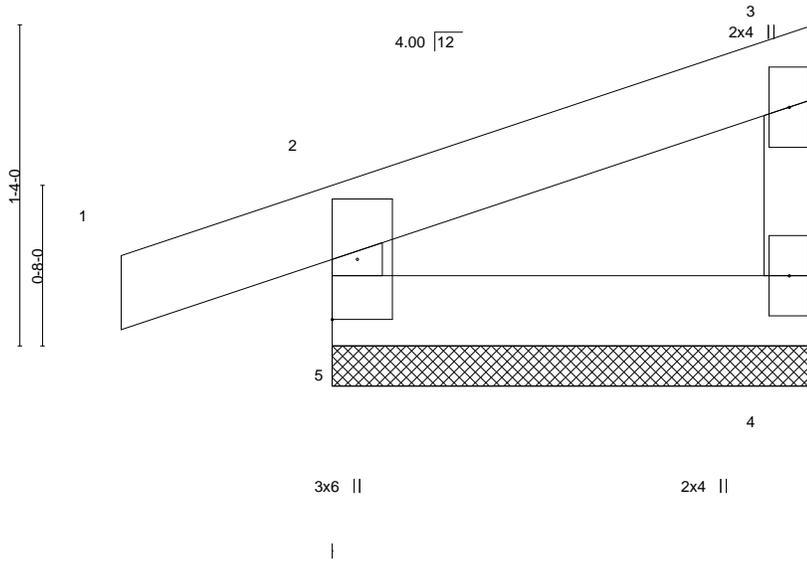


Plate Offsets (X,Y)--	[2:0-0-7,0-1-4], [5:0-0-0,0-1-4]				
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL 1.15	TC 0.06	Vert(LL) 0.00 1 n/r 120	MT20	197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.02	Vert(CT) -0.00 1 n/r 120		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT) -0.00 4 n/a n/a		
BCDL 10.0	Code IRC2018/TPI2014	Matrix-R		Weight: 7 lb	FT = 10%

LUMBER-
 TOP CHORD 2x4 SPF No.2
 BOT CHORD 2x4 SPF No.2
 WEBS 2x3 SPF No.2

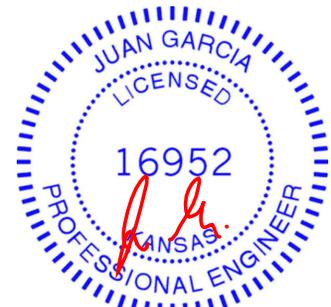
BRACING-
 TOP CHORD Structural wood sheathing directly applied or 2-0-0 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 5=168/2-0-0, 4=62/2-0-0
 Max Horz 5=49(LC 5)
 Max Uplift 5=63(LC 4), 4=-14(LC 5)

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; MWFRRS (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) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 3) Gable requires continuous bottom chord bearing.
- 4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 5) Gable studs spaced at 2-0-0 oc.
- 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 100 lb uplift at joint(s) 5, 4.
- 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.



November 12, 2019

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Job 400370	Truss J5	Truss Type Jack-Closed	Qty 5	Ply 1	Lot 24 HT	I39252206
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Wheeler Lumber, Waverly, KS 66871

8.240 s Jul 14 2019 MiTek Industries, Inc. Tue Nov 12 11:07:40 2019 Page 1

ID: XxAsF4MdGikvF3O7A2bzF0yH?NM-Z1sv5iCvOj080c?hQ1tkuV_FeM8RbtWRteUCVdyJxqX



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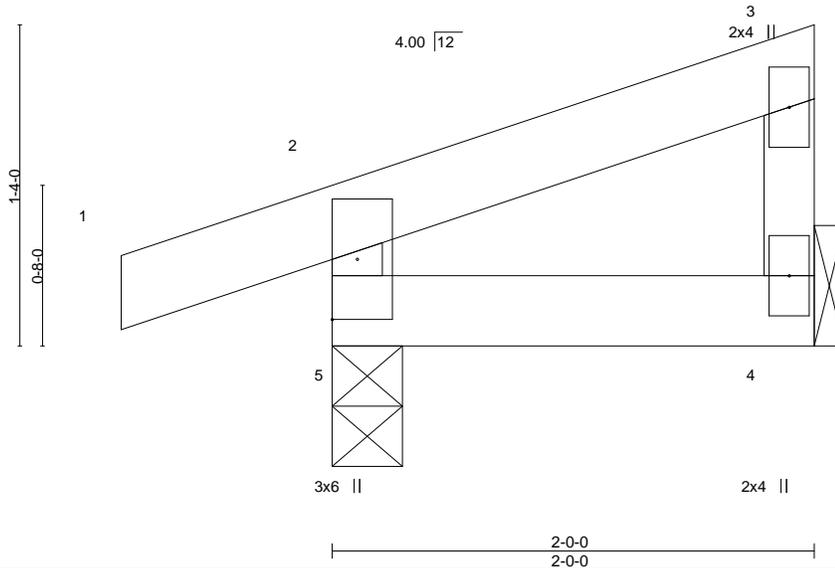


Plate Offsets (X,Y)--	[2:0-0-7,0-1-4], [5:0-0-0,0-1-4]
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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP	
TCLL 25.0	Plate Grip DOL	1.15	TC 0.06	Vert(LL)	-0.00	5	>999	360	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.02	Vert(CT)	-0.00	5	>999	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	-0.00	4	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-R	Wind(LL)	0.00	5	>999	240	Weight: 7 lb	FT = 10%

LUMBER-
 TOP CHORD 2x4 SPF No.2
 BOT CHORD 2x4 SPF No.2
 WEBS 2x3 SPF No.2

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

REACTIONS. (lb/size) 5=168/0-3-8, 4=62/Mechanical
 Max Horz 5=49(LC 5)
 Max Uplift 5=-63(LC 4), 4=-14(LC 5)

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) 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, 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.



November 12, 2019

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/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.

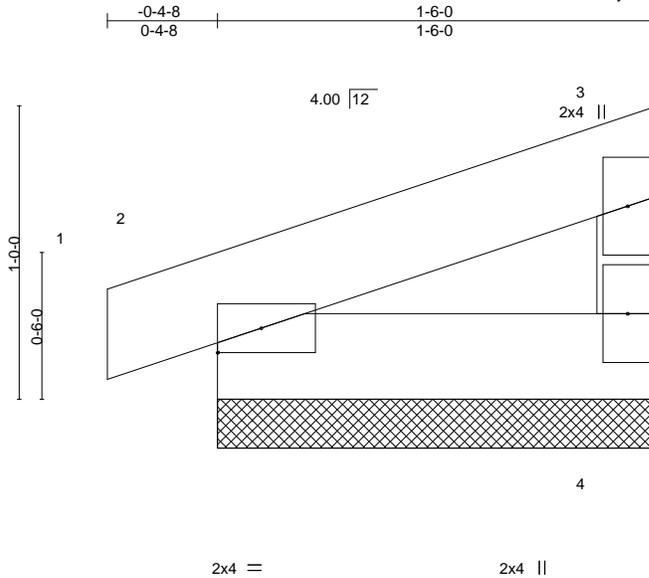


Job 400370	Truss J7	Truss Type JACK-CLOSED SUPPORTE	Qty 2	Ply 1	Lot 24 HT 139252207
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Wheeler Lumber, Waverly, KS 66871

8.240 s Jul 14 2019 MiTek Industries, Inc. Tue Nov 12 11:07:40 2019 Page 1

ID: XxAsF4MdGikvF3O7A2bzF0yH?NM-Z1sv5iCvOj080c?hQ1tkuV_FDM8XbtWRteUCVdyJxqX



Scale = 1:7.8

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 0.03	Vert(LL)	-0.00	1	n/r	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.02	Vert(CT)	0.00	1	n/r		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	-0.00	4	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-P					Weight: 4 lb	FT = 10%

LUMBER-
 TOP CHORD 2x4 SPF No.2
 BOT CHORD 2x4 SPF No.2
 WEBS 2x3 SPF No.2

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

REACTIONS. (lb/size) 4=59/1-6-0, 2=93/1-6-0
 Max Horz 2=28(LC 5)
 Max Uplift 4=-14(LC 8), 2=-27(LC 4)

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

NOTES-

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 2.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



November 12, 2019

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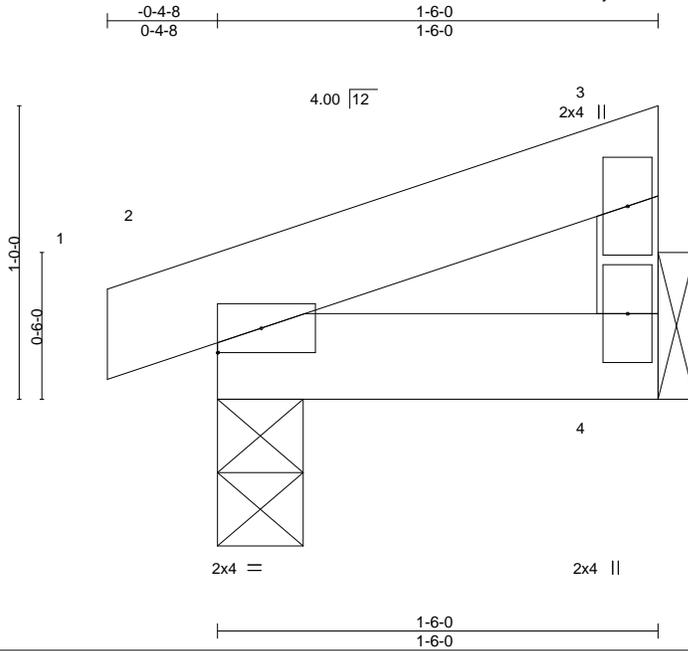


Job 400370	Truss J8	Truss Type JACK-CLOSED	Qty 2	Ply 1	Lot 24 HT 139252208
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Wheeler Lumber, Waverly, KS 66871

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Scale = 1:7.8

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

LUMBER-
 TOP CHORD 2x4 SPF No.2
 BOT CHORD 2x4 SPF No.2
 WEBS 2x3 SPF No.2

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

REACTIONS. (lb/size) 4=57/Mechanical, 2=94/0-3-8
 Max Horz 2=28(LC 5)
 Max Uplift 4=-13(LC 8), 2=-28(LC 4)

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) 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.



November 12, 2019

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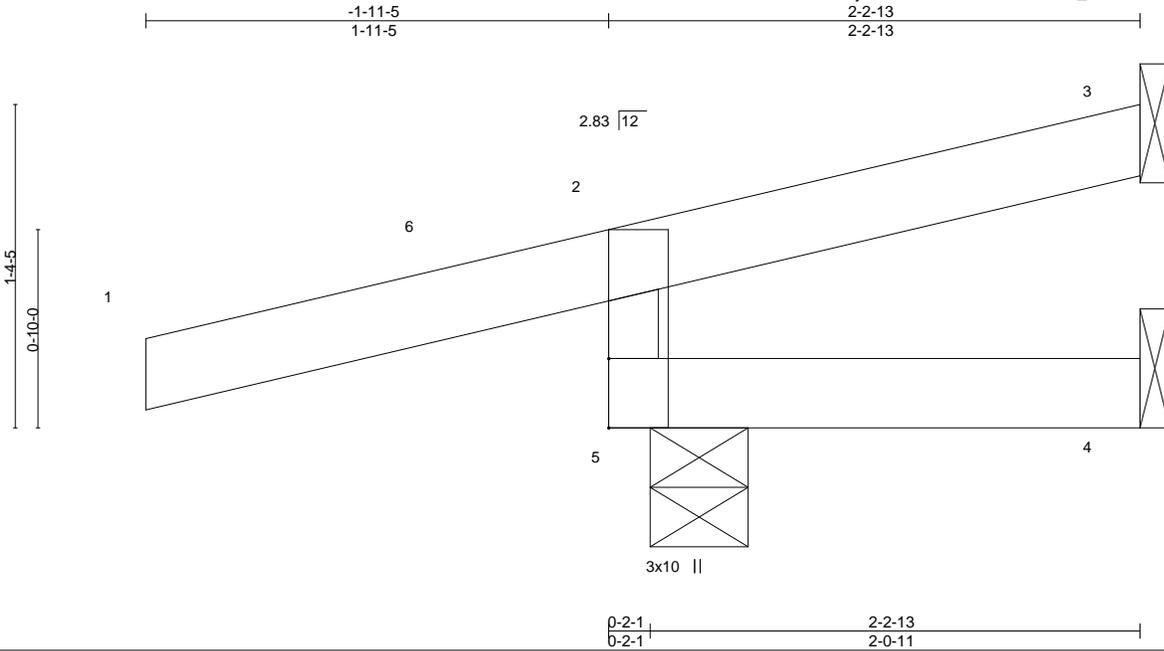


Job 400370	Truss J9	Truss Type Diagonal Hip Girder	Qty 2	Ply 1	Lot 24 HT	I39252209
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Wheeler Lumber, Waverly, KS 66871

8.240 s Jul 14 2019 MiTek Industries, Inc. Tue Nov 12 11:07:41 2019 Page 1

ID:XXAsF4MdGikvF3O7A2bzF0yH?NM-1DQHJ2DX908?dmat_IozRiXOUmUQKKma6IE14yJxqW



Scale = 1:9.6

Plate Offsets (X,Y)--	[2:0-0-5,0-1-4], [5:0-0-0,0-1-4]				
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 0.19	Vert(LL) -0.00 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 NO	WB 0.00	Horz(CT) -0.00 3 n/a n/a		
BCDL 10.0	Code IRC2018/TPI2014	Matrix-R	Wind(LL) -0.00 5 >999 240	Weight: 8 lb	FT = 10%

LUMBER-
 TOP CHORD 2x4 SPF No.2
 BOT CHORD 2x4 SPF No.2
 WEBS 2x3 SPF No.2

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 2-2-13 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 5=133/0-4-15, 3=4/Mechanical, 4=2/Mechanical
 Max Horz 5=43(LC 7)
 Max Uplift 5=-141(LC 6), 3=-15(LC 12)
 Max Grav 5=133(LC 1), 3=8(LC 4), 4=27(LC 3)

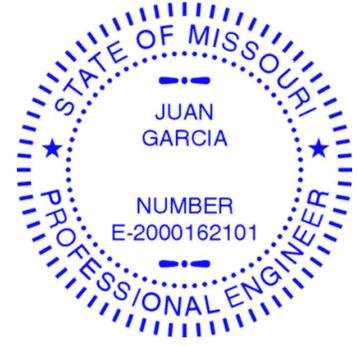
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TC DL=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) 3 except (jt=lb) 5=141.
- 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) 22 lb down and 8 lb up at -1-11-5, and 22 lb down and 8 lb up at -1-11-5 on top 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
 Concentrated Loads (lb)
 Vert: 1=-35(F=-18, B=-18)
 Trapezoidal Loads (plf)
 Vert: 1=-0(F=35, B=35)-to-6=-24(F=23, B=23), 6=0(F=35, B=35)-to-2=-13(F=29, B=29), 2=-13(F=29, B=29)-to-3=-49(F=10, B=10), 5=-4(F=8, B=8)-to-4=-14(F=3, B=3)

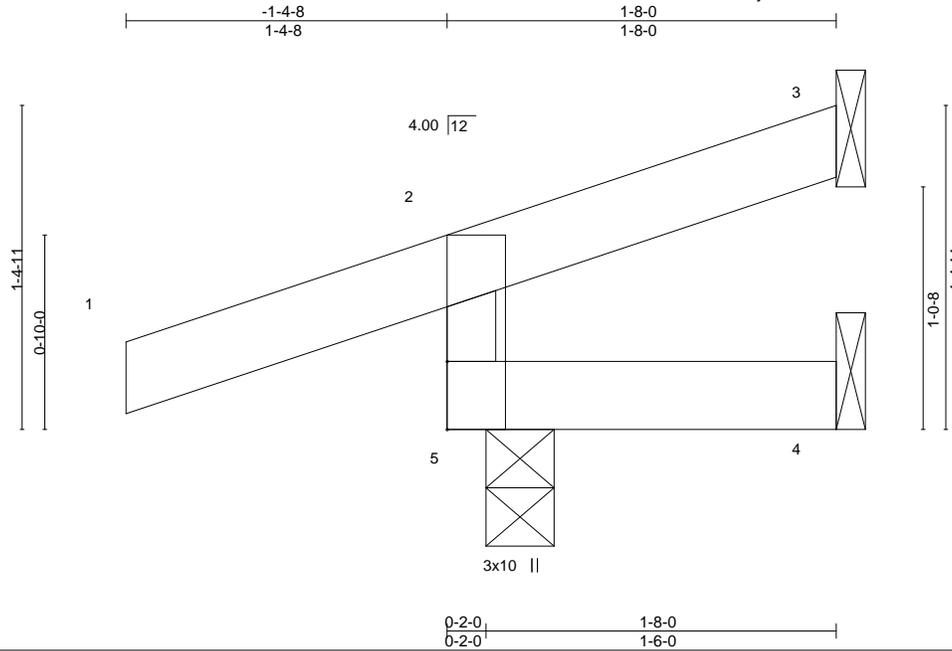


November 12, 2019

Job 400370	Truss J10	Truss Type Jack-Open	Qty 3	Ply 1	Lot 24 HT Job Reference (optional)	I39252210
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Wheeler Lumber, Waverly, KS 66871

8.240 s Jul 14 2019 MiTek Industries, Inc. Tue Nov 12 11:07:17 2019 Page 1
ID: XxAsF4MdGikvF3O7A2bzF0yH?NM-kczCGrwUof7PI4kGaiyLTfXIB4H2iQt2bZQUBTyJxqu



Scale = 1:9.8

Plate Offsets (X,Y)--	[2:0-0-7,0-1-4], [5:0-0-0,0-1-4]
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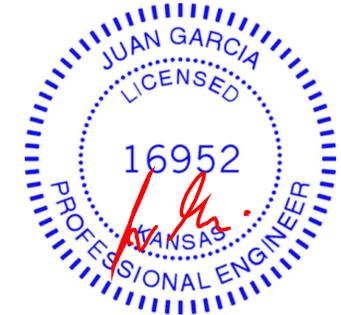
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.14	Vert(LL)	-0.00	5	>999	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.02	Vert(CT)	-0.00	5	>999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	-0.00	3	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-R	Wind(LL)	0.00	5	>999	Weight: 6 lb	FT = 10%

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied or 1-8-0 oc purlins, except end verticals.
BOT CHORD 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x3 SPF No.2	

REACTIONS. (lb/size) 5=223/0-3-8, 3=13/Mechanical, 4=7/Mechanical
 Max Horz 5=38(LC 4)
 Max Uplift 5=-90(LC 4), 3=-15(LC 8)
 Max Grav 5=223(LC 1), 3=13(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; TC DL=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) 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.



November 12, 2019

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job 400370	Truss J11	Truss Type Diagonal Hip Girder	Qty 1	Ply 1	Lot 24 HT	I39252211
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Wheeler Lumber, Waverly, KS 66871

8.240 s Jul 14 2019 MiTek Industries, Inc. Tue Nov 12 11:07:18 2019 Page 1

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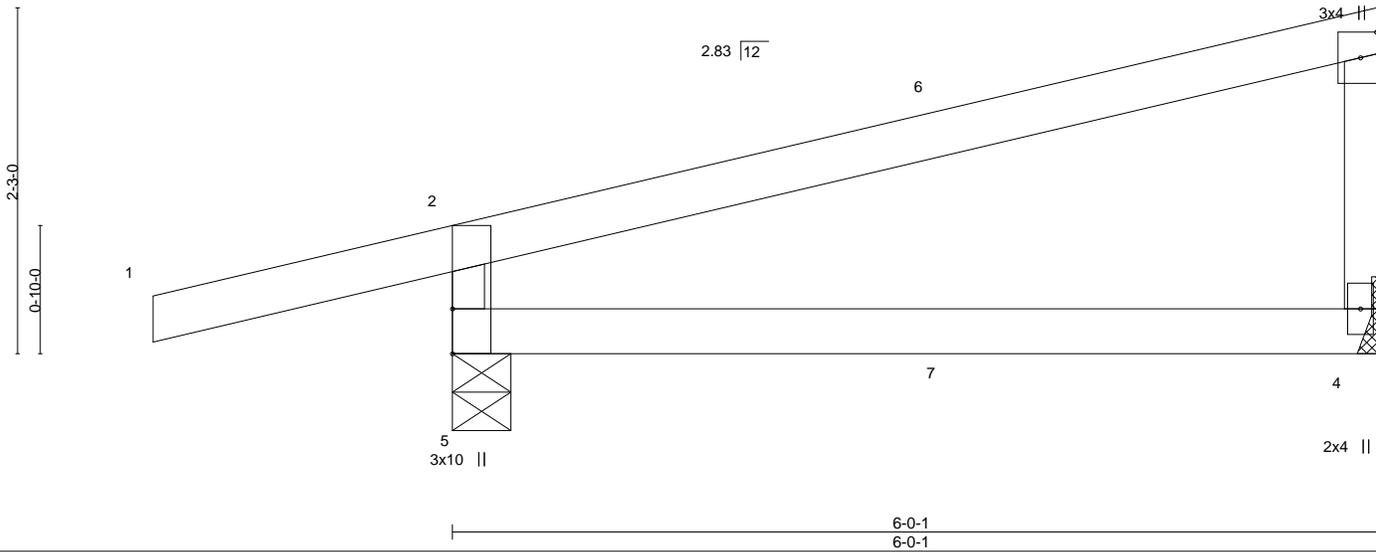


Plate Offsets (X,Y)--	[2:0-0-5,0-1-4], [5:0-0-0,0-1-4]
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LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 25.0	2-0-0	TC 0.43	in (loc) l/defl L/d	MT20	197/144
TCDL 10.0	Plate Grip DOL 1.15	BC 0.30	Vert(LL) -0.05 4-5 >999 360		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.00	Vert(CT) -0.09 4-5 >766 240		
BCDL 10.0	Rep Stress Incr NO	Matrix-R	Horz(CT) 0.00 4 n/a n/a	Weight: 18 lb	FT = 10%
	Code IRC2018/TPI2014		Wind(LL) 0.01 4-5 >999 240		

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x3 SPF No.2	

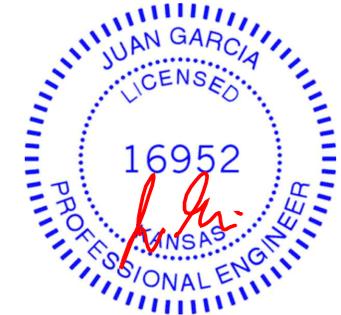
REACTIONS. (lb/size) 5=427/0-4-9, 4=233/Mechanical
 Max Horz 5=90(LC 5)
 Max Uplift 5=145(LC 4), 4=47(LC 8)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-5=-378/183

- NOTES-**
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 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.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4 except (jt=lb) 5=145.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 68 lb down and 30 lb up at 3-3-2, and 68 lb down and 30 lb up at 3-3-2 on top chord, and 4 lb down and 2 lb up at 3-3-2, and 4 lb down and 2 lb up at 3-3-2 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
 - In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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



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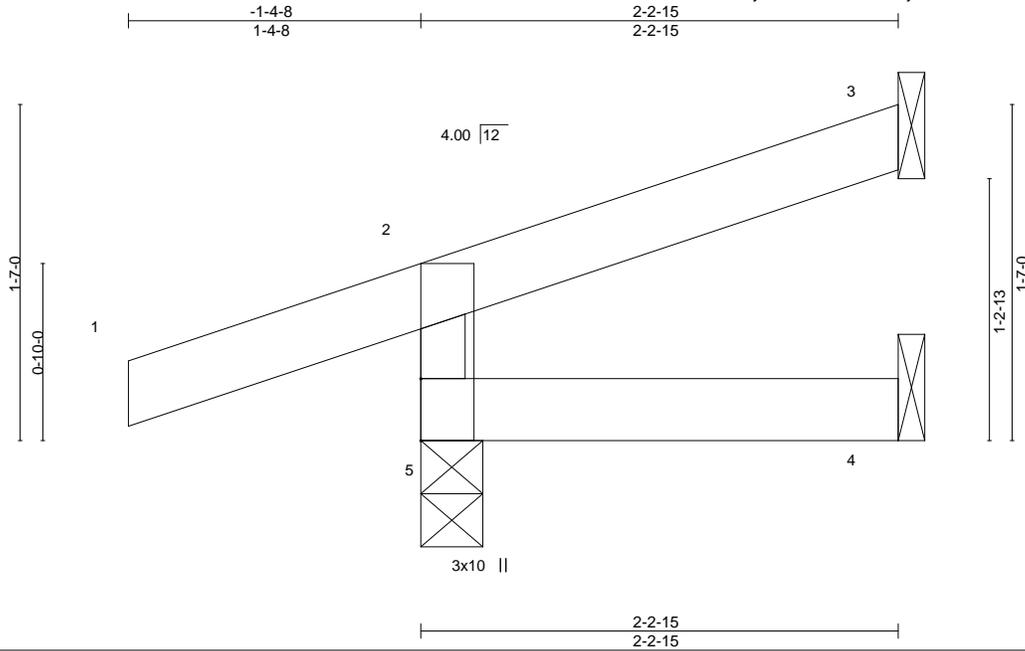
Job 400370	Truss J12	Truss Type Jack-Open	Qty 2	Ply 1	Lot 24 HT	I39252212
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Wheeler Lumber, Waverly, KS 66871

8.240 s Jul 14 2019 MiTek Industries, Inc. Tue Nov 12 11:07:18 2019 Page 1

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Job Reference (optional)



Scale = 1:10.8

Plate Offsets (X,Y)--	[2:0-0-7,0-1-4], [5:0-0-0,0-1-4]				
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 0.14	Vert(LL) -0.00 5 >999 360	MT20	197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.03	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 5 >999 240	Weight: 7 lb	FT = 10%

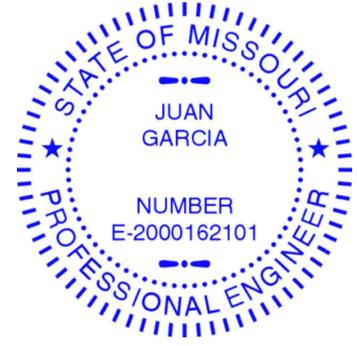
LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied or 2-2-15 oc purlins, except end verticals.
BOT CHORD 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x3 SPF No.2	

REACTIONS. (lb/size) 5=234/0-3-8, 3=42/Mechanical, 4=15/Mechanical
 Max Horz 5=46(LC 4)
 Max Uplift 5=-87(LC 4), 3=-27(LC 8)
 Max Grav 5=234(LC 1), 3=42(LC 1), 4=38(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; TC DL=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) 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.



November 12, 2019

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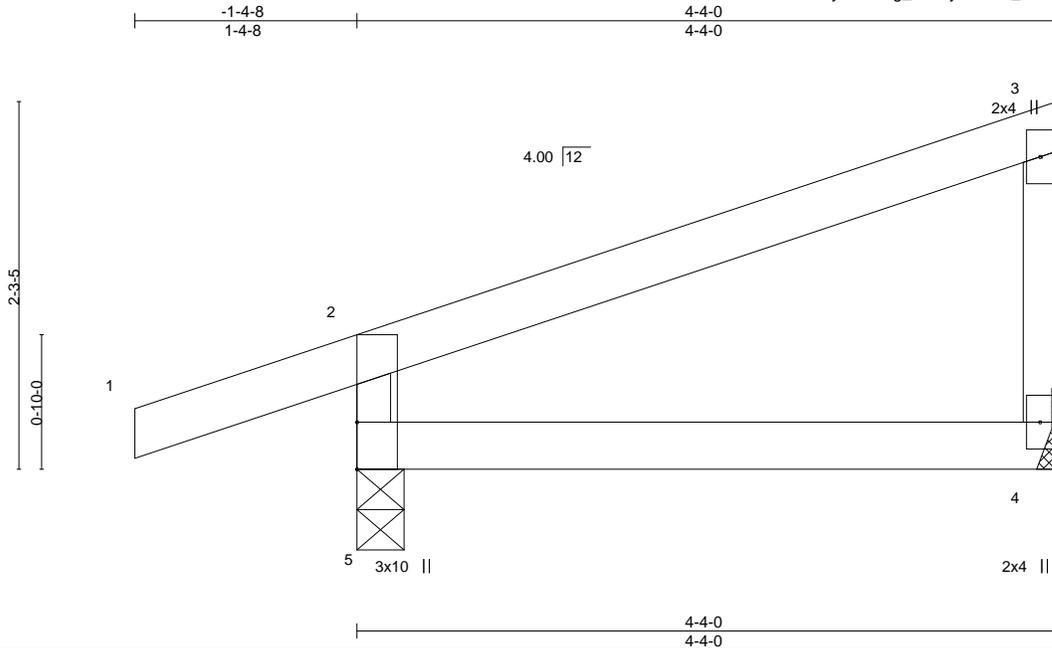
16023 Swingley Ridge Rd
 Chesterfield, MO 63017

Job 400370	Truss J13	Truss Type Jack-Closed	Qty 3	Ply 1	Lot 24 HT	I39252213
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Wheeler Lumber, Waverly, KS 66871

8.240 s Jul 14 2019 MiTek Industries, Inc. Tue Nov 12 11:07:19 2019 Page 1

ID: XxAsF4MdGikvF3O7A2bzF0yH?NM-g_5zhXykKGN7_Oufh7_pY4dd?uxmANJL2tvbFLyJxqs



Scale = 1:14.2

Plate Offsets (X,Y)--	[2:0-0-7,0-1-4], [5:0-0-0,0-1-4]				
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 0.19	Vert(LL) -0.01 4-5 >999 360	MT20	197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.13	Vert(CT) -0.02 4-5 >999 240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT) -0.00 4 n/a n/a		
BCDL 10.0	Code IRC2018/TPI2014	Matrix-R	Wind(LL) 0.00 4-5 >999 240	Weight: 14 lb	FT = 10%

LUMBER-
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x3 SPF No.2

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

REACTIONS. (lb/size) 5=308/0-3-8, 4=167/Mechanical
Max Horz 5=94(LC 5)
Max Uplift 5=100(LC 4), 4=37(LC 8)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-5=-271/129

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TC DL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) 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) 5, 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.



November 12, 2019

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Job	Truss	Truss Type	Qty	Ply	Lot 24 HT	I39252214
400370	J14	Diagonal Hip Girder	2	1		

Wheeler Lumber, Waverly, KS 66871

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ID: XxAsF4MdGikvF3O7A2bzF0yH?NM-9BfLutyM5aV_cXTrFrW24H9eflCFvqZUHWe8noyJxqr

Job Reference (optional)

-1-11-5
1-11-5

7-8-9
7-8-9

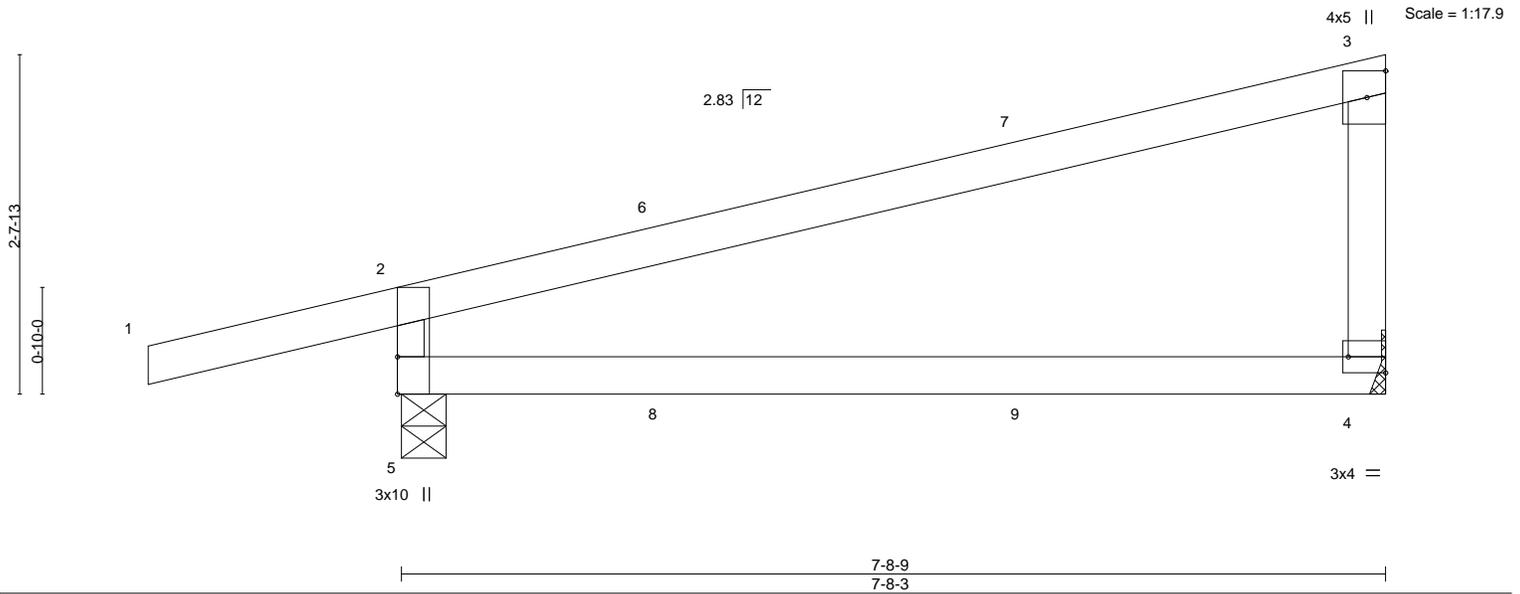


Plate Offsets (X,Y)-- [2:0-0-5,0-1-4], [4:Edge,0-1-8], [5:0-0-0,0-1-4]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 25.0	Plate Grip DOL 2-0-0	TC 0.77	in (loc) l/defl L/d	MT20	197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.50	Vert(LL) -0.12 4-5 >774 360		
BCLL 0.0 *	Rep Stress Incr NO	WB 0.00	Vert(CT) -0.24 4-5 >378 240		
BCDL 10.0	Code IRC2018/TPI2014	Matrix-R	Horz(CT) 0.00 4 n/a n/a		
			Wind(LL) 0.02 4-5 >999 240	Weight: 23 lb	FT = 10%

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

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

REACTIONS. (lb/size) 5=495/0-4-3, 4=319/Mechanical
 Max Horz 5=106(LC 5)
 Max Uplift 5=-158(LC 4), 4=-71(LC 8)

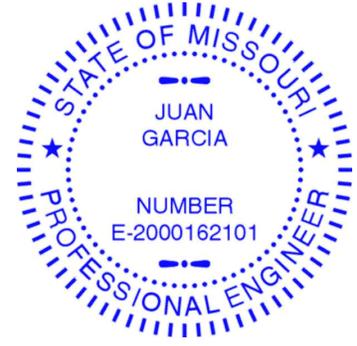
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-5=-439/210

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=158.
- 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) 70 lb down and 72 lb up at 2-1-12, 70 lb down and 72 lb up at 2-1-12, and 84 lb down and 57 lb up at 4-11-11, and 84 lb down and 57 lb up at 4-11-11 on top chord, and 3 lb down and 5 lb up at 2-1-12, 3 lb down and 5 lb up at 2-1-12, and 17 lb down at 4-11-11, and 17 lb down at 4-11-11 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=10(F=5, B=5) 9=-8(F=-4, B=-4)



November 12, 2019

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Job 400370	Truss J16	Truss Type Jack-Open	Qty 15	Ply 1	Lot 24 HT	I39252215
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Wheeler Lumber, Waverly, KS 66871

8.240 s Jul 14 2019 MiTek Industries, Inc. Tue Nov 12 11:07:20 2019 Page 1

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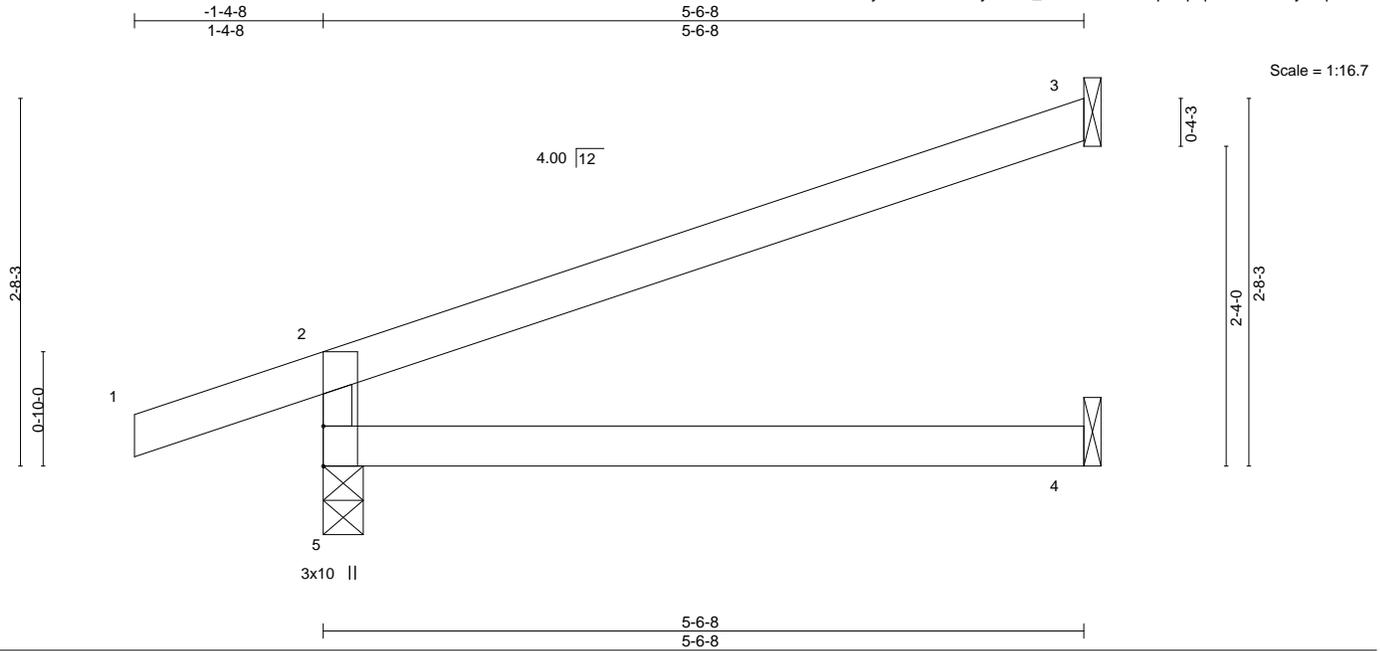


Plate Offsets (X,Y)--	[2:0-0-7,0-1-4], [5:0-0-0,0-1-4]				
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL 1.15	TC 0.44	Vert(LL) -0.04 4-5 >999 360	MT20	197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.27	Vert(CT) -0.09 4-5 >740 240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT) 0.03 3 n/a n/a		
BCDL 10.0	Code IRC2018/TPI2014	Matrix-R	Wind(LL) 0.02 4-5 >999 240	Weight: 15 lb	FT = 10%

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied or 5-6-8 oc purlins, except end verticals.
BOT CHORD 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x3 SPF No.2	

REACTIONS. (lb/size) 5=360/0-3-8, 3=167/Mechanical, 4=61/Mechanical
 Max Horz 5=65(LC 4)
 Max Uplift 5=-47(LC 4), 3=-46(LC 8)
 Max Grav 5=360(LC 1), 3=167(LC 1), 4=102(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-5=-313/88

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.



November 12, 2019

Job 400370	Truss J17	Truss Type Jack-Open	Qty 4	Ply 1	Lot 24 HT 139252216
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Wheeler Lumber, Waverly, KS 66871

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Job Reference (optional)

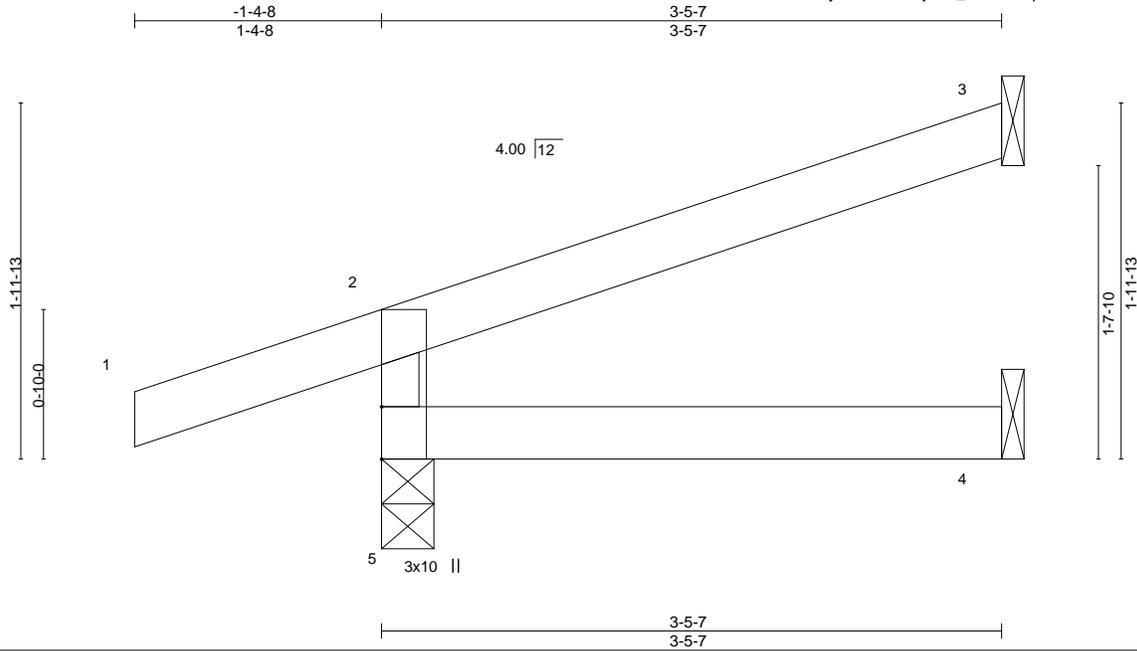


Plate Offsets (X,Y)--	[2:0-0-7,0-1-4], [5:0-0-0,0-1-4]
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LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 25.0	2-0-0	TC 0.14	in (loc) l/defl L/d	MT20	197/144
TCDL 10.0	Plate Grip DOL 1.15	BC 0.09	Vert(LL) -0.01 4-5 >999 360		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.00	Vert(CT) -0.01 4-5 >999 240		
BCDL 10.0	Rep Stress Incr YES	Matrix-R	Horz(CT) -0.00 3 n/a n/a		
	Code IRC2018/TPI2014		Wind(LL) 0.00 4-5 >999 240	Weight: 10 lb	FT = 10%

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied or 3-5-7 oc purlins, except end verticals.
BOT CHORD 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x3 SPF No.2	

REACTIONS. (lb/size) 5=275/0-3-8, 3=92/Mechanical, 4=32/Mechanical
 Max Horz 5=62(LC 4)
 Max Uplift 5=-87(LC 4), 3=-48(LC 8)
 Max Grav 5=275(LC 1), 3=92(LC 1), 4=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; TC DL=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) 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.



November 12, 2019

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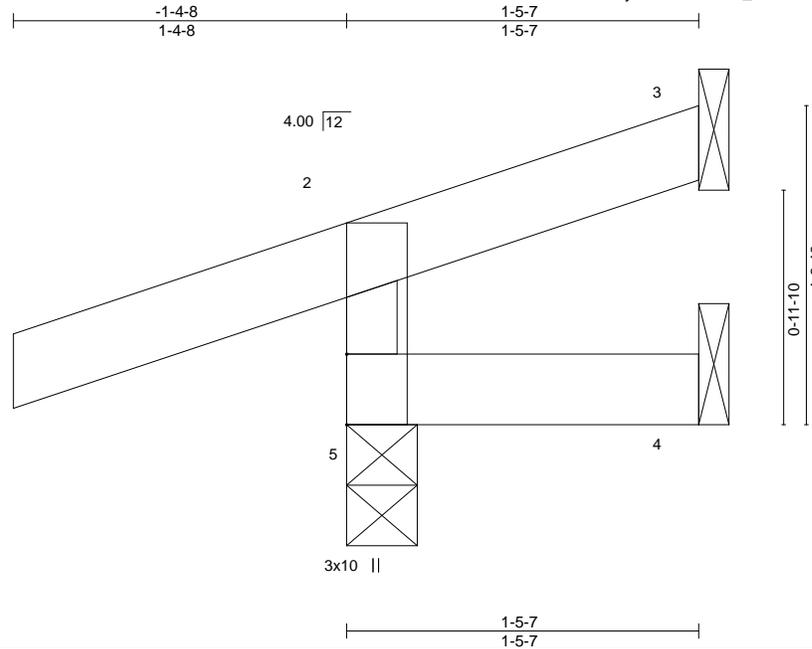


16023 Swingley Ridge Rd
 Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Lot 24 HT	
400370	J18	Jack-Open	4	1		I39252217
Wheeler Lumber, Waverly, KS 66871						Job Reference (optional)

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Scale = 1:9.5

Plate Offsets (X,Y)--	[2:0-0-7,0-1-4], [5:0-0-0,0-1-4]				
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 0.14	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/TPI2014	Matrix-R	Wind(LL) 0.00 5 >999 240	Weight: 5 lb	FT = 10%

LUMBER-
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x3 SPF No.2

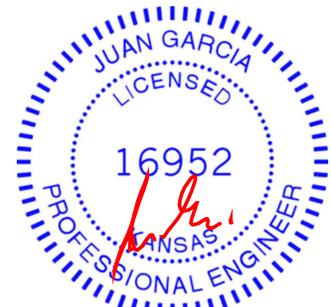
BRACING-
TOP CHORD Structural wood sheathing directly applied or 1-5-7 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 5=221/0-3-8, 3=-1/Mechanical, 4=4/Mechanical
Max Horz 5=36(LC 4)
Max Uplift 5=-93(LC 4), 3=-10(LC 8)
Max Grav 5=221(LC 1), 3=3(LC 19), 4=23(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; TC DL=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) 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.



November 12, 2019

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job 400370	Truss J21	Truss Type Diagonal Hip Girder	Qty 1	Ply 1	Lot 24 HT	I39252218
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Wheeler Lumber, Waverly, KS 66871

8.240 s Jul 14 2019 MiTek Industries, Inc. Tue Nov 12 11:07:23 2019 Page 1

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2-6-5
2-6-5

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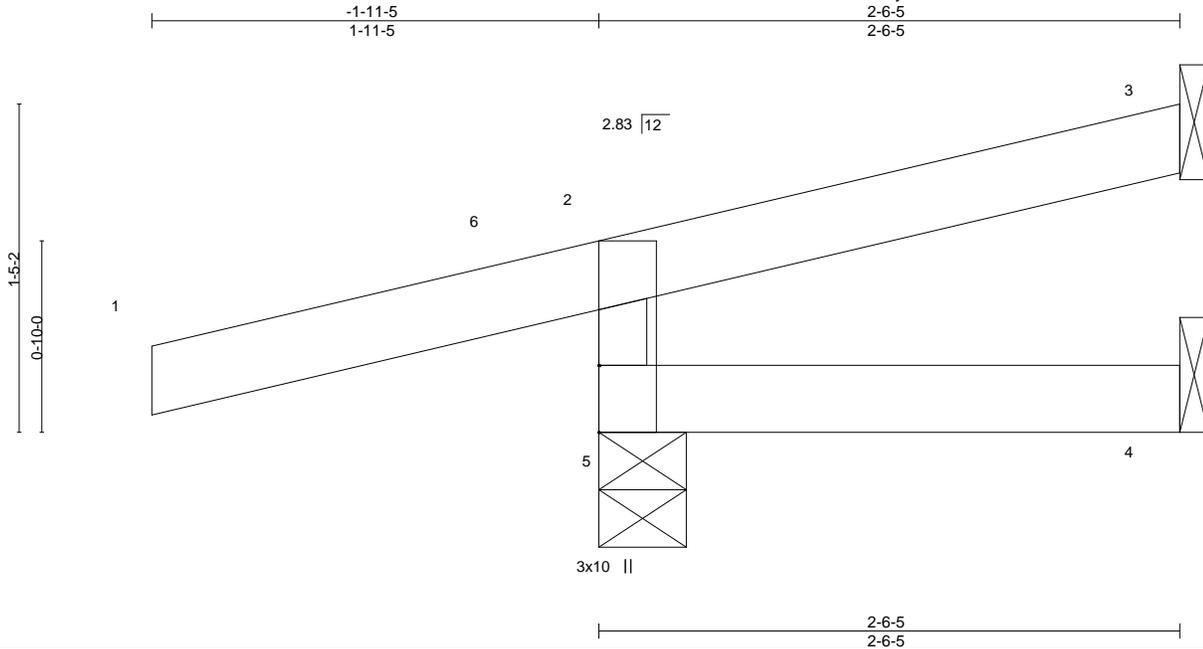


Plate Offsets (X,Y)--	[2:0-0-5,0-1-4], [5:0-0-0,0-1-4]
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LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 25.0	2-0-0	TC 0.23	in (loc) l/defl L/d	MT20	197/144
TCDL 10.0	Plate Grip DOL 1.15	BC 0.05	Vert(LL) -0.00 4-5 >999 360		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.00	Vert(CT) -0.00 4-5 >999 240		
BCDL 10.0	Rep Stress Incr NO	Matrix-R	Horz(CT) -0.00 3 n/a n/a	Weight: 8 lb	FT = 10%
	Code IRC2018/TPI2014		Wind(LL) -0.00 4-5 >999 240		

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied or 2-6-5 oc purlins, except end verticals.
BOT CHORD 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x3 SPF No.2	

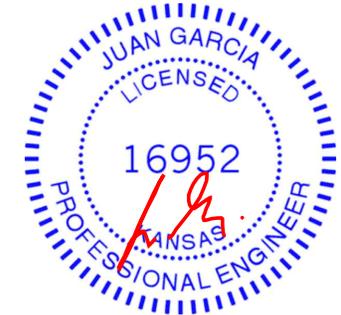
REACTIONS. (lb/size) 5=148/0-4-9, 3=5/Mechanical, 4=1/Mechanical
 Max Horz 5=46(LC 7)
 Max Uplift 5=-128(LC 6), 3=-30(LC 12), 4=-1(LC 19)
 Max Grav 5=148(LC 1), 3=6(LC 4), 4=31(LC 3)

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 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) 3, 4 except (jt=lb) 5=128.
 - 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) 28 lb down and 10 lb up at -1-11-5, and 28 lb down and 10 lb up at -1-11-5 on top 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
Concentrated Loads (lb)
Vert: 1=-44(F=-22, B=-22)
Trapezoidal Loads (plf)
Vert: 1=-0(F=35, B=35)-to-6=-29(F=21, B=21), 6=0(F=35, B=35)-to-2=-7(F=31, B=31), 2=-7(F=31, B=31)-to-3=-50(F=10, B=10), 5=-2(F=9, B=9)-to-4=-14(F=3, B=3)

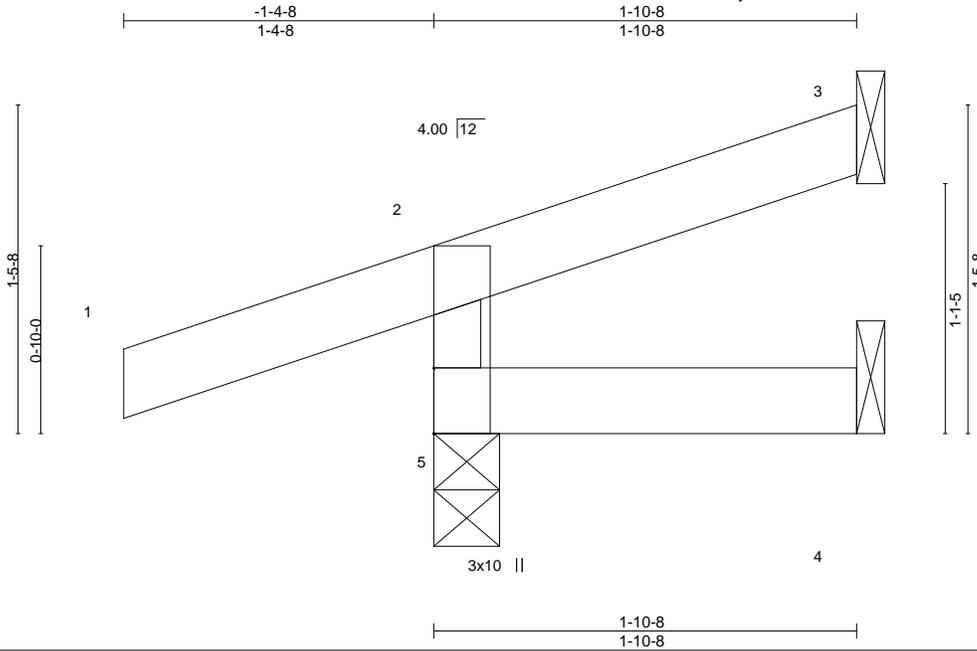


November 12, 2019

Job	Truss	Truss Type	Qty	Ply	Lot 24 HT	I39252219
400370	J22	Jack-Open	1	1		

Wheeler Lumber, Waverly, KS 66871

8.240 s Jul 14 2019 MiTek Industries, Inc. Tue Nov 12 11:07:23 2019 Page 1
 ID: XxAsF4MdGikvF3O7A2bzF0yH?NM-ZmKUXu?FOVtZT?CQwz3liwnJgVKR6BJxzUtoO7yJxqo



Scale = 1:10.2

Plate Offsets (X,Y)--	[2:0-0-7,0-1-4], [5:0-0-0,0-1-4]				
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 0.14	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/TPI2014	Matrix-R	Wind(LL) 0.00 5 >999 240	Weight: 6 lb	FT = 10%

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied or 1-10-8 oc purlins, except end verticals.
BOT CHORD 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x3 SPF No.2	

REACTIONS. (lb/size) 5=226/0-3-8, 3=25/Mechanical, 4=10/Mechanical
 Max Horz 5=41(LC 4)
 Max Uplift 5=-89(LC 4), 3=-20(LC 8)
 Max Grav 5=226(LC 1), 3=25(LC 1), 4=31(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 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.



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Job	Truss	Truss Type	Qty	Ply	Lot 24 HT	
400370	J23	Diagonal Hip Girder	1	1		I39252220
Wheeler Lumber, Waverly, KS 66871						Job Reference (optional)

8.240 s Jul 14 2019 MiTek Industries, Inc. Tue Nov 12 11:07:24 2019 Page 1
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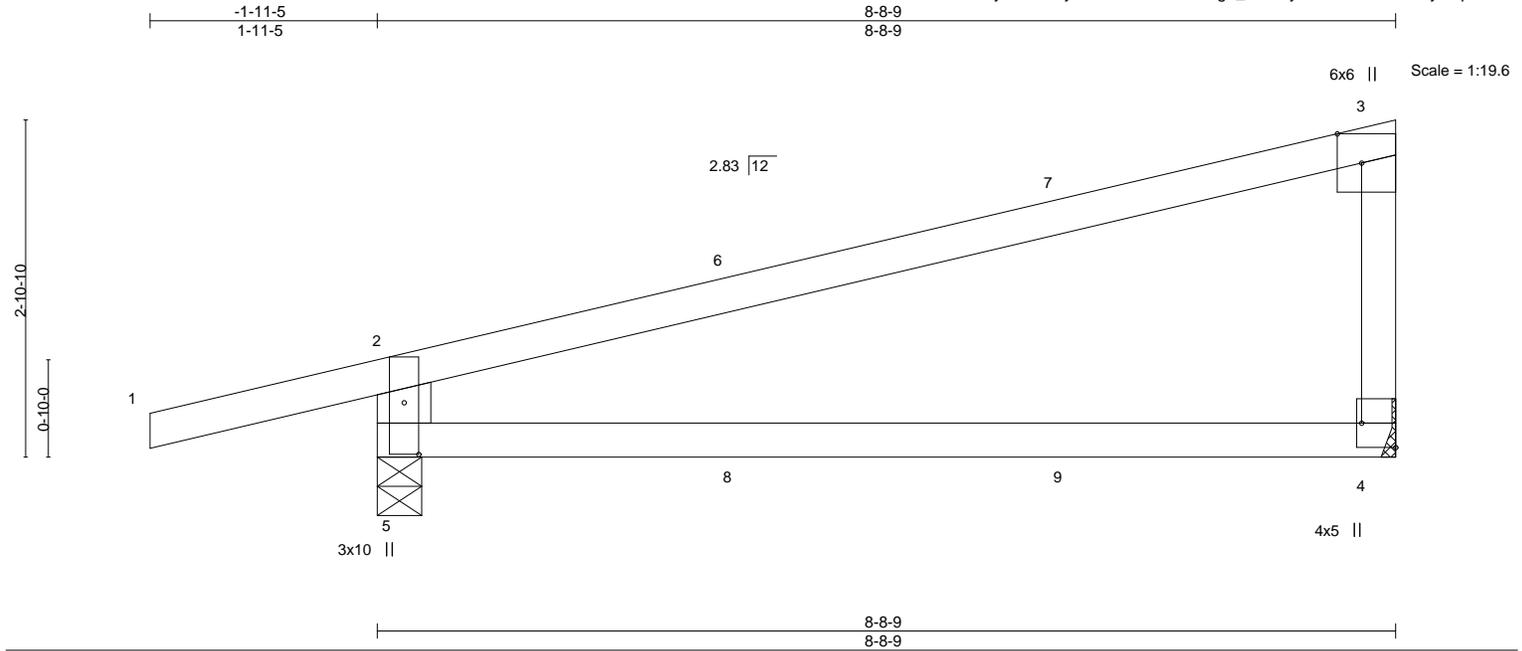


Plate Offsets (X, Y)-- [3:0-3-0, Edge], [4: Edge, 0-3-8], [5: 0-5-5, 0-1-8]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 25.0	2-0-0	TC 0.69	in (loc) l/defl L/d	MT20	197/144
TCDL 10.0	Plate Grip DOL 1.15	BC 0.67	Vert(LL) -0.18 4-5 >543 360		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.00	Vert(CT) -0.39 4-5 >260 240		
BCDL 10.0	Rep Stress Incr NO	Matrix-R	Horz(CT) 0.00 4 n/a n/a		
	Code IRC2018/TPI2014		Wind(LL) 0.05 4-5 >999 240	Weight: 26 lb	FT = 10%

LUMBER-
 TOP CHORD 2x4 SPF 2100F 1.8E
 BOT CHORD 2x4 SPF No.2
 WEBS 2x6 SPF No.2 *Except*
 3-4: 2x4 SPF No.2

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

REACTIONS. (lb/size) 5=564/0-4-9, 4=399/Mechanical
 Max Horz 5=117(LC 24)
 Max Uplift 5=-174(LC 4), 4=-88(LC 8)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-5=-496/237, 3-4=-279/136

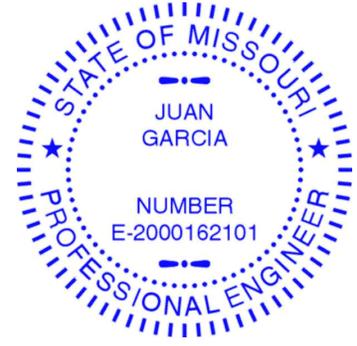
- NOTES-**
- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) This truss has been designed 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=174.
 - 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) 68 lb down and 28 lb up at 3-1-12, 68 lb down and 28 lb up at 3-1-12, and 95 lb down and 66 lb up at 5-11-11, and 95 lb down and 66 lb up at 5-11-11 on top chord, and 3 lb down and 3 lb up at 3-1-12, 3 lb down and 3 lb up at 3-1-12, and 24 lb down at 5-11-11, and 24 lb down at 5-11-11 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=-39(F=-20, B=-20) 8=5(F=3, B=3) 9=-27(F=-14, B=-14)



November 12, 2019

Job	Truss	Truss Type	Qty	Ply	Lot 24 HT	I39252221
400370	J24	Diagonal Hip Girder	1	1		
Job Reference (optional)						

Wheeler Lumber, Waverly, KS 66871

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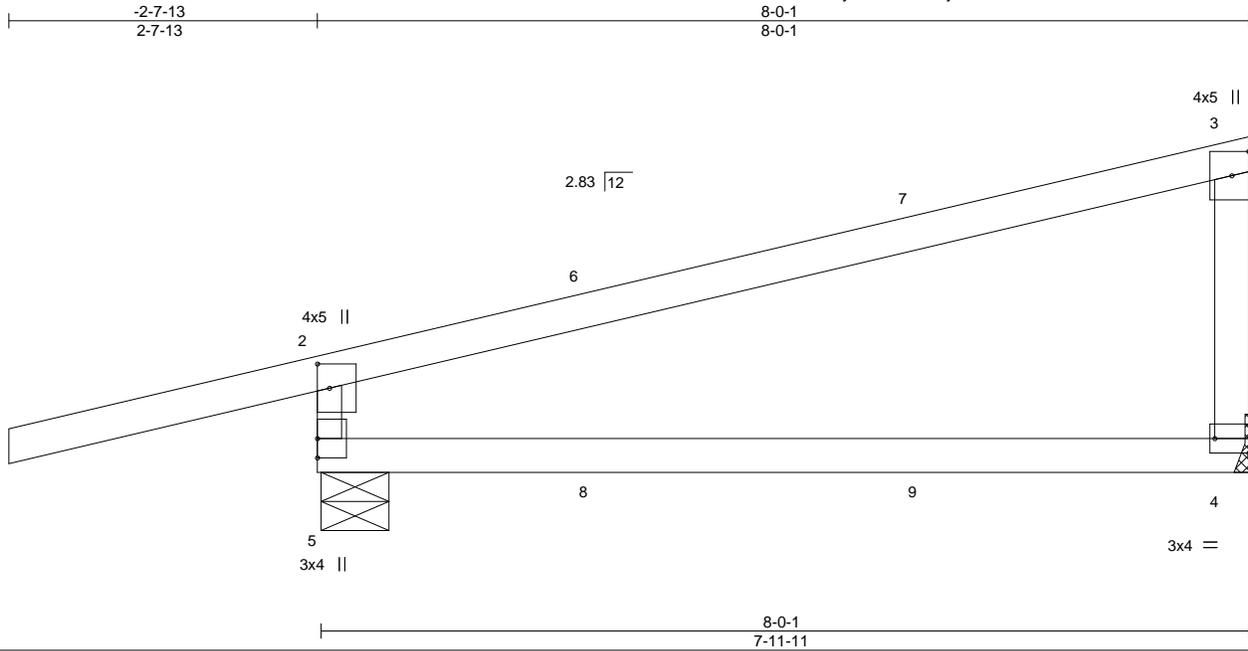


Plate Offsets (X, Y)--	[2:0-2-8,0-1-4], [4:Edge,0-1-8]
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LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 25.0	Plate Grip DOL 2-0-0	TC 0.76	Vert(LL) -0.15	MT20	197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.57	Vert(CT) -0.29		
BCLL 0.0 *	Rep Stress Incr NO	WB 0.00	Horz(CT) 0.00		
BCDL 10.0	Code IRC2018/TPI2014	Matrix-R	Wind(LL) -0.03	Weight: 25 lb	FT = 10%

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x3 SPF No.2 *Except* 3-4: 2x4 SPF No.2	

REACTIONS. (lb/size) 5=559/0-7-0, 4=326/Mechanical
 Max Horz 5=119(LC 7)
 Max Uplift 5=-181(LC 4), 4=-65(LC 8)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-5=-492/233

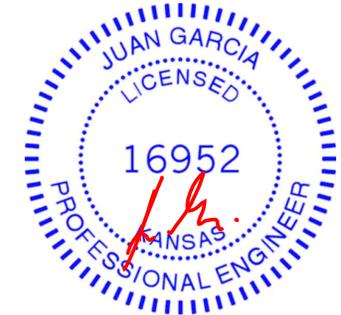
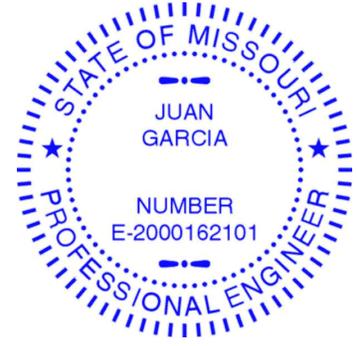
- NOTES-**
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 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.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4 except (jt=lb) 5=181.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 66 lb down and 119 lb up at 2-5-4, 68 lb down and 28 lb up at 2-5-4, and 84 lb down and 56 lb up at 5-3-3, and 95 lb down and 66 lb up at 5-3-3 on top chord, and 4 lb down and 7 lb up at 2-5-4, 3 lb down and 3 lb up at 2-5-4, and 18 lb down at 5-3-3, and 24 lb down at 5-3-3 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
 - In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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

Uniform Loads (plf)
 Vert: 1-2=-70, 2-3=-70, 4-5=-20

Concentrated Loads (lb)
 Vert: 6=32(F) 7=-20(B) 8=10(F=7, B=3) 9=-16(F=-2, B=-14)



November 12, 2019

Job	Truss	Truss Type	Qty	Ply	Lot 24 HT	I39252222
400370	J25	Jack-Closed	11	1		

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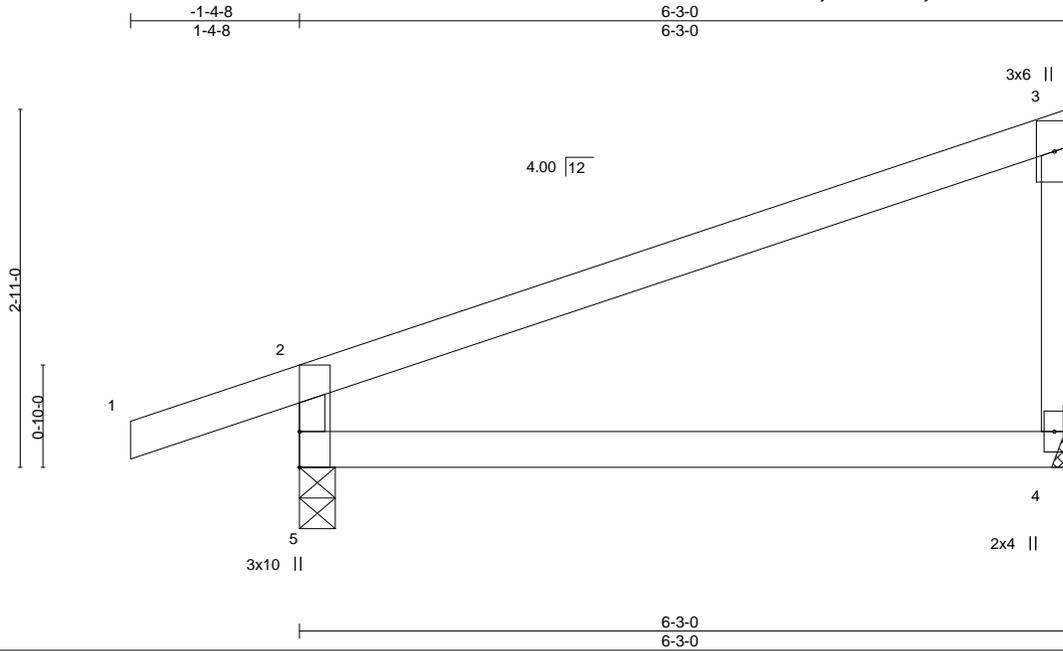


Plate Offsets (X,Y)--	[2:0-0-7,0-1-4], [5:0-0-0,0-1-4]
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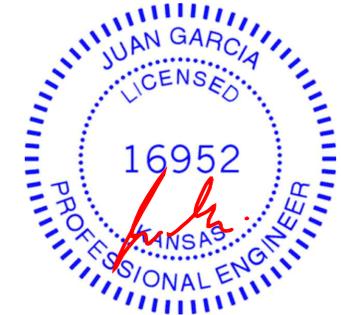
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.49	Vert(LL)	-0.06	4-5	>999	360	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.31	Vert(CT)	-0.11	4-5	>636	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	0.00	4	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-R	Wind(LL)	0.01	4-5	>999	240	Weight: 19 lb	FT = 10%

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x3 SPF No.2	

REACTIONS. (lb/size) 5=388/0-3-8, 4=259/Mechanical
 Max Horz 5=92(LC 7)
 Max Uplift 5=-57(LC 4), 4=-18(LC 8)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-5=-340/98

- NOTES-**
- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TC DL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); 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, 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.



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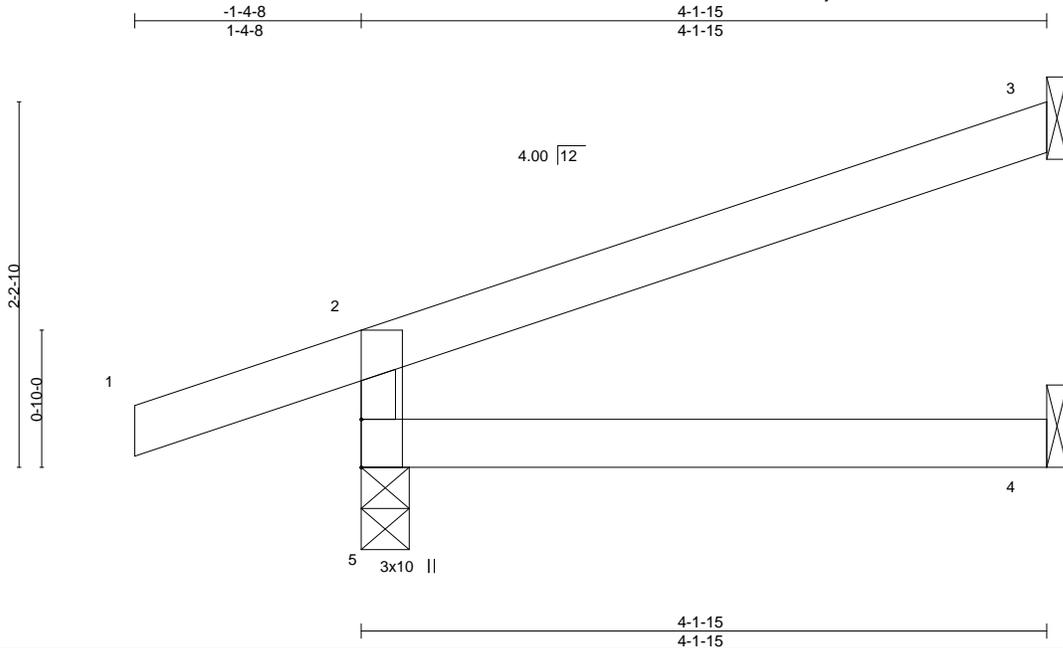
Job 400370	Truss J26	Truss Type Jack-Open	Qty 3	Ply 1	Lot 24 HT I39252223
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Wheeler Lumber, Waverly, KS 66871

8.240 s Jul 14 2019 MiTek Industries, Inc. Tue Nov 12 11:07:26 2019 Page 1

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Job Reference (optional)



Scale = 1:13.9

Plate Offsets (X,Y)--	[2:0-0-7,0-1-4], [5:0-0-0,0-1-4]				
LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 25.0	Plate Grip DOL 2-0-0	TC 0.21	in (loc) l/defl L/d	MT20	197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.14	Vert(LL) -0.01 4-5 >999 360		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Vert(CT) -0.03 4-5 >999 240		
BCDL 10.0	Code IRC2018/TPI2014	Matrix-R	Horz(CT) 0.01 3 n/a n/a	Weight: 12 lb	FT = 10%
			Wind(LL) 0.01 4-5 >999 240		

LUMBER-
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x3 SPF No.2

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

REACTIONS. (lb/size) 5=302/0-3-8, 3=119/Mechanical, 4=42/Mechanical
Max Horz 5=72(LC 4)
Max Uplift 5=-90(LC 4), 3=-59(LC 8)
Max Grav 5=302(LC 1), 3=119(LC 1), 4=75(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-5=-265/122

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 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.



November 12, 2019

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/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.

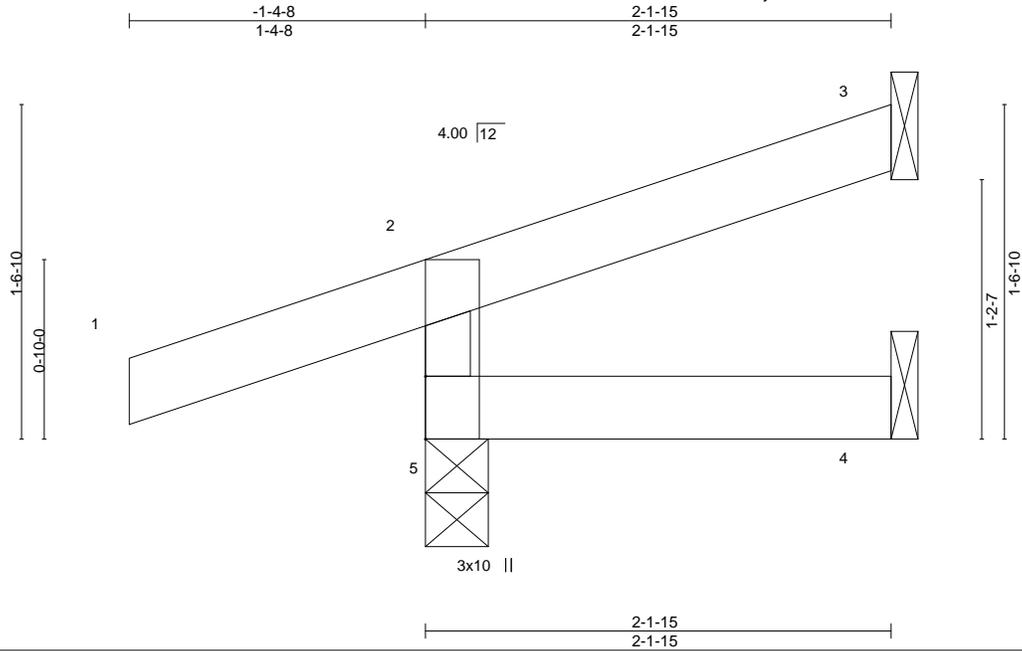


Job 400370	Truss J27	Truss Type Jack-Open	Qty 3	Ply 1	Lot 24 HT Job Reference (optional)	I39252224
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Wheeler Lumber, Waverly, KS 66871

8.240 s Jul 14 2019 MiTek Industries, Inc. Tue Nov 12 11:07:26 2019 Page 1

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Scale = 1:10.6

Plate Offsets (X,Y)--	[2:0-0-7,0-1-4], [5:0-0-0,0-1-4]				
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 0.14	Vert(LL) -0.00 5 >999 360	MT20	197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.03	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 5 >999 240	Weight: 7 lb	FT = 10%

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied or 2-1-15 oc purlins, except end verticals.
BOT CHORD 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x3 SPF No.2	

REACTIONS. (lb/size) 5=232/0-3-8, 3=38/Mechanical, 4=14/Mechanical
 Max Horz 5=44(LC 4)
 Max Uplift 5=-87(LC 4), 3=-25(LC 8)
 Max Grav 5=232(LC 1), 3=38(LC 1), 4=36(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; TC DL=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) 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.



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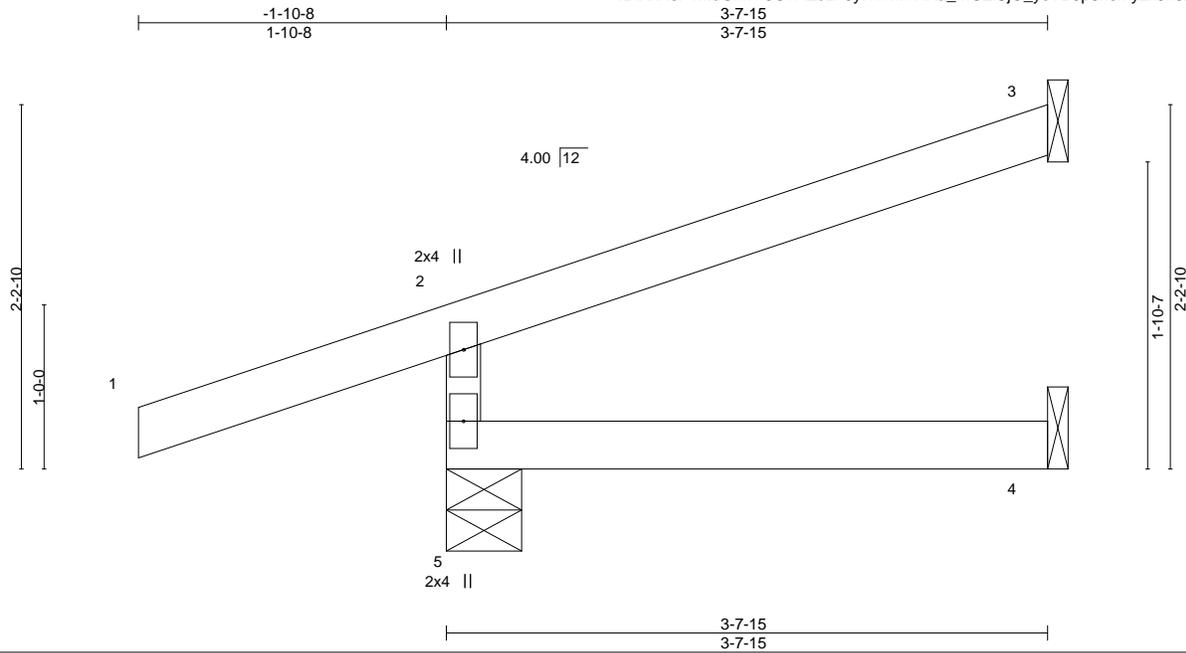
Job 400370	Truss J28	Truss Type Jack-Open	Qty 1	Ply 1	Lot 24 HT	I39252225
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Wheeler Lumber, Waverly, KS 66871

8.240 s Jul 14 2019 MiTek Industries, Inc. Tue Nov 12 11:07:27 2019 Page 1

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Job Reference (optional)



Scale = 1:14.0

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 0.27	Vert(LL)	-0.01	4-5	>999	360	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.10	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/TPI2014		Matrix-R	Wind(LL)	0.00	4-5	>999	240		
									Weight: 11 lb	FT = 10%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 3-7-15 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 5=335/0-5-8, 3=88/Mechanical, 4=30/Mechanical
 Max Horz 5=71(LC 4)
 Max Uplift 5=-116(LC 4), 3=-49(LC 8)
 Max Grav 5=335(LC 1), 3=88(LC 1), 4=65(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-5=-295/143

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) 3 except (jt=lb) 5=116.
- 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.



November 12, 2019

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

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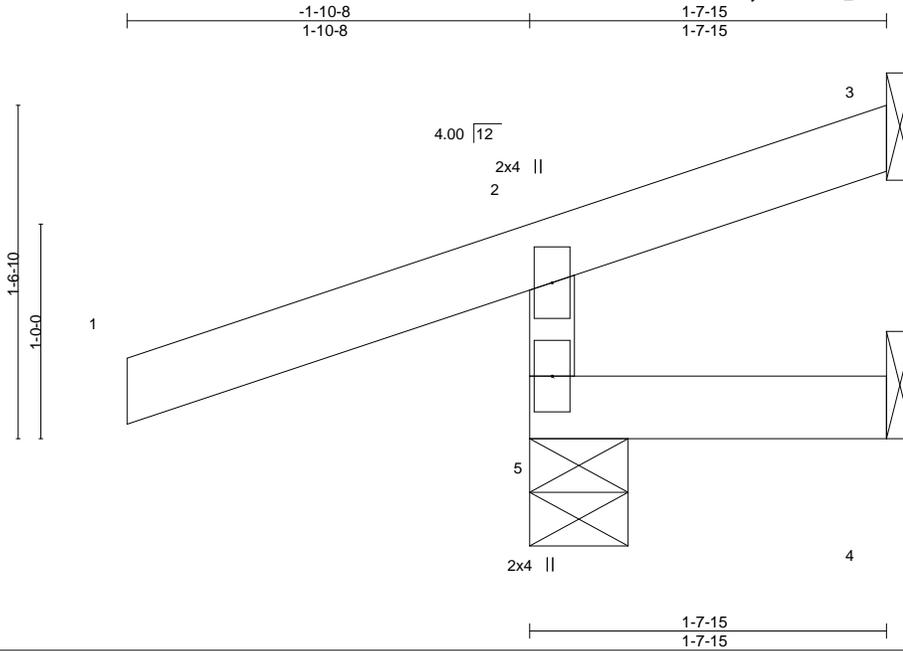


Job	Truss	Truss Type	Qty	Ply	Lot 24 HT	I39252226
400370	J29	Jack-Open	1	1		

Wheeler Lumber, Waverly, KS 66871

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ID:XXAsF4MdGikvF3O7A2bzF0yH?NM-RXa_MG2ISJO_ycVB9p8hsmzyk6i72?IWu6r0XuyJxqk



Scale = 1:10.7

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 0.27	Vert(LL)	0.00	5	>999	360	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.04	Vert(CT)	0.00	5	>999	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	-0.01	3	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-R	Wind(LL)	0.00	5	>999	240	Weight: 7 lb	FT = 10%

LUMBER-

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

BRACING-

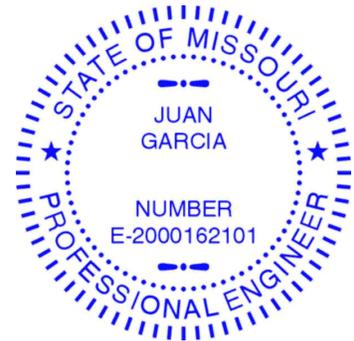
TOP CHORD Structural wood sheathing directly applied or 1-7-15 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 5=297/0-5-8, 3=-20/Mechanical, 4=1/Mechanical
 Max Horz 5=45(LC 5)
 Max Uplift 5=-130(LC 4), 3=-20(LC 1)
 Max Grav 5=297(LC 1), 3=14(LC 4), 4=26(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-5=-267/142

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) 3 except (jt=lb) 5=130.
- 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.



November 12, 2019

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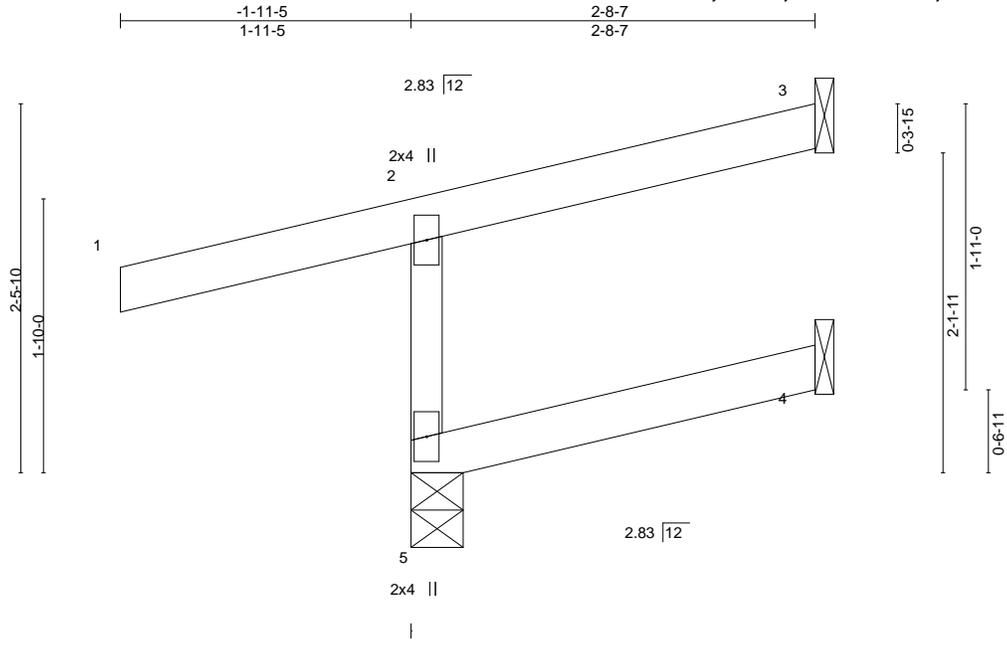


Job 400370	Truss J30	Truss Type Diagonal Hip Girder	Qty 2	Ply 1	Lot 24 HT Job Reference (optional)	I39252227
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Wheeler Lumber, Waverly, KS 66871

8.240 s Jul 14 2019 MiTek Industries, Inc. Tue Nov 12 11:07:28 2019 Page 1

ID: XxAsF4MdGikvF3O7A2bzF0yH?NM-wj8Nac3NC1WrZm4NjWfwPzV8MW1snSYg7maZ3KyJxqj



Scale = 1:15.3

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 0.28	Vert(LL)	0.00	4-5	>999	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.07	Vert(CT)	-0.00	4-5	>999		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.00	Horz(CT)	-0.03	3	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-R					Weight: 10 lb	FT = 10%

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied or 2-8-7 oc purlins, except end verticals.
BOT CHORD 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 2x3 SPF No.2	

REACTIONS. (lb/size) 5=165/0-4-3, 3=0/Mechanical, 4=6/Mechanical
 Max Horz 5=56(LC 7)
 Max Uplift 5=-106(LC 6), 3=-46(LC 12), 4=-5(LC 7)
 Max Grav 5=165(LC 1), 3=7(LC 4), 4=34(LC 3)

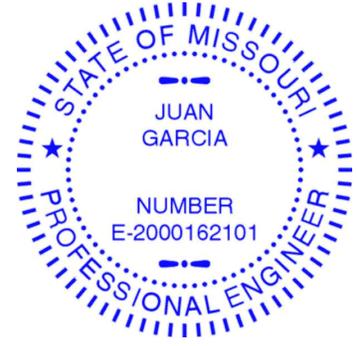
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

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 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) 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) 3, 4 except (jt=lb) 5=106.
- 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) 31 lb down and 11 lb up at -1-11-5, and 31 lb down and 11 lb up at -1-11-5 on top 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
 Concentrated Loads (lb)
 Vert: 1=-49(F=-24, B=-24)
 Trapezoidal Loads (plf)
 Vert: 1=-0(F=35, B=35)-to-2=-36(F=17, B=17), 2=-4(F=33, B=33)-to-3=-49(F=10, B=10), 5=-0(F=10, B=10)-to-4=-14(F=3, B=3)



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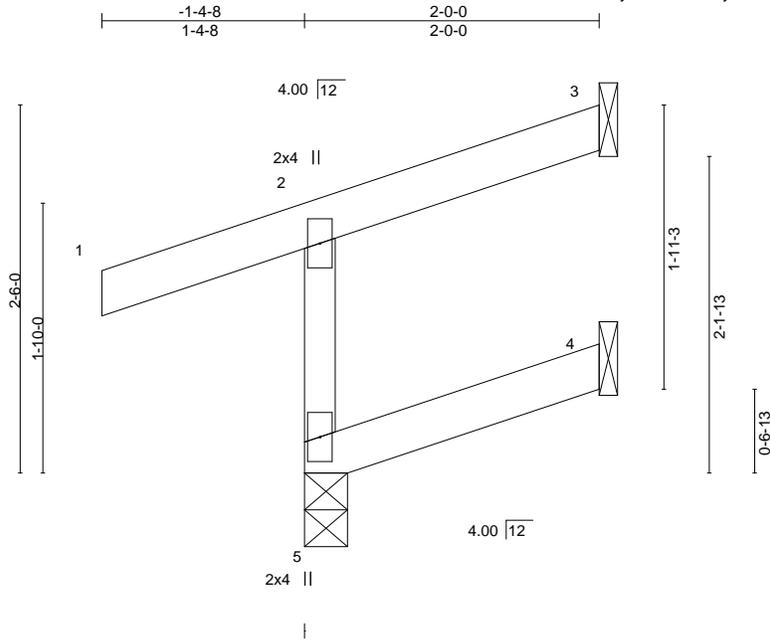
Job 400370	Truss J31	Truss Type Jack-Open	Qty 5	Ply 1	Lot 24 HT I39252228
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Wheeler Lumber, Waverly, KS 66871

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ID: XxAsF4MdGikvF3O7A2bzF0yH?NM-Owilny3?zKeiBwfaHEA9yB1L9wOJWvopLQK6cmYJxqi

Job Reference (optional)



Scale = 1:15.6

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 0.14	Vert(LL)	0.00	5	>999	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.06	Vert(CT)	-0.00	4-5	>999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	-0.02	3	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-R						
								Weight: 8 lb	FT = 10%

LUMBER-

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

BRACING-

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

REACTIONS. (lb/size) 5=229/0-3-8, 3=29/Mechanical, 4=15/Mechanical
 Max Horz 5=63(LC 5)
 Max Uplift 5=69(LC 4), 3=-31(LC 8), 4=-10(LC 5)
 Max Grav 5=229(LC 1), 3=29(LC 1), 4=36(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 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) 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, 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.



November 12, 2019

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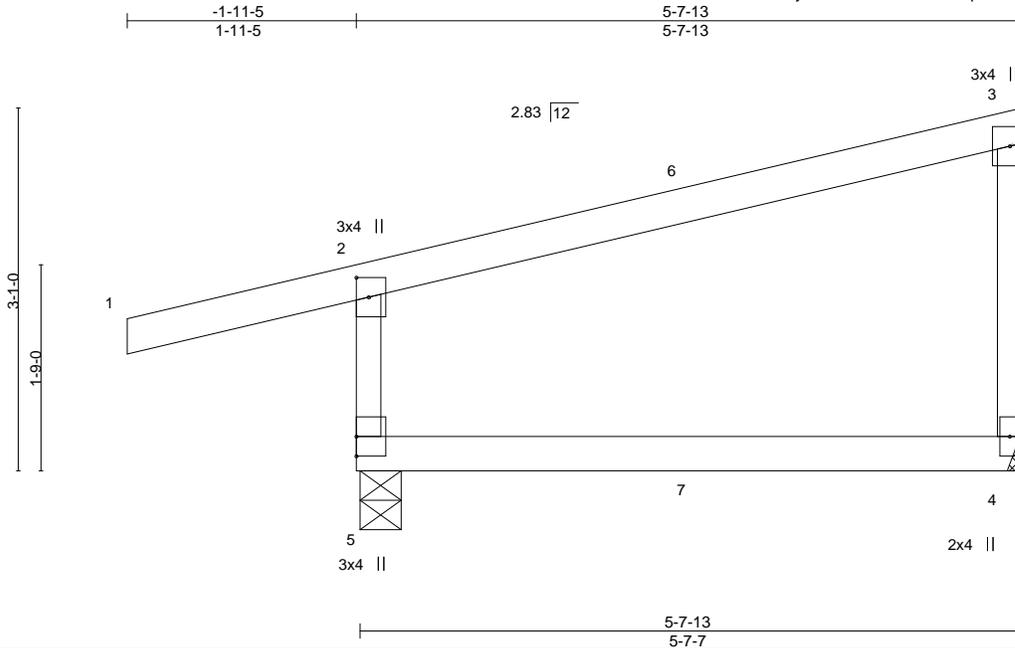


Job 400370	Truss J32	Truss Type Diagonal Hip Girder	Qty 2	Ply 1	Lot 24 HT Job Reference (optional)	I39252229
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Wheeler Lumber, Waverly, KS 66871

8.240 s Jul 14 2019 MiTek Industries, Inc. Tue Nov 12 11:07:30 2019 Page 1

ID: XxAsF4MdGikvF3O7A2bzF0yH?NM-s6G7?I4ekemZp4EmrxhOUOaS6KfHFM2za43g8DyJxqh



Scale = 1:19.5

Plate Offsets (X,Y)--	[2:0-2-0,0-1-4]				
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL 1.15	TC 0.39	Vert(LL) -0.04 4-5 >999 360	MT20	197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.27	Vert(CT) -0.07 4-5 >874 240		
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) 0.03 4-5 >999 240	Weight: 18 lb	FT = 10%

LUMBER-
 TOP CHORD 2x4 SPF No.2
 BOT CHORD 2x4 SPF No.2
 WEBS 2x3 SPF No.2

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 5-7-13 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 5=414/0-4-3, 4=217/Mechanical
 Max Horz 5=121(LC 5)
 Max Uplift 5=-158(LC 4), 4=-62(LC 8)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-5=-363/178

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TC DL=6.0psf; BC DL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) 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 (it=lb) 5=158.
- 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) 73 lb down and 39 lb up at 2-10-15, and 71 lb down and 29 lb up at 2-10-15 on top chord, and 12 lb down and 16 lb up at 2-10-15, and 11 lb down and 18 lb up at 2-10-15 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=2(F=1, B=2)



November 12, 2019

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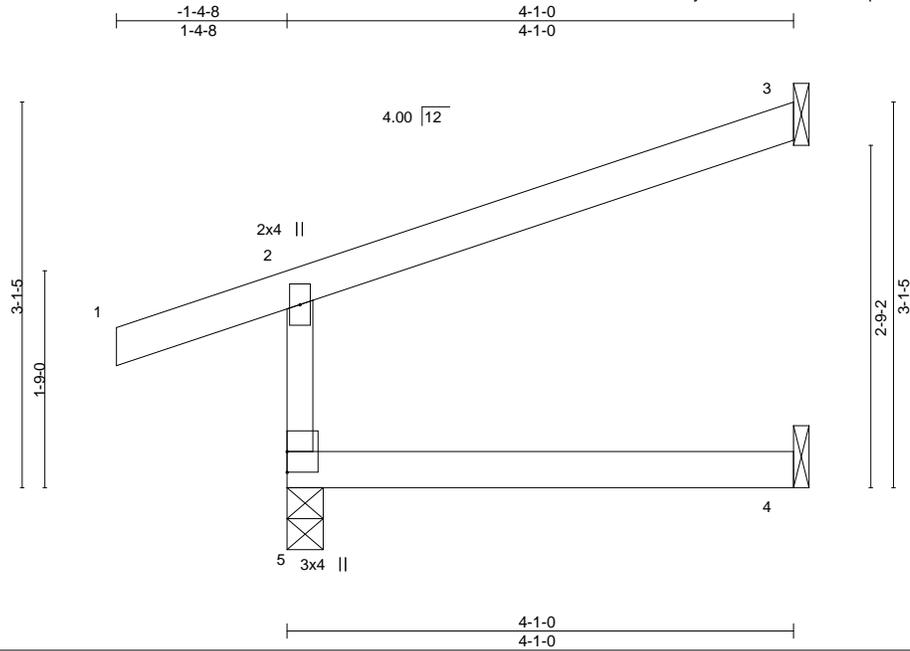


Job 400370	Truss J33	Truss Type Jack-Open	Qty 3	Ply 1	Lot 24 HT I39252230
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Wheeler Lumber, Waverly, KS 66871

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ID: XxAsF4MdGikvF3O7A2bzF0yH?NM-s6G7?I4ekemZp4EmrxhOUOaV_KhDFM2za43g8DyJxqh



Scale = 1:18.5

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 0.20	Vert(LL)	-0.01	4-5	>999	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.14	Vert(CT)	-0.03	4-5	>999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	-0.04	3	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-R	Wind(LL)	0.01	4-5	>999	Weight: 12 lb	FT = 10%

LUMBER-

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

BRACING-

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

REACTIONS. (lb/size) 5=299/0-3-8, 3=116/Mechanical, 4=40/Mechanical
 Max Horz 5=79(LC 5)
 Max Uplift 5=-75(LC 4), 3=-67(LC 8)
 Max Grav 5=299(LC 1), 3=116(LC 1), 4=75(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-5=-261/112

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) 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.



November 12, 2019

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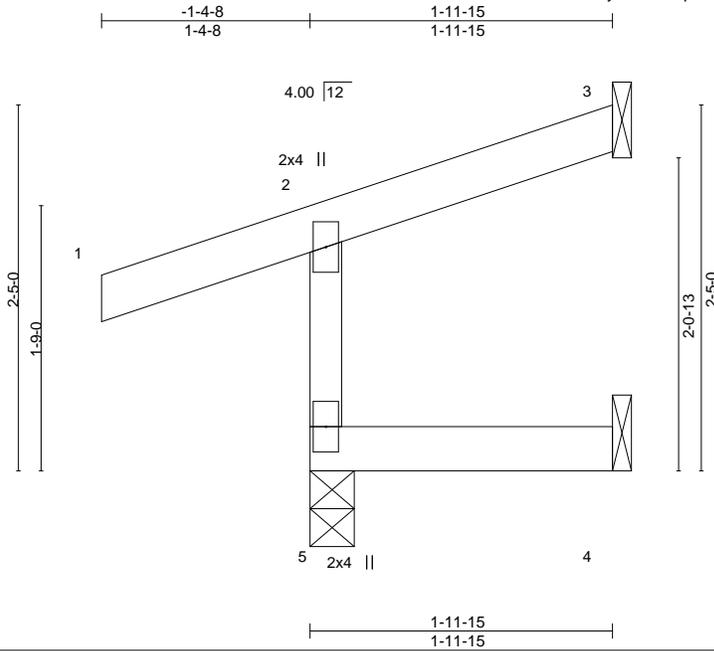


Job 400370	Truss J34	Truss Type Jack-Open	Qty 2	Ply 1	Lot 24 HT I39252231
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Wheeler Lumber, Waverly, KS 66871

8.240 s Jul 14 2019 MiTek Industries, Inc. Tue Nov 12 11:07:31 2019 Page 1

ID: XxAsF4MdGikvF3O7A2bzF0yH?NM-KlpVCd5GVyuQREpyOeCd1c6hek3v_pH6pkpDgfyJxqg



Scale = 1:15.1

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 0.14	Vert(LL)	0.00	5	>999	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.05	Vert(CT)	-0.00	4-5	>999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	-0.01	3	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-R						
								Weight: 7 lb	FT = 10%

LUMBER-
 TOP CHORD 2x4 SPF No.2
 BOT CHORD 2x4 SPF No.2
 WEBS 2x3 SPF No.2

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 1-11-15 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 5=229/0-3-8, 3=29/Mechanical, 4=15/Mechanical
 Max Horz 5=60(LC 5)
 Max Uplift 5=-71(LC 4), 3=-30(LC 8), 4=-8(LC 5)
 Max Grav 5=229(LC 1), 3=29(LC 1), 4=36(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 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, 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.



November 12, 2019

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

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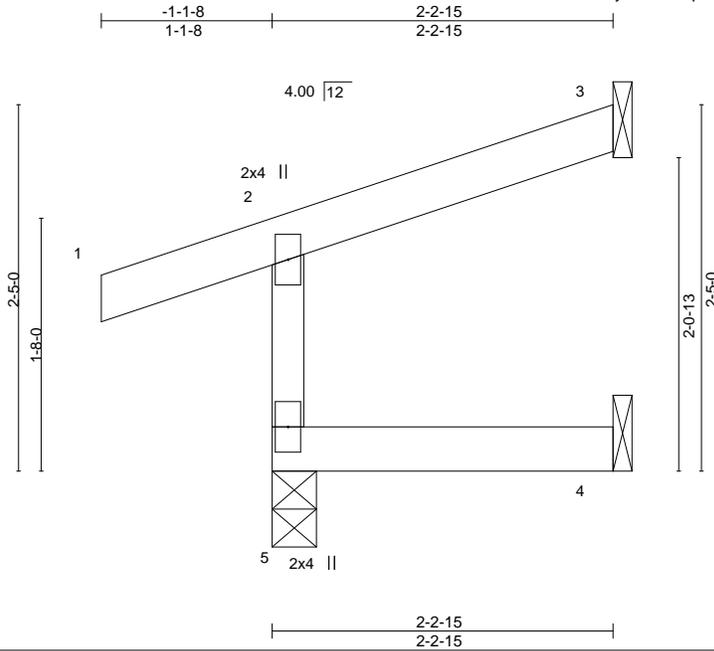


Job 400370	Truss J35	Truss Type Jack-Open	Qty 2	Ply 1	Lot 24 HT 139252232
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Wheeler Lumber, Waverly, KS 66871

8.240 s Jul 14 2019 MiTek Industries, Inc. Tue Nov 12 11:07:31 2019 Page 1

ID: XxAsF4MdGikvF3O7A2bzF0yH?NM-KlpVCd5GvyuQREpyOeCd1c6ilk3w_pH6pkpDgyJxqq



Scale = 1:15.1

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 0.10	Vert(LL)	-0.00	4-5	>999	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.05	Vert(CT)	-0.00	4-5	>999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	-0.01	3	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-R	Wind(LL)	0.00	4-5	>999	Weight: 8 lb	FT = 10%

LUMBER-

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

BRACING-

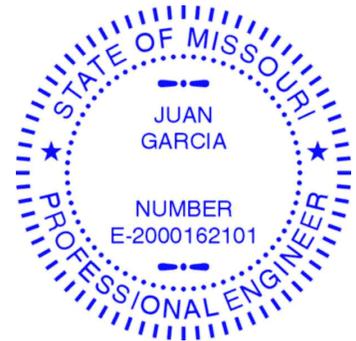
TOP CHORD Structural wood sheathing directly applied or 2-2-15 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 5=205/0-3-8, 3=49/Mechanical, 4=19/Mechanical
 Max Horz 5=59(LC 5)
 Max Uplift 5=-56(LC 4), 3=-36(LC 8), 4=-4(LC 5)
 Max Grav 5=205(LC 1), 3=49(LC 1), 4=40(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 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, 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.



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Job	Truss	Truss Type	Qty	Ply	Lot 24 HT	
400370	J36	Diagonal Hip Girder	1	1		I39252233
Wheeler Lumber, Waverly, KS 66871						Job Reference (optional)

8.240 s Jul 14 2019 MiTek Industries, Inc. Tue Nov 12 11:07:32 2019 Page 1

ID:XxAsF4MdGikvF3O7A2bzF0yH?NM-oUNtQz6uGF0H2NO9yMjsZpfpq7OMjFXF1OYnC5yJxqf

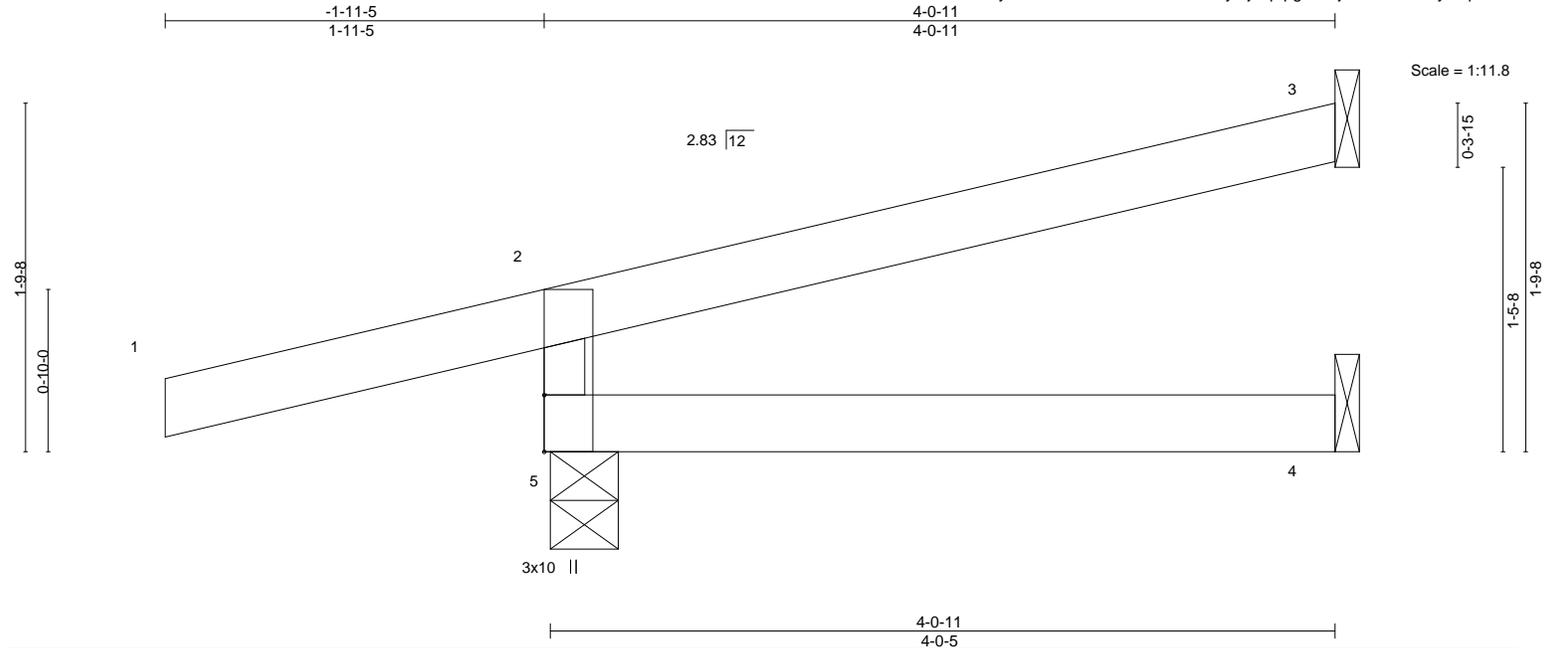


Plate Offsets (X,Y)--	[2:0-0-5,0-1-4], [5:0-0-0,0-1-4]				
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL 1.15	TC 0.38	Vert(LL) -0.01 4-5 >999 360	MT20	197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.10	Vert(CT) -0.01 4-5 >999 240		
BCLL 0.0 *	Rep Stress Incr NO	WB 0.00	Horz(CT) -0.01 3 n/a n/a		
BCDL 10.0	Code IRC2018/TPI2014	Matrix-R	Wind(LL) 0.01 4-5 >999 240	Weight: 12 lb	FT = 10%

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied or 4-0-11 oc purlins, except end verticals.
BOT CHORD 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x3 SPF No.2	

REACTIONS. (lb/size) 5=216/0-4-3, 3=59/Mechanical, 4=16/Mechanical
 Max Horz 5=54(LC 12)
 Max Uplift 5=101(LC 4), 3=51(LC 12)
 Max Grav 5=216(LC 1), 3=59(LC 1), 4=58(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; TC DL=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) 3 except (jt=lb) 5=101.
 - 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) 47 lb down and 16 lb up at -1-11-5, and 47 lb down and 16 lb up at -1-11-5 on top 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
Concentrated Loads (lb)
Vert: 1=-73(F=-36, B=-36)
Trapezoidal Loads (plf)
Vert: 1=0(F=35, B=35)-to-2=-36(F=17, B=17), 2=-2(F=34, B=34)-to-3=-71(F=-1, B=-1), 5=0(F=10, B=10)-to-4=-20(F=-0, B=-0)



November 12, 2019

Job	Truss	Truss Type	Qty	Ply	Lot 24 HT	I39252234
400370	J37	Diagonal Hip Girder	1	1		

Wheeler Lumber, Waverly, KS 66871

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ID: XxAsF4MdGikvF3O7A2bzF0yH?NM-oUNtQz6uGF0H2NO9yMjsZpTpg7OLjFXF1OYnCs5yJxqf

Job Reference (optional)

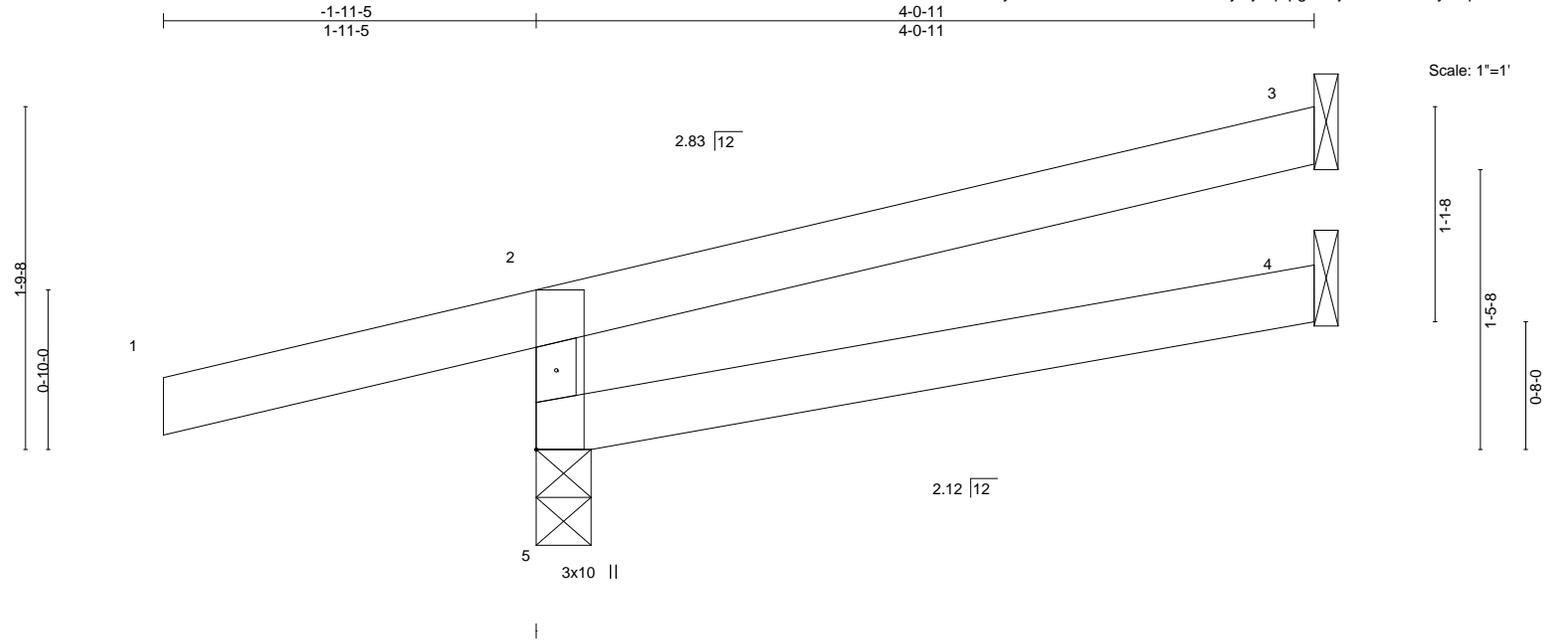


Plate Offsets (X,Y)-- [2:0-0-5,0-1-4], [5:0-5-0,Edge], [5:0-0-4,0-1-4]

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 0.38	Vert(LL)	-0.01	4-5	>999	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.10	Vert(CT)	-0.02	4-5	>999		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.00	Horz(CT)	-0.01	3	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-R	Wind(LL)	0.01	4-5	>999	Weight: 12 lb	FT = 10%

LUMBER-
 TOP CHORD 2x4 SPF No.2
 BOT CHORD 2x4 SPF No.2
 WEBS 2x3 SPF No.2

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 4-0-11 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (lb/size) 5=216/0-3-7, 3=59/Mechanical, 4=16/Mechanical
 Max Horz 5=53(LC 7)
 Max Uplift 5=101(LC 4), 3=52(LC 12)
 Max Grav 5=216(LC 1), 3=59(LC 1), 4=58(LC 3)

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

NOTES-

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 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.
- 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3 except (jt=lb) 5=101.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 47 lb down and 16 lb up at -1-11-5, and 47 lb down and 16 lb up at -1-11-5 on top chord. The design/selection of such connection device(s) is the responsibility of others.
- In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
 Concentrated Loads (lb)
 Vert: 1=-73(F=-36, B=-36)
 Trapezoidal Loads (plf)
 Vert: 1=-0(F=35, B=35)-to-2=-36(F=17, B=17), 2=-2(F=34, B=34)-to-3=-71(F=-1, B=-1), 5=-0(F=10, B=10)-to-4=-20(F=-0, B=-0)



November 12, 2019

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Job	Truss	Truss Type	Qty	Ply	Lot 24 HT	I39252235
400370	J38	Jack-Open	2	1		

Wheeler Lumber, Waverly, KS 66871

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ID: XxAsF4MdGikvF3O7A2bzF0yH?NM-GhxGdJ6W1ZB8gXyLW3F561C18Xl9SinPG2lKlXyJxq

Job Reference (optional)

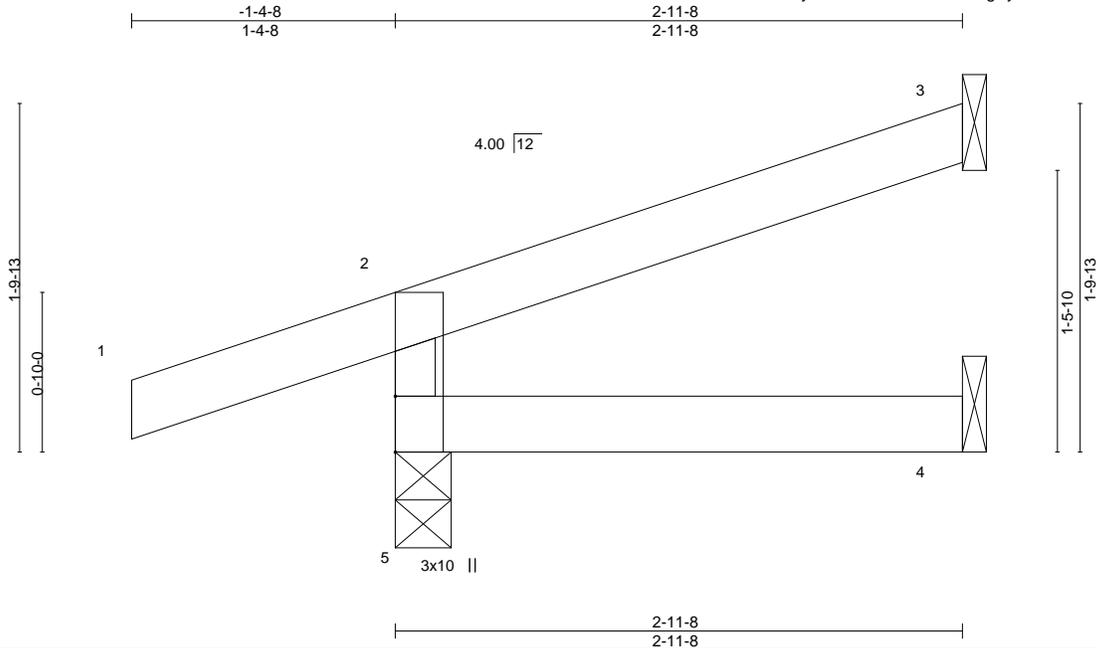


Plate Offsets (X,Y)--	[2:0-0-7,0-1-4], [5:0-0-0,0-1-4]
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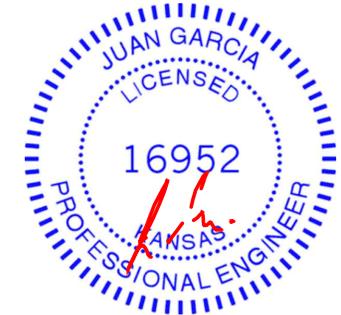
LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 25.0	2-0-0	TC 0.14	in (loc) l/defl L/d	MT20	197/144
TCDL 10.0	Plate Grip DOL 1.15	BC 0.06	Vert(LL) -0.00 4-5 >999 360		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.00	Vert(CT) -0.01 4-5 >999 240		
BCDL 10.0	Rep Stress Incr YES	Matrix-R	Horz(CT) -0.00 3 n/a n/a	Weight: 9 lb	FT = 10%
	Code IRC2018/TPI2014		Wind(LL) 0.00 4-5 >999 240		

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied or 2-11-8 oc purlins, except end verticals.
BOT CHORD 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x3 SPF No.2	

REACTIONS. (lb/size) 5=257/0-3-8, 3=73/Mechanical, 4=25/Mechanical
 Max Horz 5=55(LC 4)
 Max Uplift 5=-87(LC 4), 3=-40(LC 8)
 Max Grav 5=257(LC 1), 3=73(LC 1), 4=52(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; TC DL=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) 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.



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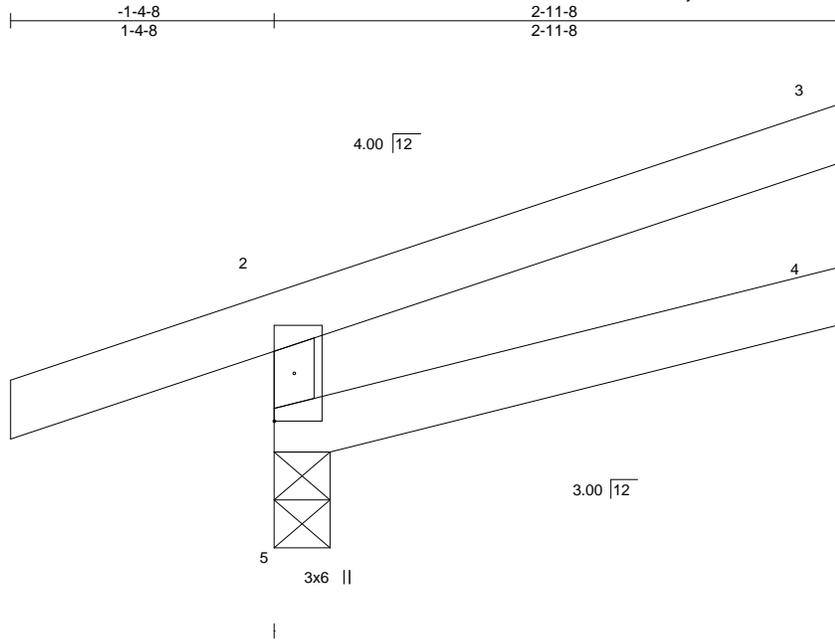
16023 Swingley Ridge Rd
 Chesterfield, MO 63017

Job 400370	Truss J39	Truss Type Jack-Open	Qty 5	Ply 1	Lot 24 HT	I39252236
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Wheeler Lumber, Waverly, KS 66871

8.240 s Jul 14 2019 MiTek Industries, Inc. Tue Nov 12 11:07:33 2019 Page 1

ID:XxAsF4MdGivF3O7A2bzF0yH?NM-GhxGdJ6W1Z88gXyLW3F561C18Xk8SinPG2IKIXyJxqe



Scale: 1"=1'

Plate Offsets (X,Y)--	[2:0-0-7,0-1-4], [5:0-0-5,0-1-4]				
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 0.14	Vert(LL) -0.00 4-5 >999 360	MT20	197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.06	Vert(CT) -0.01 4-5 >999 240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT) -0.00 3 n/a n/a		
BCDL 10.0	Code IRC2018/TPI2014	Matrix-R	Wind(LL) 0.00 4-5 >999 240	Weight: 9 lb	FT = 10%

LUMBER-
 TOP CHORD 2x4 SPF No.2
 BOT CHORD 2x4 SPF No.2
 WEBS 2x3 SPF No.2

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 2-11-8 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (lb/size) 5=257/0-3-8, 3=73/Mechanical, 4=25/Mechanical
 Max Horz 5=55(LC 4)
 Max Uplift 5=-86(LC 4), 3=-40(LC 8)
 Max Grav 5=257(LC 1), 3=73(LC 1), 4=52(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; TCCL=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) 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.



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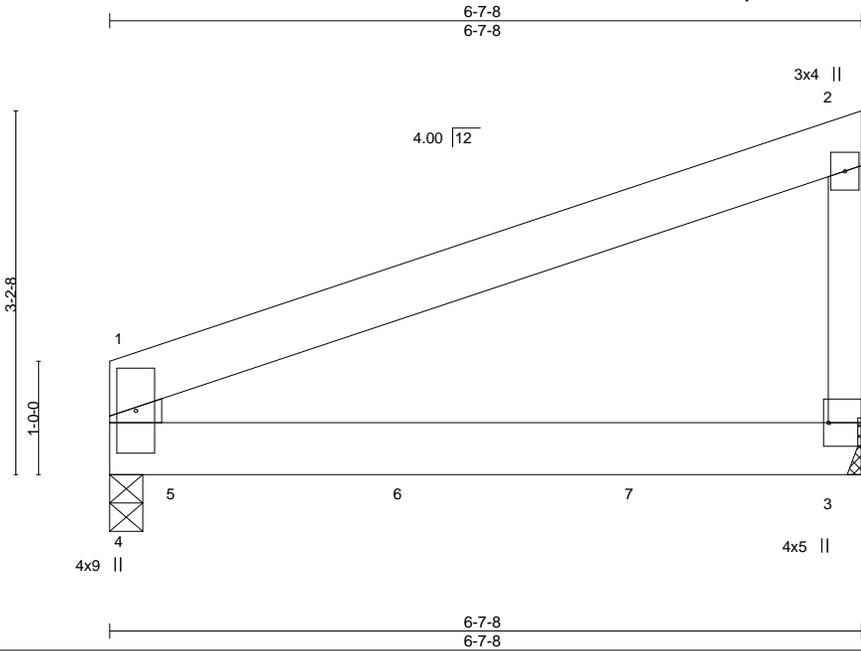


Job 400370	Truss J41	Truss Type Jack-Closed Girder	Qty 1	Ply 2	Lot 24 HT Job Reference (optional)	I39252237
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Wheeler Lumber, Waverly, KS 66871

8.240 s Jul 14 2019 MiTek Industries, Inc. Tue Nov 12 11:07:34 2019 Page 1

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Scale = 1:20.2

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 25.0	Plate Grip DOL 1.15	TC 0.43	in (loc) l/defl L/d	MT20	197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.76	Vert(LL) -0.08 3-4 >963 360		
BCLL 0.0 *	Rep Stress Incr NO	WB 0.00	Vert(CT) -0.14 3-4 >520 240		
BCDL 10.0	Code IRC2018/TPI2014	Matrix-R	Horz(CT) 0.00 3 n/a n/a	Weight: 55 lb	FT = 10%
			Wind(LL) 0.05 3-4 >999 240		

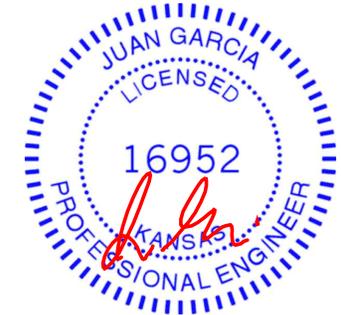
LUMBER-	BRACING-
TOP CHORD 2x6 SPF No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x6 SPF No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x6 SPF No.2 *Except* 2-3: 2x4 SPF No.2	

REACTIONS.	(lb/size)
4=1472/0-3-8, 3=1050/Mechanical	
Max Horz 4=116(LC 5)	
Max Uplift 4=-253(LC 4), 3=-115(LC 8)	

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	1-2=-261/25

- NOTES-**
- 2-ply truss to be connected together as follows:
Top chords connected with 10d (0.131"x3") nails as follows: 2x6 - 2 rows staggered at 0-9-0 oc, 2x4 - 1 row at 0-9-0 oc.
Bottom chords connected with 10d (0.131"x3") nails as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
 - All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
 - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TC DL=6.0psf; BC DL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 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.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=253, 3=115.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 666 lb down and 197 lb up at 0-8-4, and 648 lb down and 47 lb up at 2-8-4, and 646 lb down and 40 lb up at 4-8-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S)	Standard
1) Dead + Roof Live (balanced):	Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)	
Vert: 1-2=-70, 3-4=-20	
Concentrated Loads (lb)	
Vert: 5=-666(B) 6=-648(B) 7=-646(B)	



November 12, 2019

Job 400370	Truss J42	Truss Type Diagonal Hip Girder	Qty 1	Ply 1	Lot 24 HT Job Reference (optional)	139252238
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Wheeler Lumber, Waverly, KS 66871

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ID: XxAsF4MdGikvF3O7A2bzF0yH?NM-C3302?8mZAOsvr6jdUHZBRHELLO1wWhikMnRpQyJxqc



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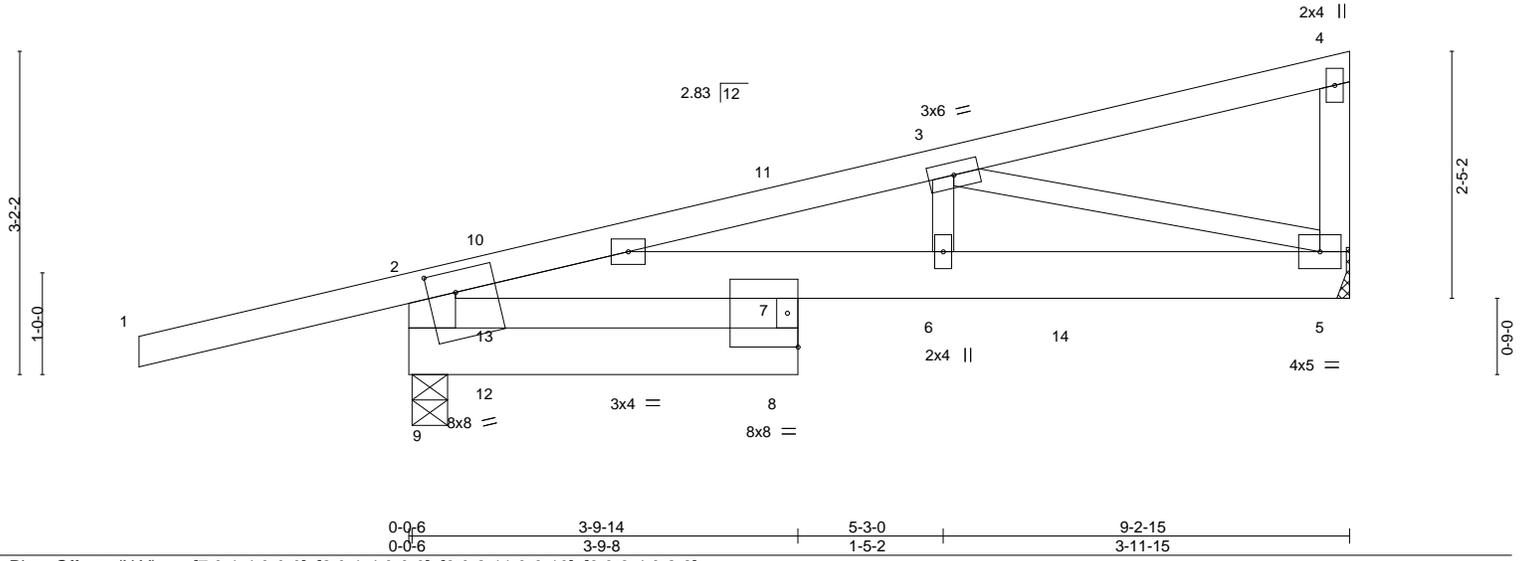


Plate Offsets (X,Y)--	[7:0-1-4,0-0-0], [8:0-1-4,0-0-0], [9:0-2-11,0-0-10], [9:0-3-4,0-2-8]
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LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 25.0	2-0-0	TC 0.68	in (loc) l/defl L/d	MT20	197/144
TCDL 10.0	Plate Grip DOL 1.15	BC 0.23	Vert(LL) -0.03 6 >999 360		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.42	Vert(CT) -0.05 5-6 >999 240		
BCDL 10.0	Rep Stress Incr NO	Matrix-S	Horz(CT) 0.01 5 n/a n/a		
	Code IRC2018/TPI2014		Wind(LL) 0.03 6 >999 240	Weight: 48 lb	FT = 10%

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied or 5-3-8 oc purlins, except end verticals.
BOT CHORD 2x6 SPF No.2 *Except* 2-5: 2x6 SP DSS	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x3 SPF No.2 *Except* 2-9: 2x6 SPF No.2, 4-5: 2x4 SPF No.2	

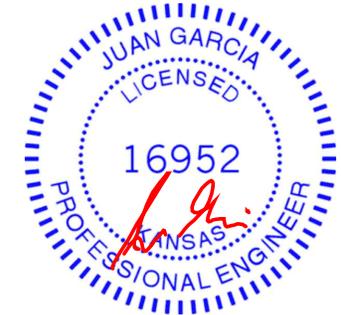
REACTIONS. (lb/size) 9=688/0-4-3, 5=580/Mechanical
Max Horz 9=116(LC 5)
Max Uplift 9=-217(LC 4), 5=-155(LC 8)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-9=-642/231, 2-3=-1129/275
BOT CHORD 2-7=-281/1062, 6-7=-281/1063, 5-6=-281/1063
WEBS 3-5=-1051/297, 3-6=-40/266

- NOTES-**
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 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.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 9=217, 5=155.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 77 lb down and 138 lb up at 0-10-3, and 78 lb down and 48 lb up at 3-8-2, and 70 lb down and 28 lb up at 3-8-2 on top chord, and 3 lb down and 8 lb up at 0-10-3, 12 lb down and 0 lb up at 3-8-10, 6 lb down and 5 lb up at 3-8-10, and 173 lb down and 74 lb up at 6-6-1, and 135 lb down and 66 lb up at 6-6-1 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
 - In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-70, 2-4=-70, 8-9=-20, 5-7=-20
Concentrated Loads (lb)
Vert: 8=5(F=0, B=5) 10=35(F) 14=308(F=-173, B=-135)



November 12, 2019

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/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.

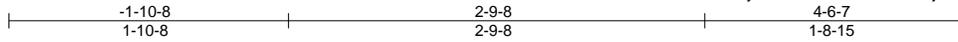


Job 400370	Truss J43	Truss Type Jack-Closed	Qty 1	Ply 1	Lot 24 HT	I39252239
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Wheeler Lumber, Waverly, KS 66871

8.240 s Jul 14 2019 MiTek Industries, Inc. Tue Nov 12 11:07:36 2019 Page 1

ID: XxAsF4MdGikvF3O7A2bzF0yH?NM-hGdOFL9OKUWjX?hwBCookfqVTlkgf3Iry0W_LsyJxqb



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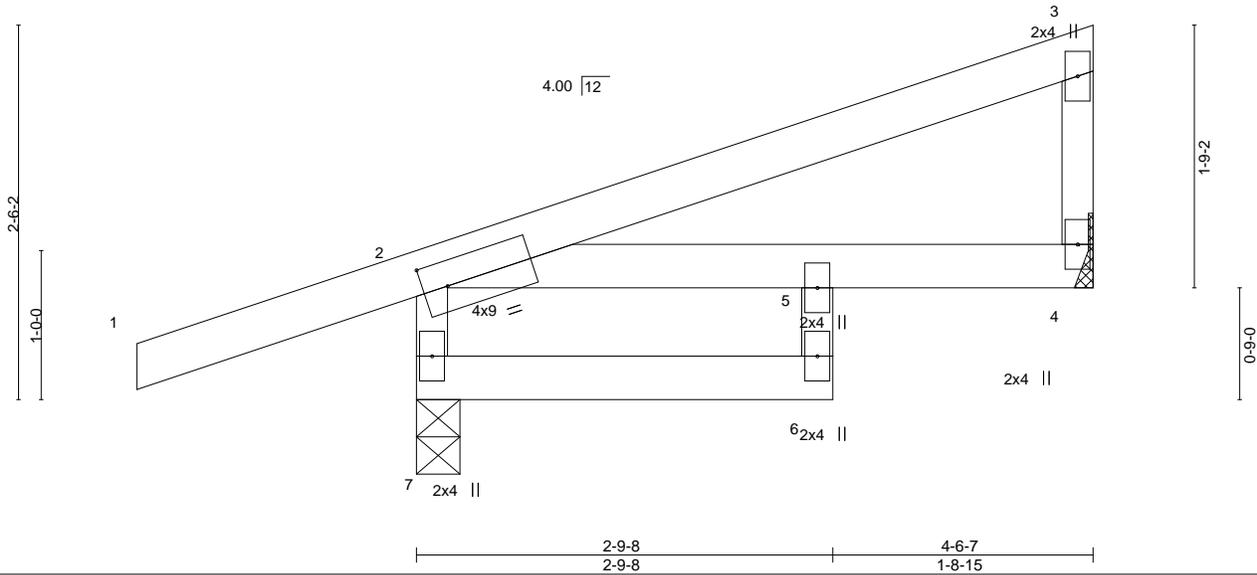


Plate Offsets (X,Y)--	[2-0-1-15,0-2-0]
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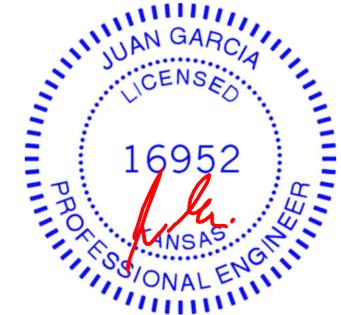
LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 25.0	Plate Grip DOL 2-0-0 1.15	TC 0.27	in (loc) l/defl L/d	MT20	197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.14	Vert(LL) -0.01 5 >999 360		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.02	Vert(CT) -0.02 5 >999 240		
BCDL 10.0	Code IRC2018/TPI2014	Matrix-R	Horz(CT) -0.01 4 n/a n/a		
			Wind(LL) 0.01 5 >999 240	Weight: 18 lb	FT = 10%

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied or 4-6-7 oc purlins, except end verticals.
BOT CHORD 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x3 SPF No.2	

REACTIONS. (lb/size) 7=365/0-3-8, 4=163/Mechanical
 Max Horz 7=94(LC 5)
 Max Uplift 7=128(LC 4), 4=37(LC 8)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-7=-338/149

- NOTES-**
- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TC DL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) 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 (it=lb) 7=128.
 - 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.



November 12, 2019

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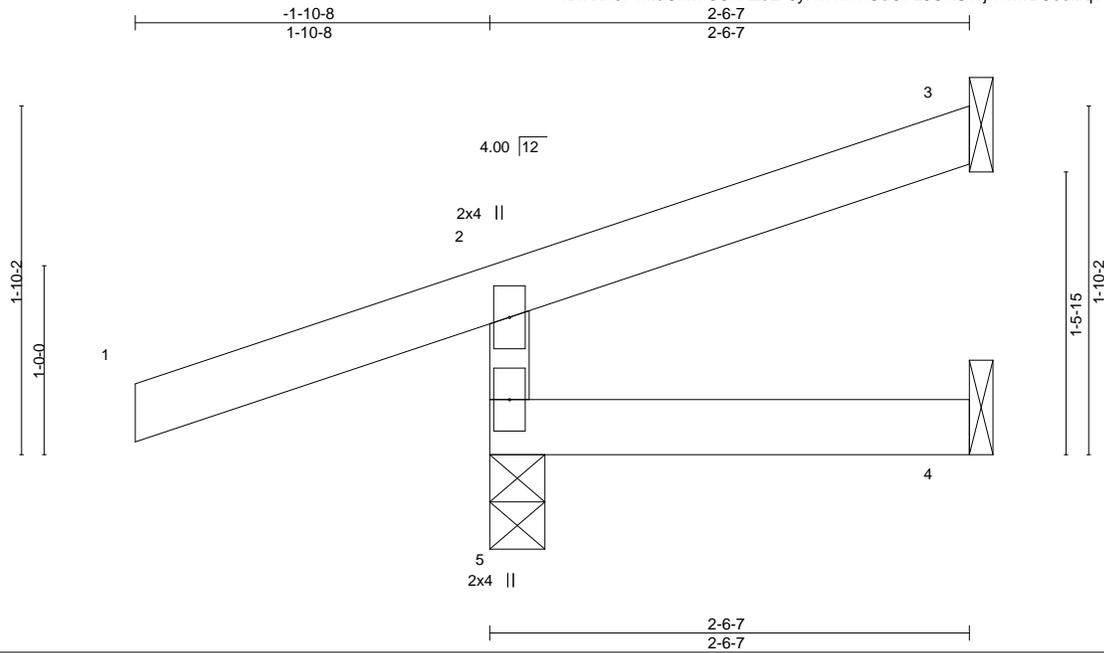
16023 Swingley Ridge Rd
 Chesterfield, MO 63017

Job 400370	Truss J44	Truss Type Jack-Open	Qty 1	Ply 1	Lot 24 HT	I39252240
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Wheeler Lumber, Waverly, KS 66871

8.240 s Jul 14 2019 MiTek Industries, Inc. Tue Nov 12 11:07:36 2019 Page 1

ID: XxAsF4MdGikvF3O7A2bzF0yH?NM-hGdOFL9OKUWjX?hwBCookqVtImBf3Xry0W_LsyJxqb



Scale = 1:12.1

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 0.27	Vert(LL)	-0.00	4-5	>999	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.04	Vert(CT)	-0.00	4-5	>999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	-0.01	3	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-R	Wind(LL)	0.00	5	>999	Weight: 9 lb	FT = 10%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 2-6-7 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 5=303/0-3-8, 3=35/Mechanical, 4=14/Mechanical
 Max Horz 5=56(LC 4)
 Max Uplift 5=-119(LC 4), 3=-27(LC 8)
 Max Grav 5=303(LC 1), 3=35(LC 1), 4=42(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-5=-269/137

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) 3 except (jt=lb) 5=119.
- 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.



November 12, 2019

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

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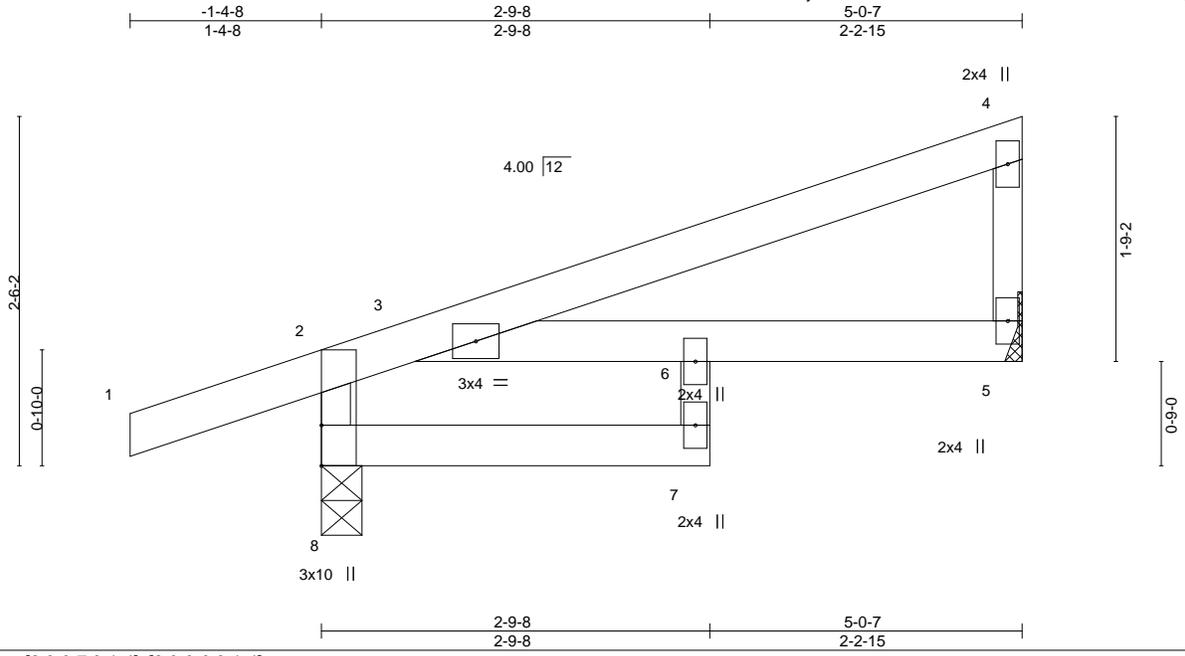


Job 400370	Truss J45	Truss Type Jack-Closed	Qty 1	Ply 1	Lot 24 HT 139252241
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Wheeler Lumber, Waverly, KS 66871

8.240 s Jul 14 2019 MiTek Industries, Inc. Tue Nov 12 11:07:37 2019 Page 1

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Scale = 1:16.5

Plate Offsets (X,Y)--	[2:0-0-7,0-1-4], [8:0-0-0,0-1-4]
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LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 25.0	2-0-0	TC 0.25	in (loc) l/defl L/d	MT20	197/144
TCDL 10.0	Plate Grip DOL 1.15	BC 0.19	Vert(LL) -0.02 3-6 >999 360		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.02	Vert(CT) -0.04 6 >999 240		
BCDL 10.0	Rep Stress Incr YES	Matrix-R	Horz(CT) 0.02 5 n/a n/a		
	Code IRC2018/TPI2014		Wind(LL) 0.02 3-6 >999 240	Weight: 18 lb	FT = 10%

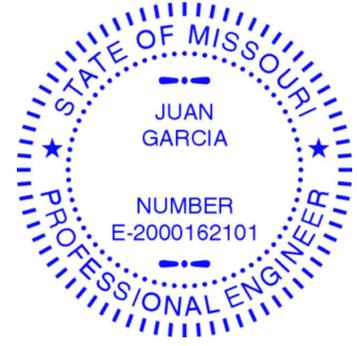
LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied or 5-0-7 oc purlins, except end verticals.
BOT CHORD 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x3 SPF No.2	

REACTIONS. (lb/size) 8=337/0-3-8, 5=201/Mechanical
 Max Horz 8=92(LC 5)
 Max Uplift 8=102(LC 4), 5=46(LC 8)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-8=-315/125

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TC DL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) 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) 5 except (jt=lb) 8=102.
- 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.



November 12, 2019

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16023 Swingley Ridge Rd
 Chesterfield, MO 63017

Job 400370	Truss J46	Truss Type Jack-Open	Qty 1	Ply 1	Lot 24 HT	I39252242
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Wheeler Lumber, Waverly, KS 66871

8.240 s Jul 14 2019 MiTek Industries, Inc. Tue Nov 12 11:07:38 2019 Page 1
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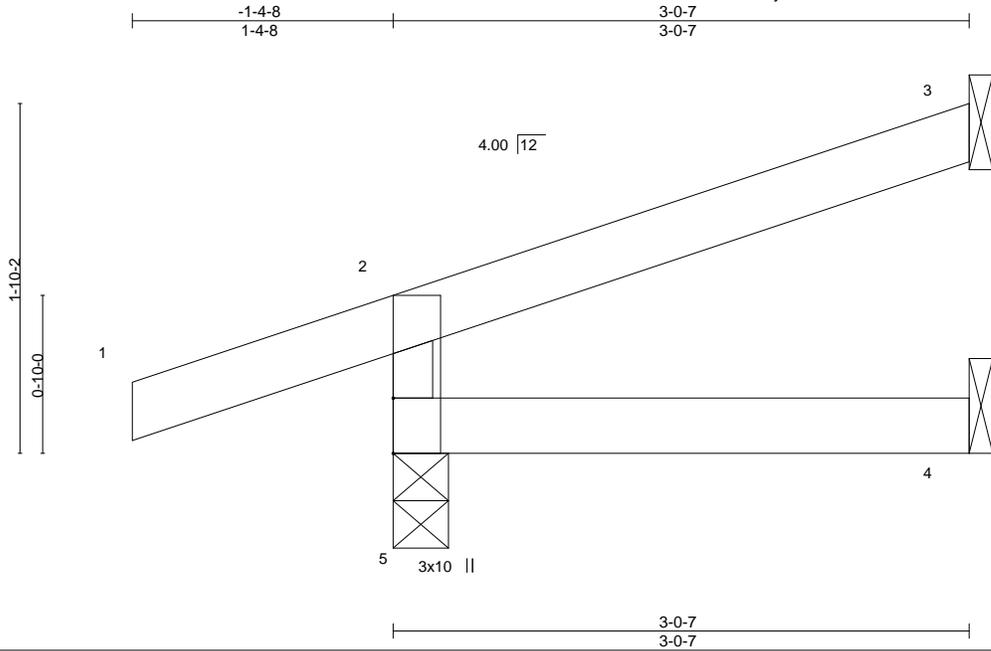


Plate Offsets (X,Y)--	[2:0-0-7,0-1-4], [5:0-0-0,0-1-4]
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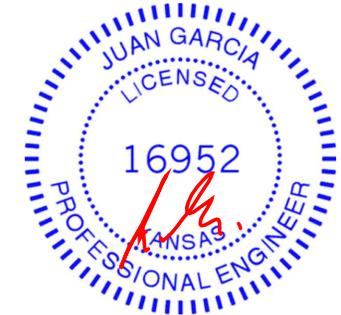
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.14	Vert(LL)	-0.00	4-5	>999	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.07	Vert(CT)	-0.01	4-5	>999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	-0.00	3	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-R	Wind(LL)	0.00	4-5	>999	Weight: 9 lb	FT = 10%

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied or 3-0-7 oc purlins, except end verticals.
BOT CHORD 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x3 SPF No.2	

REACTIONS. (lb/size) 5=259/0-3-8, 3=76/Mechanical, 4=26/Mechanical
 Max Horz 5=56(LC 4)
 Max Uplift 5=-87(LC 4), 3=-41(LC 8)
 Max Grav 5=259(LC 1), 3=76(LC 1), 4=53(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; TC DL=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) 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.



November 12, 2019

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

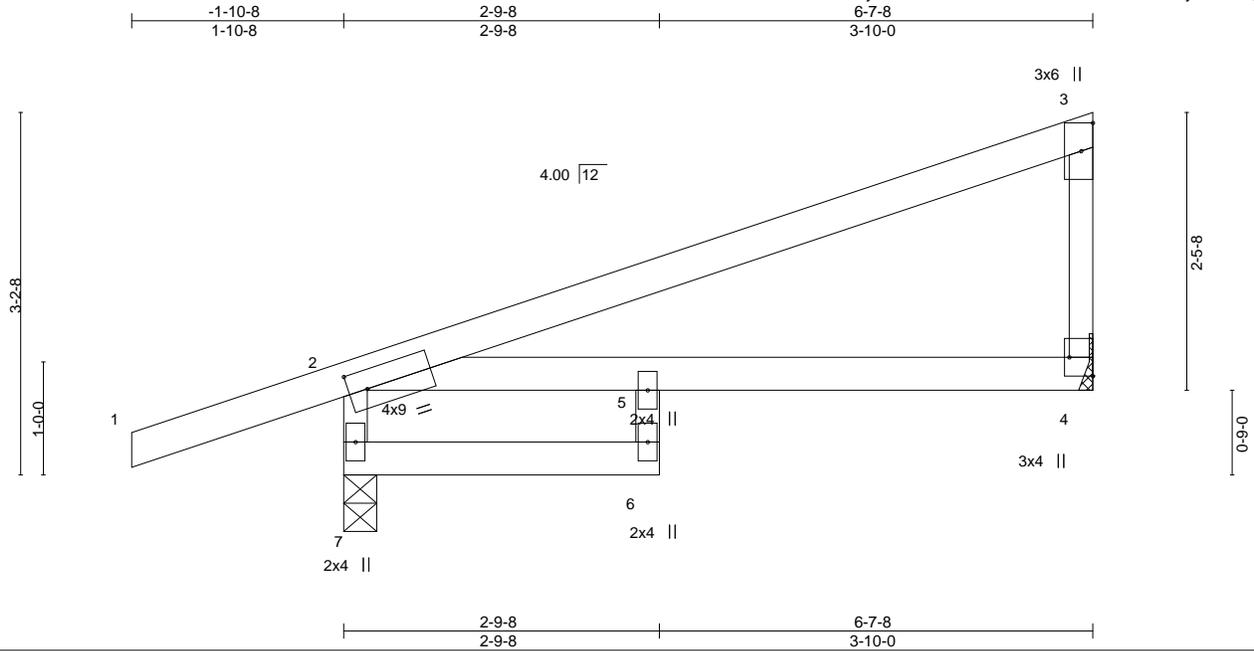
Job	Truss	Truss Type	Qty	Ply	Lot 24 HT	I39252244
400370	J48	Jack-Closed	5	1		

Wheeler Lumber, Waverly, KS 66871

8.240 s Jul 14 2019 MiTek Industries, Inc. Tue Nov 12 11:07:39 2019 Page 1

ID: XxAsF4MdGikvF3O7A2bzF0yH?NM-5r1XuNBhdPuHOSQVskLVMHSzzykisQ1Hf_leyByJxqY

6-7-8
3-10-0



Scale = 1:20.3

Plate Offsets (X,Y)--	[2:0-1-15,0-2-0], [4:Edge,0-2-8]				
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL 1.15	TC 0.51	Vert(LL) -0.06 4-5 >999 360	MT20	197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.31	Vert(CT) -0.13 4-5 >593 240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.02	Horz(CT) 0.04 4 n/a n/a		
BCDL 10.0	Code IRC2018/TPI2014	Matrix-R	Wind(LL) 0.03 6 >999 240	Weight: 23 lb	FT = 10%

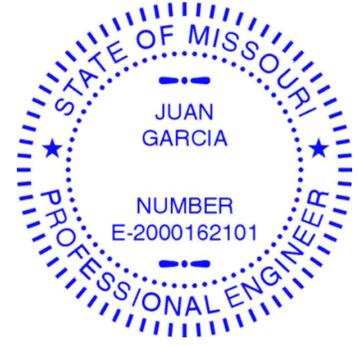
LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x3 SPF No.2	

REACTIONS. (lb/size) 7=449/0-3-8, 4=267/Mechanical
 Max Horz 7=95(LC 5)
 Max Uplift 7=-75(LC 4), 4=-19(LC 8)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-7=-431/99

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TC DL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); 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) 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.



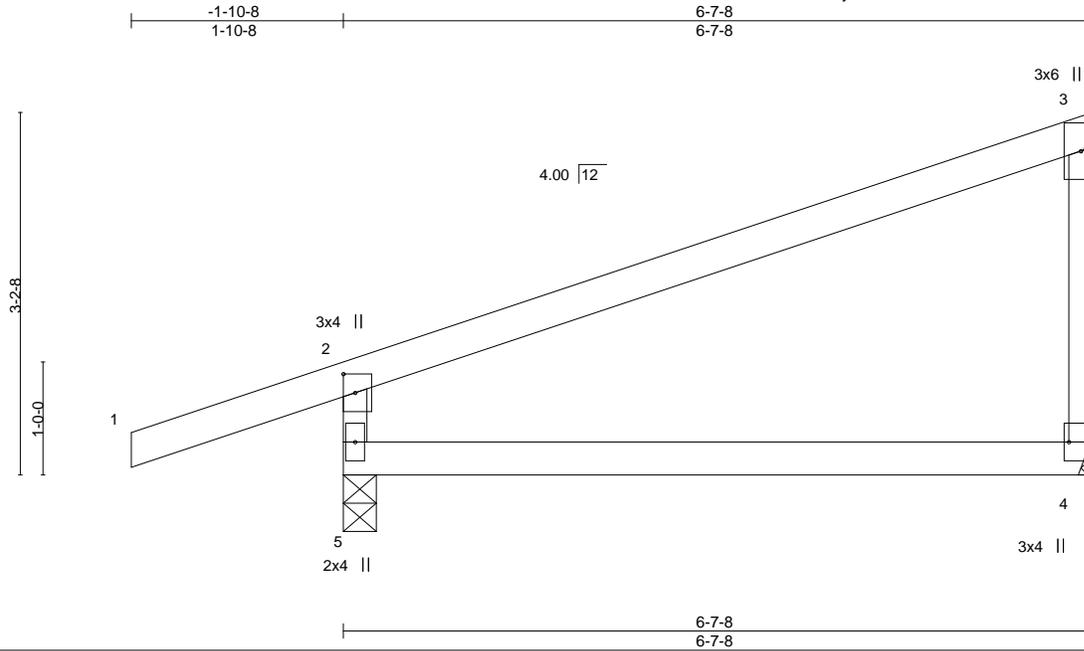
November 12, 2019

Job 400370	Truss J49	Truss Type Jack-Closed	Qty 1	Ply 1	Lot 24 HT Job Reference (optional)	I39252245
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Wheeler Lumber, Waverly, KS 66871

8.240 s Jul 14 2019 MiTek Industries, Inc. Tue Nov 12 11:07:39 2019 Page 1

ID: XxAsF4MdGikvF3O7A2bzF0yH?NM-5r1XuNBHdPuHOSQVsKLVMHsYjyJ8sQGhf_leyByJxqY



Scale = 1:20.3

Plate Offsets (X,Y)--	[2:0-2-0,0-1-4], [4:Edge,0-2-8]				
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 0.52	Vert(LL) -0.07 4-5 >999 360	MT20	197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.35	Vert(CT) -0.14 4-5 >534 240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT) 0.00 4 n/a n/a		
BCDL 10.0	Code IRC2018/TPI2014	Matrix-R	Wind(LL) 0.01 4-5 >999 240	Weight: 20 lb	FT = 10%

LUMBER-
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x3 SPF No.2

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

REACTIONS. (lb/size) 5=449/0-3-8, 4=267/Mechanical
Max Horz 5=104(LC 7)
Max Uplift 5=-76(LC 4), 4=-19(LC 8)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-5=-394/118

- NOTES-**
- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TC DL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); 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, 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.



November 12, 2019

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/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.

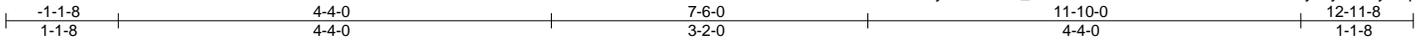


Job 400370	Truss K1	Truss Type Hip Girder	Qty 1	Ply 1	Lot 24 HT Job Reference (optional)	I39252246
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Wheeler Lumber, Waverly, KS 66871

8.240 s Jul 14 2019 MiTek Industries, Inc. Tue Nov 12 11:07:42 2019 Page 1

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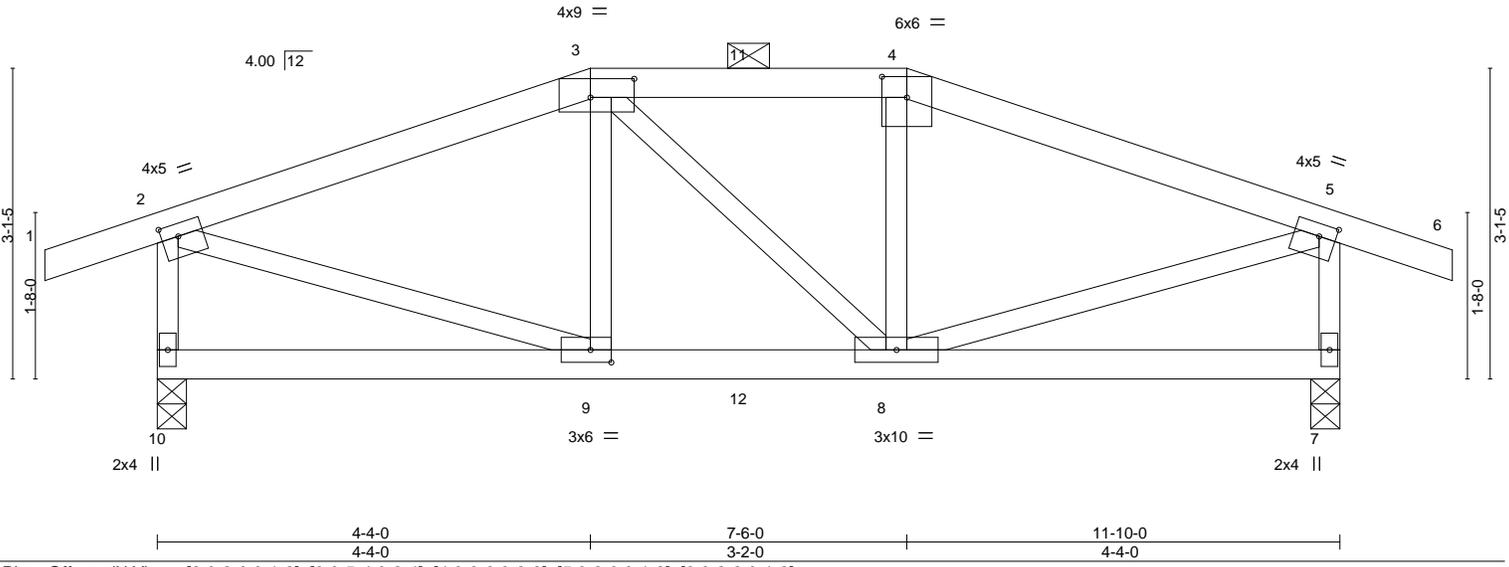


Plate Offsets (X, Y)--	[2:0-2-0,0-1-8], [3:0-5-4,0-2-4], [4:0-3-0,0-2-8], [5:0-2-0,0-1-8], [9:0-2-8,0-1-8]
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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.23	Vert(LL)	-0.02	8-9	>999	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.28	Vert(CT)	-0.04	8-9	>999		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.32	Horz(CT)	0.01	7	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-S	Wind(LL)	0.02	8-9	>999	Weight: 46 lb	FT = 10%

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied or 5-5-14 oc purlins, except end verticals, and 2-0-0 oc purlins (5-9-11 max.): 3-4.
BOT CHORD 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x3 SPF No.2	

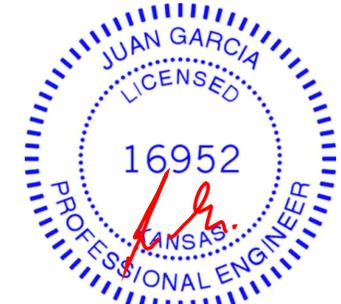
REACTIONS. (lb/size) 10=898/0-3-8, 7=898/0-3-8
 Max Horz 10=30(LC 7)
 Max Uplift 10=-262(LC 4), 7=-262(LC 5)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-1049/299, 3-4=-947/300, 4-5=-1049/298, 2-10=-852/283, 5-7=-852/283
 BOT CHORD 8-9=-234/947
 WEBS 2-9=-239/944, 5-8=-239/944

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 10=262, 7=262.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 85 lb down and 75 lb up at 4-4-0, and 85 lb down and 75 lb up at 5-11-0, and 85 lb down and 75 lb up at 7-6-0 on top chord, and 209 lb down and 88 lb up at 4-4-0, and 35 lb down at 5-11-0, and 209 lb down and 88 lb up at 7-5-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
 - In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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: 3=-46(F) 4=-46(F) 9=-209(F) 8=-209(F) 11=-46(F) 12=-20(F)



November 12, 2019

Job 400370	Truss K2	Truss Type Common	Qty 2	Ply 1	Lot 24 HT	I39252247
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Wheeler Lumber, Waverly, KS 66871

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4x5 =

Scale = 1:23.7

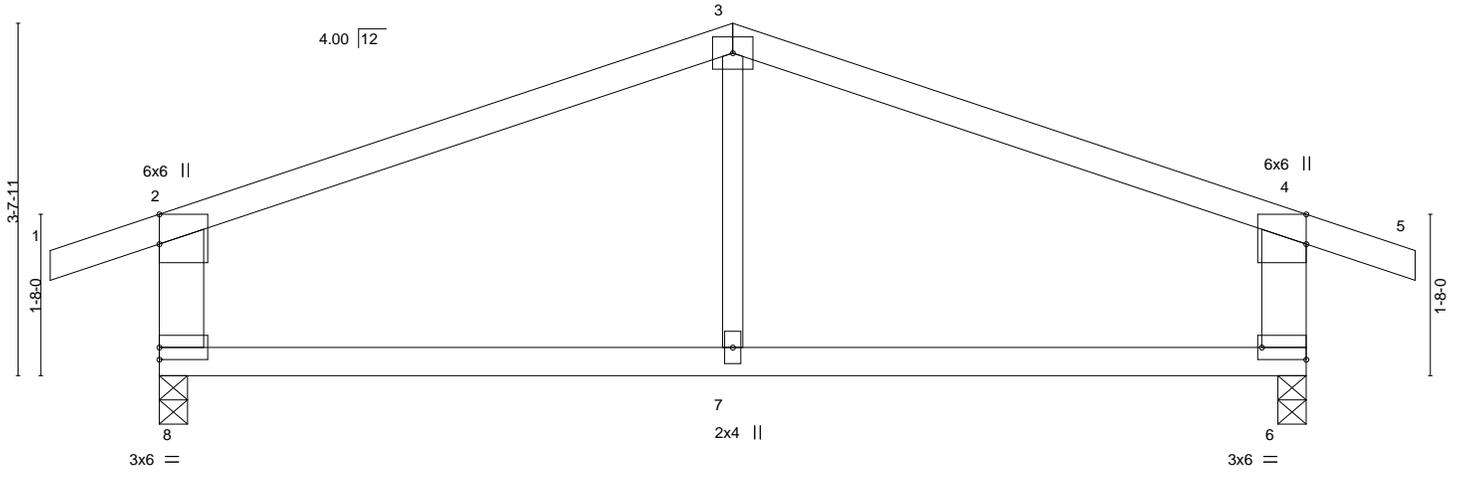


Plate Offsets (X,Y)--	[2:0-3-11,Edge], [4:0-3-11,0-0-0], [6:Edge,0-1-8]
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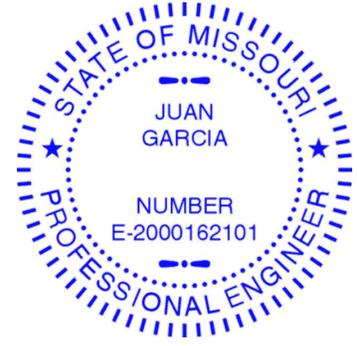
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.76	Vert(LL)	-0.11	7	>999	360	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.41	Vert(CT)	-0.22	7	>613	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.05	Horz(CT)	0.01	6	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-R	Wind(LL)	0.06	7	>999	240	Weight: 37 lb	FT = 10%

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x6 SPF No.2 *Except* 3-7: 2x3 SPF No.2	

REACTIONS. (lb/size) 8=607/0-3-8, 6=607/0-3-8
 Max Horz 8=28(LC 20)
 Max Uplift 8=-134(LC 4), 6=-134(LC 5)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-492/88, 3-4=-492/88, 2-8=-501/167, 4-6=-501/167
 BOT CHORD 7-8=-21/384, 6-7=-21/384

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TC DL=6.0psf; BC DL=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) 8=134, 6=134.
 - 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.



November 12, 2019

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/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

Job 400370	Truss K3	Truss Type Common Girder	Qty 1	Ply 2	Lot 24 HT Job Reference (optional)	I39252248
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Wheeler Lumber, Waverly, KS 66871

8.240 s Jul 14 2019 MiTek Industries, Inc. Tue Nov 12 11:07:44 2019 Page 1

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6x8 =

Scale = 1:23.7

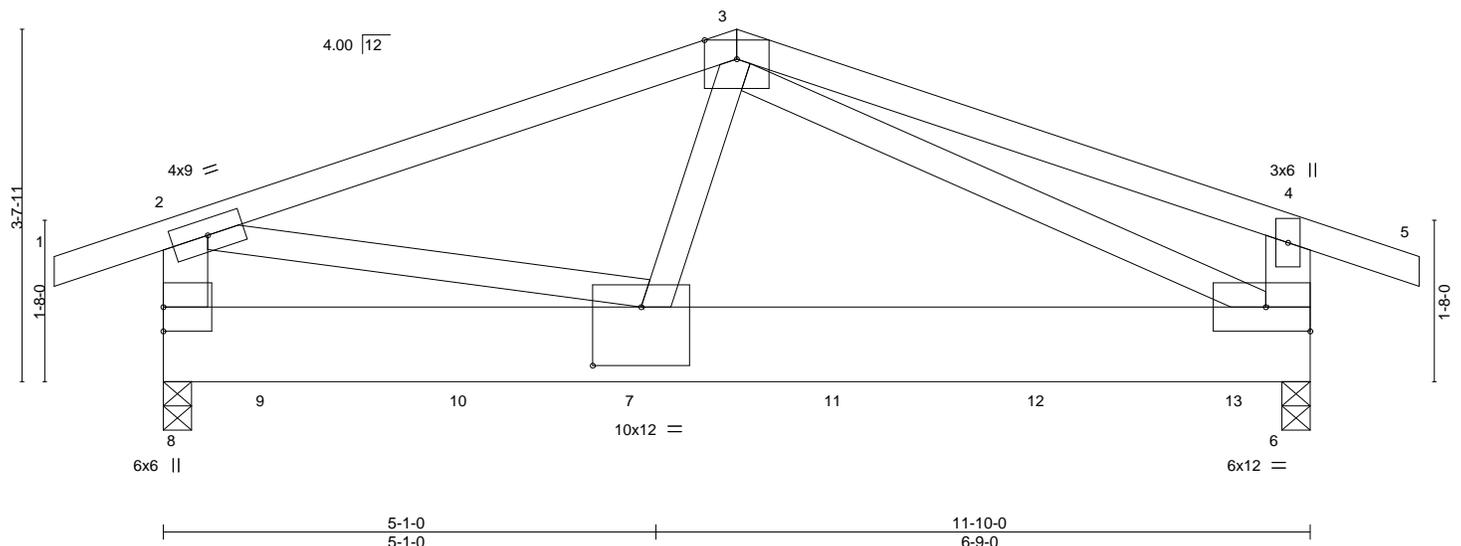


Plate Offsets (X,Y)-- [7:0-6-0,0-7-4]

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 0.56	Vert(LL)	-0.06	6-7	>999	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.37	Vert(CT)	-0.10	6-7	>999		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.59	Horz(CT)	0.01	6	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-S	Wind(LL)	0.03	6-7	>999	Weight: 163 lb	FT = 10%

LUMBER-
 TOP CHORD 2x4 SPF No.2
 BOT CHORD 2x10 SP 2400F 2.0E
 WEBS 2x4 SPF No.2 *Except*
 2-8,4-6: 2x6 SPF No.2

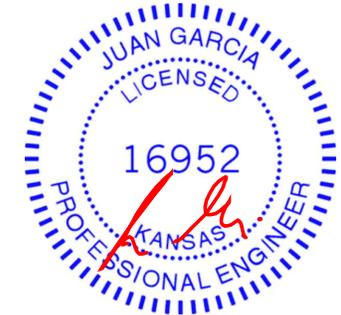
BRACING-
 TOP CHORD Structural wood sheathing directly applied or 4-8-7 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 8=5107/0-3-8, 6=4419/0-3-8
 Max Horz 8=-25(LC 35)
 Max Uplift 8=-330(LC 4), 6=-328(LC 5)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-5916/401, 3-4=-1350/157, 2-8=-3360/283, 4-6=-750/138
 BOT CHORD 7-8=-84/921, 6-7=-270/4400
 WEBS 3-7=-219/3902, 2-7=-288/4775, 3-6=-3637/218

- NOTES-**
- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
 Top chords connected as follows: 2x4 - 1 row at 0-7-0 oc, 2x6 - 2 rows staggered at 0-9-0 oc.
 Bottom chords connected as follows: 2x10 - 2 rows staggered at 0-4-0 oc.
 Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
 - All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
 - Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TC DL=6.0psf; BC DL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 8=330, 6=328.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1446 lb down and 71 lb up at 1-1-12, 1451 lb down and 80 lb up at 3-1-12, 1446 lb down and 89 lb up at 5-0-15, 2672 lb down and 270 lb up at 7-0-2, and 646 lb down and 42 lb up at 9-1-4, and 653 lb down and 39 lb up at 11-1-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard
 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15



November 12, 2019

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.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



Job 400370	Truss K3	Truss Type Common Girder	Qty 1	Ply 2	Lot 24 HT I39252248 Job Reference (optional)
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Wheeler Lumber, Waverly, KS 66871

8.240 s Jul 14 2019 MiTek Industries, Inc. Tue Nov 12 11:07:44 2019 Page 2
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LOAD CASE(S) Standard

Uniform Loads (plf)

Vert: 1-2=-70, 2-3=-70, 3-4=-70, 4-5=-70, 6-8=-20

Concentrated Loads (lb)

Vert: 7=-1446(B) 9=-1446(B) 10=-1451(B) 11=-2672(B) 12=-646(B) 13=-653(B)

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job 400370	Truss LAY2	Truss Type GABLE	Qty 1	Ply 1	Lot 24 HT	I39252249
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Wheeler Lumber, Waverly, KS 66871

8.240 s Jul 14 2019 MiTek Industries, Inc. Tue Nov 12 11:07:45 2019 Page 1

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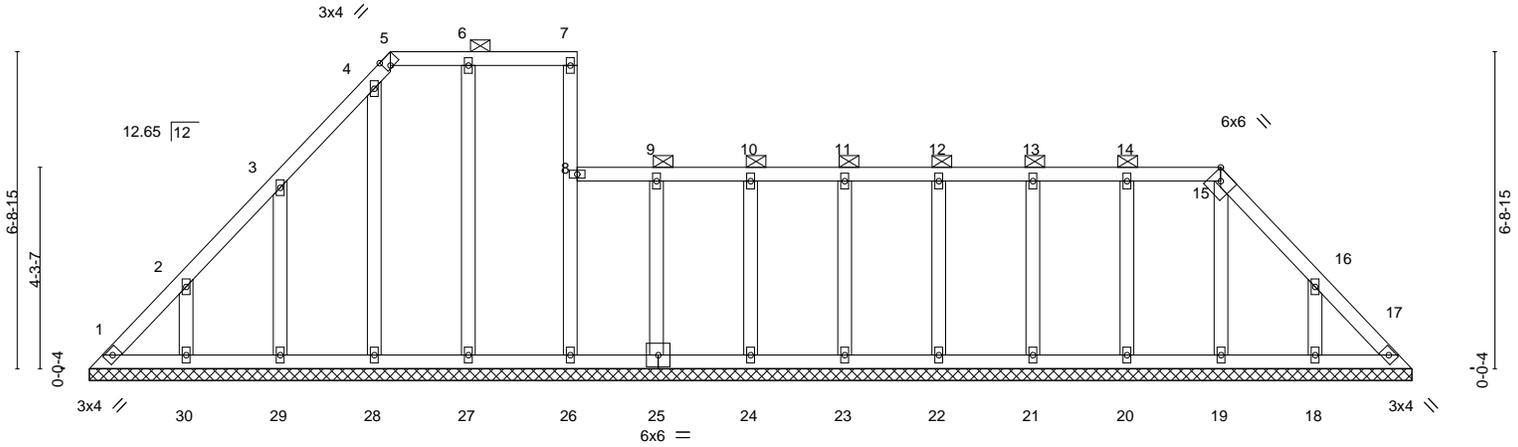


Plate Offsets (X,Y)--	[5:0-1-7,Edge], [15:0-2-9,Edge]
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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.06	Vert(LL)	n/a	-	n/a	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.03	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.12	Horz(CT)	0.01	17	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-S					Weight: 127 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.): 5-7, 8-26, 8-15.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 28-1-6.
(lb) - Max Horz 1=271(LC 8)
Max Uplift All uplift 100 lb or less at joint(s) 1, 26, 17, 24, 25, 27, 23, 22, 21, 20, 19 except 28=120(LC 8), 29=127(LC 8), 30=128(LC 8), 18=140(LC 9)
Max Grav All reactions 250 lb or less at joint(s) 26, 17, 24, 25, 27, 28, 29, 30, 23, 22, 21, 20, 19, 18 except 1=279(LC 8)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-401/193, 2-3=-280/147

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TC DL=6.0psf; BC DL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - Provide adequate drainage to prevent water ponding.
 - All plates are 2x4 MT20 unless otherwise indicated.
 - Gable requires continuous bottom chord bearing.
 - 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.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 26, 17, 24, 25, 27, 23, 22, 21, 20, 19 except (jt=lb) 28=120, 29=127, 30=128, 18=140.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



November 12, 2019

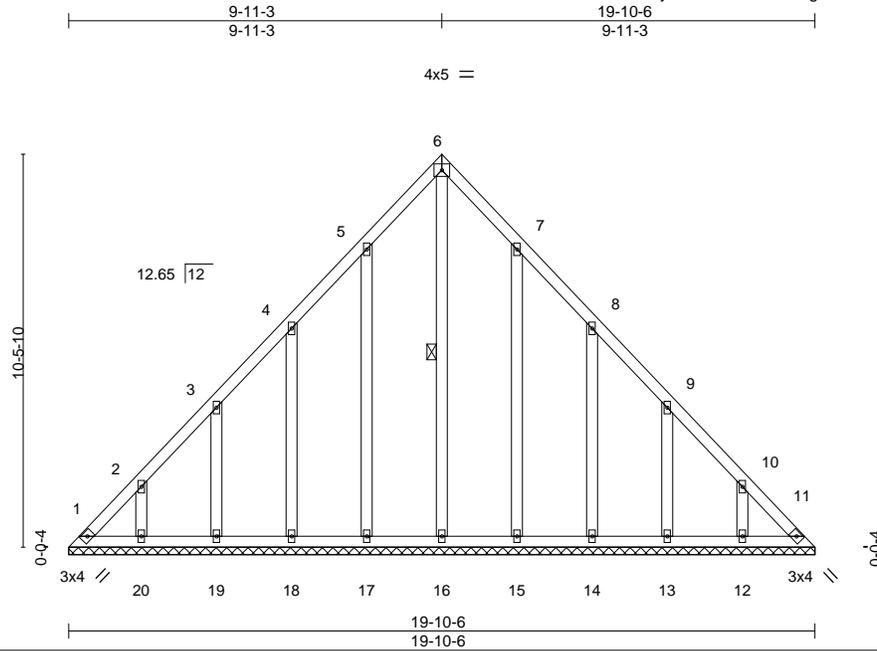
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, 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/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.



Job 400370	Truss LAY3	Truss Type GABLE	Qty 1	Ply 1	Lot 24 HT 139252250
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Wheeler Lumber, Waverly, KS 66871

8.240 s Jul 14 2019 MiTek Industries, Inc. Tue Nov 12 11:07:46 2019 Page 1
 ID:XXAsF4MdGikvF3O7A2bzF0yH?NM-OBDAmmGgzZnlkXSrnlz88mEHAnBR?ZOJGZxWiHyJxqR



Scale = 1:61.0

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 0.06	Vert(LL)	n/a	-	n/a	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.05	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.19	Horz(CT)	0.01	11	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-S					Weight: 108 lb	FT = 10%

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

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

REACTIONS. All bearings 19-10-6.
 (lb) - Max Horz 1=268(LC 4)
 Max Uplift All uplift 100 lb or less at joint(s) 11 except 1=125(LC 6), 17=122(LC 8), 18=128(LC 8), 19=124(LC 8), 20=124(LC 8), 15=120(LC 9), 14=129(LC 9), 13=124(LC 9), 12=124(LC 9)
 Max Grav All reactions 250 lb or less at joint(s) 11, 16, 17, 18, 19, 20, 15, 14, 13, 12 except 1=256(LC 8)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-2=-369/230, 2-3=-252/186, 10-11=-327/168

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - All plates are 2x4 MT20 unless otherwise indicated.
 - Gable requires continuous bottom chord bearing.
 - 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.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 11 except (jt=lb) 1=125, 17=122, 18=128, 19=124, 20=124, 15=120, 14=129, 13=124, 12=124.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



November 12, 2019

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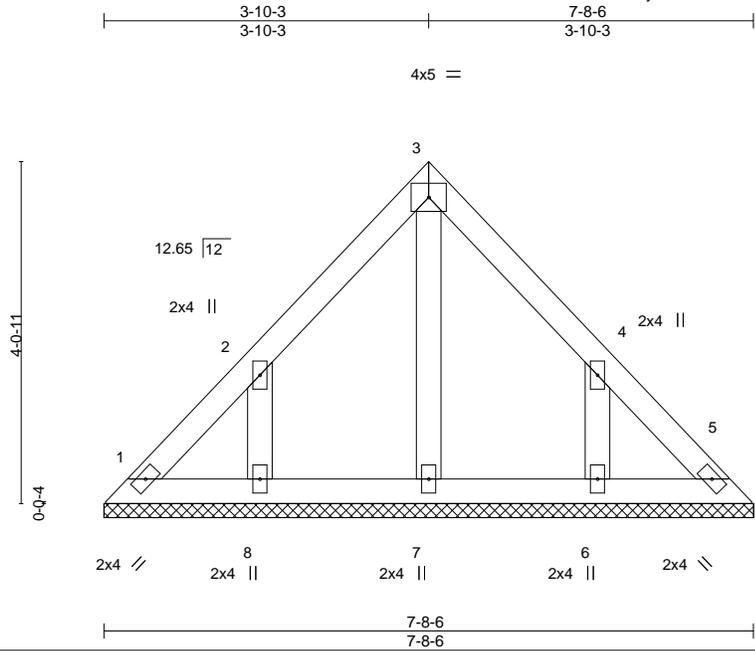


Job 400370	Truss LAY4	Truss Type GABLE	Qty 1	Ply 1	Lot 24 HT I39252251
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Wheeler Lumber, Waverly, KS 66871

8.240 s Jul 14 2019 MiTek Industries, Inc. Tue Nov 12 11:07:46 2019 Page 1

ID: XxAsF4MdGikvF3O7A2bzF0yH?NM-OB DAMmGgzZnlkXSmlz88mEHlnBp?bZJGZxWiHyJxqR



Scale = 1:27.2

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 0.05	Vert(LL)	n/a	-	n/a	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.02	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.03	Horz(CT)	0.00	5	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-P					Weight: 27 lb	FT = 10%

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

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

REACTIONS. All bearings 7-8-6.
 (lb) - Max Horz 1=98(LC 5)
 Max Uplift All uplift 100 lb or less at joint(s) 1, 5 except 8=-139(LC 8), 6=-139(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-

- 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
- Gable requires continuous bottom chord bearing.
- 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.
- 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=139, 6=139.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



November 12, 2019

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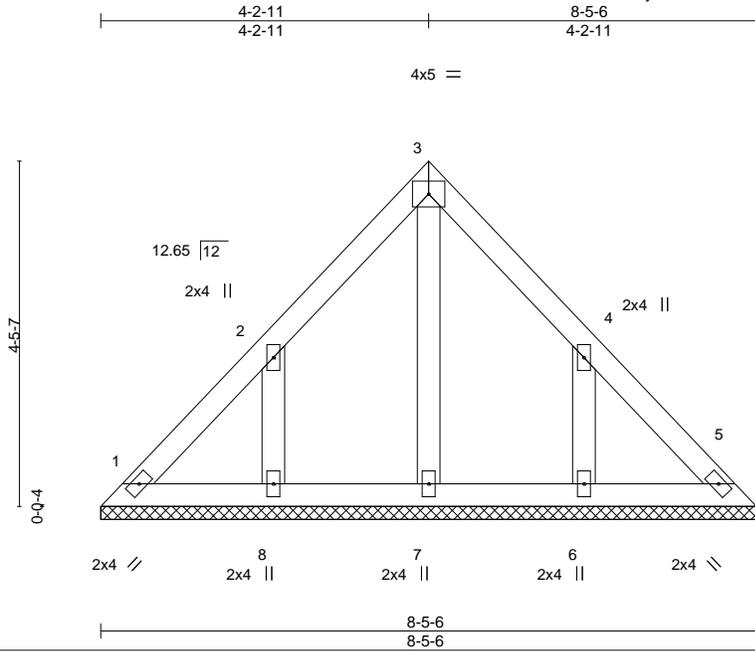


Job 400370	Truss LAY5	Truss Type GABLE	Qty 1	Ply 1	Lot 24 HT 139252252
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Wheeler Lumber, Waverly, KS 66871

8.240 s Jul 14 2019 MiTek Industries, Inc. Tue Nov 12 11:07:47 2019 Page 1

ID: XxAsF4MdGikvF3O7A2bzF0yH?NM-sNnYZ6Hlksv9Lh11K?VNgznSwAX?k2mTUDh3EkYJxqQ



Scale = 1:29.5

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 0.06	Vert(LL)	n/a	-	n/a	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.03	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.03	Horz(CT)	0.00	5	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-P					Weight: 31 lb	FT = 10%

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

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

REACTIONS. All bearings 8-5-6.
 (lb) - Max Horz 1=109(LC 4)
 Max Uplift All uplift 100 lb or less at joint(s) 1, 5 except 8=151(LC 8), 6=151(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-

- 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
- Gable requires continuous bottom chord bearing.
- 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.
- 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=151, 6=151.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



November 12, 2019

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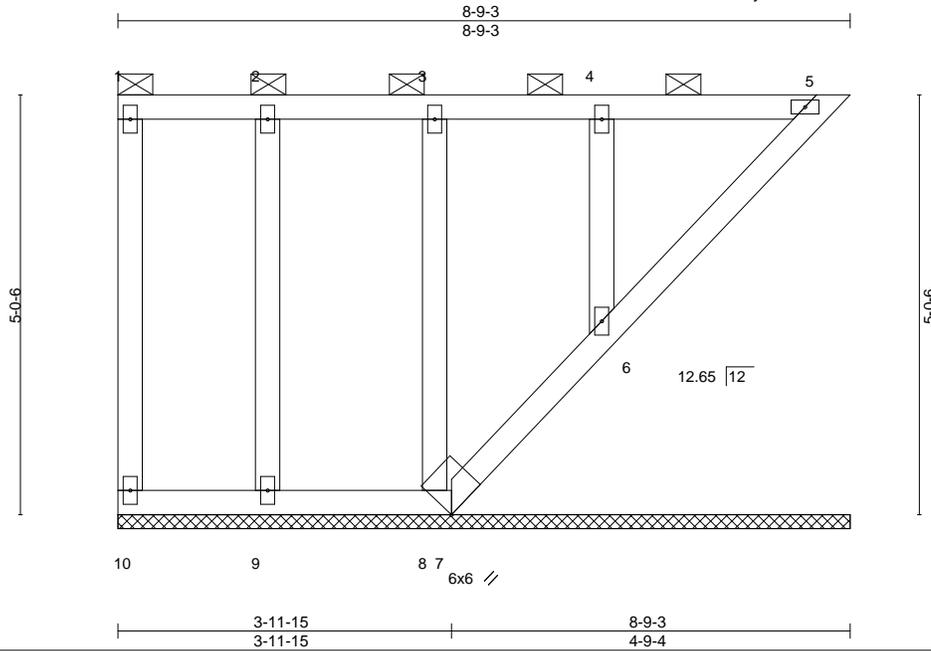


Job 400370	Truss LAY6	Truss Type GABLE	Qty 1	Ply 1	Lot 24 HT I39252253
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Wheeler Lumber, Waverly, KS 66871

8.240 s Jul 14 2019 MiTek Industries, Inc. Tue Nov 12 11:07:48 2019 Page 1

ID: XxAsF4MdGikvF3O7A2bzF0yH?NM-KZLwnSlwVA10zrcDuj0cDBKbMatrTVccjtQdnAyJxqP



Scale = 1:27.5

Plate Offsets (X,Y)--	[7:0-1-4,0-1-3], [8:0-1-3,0-1-4]				
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 0.14	Vert(LL) n/a - n/a 999	MT20	197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.05	Vert(CT) n/a - n/a 999		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.06	Horz(CT) 0.00 5 n/a n/a		
BCDL 10.0	Code IRC2018/TPI2014	Matrix-P		Weight: 40 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 2-0-0 oc purlins: 1-5, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. Except:
6-0-0 oc bracing: 5-6.

REACTIONS. All bearings 8-9-3.
(lb) - Max Horz 10=-135(LC 6)
Max Uplift All uplift 100 lb or less at joint(s) 10, 5, 7, 9, 8, 6
Max Grav All reactions 250 lb or less at joint(s) 10, 5, 7, 9, 8, 6

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) 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) 10, 5, 7, 9, 8, 6.
 - 8) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 5, 6.
 - 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.



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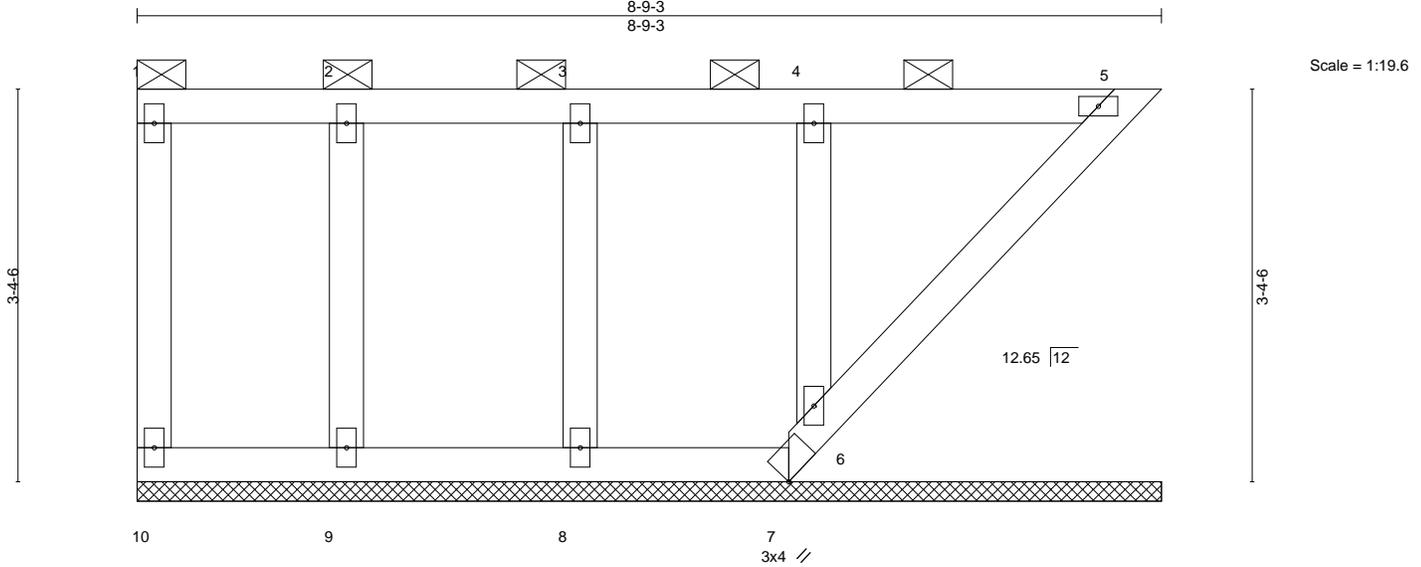


Job 400370	Truss LAY7	Truss Type GABLE	Qty 1	Ply 1	Lot 24 HT Job Reference (optional)	I39252254
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Wheeler Lumber, Waverly, KS 66871

8.240 s Jul 14 2019 MiTek Industries, Inc. Tue Nov 12 11:07:49 2019 Page 1

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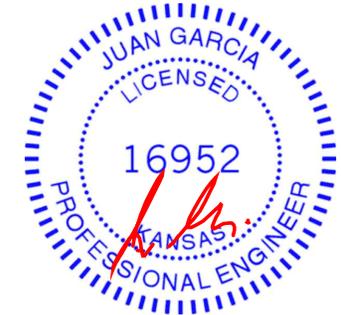
LOADING (psf)		SPACING-		CSI.		DEFL.				PLATES		GRIP		
TCLL	25.0	Plate Grip DOL	2-0-0	TC	0.08	in	(loc)	l/defl	L/d	MT20	197/144			
TCDL	10.0	Lumber DOL	1.15	BC	0.08	Vert(LL)	n/a	-	n/a					
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.03	Vert(CT)	n/a	-	n/a					
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P		Horz(CT)	0.00	5	n/a	n/a				
											Weight: 34 lb	FT = 10%		

LUMBER-		BRACING-	
TOP CHORD	2x4 SPF No.2	TOP CHORD	2-0-0 oc purlins: 1-5, except end verticals.
BOT CHORD	2x4 SPF No.2	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
WEBS	2x4 SPF No.2		6-0-0 oc bracing: 5-6.
OTHERS	2x4 SPF No.2		

REACTIONS. All bearings 8-9-3.
 (lb) - Max Horz 10=-87(LC 6)
 Max Uplift All uplift 100 lb or less at joint(s) 10, 5, 9, 8, 6 except 7=-115(LC 6)
 Max Grav All reactions 250 lb or less at joint(s) 10, 5, 7, 9, 8 except 6=298(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) 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) 10, 5, 9, 8, 6 except (jt=lb) 7=115.
 - 8) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 5, 6.
 - 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.



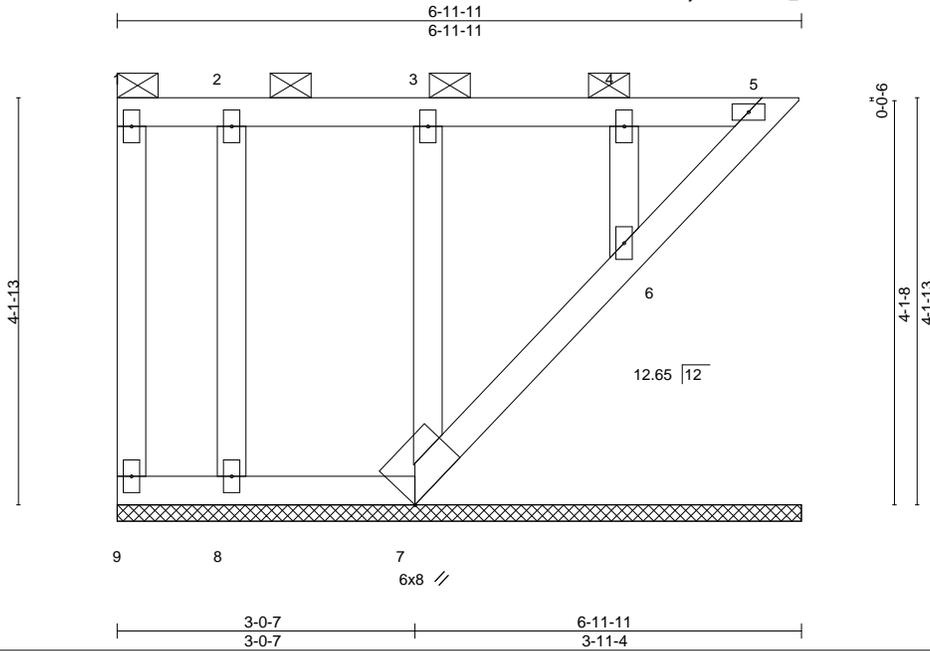
November 12, 2019

Job 400370	Truss LAY8	Truss Type GABLE	Qty 1	Ply 1	Lot 24 HT Job Reference (optional)	I39252255
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Wheeler Lumber, Waverly, KS 66871

8.240 s Jul 14 2019 MiTek Industries, Inc. Tue Nov 12 11:07:49 2019 Page 1

ID: XxAsF4MdGikvF3O7A2bzF0yH?NM-omvJ_nJYGU9tb?BQSQXrmOsnx_CJCyCmyXAAJcyJxqO



Scale = 1:23.4

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 0.09	Vert(LL)	n/a	-	n/a	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.04	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.04	Horz(CT)	0.00	5	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-P					Weight: 31 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 2-0-0 oc purlins (6-0-0 max.): 1-5, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. All bearings 6-11-11.
 (lb) - Max Horz 9=110(LC 6)
 Max Uplift All uplift 100 lb or less at joint(s) 9, 5, 8, 7, 6
 Max Grav All reactions 250 lb or less at joint(s) 9, 5, 8, 7, 6

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) 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) 9, 5, 8, 7, 6.
- 8) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 5, 6.
- 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.



November 12, 2019

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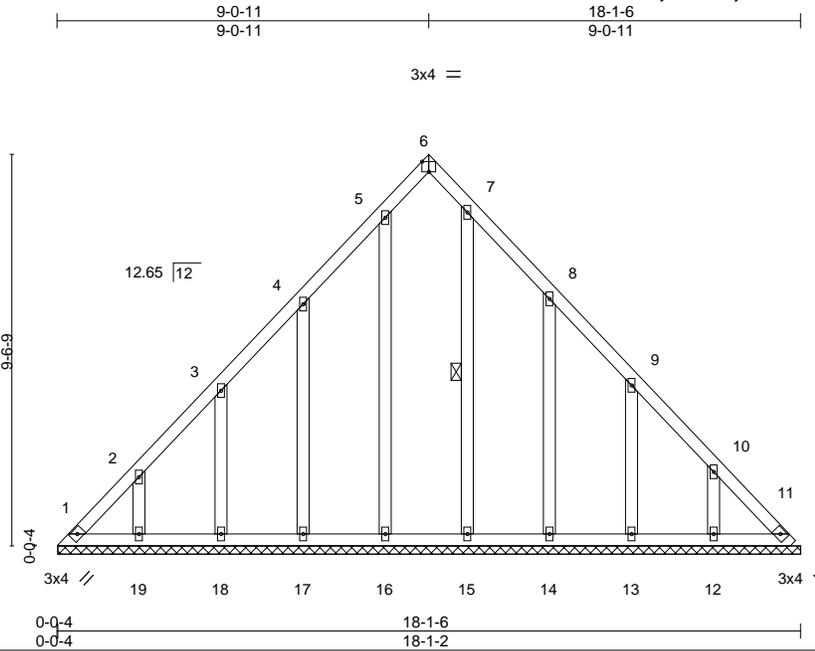


Job 400370	Truss LAY9	Truss Type GABLE	Qty 1	Ply 1	Lot 24 HT 139252256
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Wheeler Lumber, Waverly, KS 66871

8.240 s Jul 14 2019 MiTek Industries, Inc. Tue Nov 12 11:07:50 2019 Page 1

ID: XxAsF4MdGikvF3O7A2bzF0yH?NM-GyThB7KA1nHkC9mc0824lcPx4OYExMXvABvkr2yJxqN



Scale = 1:55.9

Plate Offsets (X,Y)--	[6:Edge,0-3-0]				
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 0.07	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 0.16	Horz(CT) 0.01 11 n/a n/a		
BCDL 10.0	Code IRC2018/TPI2014	Matrix-S		Weight: 93 lb	FT = 10%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midt 7-15

REACTIONS. All bearings 18-1-2.
(lb) - Max Horz 1=244(LC 4)
Max Uplift All uplift 100 lb or less at joint(s) 11, 16, 15 except 1=100(LC 6), 19=127(LC 8), 18=120(LC 8),
17=145(LC 8), 14=150(LC 9), 13=118(LC 9), 12=132(LC 9)
Max Grav All reactions 250 lb or less at joint(s) 19, 18, 17, 16, 15, 14, 13, 12 except 1=284(LC 8),
11=268(LC 9)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-408/198, 2-3=-288/153, 9-10=-262/124, 10-11=-387/172
BOT CHORD 1-19=-120/295, 18-19=-120/295, 17-18=-120/295, 16-17=-120/295, 15-16=-120/295,
14-15=-120/295, 13-14=-120/295, 12-13=-120/295, 11-12=-120/295

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - All plates are 2x4 MT20 unless otherwise indicated.
 - Gable requires continuous bottom chord bearing.
 - 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.
 - Bearing at joint(s) 1, 11, 19, 18, 17, 16, 15, 14, 13, 12 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 11, 16, 15 except (jt=lb) 1=100, 19=127, 18=120, 17=145, 14=150, 13=118, 12=132.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



November 12, 2019

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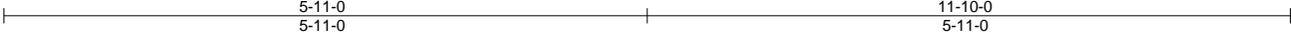


Job 400370	Truss R1	Truss Type FLAT GIRDER	Qty 1	Ply 2	Lot 24 HT	I39252257
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Wheeler Lumber, Waverly, KS 66871

8.240 s Jul 14 2019 MiTek Industries, Inc. Tue Nov 12 11:07:51 2019 Page 1

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Scale = 1:21.1

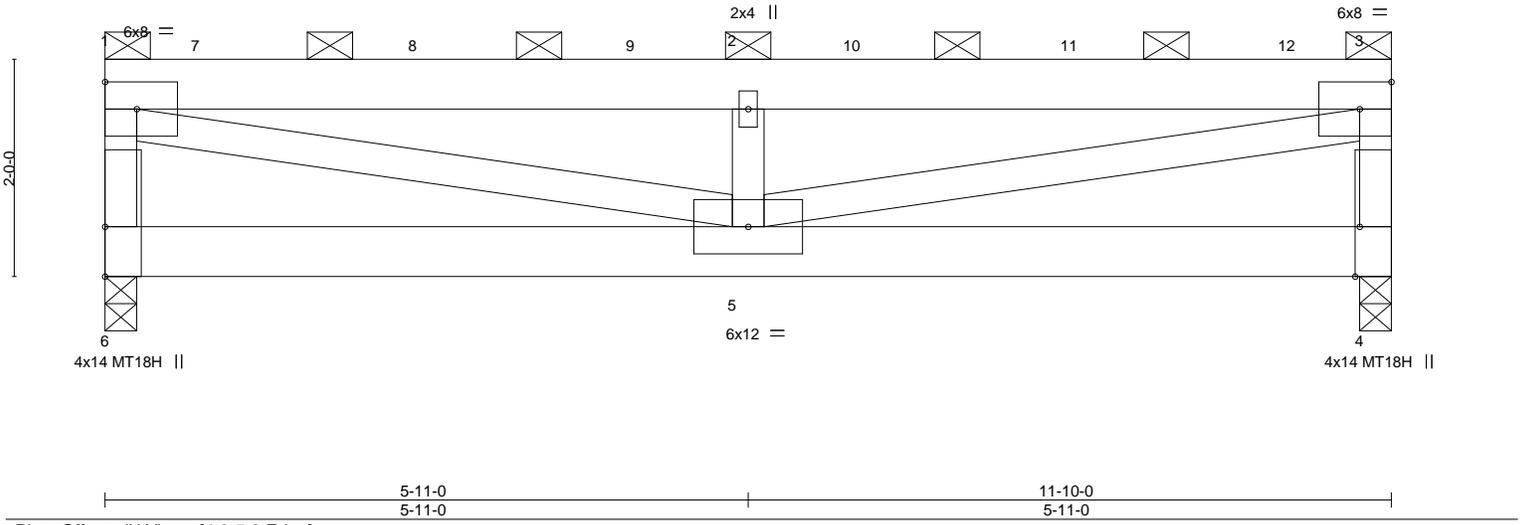


Plate Offsets (X,Y)--	[4:0-5-8,Edge]
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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP	
TCLL 25.0	Plate Grip DOL	1.15	TC 0.57	Vert(LL)	-0.09	5	>999	360	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.35	Vert(CT)	-0.16	5	>858	240	MT18H	197/144
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.71	Horz(CT)	0.00	4	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-S	Wind(LL)	0.05	5	>999	240		Weight: 131 lb FT = 10%

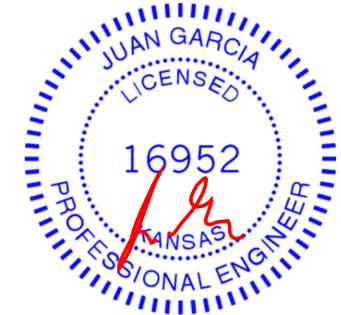
LUMBER-	BRACING-
TOP CHORD 2x6 SP 2400F 2.0E	TOP CHORD 2-0-0 oc purlins (6-0-0 max.): 1-3, except end verticals.
BOT CHORD 2x6 SPF No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SPF No.2	

REACTIONS. (lb/size) 6=3105/0-3-8, 4=3165/0-3-8
 Max Horz 6=59(LC 22)
 Max Uplift 6=96(LC 4), 4=-91(LC 5)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-6=-2907/119, 1-2=-6119/174, 2-3=-6119/174, 3-4=-2968/115
 BOT CHORD 5-6=-55/510, 4-5=-26/509
 WEBS 1-5=-177/5806, 2-5=-3161/176, 3-5=-179/5807

- NOTES-**
- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
 Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc, 2x6 - 2 rows staggered 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.
 - All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
 - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - Provide adequate drainage to prevent water ponding.
 - All plates are MT20 plates unless otherwise indicated.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6, 4.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 875 lb down and 23 lb up at 0-11-12, 869 lb down and 15 lb up at 2-11-12, 869 lb down and 15 lb up at 4-11-12, 869 lb down and 15 lb up at 6-11-12, and 869 lb down and 15 lb up at 8-11-12, and 879 lb down and 16 lb up at 10-11-12 on top chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard



November 12, 2019

Continued on page 2

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16023 Swingley Ridge Rd
 Chesterfield, MO 63017

Job 400370	Truss R1	Truss Type FLAT GIRDER	Qty 1	Ply 2	Lot 24 HT I39252257 Job Reference (optional)
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Wheeler Lumber, Waverly, KS 66871

8.240 s Jul 14 2019 MiTek Industries, Inc. Tue Nov 12 11:07:51 2019 Page 2
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LOAD CASE(S) Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
 - Vert: 1-3=-70, 4-6=-20
- Concentrated Loads (lb)
 - Vert: 7=-875 8=-869 9=-869 10=-869 11=-869 12=-879

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Chesterfield, MO 63017

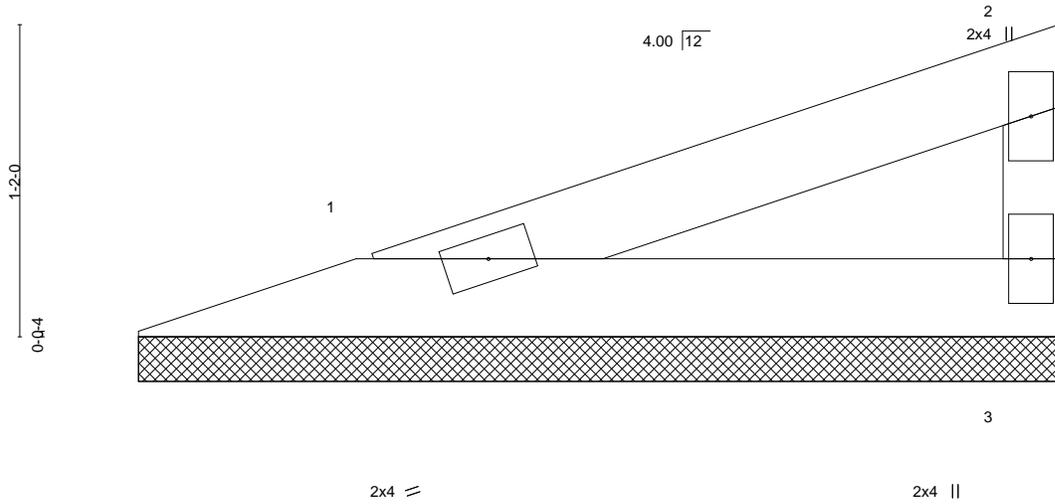
Job 400370	Truss V1	Truss Type Valley	Qty 1	Ply 1	Lot 24 HT Job Reference (optional)	I39252258
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Wheeler Lumber, Waverly, KS 66871

8.240 s Jul 14 2019 MiTek Industries, Inc. Tue Nov 12 11:07:52 2019 Page 1

ID: XxAsF4MdGikvF3O7A2bzF0yH?NM-DLbRcpLRZPXRSSv?7Z4YN1UH?BEkPIUCeVQqwxyJxQL
3-6-0
3-6-0

Scale = 1:8.6



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 0.10	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: 7 lb	FT = 10%

LUMBER-
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x3 SPF No.2

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

REACTIONS. (lb/size) 1=110/3-5-4, 3=110/3-5-4
Max Horz 1=37(LC 5)
Max Uplift 1=-18(LC 4), 3=-24(LC 8)

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.



November 12, 2019

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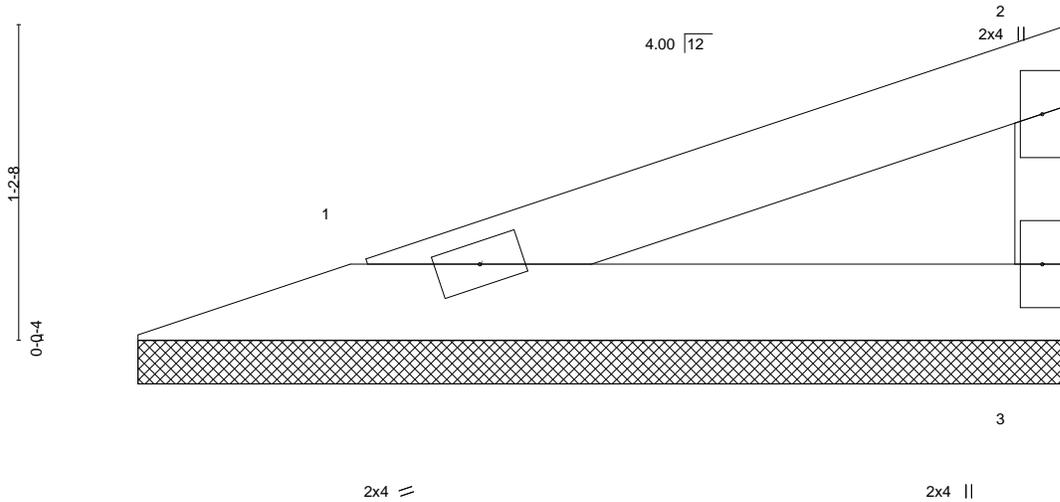
Job 400370	Truss V2	Truss Type Valley	Qty 1	Ply 1	Lot 24 HT Job Reference (optional)	I39252259
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Wheeler Lumber, Waverly, KS 66871

8.240 s Jul 14 2019 MiTek Industries, Inc. Tue Nov 12 11:07:52 2019 Page 1

ID: XxAsF4MdGikvF3O7A2bzF0yH?NM-DLbRcpLRZPXRSsv?7Z4YN1UHpbEdPIUCeVQqwxyJxQL
3-7-8
3-7-8

Scale = 1:8.8



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 0.11	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-
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x3 SPF No.2

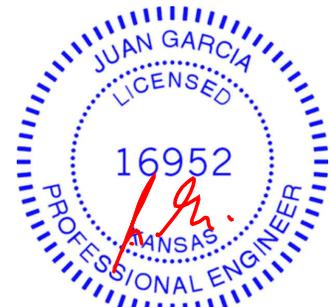
BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-7-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 1=116/3-6-12, 3=116/3-6-12
Max Horz 1=39(LC 7)
Max Uplift 1=-19(LC 4), 3=-25(LC 8)

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.



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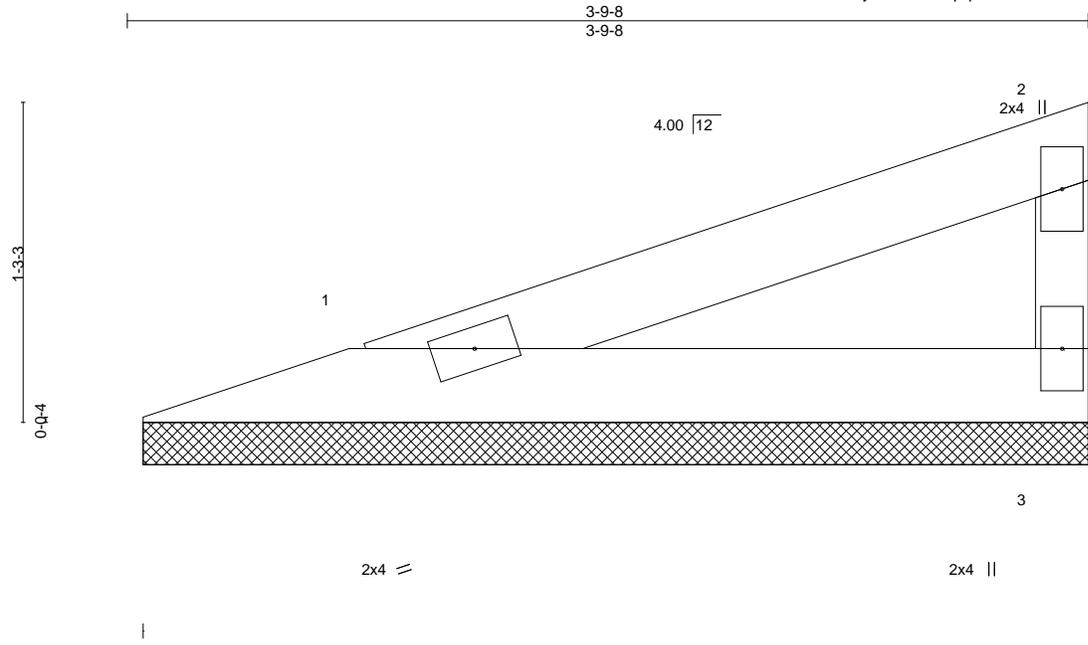


Job 400370	Truss V3	Truss Type Valley	Qty 1	Ply 1	Lot 24 HT Job Reference (optional)	139252260
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8.240 s Jul 14 2019 MiTek Industries, Inc. Tue Nov 12 11:07:53 2019 Page 1

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Scale = 1:9.0

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 0.13	Vert(LL)	n/a	-	n/a	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.07	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	-0.00	3	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-P					Weight: 8 lb	FT = 10%

LUMBER-
 TOP CHORD 2x4 SPF No.2
 BOT CHORD 2x4 SPF No.2
 WEBS 2x3 SPF No.2

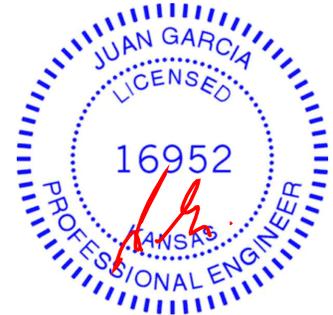
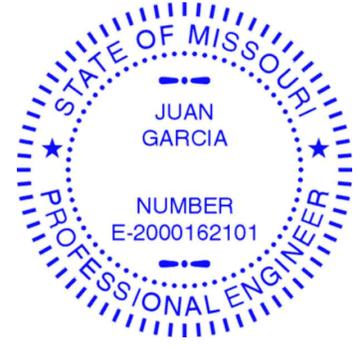
BRACING-
 TOP CHORD Structural wood sheathing directly applied or 3-9-8 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 1=124/3-8-12, 3=124/3-8-12
 Max Horz 1=41(LC 5)
 Max Uplift 1=-20(LC 4), 3=-26(LC 8)

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.



November 12, 2019

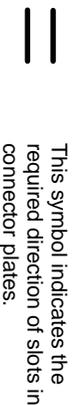
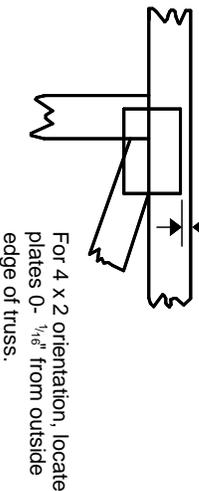
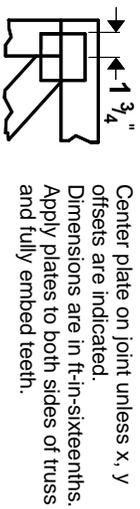
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Symbols

PLATE LOCATION AND ORIENTATION



* Plate location details available in **MITek 20/20 software** or upon request.

PLATE SIZE

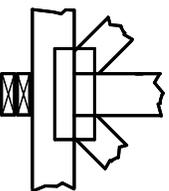
4 X 4

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

LATERAL BRACING LOCATION



BEARING

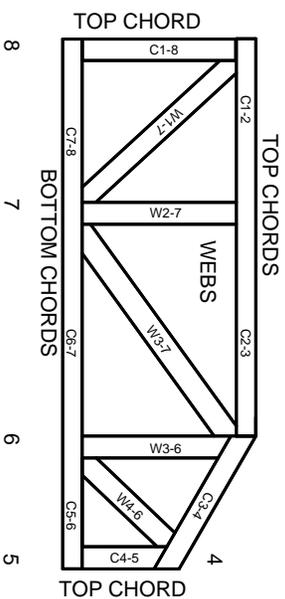


Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

Industry Standards:

ANSI/TPI 1: National Design Specification for Metal Plate Connected Wood Truss Construction.
DSB-89: Design Standard for Bracing.
BCSI: Building Component Safety Information, Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses.

Numbering System



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

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

PRODUCT CODE APPROVALS

ICC-ES Reports:

ESR-1311, ESR-1352, ESR1988
ER-3907, ESR-2362, ESR-1397, ESR-3282

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

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

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General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

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



MITek Engineering Reference Sheet: MI1-7473 rev. 10/03/2015