



**RELEASE FOR
CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI**

06/02/2020

RE: 400279
Lot 62 MN

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

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

Design Code: IRC2018/TPI2014

Design Program: MiTek 20/20 8.2

Wind Code: N/A

Wind Speed: 115 mph

Roof Load: 45.0 psf

Floor Load: N/A psf

This package includes 78 individual, dated Truss Design Drawings and 0 Additional Drawings.

No.	Seal#	Truss Name	Date	No.	Seal#	Truss Name	Date
1	I38965452	A1	5/6/2020	27	I38965478	G4	5/6/2020
2	I38965453	A2	5/6/2020	28	I38965479	G5	5/6/2020
3	I38965454	A3	5/6/2020	29	I38965480	G6	5/6/2020
4	I38965455	A4	5/6/2020	30	I38965481	G7	5/6/2020
5	I38965456	B1	5/6/2020	31	I38965482	H1	5/6/2020
6	I38965457	B2	5/6/2020	32	I38965483	H2	5/6/2020
7	I38965458	C1	5/6/2020	33	I38965484	H3	5/6/2020
8	I38965459	C2	5/6/2020	34	I38965485	J1	5/6/2020
9	I38965460	C3	5/6/2020	35	I38965486	J2	5/6/2020
10	I38965461	C4	5/6/2020	36	I38965487	J3	5/6/2020
11	I38965462	C5	5/6/2020	37	I38965488	J4	5/6/2020
12	I38965463	C6	5/6/2020	38	I38965489	J5	5/6/2020
13	I38965464	D1	5/6/2020	39	I38965490	J6	5/6/2020
14	I38965465	D2	5/6/2020	40	I38965491	J6A	5/6/2020
15	I38965466	D3	5/6/2020	41	I38965492	J7	5/6/2020
16	I38965467	D4	5/6/2020	42	I38965493	J8	5/6/2020
17	I38965468	D5	5/6/2020	43	I38965494	J9	5/6/2020
18	I38965469	D6	5/6/2020	44	I38965495	J10	5/6/2020
19	I38965470	E1	5/6/2020	45	I38965496	J11	5/6/2020
20	I38965471	E2	5/6/2020	46	I38965497	J12	5/6/2020
21	I38965472	E3	5/6/2020	47	I38965498	J13	5/6/2020
22	I38965473	E4	5/6/2020	48	I38965499	J14	5/6/2020
23	I38965474	E5	5/6/2020	49	I38965500	J15	5/6/2020
24	I38965475	G1	5/6/2020	50	I38965501	J16	5/6/2020
25	I38965476	G2	5/6/2020	51	I38965502	J17	5/6/2020
26	I38965477	G3	5/6/2020	52	I38965503	J18	5/6/2020

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.



May 06, 2020



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Chesterfield, MO 63017
314-434-1200

Site Information:

Project Customer: Project Name:

Lot/Block:

Subdivision:

Address:

City, County:

State:

No.	Seal#	Truss Name	Date
53	I38965504	J19	5/6/2020
54	I38965505	J20	5/6/2020
55	I38965506	J21	5/6/2020
56	I38965507	J22	5/6/2020
57	I38965508	J23	5/6/2020
58	I38965509	J24	5/6/2020
59	I38965510	J25	5/6/2020
60	I38965511	K1	5/6/2020
61	I38965512	K2	5/6/2020
62	I38965513	K3	5/6/2020
63	I38965514	K4	5/6/2020
64	I38965515	K5	5/6/2020
65	I38965516	K6	5/6/2020
66	I38965517	LAY1	5/6/2020
67	I38965518	LAY2	5/6/2020
68	I38965519	LAY3	5/6/2020
69	I38965520	LAY4	5/6/2020
70	I38965521	LAY5	5/6/2020
71	I38965522	R1	5/6/2020
72	I38965523	V1	5/6/2020
73	I38965524	V2	5/6/2020
74	I38965525	V3	5/6/2020
75	I38965526	V4	5/6/2020
76	I38965527	V5	5/6/2020
77	I38965528	V6	5/6/2020
78	I38965529	V7	5/6/2020



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

Design Code: IRC2018/TPI2014

Design Program: MiTek 20/20 8.2

Wind Code: N/A

Wind Speed: 115 mph

Roof Load: 45.0 psf

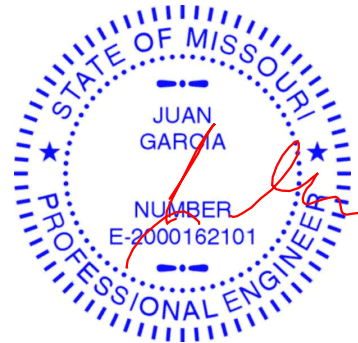
Floor Load: N/A psf

This package includes 78 individual, dated Truss Design Drawings and 0 Additional Drawings.

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1	I38965452	A1	5/6/2020	27	I38965478	G4	5/6/2020
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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

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



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66	I38965517	LAY1	5/6/2020
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68	I38965519	LAY3	5/6/2020
69	I38965520	LAY4	5/6/2020
70	I38965521	LAY5	5/6/2020
71	I38965522	R1	5/6/2020
72	I38965523	V1	5/6/2020
73	I38965524	V2	5/6/2020
74	I38965525	V3	5/6/2020
75	I38965526	V4	5/6/2020
76	I38965527	V5	5/6/2020
77	I38965528	V6	5/6/2020
78	I38965529	V7	5/6/2020

Job

400279

Truss

A1

Truss Type

HIP GIRDER

RELEASE FOR CONSTRUCTION

AS NOTED ON PLANS REVIEW

DEVELOPMENT SERVICES

LEE'S SUMMIT, MISSOURI

06/02/2020

Ply

2

Lot 62 MN

I38965452

Wheeler Lumber,

Waverly, KS 66871

8,240 s

Jul 14 2019

MiTek Industries, Inc.

Fri Oct 18 10:30:34 2019

Page 1

ID:0wpcF2OVQmpO8KfbvhhbxsjzTP7M-E1LafyqRQDuPGljPU6nTYa1sUkiovYaoyrCCIBYSCbZ

Job Reference (optional)

0-10-8

2-0-0

3-6-8

8-0-0

12-5-8

14-0-0

16-0-0

16-10-8

0-10-8

0-10-8

2-0-0

1-6-8

4-5-8

Scale = 1:29.9

Plate Offsets (X,Y)--		[3:0-2-2,0-2-11], [4:0-6-0,0-2-6], [6:0-6-0,0-2-6], [7:0-2-2,0-2-11]	
LOADING (psf)	SPACING-	CSI.	DEFL.
TCLL 25.0	Plate Grip DOL 1.15	TC 0.52	in (loc) l/defl L/d
TCDL 10.0	Lumber DOL 1.15	BC 0.55	Vert(LL) -0.14 12 >999 360
BCLL 0.0 *	Rep Stress Incr NO	WB 0.14	Vert(CT) -0.26 12 >721 240
BCDL 10.0	Code IRC2018/TPI2014	Matrix-S	Horz(CT) 0.14 8 n/a n/a
			Wind(LL) 0.11 12 >999 240
			Weight: 120 lb FT = 10%

LUMBER-		BRACING-	
TOP CHORD	2x6 SPF No.2 *Except*	TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except
	4-6: 2x4 SPF No.2		2-0-0 oc purlins (5-9-15 max.): 4-6.
BOT CHORD	2x4 SPF No.2	BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS	2x4 SPF No.2		

REACTIONS.	
(lb/size)	2=1121/0-3-8, 8=1121/0-3-8
Max Horz	2=32(LC 29)
Max Uplift	2=173(LC 4), 8=173(LC 5)

FORCES.	
(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.	
TOP CHORD	2-3=-538/100, 3-4=-3255/474, 4-5=-4258/624, 5-6=-4258/624, 6-7=-3255/474, 7-8=-538/101
BOT CHORD	3-13=-423/3148, 12-13=-420/3195, 11-12=-419/3195, 7-11=-422/3148
WEBS	4-13=0/321, 4-12=-160/1147, 5-12=-334/163, 6-12=-160/1147, 6-11=0/321

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, 2x4 - 1 row at 0-9-0 oc.
Bottom chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
- All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) 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 173 lb uplift at joint 2 and 173 lb uplift at joint 8.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 65 lb down and 45 lb up at 3-6-8, 71 lb down and 45 lb up at 5-0-0, 71 lb down and 45 lb up at 7-0-0, 71 lb down and 45 lb up at 9-0-0, and 71 lb down and 45 lb up at 11-0-0, and 65 lb down and 45 lb up at 12-5-8 on top chord, and 203 lb down and 64 lb up at 3-6-8, 41 lb down at 5-0-0, 41 lb down at 7-0-0, 41 lb down at 9-0-0, and 41 lb down at 11-0-0, and 203 lb down and 64 lb up at 12-4-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

October 18,2019

Continued on page 2

LOAD CASE(S) - Standard

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.

MiTek

16023 Swingley Ridge Rd

Chesterfield, MO 63017

Job		Truss	Truss Type	<div>RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI 06/02/2020</div>		Ply	Lot 62 MN
400279		A1	HIP GIRDER			2	I38965452
Wheeler Lumber, Waverly, KS 66871				Job Reference (optional)			
				8.240 s Jul 14 2019 MiTek Industries, Inc. Fri Oct 18 10:30:34 2019 Page 2 ID:0wpcF2OVQmpO8KfbvhhbxsjzTP7M-E1LafyqRQDuPGljPU6nTYa1sUki ovYaoyrCCIBYSCbZ			
LOAD CASE(S) Standard 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15							

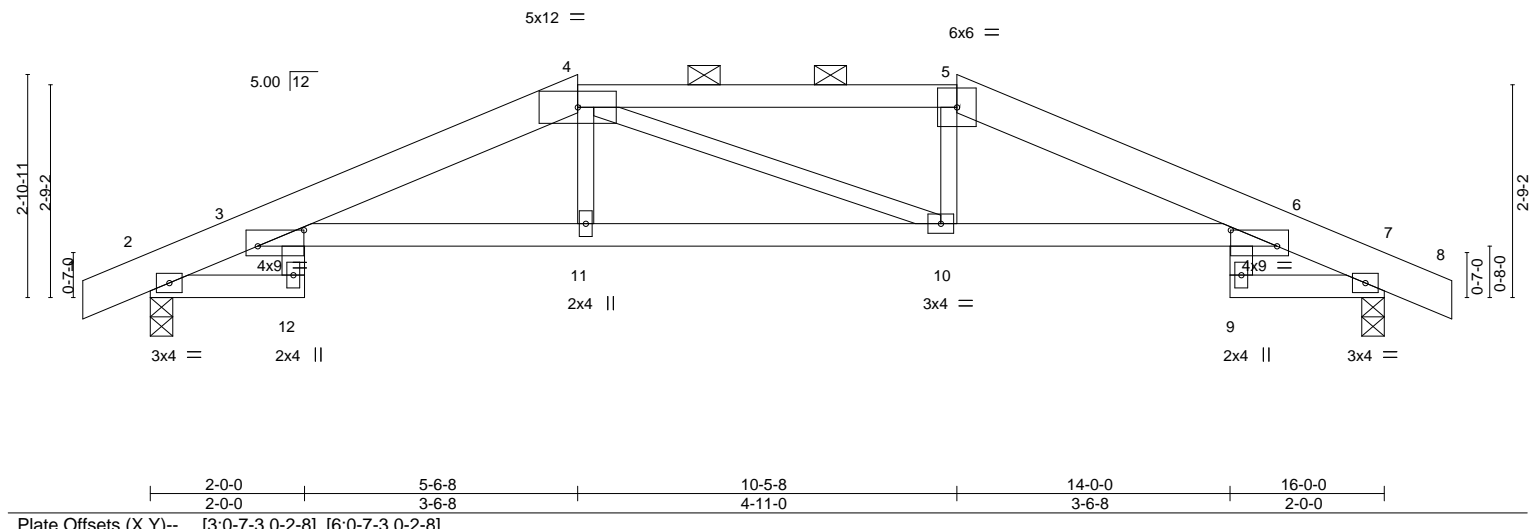
LOAD CASE(S) Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-4=-70, 4-6=-70, 6-9=-70, 2-14=-20, 3-7=-20, 8-10=-20
Concentrated Loads (lb)
Vert: 4=-16(F) 6=-16(F) 13=-203(F) 11=-203(F) 15=-16(F) 16=-16(F) 17=-16(F) 18=-16(F) 19=-41(F) 20=-41(F) 21=-41(F) 22=-41(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



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 0.61	Vert(LL)	-0.10 11	>999	360	MT20	197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.60	Vert(CT)	-0.19 3-11	>972	240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.09	Horz(CT)	0.18 7	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014	Matrix-S	Wind(LL)	0.07 3-11	>999	240	Weight: 58 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 4-4-9 oc purlins, except 2-0-0 oc purlins (4-6-1 max.): 4-5.
BOT CHORD	2x4 SPF No.2	BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS	2x3 SPF No.2 *Except* 3-12,6-9: 2x4 SPF No.2		

REACTIONS. (lb/size) 2=789/0-3-8, 7=789/0-3-8
Max Horz 2=-47(LC 13)
Max Uplift 2=-93(LC 4), 7=-93(LC 5)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-362/65, 3-4=-1554/171, 4-5=-1452/172, 5-6=-1554/166, 6-7=-362/59
 BOT CHORD 3-11=-109/1446, 10-11=-105/1452, 6-10=-103/1446

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 93 lb uplift at joint 2 and 93 lb uplift at joint 7.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



October 18, 2019

Job	Truss	Truss Type	<div style="text-align: center;"> RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI </div>		Ply	Lot 62 MN	I38965454
400279	A3	Hip	<div style="text-align: center;"> 06/02/2020 </div>		1	Job Reference (optional)	8.240 s Jul 27 2019 MiTek Industries, Inc. Fri Oct 18 14:41:51 2019 Page 1
Wheeler Lumber, Waverly, KS 66871			ID:0wpcF2OVQmpO8KfthvbxsjzTP7M-8YixL0JFIIZlcbqctO1JZWzLwMSCzPt?v1wWRpyS8w_				
-0-10-8 0-10-8		2-0-0 2-0-0	7-6-8 5-6-8	8-5-8 0-11-0	14-0-0 5-6-8	15-8-0 1-8-0	

Scale = 1:27.8

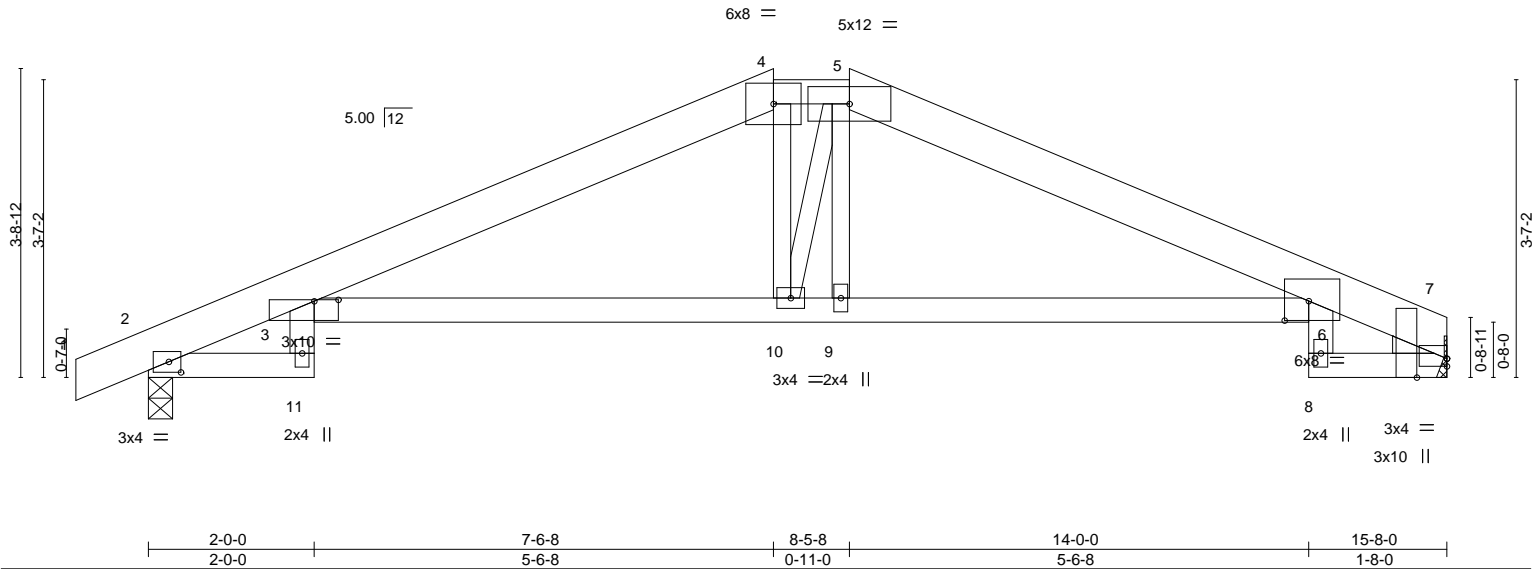
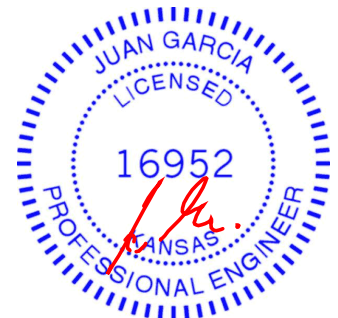


Plate Offsets (X,Y)--		[2:0-1-12,0-1-8], [3:0-3-8,0-0-3], [6:0-3-8,0-2-13], [7:0-0-0,0-1-2], [7:0-2-12,Edge]										
LOADING (psf)		SPACING-2-0-0		CSI.		DEFL. in (loc) l/defl L/d				PLATES GRIP		
TCLL	25.0	Plate Grip DOL	1.15	TC	0.89	Vert(LL)	-0.20	3-10	>915	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.61	Vert(CT)	-0.38	3-10	>485	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.09	Horz(CT)	0.33	7	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-S		Wind(LL)	0.15	3-10	>999	240	Weight: 58 lb	FT = 10%

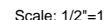
LUMBER-	BRACING-	
TOP CHORD	TOP CHORD	Structural wood sheathing directly applied or 2-2-0 oc purlins, except 2-0-0 oc purlins (4-9-4 max.): 4-5.
4-5: 2x4 SPF No.2		
BOT CHORD	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
2x4 SPF No.2		
WEBS		
3-11,6-8: 2x4 SPF No.2		
WEDGE		
Right: 2x3 SPF No.2		
REACTIONS.		
(lb/size)	2=769/0-3-8, 7=693/Mechanical	
Max Horz	2=65(LC 8)	
Max Uplift	2=-111(LC 8), 7=-84(LC 9)	

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	2-3=-354/81, 3-4=-1225/110, 4-5=-1133/142, 5-6=-1212/108, 6-7=-397/64
BOT CHORD	3-10=-72/1134, 9-10=-38/1121, 6-9=-41/1121
WEBS	5-10=-190/256

- 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 111 lb uplift at joint 2 and 84 lb uplift at joint 7.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



October 18,2019



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

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

TOP CHORD	2-3=-766/156, 3-4=-496/73
BOT CHORD	2-7=-178/652
WEBS	3-7=-303/177, 4-7=-16/320, 4-6=-426/78

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 93 lb uplift at joint 2 and 61 lb uplift at joint 6.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



October 18, 2019

RELEASE FOR
 CONSTRUCTION
 AS NOTED ON PLANS REVIEW
 DEVELOPMENT SERVICES
 LEE'S SUMMIT, MISSOURI
 06/02/2020

Job 400279	Truss B1	Truss Type Common Supported Gable	Ply 1	Lot 62 MN Job Reference (optional)
Wheeler Lumber, Waverly, KS 66871		8.240 s Jul 14 2019 MiTek Industries, Inc. Fri Oct 18 10:30:41 2019 Page 1 ID: eIVztmttrvqeWtykiiM9UhzAKds-XOGD7LvqmMnPCqllIO4P6K3qAqZDT2kxqZRO4VHySCbS		

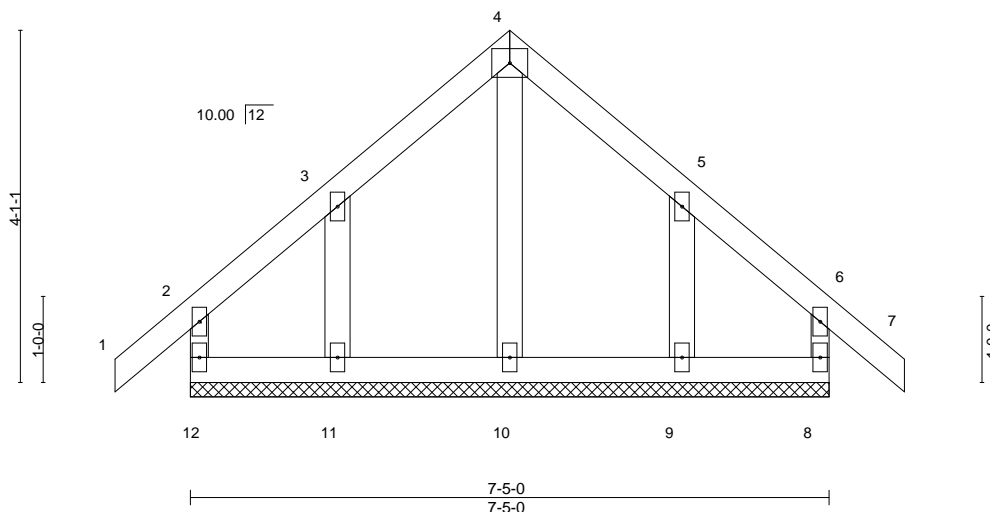
-0-10-8
0-10-8

3-8-8
3-8-8

7-5-0
3-8-8

8-3-8
0-10-8

Scale = 1:26.8



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 0.07	Vert(LL)	-0.00	7	n/r	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.04	Vert(CT)	-0.00	7	n/r		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.04	Horz(CT)	-0.00	8	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-R						
								Weight: 32 lb	FT = 10%

LUMBER-

TOP CHORD 2x4 SPF No.2
 BOT CHORD 2x4 SPF No.2
 WEBS 2x3 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.
 BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS.

All bearings 7-5-0.
 (lb) - Max Horz 12=-128(LC 6)
 Max Uplift All uplift 100 lb or less at joint(s) 12, 8 except 11=-105(LC 8), 9=-103(LC 9)
 Max Grav All reactions 250 lb or less at joint(s) 12, 8, 10, 11, 9

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
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- All plates are 2x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 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) 12, 8 except (jt=lb) 11=105, 9=103.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



October 18,2019

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	Truss	Truss Type	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI			Lot 62 MN	I38965457
400279	B2	Common				Job Reference (optional)	
Wheeler Lumber,		Waverly, KS 66871		8.240 s Jul 14 2019 MiTek Industries, Inc. Fri Oct 18 10:30:43 2019 Page 1 ID:elVzmttrvqeWtykiiM9UhzAKds-TmOzY1x5I_17r8v8WVRaPUvTAMt8WeQ71ItBZAySCbQ			
				3-4-8 06/02/2020 7-1-0 7-11-8 3-4-8 3-8-8 0-10-8			

Scale = 1:27.7

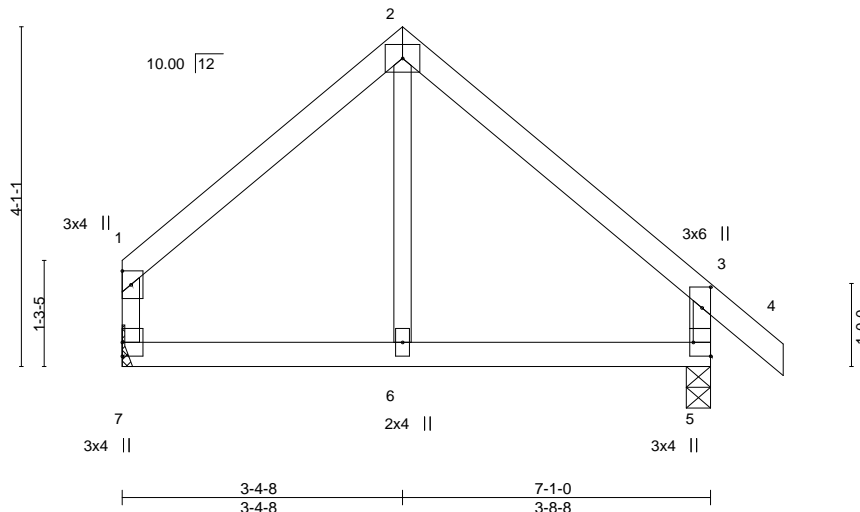


Plate Offsets (X,Y)--		[3:0-3-0,0-1-4], [5:Edge,0-2-8]			
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL 1.15	TC 0.27	Vert(LL) -0.01 6 >999 360	MT20	197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.15	Vert(CT) -0.03 6 >999 240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.04	Horz(CT) 0.00 5 n/a n/a		
BCDL 10.0	Code IRC2018/TPI2014	Matrix-R	Wind(LL) 0.01 5-6 >999 240	Weight: 24 lb	FT = 10%

LUMBER-

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

BRACING-

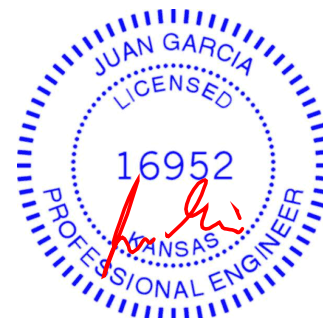
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 7=304/Mechanical, 5=383/0-3-8
 Max Horz 7=-125(LC 4)
 Max Uplift 7=-30(LC 9), 5=-51(LC 9)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-2=-261/70, 2-3=-272/67, 3-5=-329/83

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) 7, 5.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



October 18,2019

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	Truss	Truss Type	<div>RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI 06/02/2020</div>		Ply	Lot 62 MN
400279	C1	Common Supported Gable	1	1		I38965458
Wheeler Lumber, Waverly, KS 66871		Job Reference (optional)				
-0-10-8 0-10-8		8-8-0 8-8-0	8.240 s Jul 14 2019 MiTek Industries, Inc. Fri Oct 18 10:30:45 2019 Page 1 ID:elVzmttrvqeWtykiiM9UhZAKds-P9VkiyLqbHr4R3XdwU2Uv_rcAan_UTQU3MHe3ySCbO			
			17-4-0 8-8-0	18-2-8 0-10-8		
4x5 =						
Scale = 1:46.5						

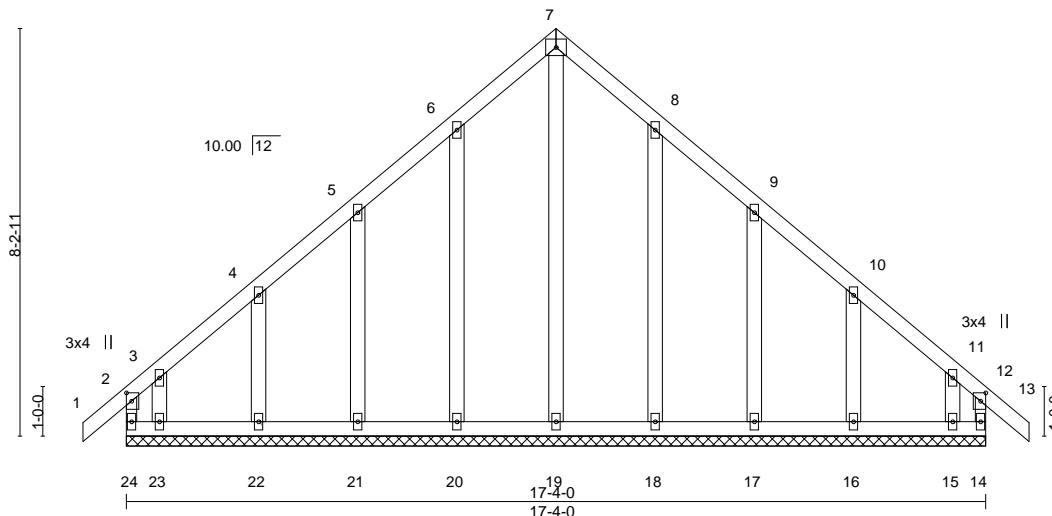


Plate Offsets (X,Y)--		[2:0-2-0,0-1-4], [12:0-2-0,0-1-4]			
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL 1.15	TC 0.15	Vert(LL) -0.00 13 n/r 120	MT20	197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.08	Vert(CT) -0.00 13 n/r 120		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.26	Horz(CT) 0.00 14 n/a n/a		
BCDL 10.0	Code IRC2018/TPI2014	Matrix-R			
				Weight: 90 lb	FT = 10%

LUMBER-

TOP CHORD 2x4 SPF No.2
 BOT CHORD 2x4 SPF No.2
 WEBS 2x3 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.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

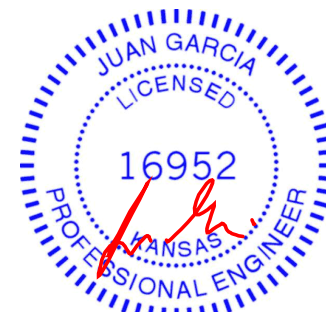
REACTIONS.

- All bearings 17-4-0.
 (lb) - Max Horz 24=-236(LC 6)
 Max Uplift All uplift 100 lb or less at joint(s) 20, 21, 22, 18, 17, 16 except 24=-221(LC 4), 14=-172(LC 5), 23=-218(LC 8), 15=-202(LC 9)
 Max Grav All reactions 250 lb or less at joint(s) 14, 20, 21, 22, 18, 17, 16, 15 except 24=269(LC 5), 19=263(LC 9), 23=259(LC 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
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- All plates are 2x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 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) 20, 21, 22, 18, 17, 16 except (jt=lb) 24=221, 14=172, 23=218, 15=202.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



October 18,2019

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
400279

Truss
C2

Truss Type
Common

Wheeler Lumber,
Waverly, KS 66871

**RELEASE FOR
CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI**

06/02/2020

Ply
1

Lot 62 MN
I38965459

Job Reference (optional)

8.240 s Jul 14 2019 MiTek Industries, Inc. Fri Oct 18 10:30:46 2019 Page 1
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-0-10-8
0-10-8

3-7-5
3-7-5

8-8-0
5-0-11

13-8-11
5-0-11

17-4-0
3-7-5

4x5 =

Scale = 1:50.8

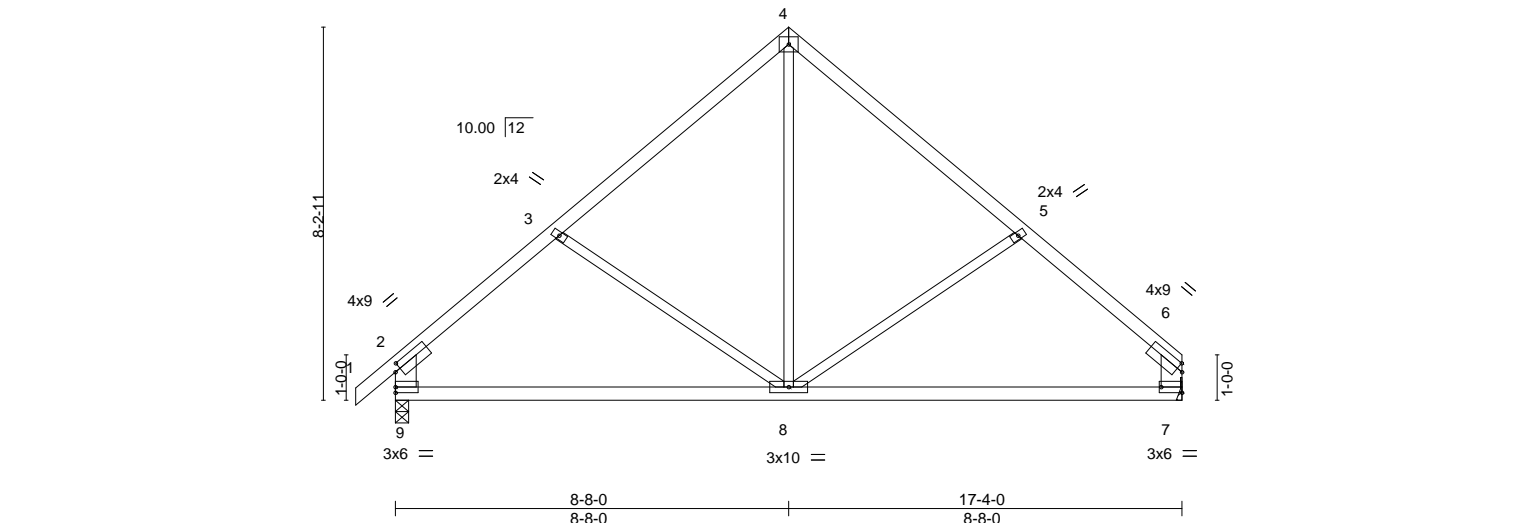
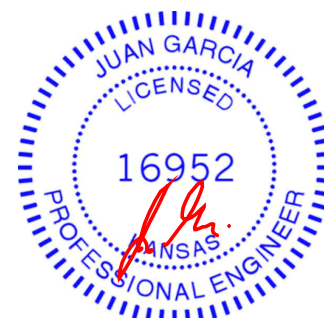


Plate Offsets (X,Y)--		[2:0-1-9,0-1-12], [6:0-1-9,0-1-12], [7:Edge,0-1-8]	
LOADING (psf)	SPACING-	CSI.	DEFL.
TCLL 25.0	Plate Grip DOL 1.15	TC 0.63	in (loc) l/defl L/d
TCDL 10.0	Lumber DOL 1.15	BC 0.52	Vert(LL) -0.10 8-9 >999 360
BCLL 0.0 *	Rep Stress Incr YES	WB 0.20	Vert(CT) -0.21 8-9 >967 240
BCDL 10.0	Code IRC2018/TPI2014	Matrix-S	Horz(CT) 0.02 7 n/a n/a
			Wind(LL) 0.05 8 >999 240
			PLATES GRIP
			MT20 197/144
			Weight: 66 lb FT = 10%

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied or 4-11-7 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 *Except* 2-9,6-7: 2x6 SPF No.2	
REACTIONS. (lb/size) 9=839/0-3-8, 7=757/Mechanical	
Max Horz 9=232(LC 5)	
Max Uplift 9=99(LC 8), 7=73(LC 9)	

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.	
TOP CHORD 2-3=-847/136, 3-4=-639/154, 4-5=-639/154, 5-6=-852/136, 2-9=-745/140, 6-7=-658/113	
BOT CHORD 8-9=-149/612, 7-8=-56/560	
WEBS 4-8=-45/394	

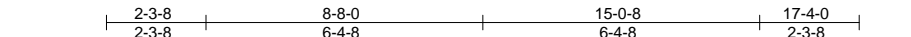
- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; 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) 9, 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.



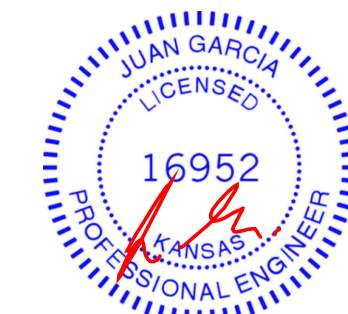
October 18,2019

$\Delta x E =$

Scale = 1:53.1



- 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) All plates are MT20 plates unless otherwise indicated.
- 4) The Fabrication Tolerance at joint 6 = 6%, joint 2 = 6%, joint 6 = 6%, joint 13 = 6%
- 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 100 lb uplift at joint(s) 13.
- 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.

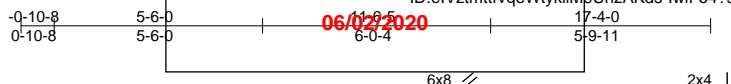


16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI			Lot 62 MN
400279	C5	Half Hip				I38965462

Wheeler Lumber, Waverly, KS 66871

8.240 s Jul 14 2019 MiTek Industries, Inc. Fri Oct 18 10:30:49 2019 Page 1
ID:elVzmttrvqeWtykiIM9UhzAKds-lwlFo4?supnHZ3MismY_el9PYnrDwCV?PhKVnqySCbK



Scale = 1:60.8

Plate Offsets (X,Y)--		[2:0-1-9,0-1-12], [4:0-4-8,0-1-8]	
LOADING (psf)	SPACING-	CSI.	DEFL.
TCLL 25.0	Plate Grip DOL 1.15	TC 0.60	in (loc) l/defl L/d
TCDL 10.0	Lumber DOL 1.15	BC 0.49	Vert(LL) -0.07 7-8 >999 360
BCLL 0.0 *	Rep Stress Incr YES	WB 0.70	Vert(CT) -0.13 7-8 >999 240
BCDL 10.0	Code IRC2018/TPI2014	Matrix-S	Horz(CT) 0.01 6 n/a n/a
			Wind(LL) 0.01 8-9 >999 240
			PLATES GRIP
			MT20 197/144
			Weight: 92 lb FT = 10%

LUMBER-

TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF No.2 *Except*
3-8,3-7: 2x3 SPF No.2, 2-9: 2x6 SPF No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 5-3-4 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.
WEBS 1 Row at midpt 5-6, 4-6

REACTIONS. (lb/size) 6=761/Mechanical, 9=843/0-3-8
Max Horz 9=406(LC 8)
Max Uplift 6=186(LC 8), 9=25(LC 8)
Max Grav 6=822(LC 2), 9=897(LC 15)

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

TOP CHORD 2-3=-891/4, 3-4=-527/39, 2-9=-777/68
BOT CHORD 8-9=-303/675, 7-8=-303/675, 6-7=-104/346
WEBS 3-7=-442/262, 4-7=-86/567, 4-6=-708/216

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 exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Provide adequate drainage to prevent water ponding.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 5) 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) 9 except (jt=lb) 6=186.
- 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.



October 18,2019

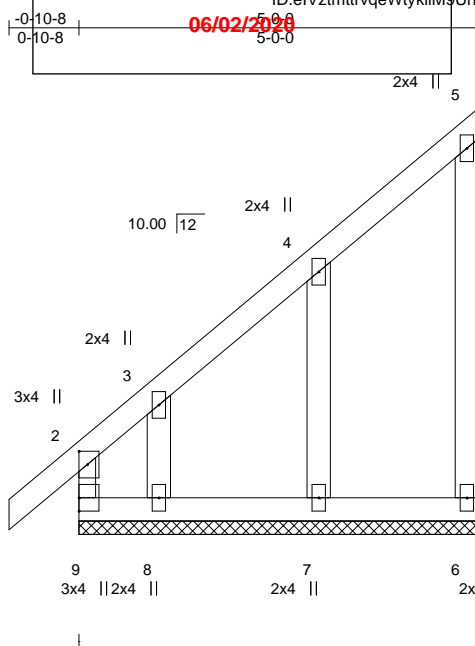
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Monopitch Supported Gable	Ply	Lot 62 MN
400279	C6			1	I38965463
Wheeler Lumber, Waverly, KS 66871					



Scale = 1:28.8

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	0.15	Vert(LL)	0.00	2	n/r	120	MT20 197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.07	Vert(CT)	0.00	2	n/r	120	
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.03	Horz(CT)	-0.00	6	n/a	n/a	
BCDL	10.0	Code IRC2018/TPI2014		Matrix-R							Weight: 25 lb FT = 10%

LUMBER-

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

BRACING-

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

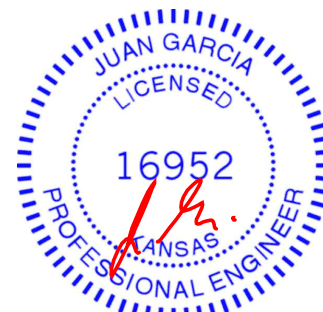
REACTIONS.

All bearings 5'-0'-0".
 (lb) - Max Horz 9=200(LC 5)
 Max Uplift All uplift 100 lb or less at joint(s) 6, 7 except 9=105(LC 4), 8=185(LC 8)
 Max Grav All reactions 250 lb or less at joint(s) 9, 6, 7, 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) 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" 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" tall by 2'-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) 6, 7 except (jt=lb) 9=105, 8=185.
- 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.



October 18,2019

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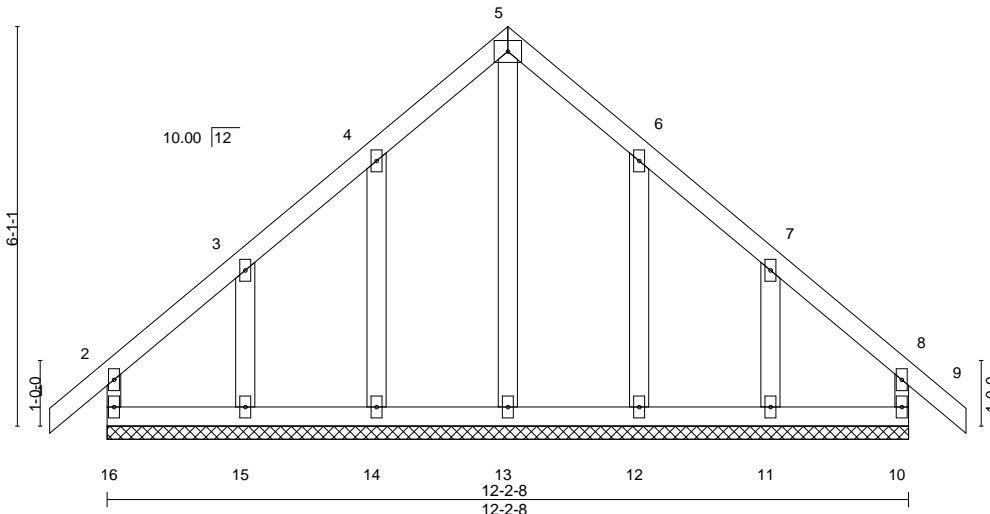


16023 Swingley Ridge Rd
 Chesterfield, MO 63017

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI

Job 400279	Truss D1	Truss Type Common Supported Gable	Ply 1	Lot 62 MN Job Reference (optional)
Wheeler Lumber, Waverly, KS 66871		8.240 s Jul 14 2019 MiTek Industries, Inc. Fri Oct 18 10:30:50 2019 Page 1 ID:elVzmttrvqeWtykiIM9UhzAKds-m6Jd0Q0Uf7v8BCxUQT3DByhiABIFfoA9eL42JGySCbJ		

Scale = 1:35.1



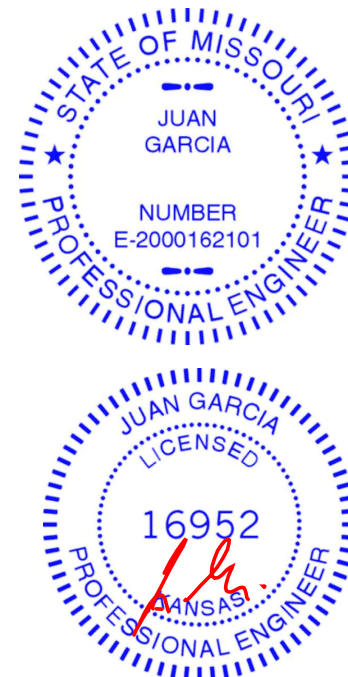
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.09	Vert(LL)	-0.00	9	n/r	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.06	Vert(CT)	-0.00	9	n/r		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.10	Horz(CT)	0.00	10	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-R					Weight: 56 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	
OTHERS 2x4 SPF No.2	

REACTIONS. All bearings 12-2-8.
 (lb) - Max Horz 16=181(LC 7)
 Max Uplift All uplift 100 lb or less at joint(s) 16, 10, 14, 12 except 15=-129(LC 8), 11=-127(LC 9)
 Max Grav All reactions 250 lb or less at joint(s) 16, 10, 13, 14, 15, 12, 11

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; 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
 - Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - All plates are 2x4 MT20 unless otherwise indicated.
 - Gable requires continuous bottom chord bearing.
 - Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
 - Gable studs spaced at 2-0-0 oc.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 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) 16, 10, 14, 12 except (jt=lb) 15=129, 11=127.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



October 18,2019

Job

400279

Truss

D2

Truss Type

Roof Special

RELEASE FOR

CONSTRUCTION

AS NOTED ON PLANS REVIEW

DEVELOPMENT SERVICES

LEE'S SUMMIT, MISSOURI

06/02/2020

Ply

1

Lot 62 MN

I38965465

Wheeler Lumber,

Waverly, KS 66871

8,240 sq ft

Jul 14 2019

MiTek Industries, Inc.

Fri Oct 18 10:30:51 2019

Page 1

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1-2-6

5-9-12

10-5-2

11-11-0

1-2-6

4-7-6

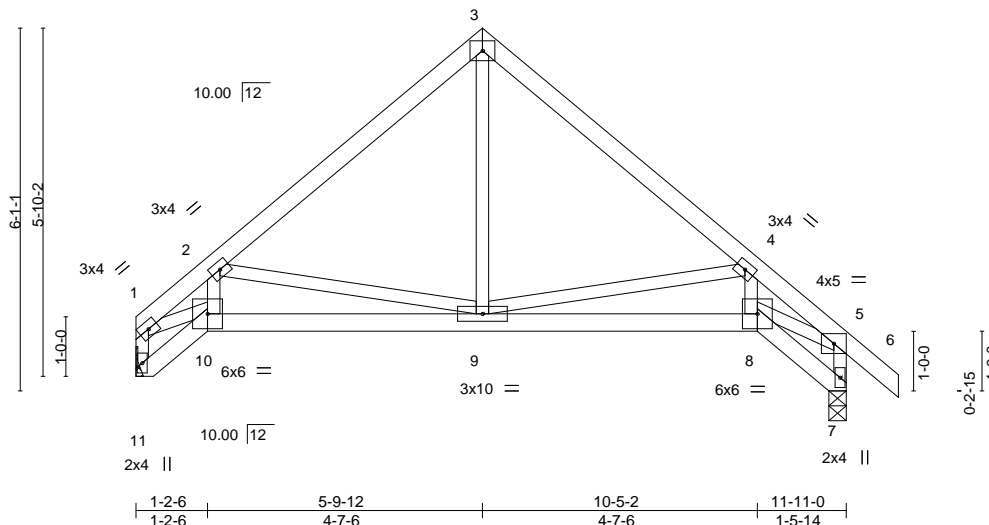
4-7-6

1-5-14

0-10-8

4x5 =

Scale = 1:38.7



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 0.25	Vert(LL)	-0.02	8-9	>999	360	MT20	197/144
BCDL 10.0	Lumber DOL	1.15	BC 0.26	Vert(CT)	-0.04	8-9	>999	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.27	Horz(CT)	0.05	7	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-S	Wind(LL)	0.01	9-10	>999	240		
									Weight: 49 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 5-8-15 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (lb/size) 11=524/Mechanical, 7=598/0-3-8
 Max Horz 11=-177(LC 4)
 Max Uplift 11=-49(LC 8), 7=-74(LC 9)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-11=-528/67, 1-2=-899/166, 2-3=-557/86, 3-4=-555/102, 4-5=-998/112, 5-7=-563/62
 BOT CHORD 9-10=-194/811, 8-9=-72/742
 WEBS 1-10=-160/713, 2-9=-438/237, 3-9=-1/306, 4-9=-417/200, 5-8=-84/789

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.
- Bearing at joint(s) 7 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 11, 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.



October 18,2019

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16023 Swingley Ridge Rd
 Chesterfield, MO 63017

Job
400279

Truss
D3

Truss Type
Roof Special

Wheeler Lumber,
Waverly, KS 66871

**RELEASE FOR
CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI**

06/02/2020

Ply
1

Lot 62 MN
I38965466

Job Reference (optional)
8.240 s Jul 14 2019 MiTek Industries, Inc. Fri Oct 18 10:30:52 2019 Page 1
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1-2-6
1-2-6

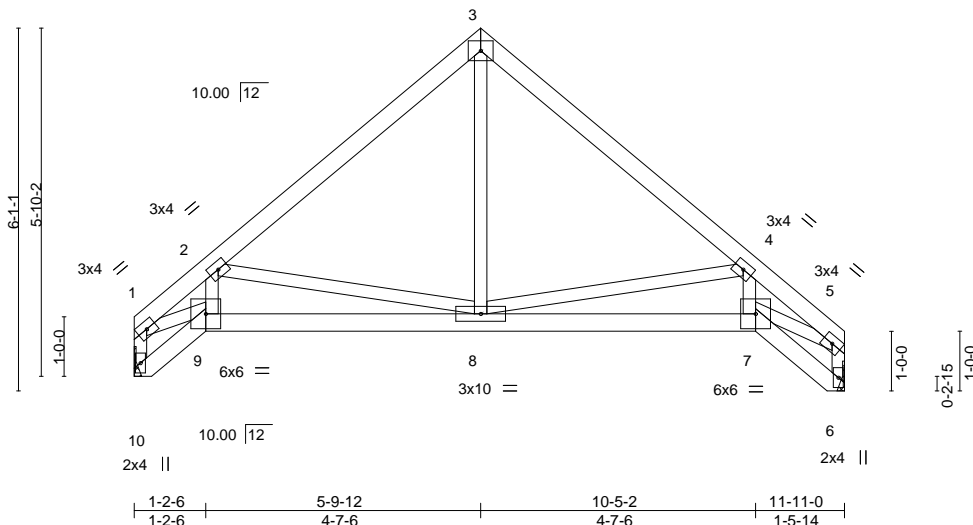
5-9-12
4-7-6

10-5-2
4-7-6

11-11-0
1-5-14

4x5 =

Scale = 1:38.7



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 0.25	Vert(LL)	-0.02	7-8	>999	360	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.27	Vert(CT)	-0.04	7-8	>999	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.28	Horz(CT)	0.05	6	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-S	Wind(LL)	0.01	7-8	>999	240	Weight: 48 lb	FT = 10%

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied or 5-7-11 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) 10=527/Mechanical, 6=527/Mechanical
Max Horz 10=-130(LC 4)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-10=-508/11, 1-2=-864/59, 2-3=-561/37, 3-4=-560/43, 4-5=-1030/30, 5-6=-502/0
BOT CHORD 8-9=-137/753, 7-8=-32/773
WEBS 1-9=-63/686, 2-8=-404/148, 3-8=0/308, 4-8=-435/123, 5-7=-31/805

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

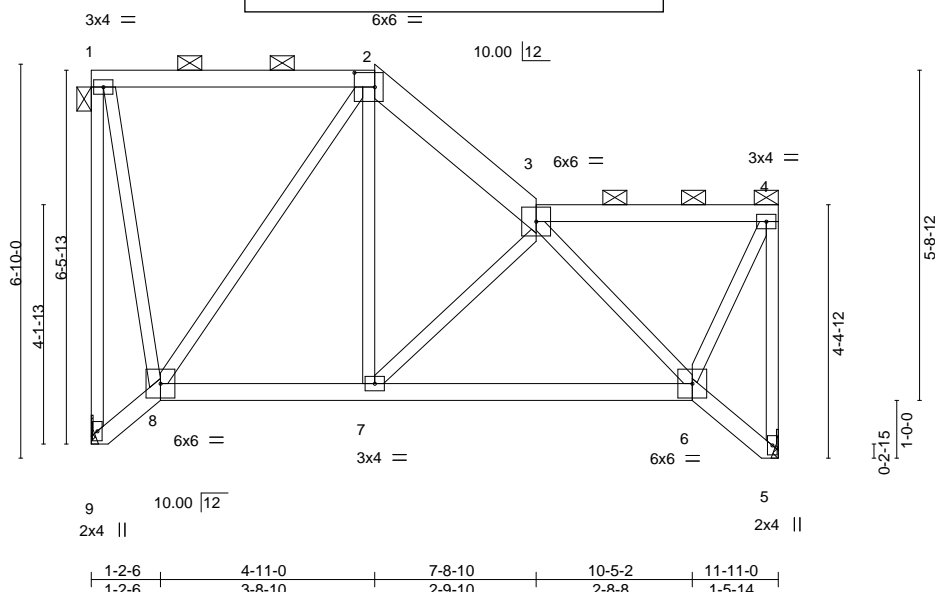


October 18,2019

Job	Truss	Truss Type	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI ID: eIVztmttrvqeWtykiiM9UhzAKds-iVQNR62kBk9rQW5tYu6hGNnyt?wo7deS5fZ9O9ySCbH			Lot 62 MN	I38965467
400279	D4	Roof Special				Job Reference (optional)	

Wheeler Lumber, Waverly, KS 66871

1-2-6 4-11-0 7-8-10 10-5-2 11-11-0
1-2-6 3-8-10 2-9-10 2-8-8 1-5-14



Scale = 1:40.0

Plate Offsets (X,Y)-- [2:0-4-4,0-3-0]															
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 0.46		Vert(LL)		-0.03 6-7 >999 360		MT20		197/144	
TCDL	10.0	Lumber DOL		1.15		BC 0.24		Vert(CT)		-0.07 6-7 >999 240					
BCLL	0.0 *	Rep Stress Incr		YES		WB 0.42		Horz(CT)		0.03 5 n/a n/a					
BCDL	10.0	Code IRC2018/TPI2014				Matrix-S		Wind(LL)		0.01 7 >999 240		Weight: 63 lb		FT = 10%	

LUMBER-

TOP CHORD 2x4 SPF No.2 *Except*
2-3: 2x6 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.): 1-2, 3-4.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 8-9.

REACTIONS. (lb/size) 9=527/Mechanical, 5=527/Mechanical
Max Horz 9=-201(LC 4)
Max Uplift 9=-61(LC 4), 5=-22(LC 5)

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

TOP CHORD 1-9=-503/73, 2-3=-440/31, 4-5=-525/32
BOT CHORD 7-8=-69/303, 6-7=-65/457
WEBS 1-8=-30/357, 2-8=-402/68, 2-7=0/303, 3-6=-417/53, 4-6=-4/429

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); 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, 5.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



October 18,2019

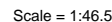
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16023 Swingley Ridge Rd
Chesterfield, MO 63017

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LUMBER-		BRACING-	
TOP CHORD	2x4 SPF No.2 *Except* 2-3: 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 (6-0-0 max.): 1-2, 3-4.
BOT CHORD	2x4 SPF No.2	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
WEBS	2x3 SPF No.2		6-0-0 oc bracing: 8-9.

REACTIONS.	(lb/size) 9=527/Mechanical, 5=527/Mechanical Max Horz 9=-239(LC 4) Max Uplift 9=-74(LC 4), 5=-53(LC 5)	WEBS	1 Row at midpt	1-9
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FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	1-9=-489/86, 2-3=-350/66, 4-5=-537/57
BOT CHORD	8-9=-259/264, 7-8=-104/252, 6-7=-112/377
WEBS	1-8=-44/390, 2-8=-454/60, 2-7=0/408, 3-7=-311/71, 3-6=-349/98, 4-6=-18/374

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) 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) 9, 5.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



October 18, 2019

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
 ID:elVzmttrvqeWtykiiM9UhZAKds-euY8rn3_jMPZfqFFfJ89LosHAoX9bQlkYy2GS1ySCbF

Job 400279	Truss D6	Truss Type ROOF SPECIAL GIRDER	Ply 2	Lot 62 MN 138965469
Wheeler Lumber, Waverly, KS 66871		Job Reference (optional) 8,240 s Jul 14 2019 MiTek Industries, Inc. Fri Oct 18 10:30:54 2019 Page 1 M9UhZAKds-euY8rn3_jMPZfqFFfJ89LosHAoX9bQlkYy2GS1ySCbF		

Scale = 1:56.6



Plate Offsets (X,Y)--		[2:0-9-13,Edge]							
LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in (loc)	L/defl	L/d
TCLL	25.0	Plate Grip DOL	1.15	TC	0.54	Vert(LL)	-0.13	5-6	>999
TCDL	10.0	Lumber DOL	1.15	BC	0.57	Vert(CT)	-0.23	5-6	>613
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.83	Horz(CT)	0.00	5	n/a
BCDL	10.0	Code IRC2018/TPI2014		Matrix-S		Wind(LL)	0.08	5-6	>999
						PLATES		GRIP	
						MT20		197/144	
						Weight: 200 lb		FT = 10%	

LUMBER-

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

BOT CHORD 2x6 SP 2400F 2.0E

WEBS 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.): 1-2, 3-4.

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

WEBS 1 Row at midpt 1-7

REACTIONS. (lb/size) 7=3010/Mechanical, 5=2927/Mechanical

Max Horz 7=-347(LC 23)

Max Uplift 7=-438(LC 4), 5=-485(LC 5)

Max Grav 7=3144(LC 2), 5=2955(LC 2)

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

TOP CHORD 2-3=-2430/359, 3-4=-1774/243, 4-5=-1819/362

BOT CHORD 6-7=-266/576

WEBS 2-7=-2708/438, 2-6=-534/4294, 3-6=-1851/394, 4-6=-388/2353

- 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.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - 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) 7=438, 5=485.



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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.

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	<div> <div>RELEASE FOR CONSTRUCTION</div> <div>AS NOTED ON PLANS REVIEW</div> <div>DEVELOPMENT SERVICES</div> <div>LEE'S SUMMIT, MISSOURI</div> <div>06/02/2020</div> </div>		Ply	Lot 62 MN
400279	D6	ROOF SPECIAL GIRDER			2	I38965469

Wheeler Lumber, Waverly, KS 66871

8.240 s

Jul 14 2019 MiTek Industries, Inc. Fri Oct 18 10:30:54 2019 Page 2

ID:elVzmttrvqeWtykiiM9UhZAKds-euY8rn3_jMPZfqFFfJ89LosHAoX9bQIkYy2GS1ySCbF

- NOTES-**
- 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.
 - 11) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1081 lb down and 77 lb up at 1-11-12, 1084 lb down and 232 lb up at 3-11-12, 974 lb down and 63 lb up at 5-11-12, and 1004 lb down and 63 lb up at 7-11-12, and 937 lb down and 196 lb up at 9-11-12 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, 2-3=-70, 3-4=-70, 5-7=-20
 - Concentrated Loads (lb)
 - Vert: 9=-1028(B) 11=-1048(B) 12=-940(B) 13=-938(B) 15=-937(B)


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

Scale = 1:33.9

TECHNICAL

UNIVERSITY OF CALIFORNIA, BERKELEY

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

- Figure 10. The effect of the initial concentration of the monomer on the polymerization of *l*-lysine. The reaction conditions were: $[M]_0 = 0.05$ mol/L, $[K_2S_2O_8]_0 = 0.005$ mol/L, $[H_2O]_0 = 0.05$ mol/L, $T = 50^\circ\text{C}$, $t = 120$ min.



WARNING: FLAMMABLE See Supplemental Notes on this and included with reference page 511-512. 10/20/2015 BEFORE USE



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job 400279	Truss E2	Truss Type Half Hip	<div style="text-align: center;"> RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI 06/02/2020 </div>		Ply 1 Lot 62 MN 138965471 Job Reference (optional)
Wheeler Lumber, Waverly, KS 66871			8.240 s ID:elVzmttrvqeWtykiiM9UhzAKds-aGguGT5FEzgHv7OenkAdRDxbEcDm3OQ10GXNXwySCbD 11-6-13 4-8-13		

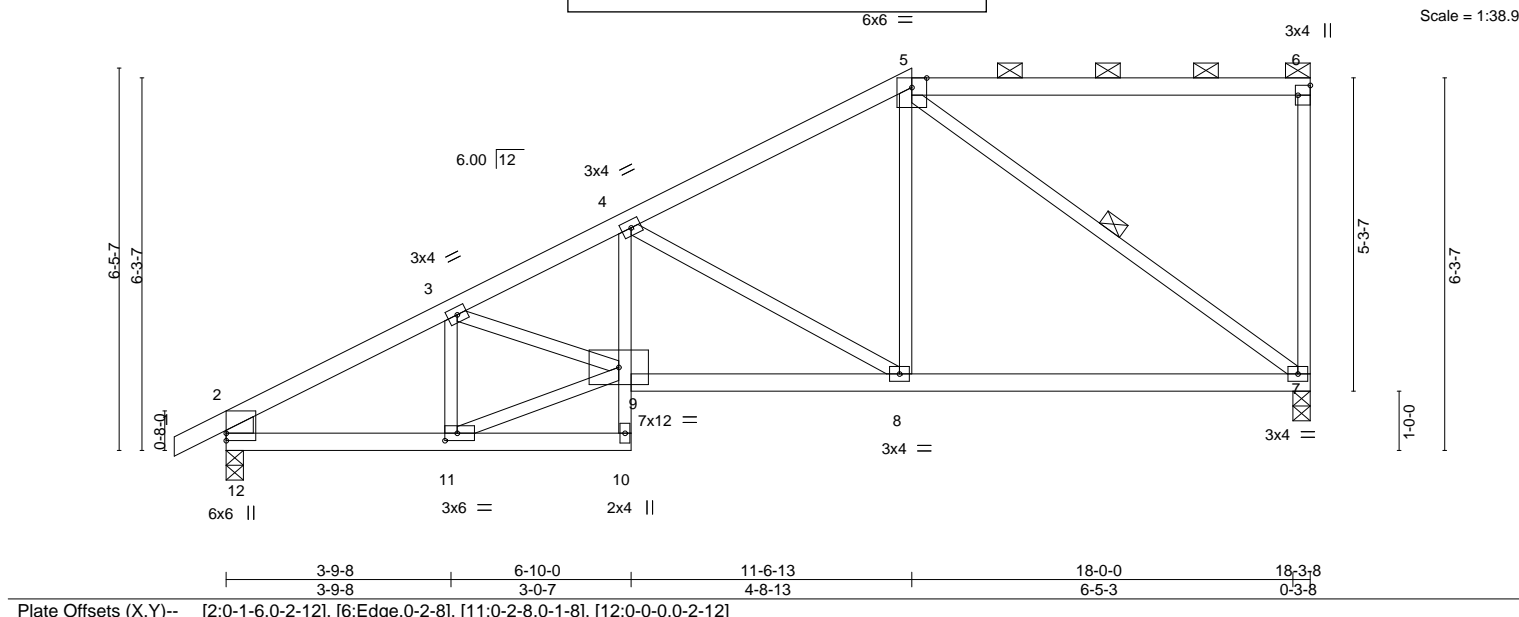


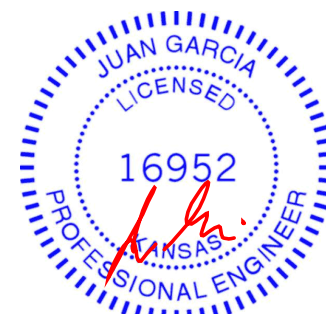
Plate Offsets (X,Y)--		[2:0-1-6,0-2-12], [6:Edge,0-2-8], [11:0-2-8,0-1-8], [12:0-0-0,0-2-12]	
LOADING (psf)	SPACING-	2-0-0	CSI.
TCLL 25.0	Plate Grip DOL 1.15		TC 0.70
TCDL 10.0	Lumber DOL 1.15		BC 0.56
BCLL 0.0 *	Rep Stress Incr YES		WB 0.56
BCDL 10.0	Code IRC2018/TPI2014		Matrix-S
DEFL.	PLATES	GRIP	
in (loc) l/defl L/d	MT20	197/144	
Vert(LL) -0.07 7-8 >999 360			
Vert(CT) -0.15 7-8 >999 240			
Horz(CT) 0.04 7 n/a n/a			
Wind(LL) 0.05 10 >999 240			
	Weight: 73 lb	FT = 10%	

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied or 4-5-2 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 5-6.
BOT CHORD 2x4 SPF No.2 *Except* 4-10: 2x3 SPF No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x3 SPF No.2 *Except* 2-12: 2x6 SP DSS	WEBS 1 Row at midpt 5-7

REACTIONS.	(lb/size) 7=806/0-3-8, 12=888/0-3-8
	Max Horz 12=241(LC 5)
	Max Uplift 7=-135(LC 5), 12=-134(LC 8)

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	2-3=-1172/155, 3-4=-1506/258, 4-5=-865/134, 2-12=-788/150
BOT CHORD	11-12=-217/955, 4-9=-48/366, 8-9=-260/1346, 7-8=-147/706
WEBS	3-11=-395/134, 9-11=-220/976, 3-9=-52/405, 4-8=-725/238, 5-8=-30/478, 5-7=-866/128

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) 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 (it=lb) 7=135, 12=134.
 - This truss 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.



October 18,2019

Job		Truss	Truss Type	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI			Ply	Lot 62 MN	I38965472
400279		E3	Half Hip	1			1	Job Reference (optional)	
Wheeler Lumber,		Waverly, KS 66871		8,240 s			Jul 14 2019 MiTek Industries, Inc. Fri Oct 18 10:30:57 2019 Page 1		
0-10-8		3-9-8	6-10-0	11-9-9			14-10-13	18-3-8	
0-10-8		3-9-8	3-0-7	4-11-9			3-1-4	3-4-11	

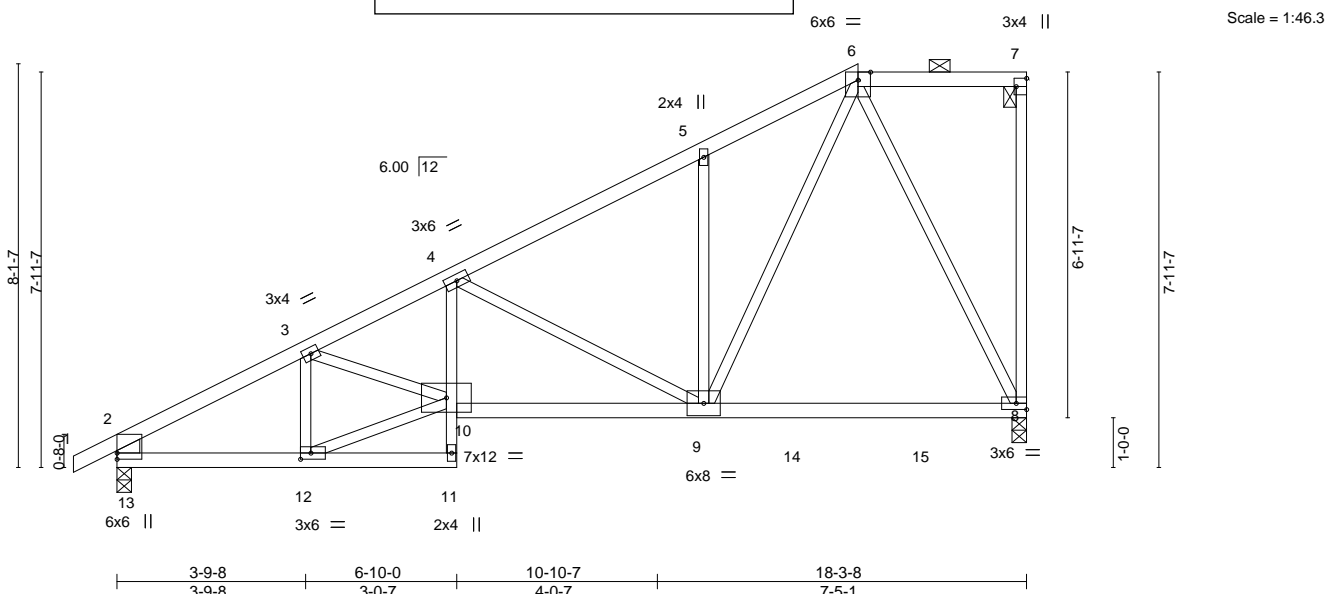


Plate Offsets (X,Y)-- [2:0-1-6,0-2-12], [7:Edge,0-2-8], [12:0-2-8,0-1-8], [13:0-0-0,0-2-12]									
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d		PLATES GRIP	
TCLL	25.0	Plate Grip DOL	1.15	TC	0.70	Vert(LL)	-0.10 8-9 >999 360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.61	Vert(CT)	-0.16 8-9 >999 240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	1.00	Horz(CT)	0.04 8 n/a n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-S		Wind(LL)	0.06 11 >999 240	Weight: 80 lb	FT = 10%

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied or 3-11-15 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 6-7.
BOT CHORD 2x4 SPF No.2 *Except* 4-11: 2x3 SPF No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x3 SPF No.2 *Except* 2-13: 2x6 SP DSS	

REACTIONS.	(lb/size) 8=806/0-3-8, 13=888/0-3-8 Max Horz 13=310(LC 5) Max Uplift 8=133(LC 8), 13=137(LC 8) Max Grav 8=860(LC 2), 13=903(LC 2)
-------------------	--

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	2-3=-1209/160, 3-4=-1562/282, 4-5=-862/148, 5-6=-834/239, 2-13=-789/152
BOT CHORD	12-13=-256/1016, 4-10=-53/429, 9-10=-316/1430, 8-9=-112/344
WEBS	3-12=-393/149, 10-12=-257/1042, 3-10=-58/425, 4-9=-795/246, 5-9=-290/176, 6-9=-229/915, 6-8=-736/155

- 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, with BCDL = 10.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 8=133, 13=137.
 - This truss 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.



October 18,2019

Job		Truss	Truss Type	<div>RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI</div>		Lot 62 MN	I38965473
400279		E4	Monopitch	1		Job Reference (optional)	
Wheeler Lumber, Waverly, KS 66871				8.240 s Jul 14 2019 MiTek Industries, Inc. Fri Oct 18 10:30:58 2019 Page 1			
				ID:elVzmttrvqeWtykiiM9UhzAKds-Xfoeh96Vmaw?8RY1u9D5We1yNPuAXHUKTa0UboySCbB			
-0-10-8		3-9-8	6-10-0	11-9-8		18-3-8	
0-10-8		3-9-8	3-0-7	4-11-8		6-6-0	
				06/02/2020			

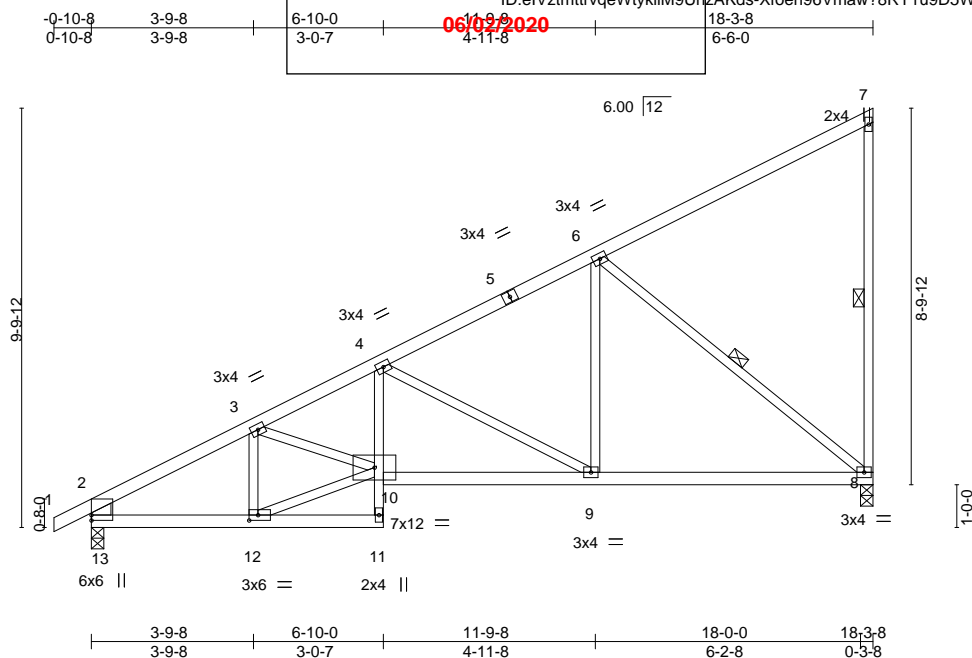


Plate Offsets (X,Y)--		[2:0-1-6,0-2-12], [12:0-2-8,0-1-8], [13:0-0-0,0-2-12]	
LOADING (psf)	SPACING-	CSI.	DEFL.
TCLL 25.0	Plate Grip DOL 1.15	TC 0.59	in (loc) l/defl L/d
TCDL 10.0	Lumber DOL 1.15	BC 0.57	Vert(LL) -0.07 10 >999 360
BCLL 0.0 *	Rep Stress Incr YES	WB 0.59	Vert(CT) -0.13 9-10 >999 240
BCDL 10.0	Code IRC2018/TPI2014	Matrix-S	Horz(CT) 0.04 8 n/a n/a
			Wind(LL) 0.06 10 >999 240
		Weight: 77 lb FT = 10%	

LUMBER-

TOP CHORD 2x4 SPF No.2
 BOT CHORD 2x4 SPF No.2 *Except*
 4-11: 2x3 SPF No.2
 WEBS 2x3 SPF No.2 *Except*
 2-13: 2x6 SP DSS

BRACING-

TOP CHORD Structural wood sheathing directly applied or 4-5-2 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 8-9-4 oc bracing.
 WEBS 1 Row at midpt 7-8, 6-8

REACTIONS.

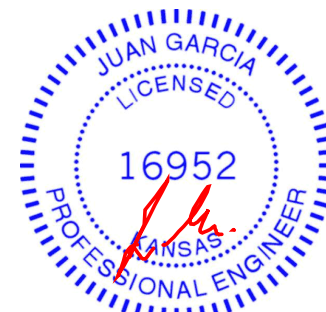
(lb/size) 8=806/0-3-8, 13=888/0-3-8
 Max Horz 13=379(LC 8)
 Max Uplift 8=251(LC 8), 13=-76(LC 8)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-1173/57, 3-4=-1502/209, 4-6=-840/46, 2-13=-788/97
 BOT CHORD 12-13=-373/957, 4-10=-100/374, 9-10=-447/1336, 8-9=-221/696
 WEBS 3-12=-398/189, 10-12=-385/983, 3-10=-75/395, 4-9=-725/256, 6-9=-21/476,
 6-8=-893/283

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 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) 13 except (jt=lb) 8=251.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



October 18,2019

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	Truss	Truss Type	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI ID:elVzmttrvqeWtykiiM9UhZAKds-Xfoeh96Vmaw?8RY1u9D5We1xSPw4XGMKtA0UboySCbB			Lot 62 MN	I38965474
400279	E5	Monopitch				Job Reference (optional)	
Wheeler Lumber,		Waverly, KS 66871		8,240 s Jul 14 2019 MiTek Industries, Inc. Fri Oct 18 10:30:58 2019 Page 1			
0-10-8		5-9-9		10-1-8		18-3-8	
0-10-8		5-9-9		4-3-15		2-1-8	
				06/02/2020		1-7-0	
						6-0-8	
						6.00	

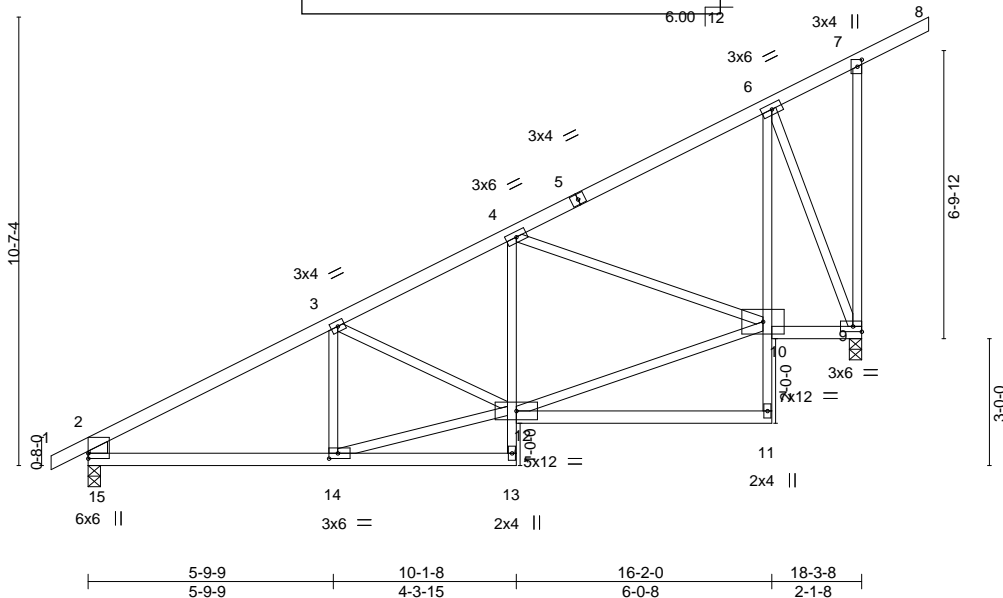


Plate Offsets (X,Y)--		[2:0-1-6,0-2-12], [7:0-2-0,0-1-4], [14:0-2-8,0-1-8], [15:0-0-0,0-2-12]													
LOADING (psf)		SPACING-		2-0-0		CSI.		DEFL.		in (loc) l/defl L/d		PLATES		GRIP	
TCLL	25.0	Plate Grip DOL		1.15		TC 0.65		Vert(LL)		-0.07 11-12 >999 360		MT20		197/144	
TCDL	10.0	Lumber DOL		1.15		BC 0.44		Vert(CT)		-0.15 11-12 >999 240					
BCLL	0.0 *	Rep Stress Incr		YES		WB 0.66		Horz(CT)		0.02 9 n/a n/a					
BCDL	10.0	Code IRC2018/TPI2014				Matrix-S		Wind(LL)		0.03 13 >999 240		Weight: 87 lb		FT = 10%	

LUMBER-

TOP CHORD 2x4 SPF No.2
 BOT CHORD 2x4 SPF No.2 *Except*
 4-13,6-11: 2x3 SPF No.2
 WEBS 2x3 SPF No.2 *Except*
 2-15: 2x6 SP DSS

BRACING-

TOP CHORD Structural wood sheathing directly applied or 4-6-1 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 13-14.

REACTIONS.

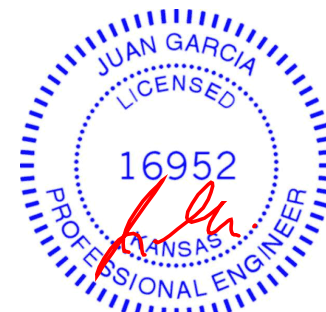
(lb/size) 9=929/0-3-8, 15=882/0-3-8
 Max Horz 15=385(LC 5)
 Max Uplift 9=264(LC 8), 15=102(LC 8)

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

TOP CHORD 2-3=-1176/97, 3-4=-1000/128, 4-6=-432/44, 2-15=-803/139
 BOT CHORD 14-15=-286/952, 6-10=-124/593, 9-10=-85/296
 WEBS 12-14=-264/948, 10-12=-239/883, 4-10=-591/200, 6-9=-805/250

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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 9=264, 15=102.
- 5) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



October 18,2019

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

			<div>RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI</div>					
Job	Truss	Truss Type	Girder	Ply	Lot 62 MN	I38965475		
400279	G1	Roof Special		1				
Wheeler Lumber, Waverly, KS 66871			8,240 s			Job Reference (optional)		
			ID:elVzmttrvqeWtykiM9UhzAKds-T1vP6r8IIICAJNiiP0aFZb36JaDXg?9WdxuVaghySCb9			Jul 14 2019 MiTek Industries, Inc. Fri Oct 18 10:31:00 2019 Page 1		
			06/02/2020					

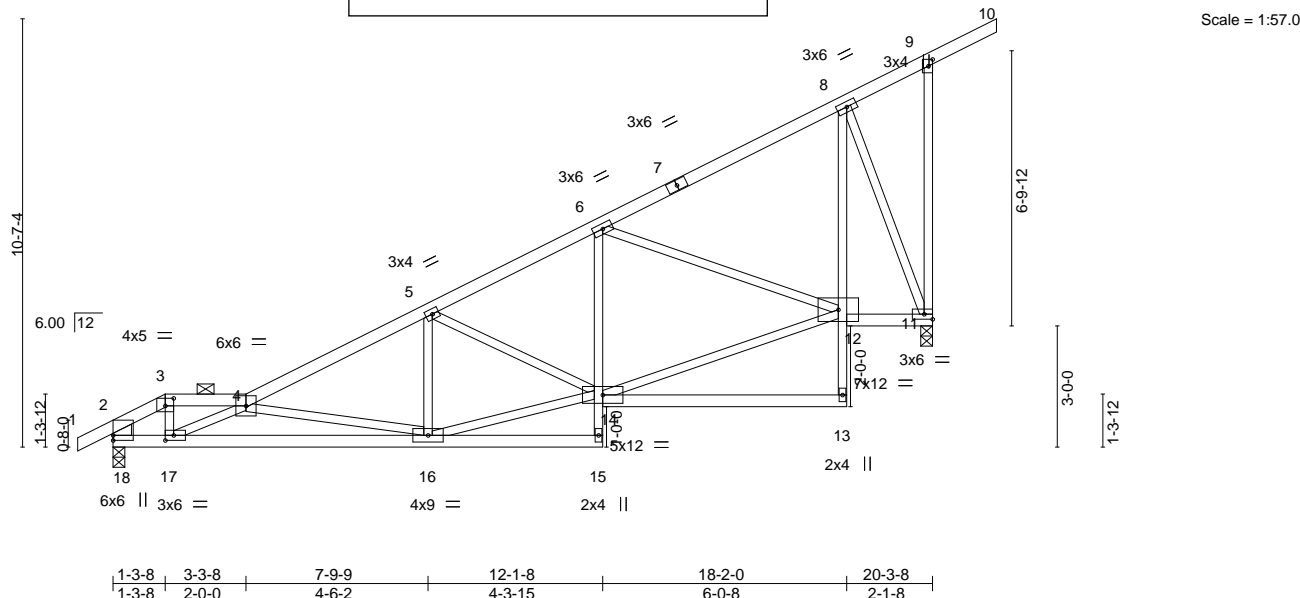


Plate Offsets (X,Y)--		[2:0-1-6,0-2-12], [3:0-2-8,0-2-4], [9:0-2-0,0-1-4], [17:0-2-8,0-1-8], [18:0-0-0,0-2-12]									
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d				PLATES GRIP	
TCLL	25.0	Plate Grip DOL 1.15		TC 0.55		Vert(LL) -0.09 16-17 >999 360				MT20 197/144	
TCDL	10.0	Lumber DOL 1.15		BC 0.76		Vert(CT) -0.18 16-17 >999 240					
BCLL	0.0 *	Rep Stress Incr NO		WB 0.75		Horz(CT) 0.03 11 n/a n/a					
BCDL	10.0	Code IRC2018/TPI2014		Matrix-S		Wind(LL) 0.07 16-17 >999 240				Weight: 98 lb FT = 10%	

LUMBER-

TOP CHORD 2x4 SPF No.2
 BOT CHORD 2x4 SPF No.2 *Except*
 6-15,8-13: 2x3 SPF No.2
 WEBS 2x3 SPF No.2 *Except*
 2-18: 2x6 SPF No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 4-3-10 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, Except:
 8-3-10 oc bracing: 16-17
 6-0-0 oc bracing: 15-16.

REACTIONS. (lb/size) 11=1019/0-3-8, 18=969/0-3-8
 Max Horz 18=385(LC 5)
 Max Uplift 11=273(LC 8), 18=126(LC 8)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-1050/65, 3-4=-870/62, 4-5=-1530/131, 5-6=-1189/146, 6-8=-472/48, 2-18=-808/79
 BOT CHORD 17-18=-306/807, 16-17=-504/2181, 6-14=0/292, 8-12=-136/699, 11-12=-80/332
 WEBS 3-17=-14/614, 4-17=-1487/226, 4-16=-874/199, 14-16=-286/1333, 5-14=-363/86,
 12-14=-258/1054, 6-12=-725/216, 8-11=-904/259

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
- 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 (it=lb) 11=273, 18=126.
- This truss 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) 60 lb down and 42 lb up at 1-3-8 on top chord, and 5 lb down and 3 lb up at 1-3-8 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

- 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, 4-9=-70, 9-10=-70, 15-18=-20, 13-14=-20, 11-12=-20



October 18,2019

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/TPI 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	Truss	Truss Type	<div>RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI 06/02/2020</div>			Ply	Lot 62 MN
400279	G1	Roof Special	Girder			1	I38965475
Wheeler Lumber, Waverly, KS 66871		Job Reference (optional) 8.240 s Jul 14 2019 MiTek Industries, Inc. Fri Oct 18 10:31:00 2019 Page 2 ID:elVzmttrvqeWtykiM9UhzAKds-T1vP6r8IICAjNliP0aFZb36JaDXg?9WdxuVaghySCb9					

LOAD CASE(S) Standard
Concentrated Loads (lb)
Vert: 17=3(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	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI ID: eIVztmttrvqeWtykiiM9UhzAKds-PQ19XW9?qpQRd2so7?H1gUBaq1ErT0GwOC_hkaySCb7 06/02/2020			Ply	Lot 62 MN	138965477
400279	G3	Roof Special				1	Job Reference (optional)	
Wheeler Lumber,		Waverly, KS 66871	8,240 sq ft Jul 14 2019 MiTek Industries, Inc. Fri Oct 18 10:31:02 2019 Page 1 AKds-PQ19XW9?qpQRd2so7?H1gUBaq1ErT0GwOC_hkaySCb7					
-0-10-8		5-3-8	7-3-8	13-9-9	22-1-11	29-10-11	37-0-0	37-10-8
0-10-8		5-3-8	2-0-0	6-6-1	8-4-2	7-9-0	7-1-5	0-10-8

Scale = 1:83.0

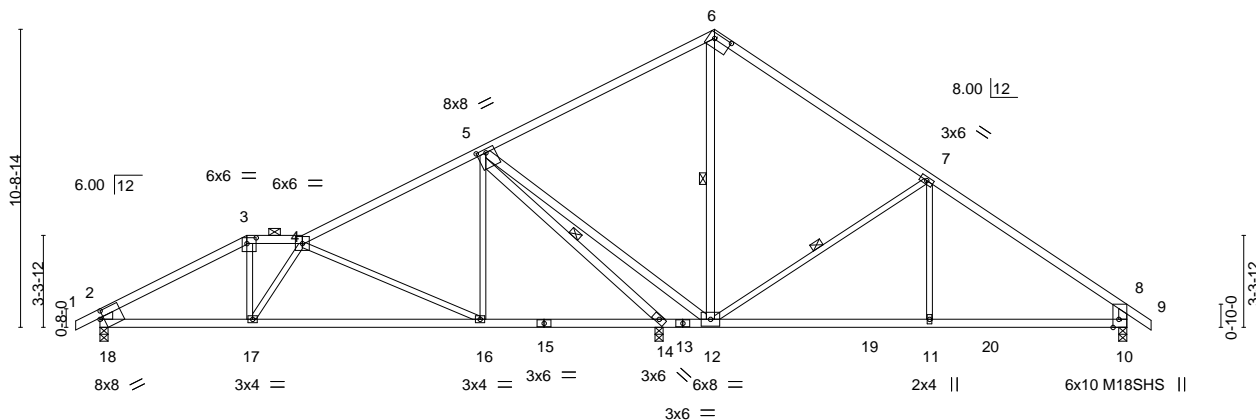


Plate Offsets (X,Y)--	[2:0-3-1,0-0-0], [3:0-4-0,0-2-8], [5:0-4-0,0-1-8], [6:0-7-4,0-2-4], [8:0-1-3,0-1-12], [10:0-3-8,Edge], [10:0-0-0,0-1-12], [18:0-1-10,0-3-4], [18:0-2-7,0-1-4]
-----------------------	---

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 0.88	Vert(LL)	-0.16	16-17	>999	360	MT20
TCDL 10.0	Lumber DOL	1.15	BC 0.65	Vert(CT)	-0.33	16-17	>727	240	M18SHS
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.92	Horz(CT)	0.04	10	n/a	n/a	
BCDL 10.0	Code IRC2018/TPI2014		Matrix-S	Wind(LL)	0.06	16-17	>999	240	
								Weight: 154 lb	FT = 10%

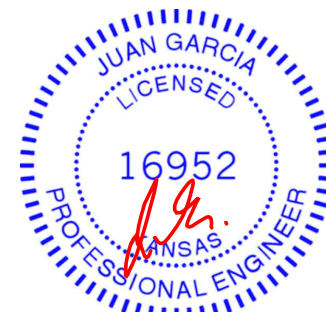
LUMBER-
 TOP CHORD 2x4 SPF No.2
 BOT CHORD 2x4 SPF No.2
 WEBS 2x3 SPF No.2 *Except*
 5-14,5-12,6-12: 2x4 SPF No.2, 2-18: 2x6 SP DSS
 8-10: 2x4 SPF 2100F 1.8E

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals, and 2-0-0 oc purlins (5-9-4 max.): 3-4.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
 4-6-12 oc bracing: 12-14.
 WEBS 1 Row at midpt 5-14, 6-12, 7-12

REACTIONS. (lb/size) 18=889/0-3-8, 10=705/0-3-8, 14=1851/0-3-8
 Max Horz 18=314(LC 7)
 Max Uplift 18=-174(LC 8), 10=-182(LC 9), 14=-181(LC 8)
 Max Grav 18=894(LC 21), 10=814(LC 16), 14=2002(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-1236/214, 3-4=-1030/227, 4-5=-665/206, 5-6=-132/295, 6-7=-193/283, 7-8=-848/230, 2-18=-829/197, 8-10=-703/222
 BOT CHORD 17-18=-278/1033, 16-17=-331/1156, 14-16=-146/553, 12-14=-1404/144, 11-12=-73/576, 10-11=-73/576
 WEBS 3-17=-12/427, 4-17=-282/120, 4-16=-704/204, 5-16=0/590, 5-14=-2548/279, 5-12=0/1603, 6-12=-557/25, 7-12=-840/271, 7-11=0/410

- 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.
 - All plates are MT20 plates unless otherwise indicated.
 - The Fabrication Tolerance at joint 6 = 6%, joint 8 = 6%
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 18=174, 10=182, 14=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.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



October 18,2019

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	Truss	Truss Type	<div style="text-align: center;"> RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI </div>		Ply	Lot 62 MN
400279	G4	Roof Special			1	I38965478
Wheeler Lumber, Waverly, KS 66871		8.240 s Jul 14 2019 MiTek Industries, Inc. Fri Oct 18 10:31:03 2019 Page 1 ID: eLVzmttrvqeWtykiiM9UhzAKds-tcbXksAeb7YIECR_hioGDhkjEQVzCYt3dsjEH0ySCb6				
		Job Reference (optional)				

Scale = 1:76.9

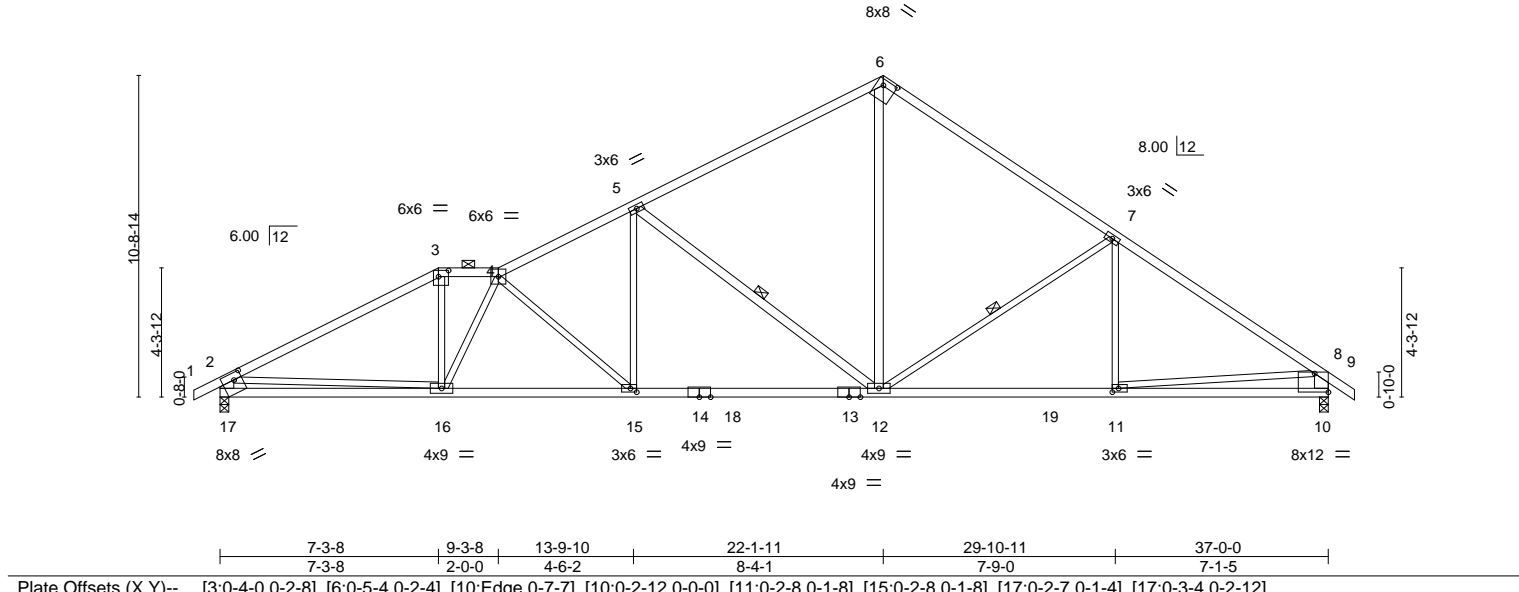


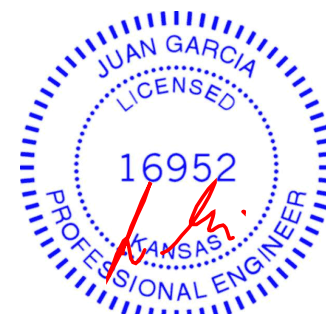
Plate Offsets (X,Y)--		[3:0-4-0,0-2-8], [6:0-5-4,0-2-4], [10:Edge,0-7-7], [10:0-2-12,0-0-0], [11:0-2-8,0-1-8], [15:0-2-8,0-1-8], [17:0-2-7,0-1-4], [17:0-3-4,0-2-12]	
LOADING (psf)	SPACING-	CSI.	DEFL.
TCLL 25.0	2-0-0	TC 0.97	in (loc) l/defl L/d
TCDL 10.0	Plate Grip DOL 1.15	BC 0.97	Vert(LL) -0.25 12-15 >999 360
BCLL 0.0 *	Lumber DOL 1.15	WB 0.58	Vert(CT) -0.45 12-15 >973 240
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Horz(CT) 0.10 10 n/a n/a
	Code IRC2018/TPI2014		Wind(LL) 0.12 15 >999 240
			PLATES GRIP
			MT20 197/144
			Weight: 156 lb FT = 10%

LUMBER-		BRACING-	
TOP CHORD	2x4 SPF No.2 *Except* 4-6,6-9: 2x4 SPF 2100F 1.8E	TOP CHORD	Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (3-6-10 max.): 3-4.
BOT CHORD	2x4 SPF No.2	BOT CHORD	Rigid ceiling directly applied or 2-2-0 oc bracing.
WEBS	2x3 SPF No.2 *Except* 5-12,6-12: 2x4 SPF No.2, 2-17: 2x6 SP DSS, 8-10: 2x6 SPF No.2	WEBS	1 Row at midpt 5-12, 7-12

REACTIONS.	
(lb/size)	17=1722/0-3-8, 10=1722/0-3-8
Max Horz	17=315(LC 7)
Max Uplift	17=-255(LC 8), 10=-191(LC 9)
Max Grav	17=1789(LC 2), 10=1841(LC 16)

FORCES.	
(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.	
TOP CHORD	2-3=-2906/375, 3-4=-2526/384, 4-5=-2752/387, 5-6=-1814/282, 6-7=-1928/326, 7-8=-2444/243, 2-17=-1661/297, 8-10=-1728/227
BOT CHORD	16-17=-431/1023, 15-16=-431/2928, 12-15=-320/2452, 11-12=-106/1931, 10-11=-134/517
WEBS	3-16=-1/978, 4-16=-948/90, 4-15=-636/149, 5-15=-11/721, 5-12=-1181/328, 6-12=-132/1317, 7-12=-652/266, 2-16=0/1550, 8-11=-47/1460

- 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, with BCDL = 10.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 17=255, 10=191.
 - This truss 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.



October 18,2019

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
 ID: eIVztmttrvqeWtykiiM9UhzAKds-Lp9vyCBGMQg9sM0AFQJvIvHyxqwdxw?DsWTopSySCb5
 06/02/2020

Job 400279	Truss G5	Truss Type Roof Special Girder	Ply 2	Lot 62 MN 138965479
Wheeler Lumber, Waverly, KS 66871		Job Reference (optional)		

8.240 s Jul 14 2019 MiTek Industries, Inc. Fri Oct 18 10:31:04 2019 Page 1
ID: eIVztmttrvqeWtykiiM9UhzAKds-Lp9vyCBGMQg9sM0AFQJvIvHyxqwdxw?DsWTopSySCb5

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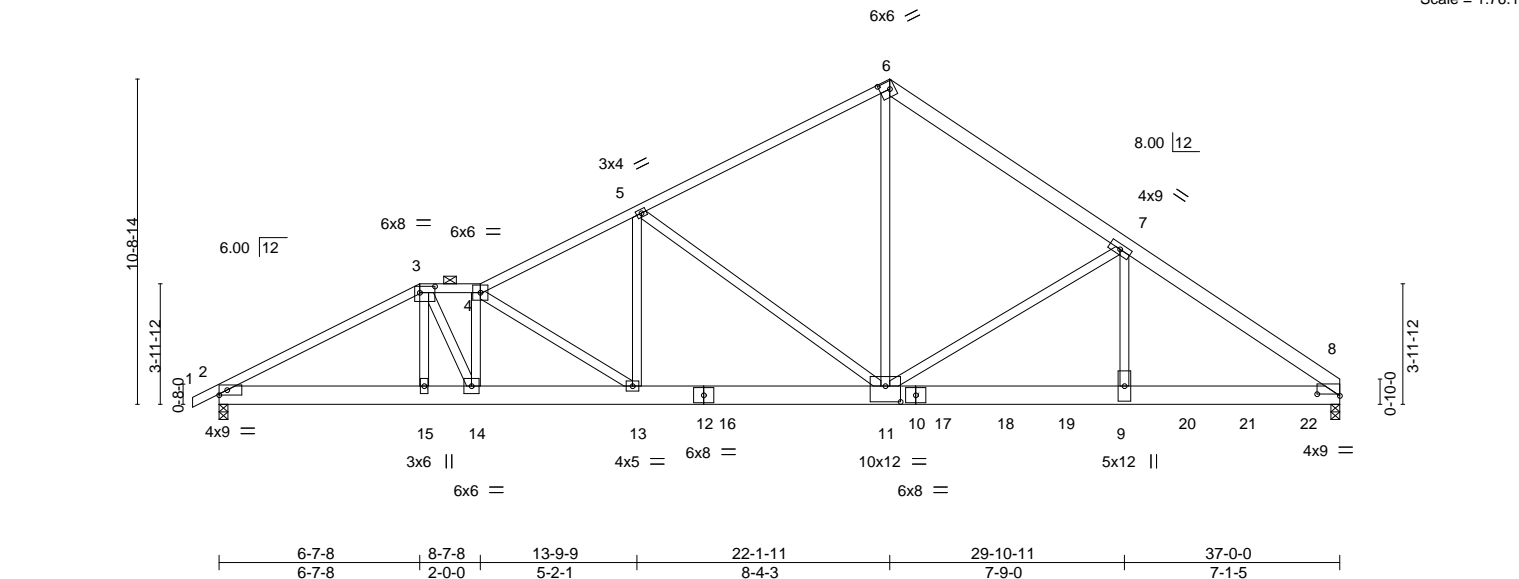


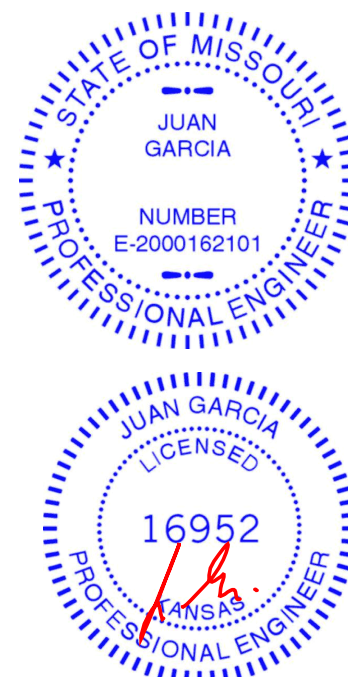
Plate Offsets (X,Y)--		[3:0-6-0,0-2-8], [6:0-3-15,0-3-0], [8:0-9-0,0-0-11], [11:0-6-0,0-6-4]	
LOADING (psf)	SPACING-	2-0-0	CSI.
TCLL 25.0	Plate Grip DOL	1.15	TC 0.65
TCDL 10.0	Lumber DOL	1.15	BC 0.69
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.91
BCDL 10.0	Code IRC2018/TPI2014		Matrix-S
			DEFL.
			in (loc) l/defl L/d
			Vert(LL) -0.22 9-11 >999 360
			Vert(CT) -0.39 9-11 >999 240
			Horz(CT) 0.07 8 n/a n/a
			Wind(LL) 0.15 9-11 >999 240
			PLATES GRIP
			MT20 197/144
			Weight: 475 lb FT = 10%

LUMBER-		BRACING-	
TOP CHORD	2x4 SPF No.2 *Except* 4-6: 2x4 SPF 2100F 1.8E, 6-8: 2x6 SPF No.2	TOP CHORD	Structural wood sheathing directly applied or 4-4-5 oc purlins, except
BOT CHORD	2x8 SP DSS	BOT CHORD	2-0-0 oc purlins (4-8-8 max.): 3-4.
WEBS	2x4 SPF No.2		Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.	
(lb/size)	8=6129/0-3-8, 2=3272/0-3-8
Max Horz	2=290(LC 28)
Max Uplift	8=474(LC 9), 2=422(LC 8)
Max Grav	8=6129(LC 1), 2=3303(LC 2)

FORCES.	
(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.	
TOP CHORD	2-3=-6234/753, 3-4=-6687/837, 4-5=-6495/791, 5-6=-5721/724, 6-7=-6103/796, 7-8=-9089/738
BOT CHORD	2-15=-746/5391, 14-15=-745/5399, 13-14=-884/6782, 11-13=-697/5791, 9-11=-525/7309, 8-9=-525/7309
WEBS	3-15=-31/295, 3-14=-276/2764, 4-14=-2305/259, 4-13=-1199/227, 5-13=-129/728, 5-11=-1190/459, 6-11=-586/5357, 7-11=-2860/294, 7-9=0/2875

- 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: 2x8 - 2 rows staggered at 0-3-0 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; 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, with BCDL = 10.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 8=474, 2=422.
 - This truss 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.



October 18,2019

Job	Truss	Truss Type	<div> <div>RELEASE FOR</div> <div>CONSTRUCTION</div> <div>AS NOTED ON PLANS REVIEW</div> <div>DEVELOPMENT SERVICES</div> <div>LEE'S SUMMIT, MISSOURI</div> <div>06/02/2020</div> </div>			Ply	Lot 62 MN
400279	G5	Roof Special	Girder			2	I38965479

Wheeler Lumber,

Waverly, KS 66871

8.240 s

Jul 14 2019

MiTek Industries, Inc.

Fri Oct 18 10:31:04 2019

Page 2

ID:eIVztmttrvqeWtykiiM9UhzAKds-Lp9vyCBGMQg9sM0AFQJVlvHyxqwdxw?DsWTopSySCb5

Job Reference (optional)

NOTES-

11) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s)

3109 lb down and 458 lb up at 23-10-7, 507 lb down and 94 lb up at 25-11-4, 507 lb down and 81 lb up at 27-11-4, 507 lb down at 29-11-4, 507 lb down at 31-11-4, and 504 lb down and 69 lb up at 33-11-4, and 505 lb down and 68 lb up at 35-11-4 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, 3-4=-70, 4-6=-70, 6-8=-70, 2-8=-20

Concentrated Loads (lb)

Vert: 9=-507(B) 17=-2990(B) 18=-507(B) 19=-507(B) 20=-507(B) 21=-504(B) 22=-505(B)

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 400279	Truss G6	Truss Type Roof Special	<div style="text-align: center;"> RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI </div>		Lot 62 MN 138965480
Wheeler Lumber, Waverly, KS 66871			8.240 s ID:elVzmttrvqeWtykiiM9UhZAKds-q?jI9YCu7ko?UWbNo7rkI6p5eEBPgNeM4ACLLuySCb4		
-0-10-8 4-7-0 6-7-0 13-9-9 19-1-8 23-8-14 0-10-8 4-7-0 2-0-0 7-2-9 5-3-15 4-7-6			Job Reference (optional) 8.240 s Jul 14 2019 MiTek Industries, Inc. Fri Oct 18 10:31:05 2019 Page 1 06/02/2020		

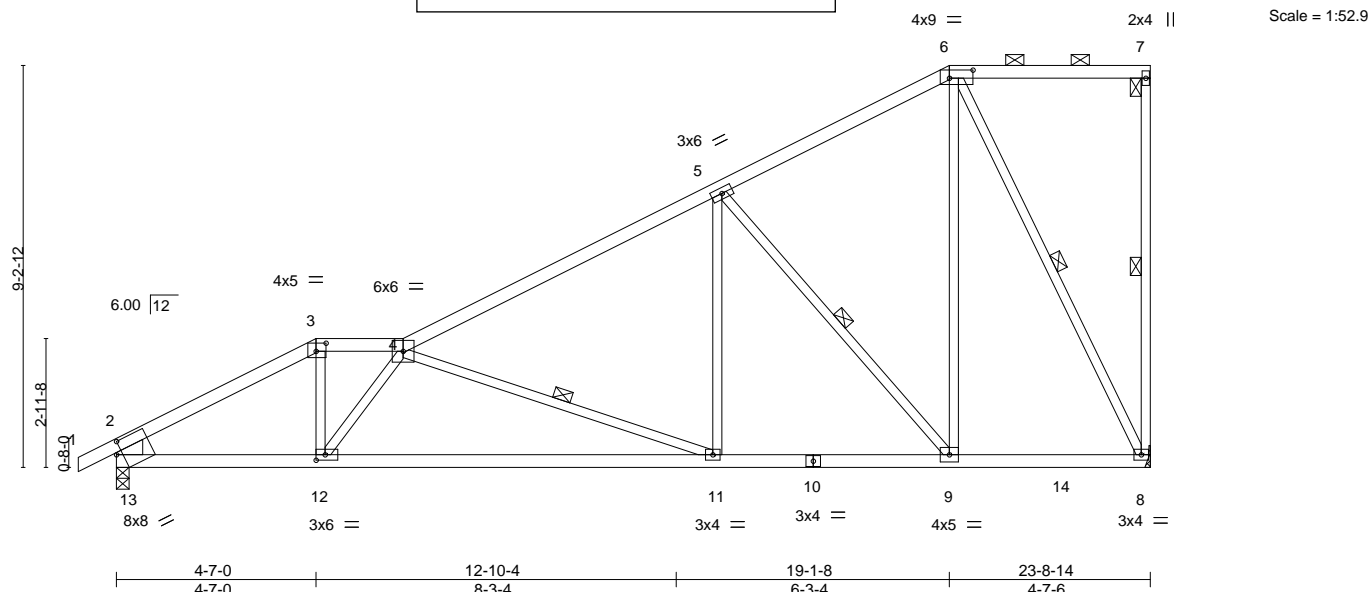


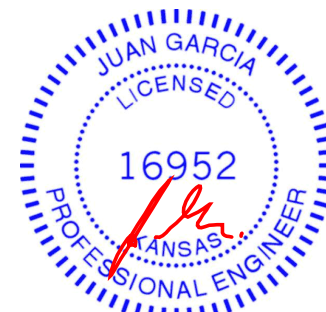
Plate Offsets (X,Y)--		[2:0-4-1,0-0-0], [3:0-2-12,0-2-4], [6:0-6-8,0-2-4], [12:0-2-8,0-1-8], [13:0-1-10,0-3-4], [13:0-3-4,0-1-10]	
LOADING (psf)	SPACING-	CSI.	DEFL.
TCLL 25.0	Plate Grip DOL 1.15	TC 0.78	in (loc) l/defl L/d
TCDL 10.0	Lumber DOL 1.15	BC 0.91	Vert(LL) -0.25 11-12 >999 360
BCLL 0.0 *	Rep Stress Incr YES	WB 0.95	Vert(CT) -0.50 11-12 >566 240
BCDL 10.0	Code IRC2018/TPI2014	Matrix-S	Horz(CT) 0.05 8 n/a n/a
			Wind(LL) 0.07 11-12 >999 240
			PLATES GRIP
			MT20 197/144
			Weight: 103 lb FT = 10%

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2 *Except* 1-3: 2x4 SPF 2100F 1.8E	TOP CHORD Structural wood sheathing directly applied or 3-7-9 oc purlins, except end verticals, and 2-0-0 oc purlins (4-7-11 max.): 3-4, 6-7.
BOT CHORD 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x3 SPF No.2 *Except* 2-13: 2x8 SP DSS	WEBS 1 Row at midpt 7-8, 4-11, 5-9, 6-8

REACTIONS. (lb/size) 8=1048/Mechanical, 13=1134/0-3-8
 Max Horz 13=249(LC 8)
 Max Uplift 8=57(LC 8), 13=11(LC 8)
 Max Grav 8=1130(LC 2), 13=1166(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-1739/0, 3-4=-1474/0, 4-5=-1304/0, 5-6=-603/18, 2-13=-1069/27
 BOT CHORD 12-13=-180/1443, 11-12=-199/1896, 9-11=-102/1096, 8-9=-35/474
 WEBS 3-12=0/797, 4-12=-757/37, 4-11=-857/103, 5-11=0/620, 5-9=-974/103, 6-9=-25/920, 6-8=-1044/77

- 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); cantilever left and right exposed; end vertical left exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - 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) 8, 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.



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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job		Truss	Truss Type	<div>RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI 06/02/2020</div>			Ply	Lot 62 MN
400279		G7	Roof Special	Girder			1	I38965481
Wheeler Lumber, Waverly, KS 66871				Job Reference (optional)				
LOAD CASE(S) Standard 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15				8.240 s Jul 14 2019 MiTek Industries, Inc. Fri Oct 18 10:31:06 2019 Page 2 ID:elVzmttrvqeWtykiiM9UhzAKds-IBGgNuCWu2ws5g9ZMqMzrKMGRexAPujVJqyvtLySCb3				

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, 4-6=-70, 6-7=-70, 7-8=-70, 8-9=-70, 10-16=-20
- Concentrated Loads (lb)

Vert: 17=-288(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	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI			Ply	Lot 62 MN
400279	H1	Roof Special				1	I38965482
Wheeler Lumber, Waverly, KS 66871			8.240 s Jul 14 2019 MiTek Industries, Inc. Fri Oct 18 10:31:07 2019 Page 1 ID:elVzmttrvqeWtykiiM9UhZAKds-mOq2aED8fL2jjqklwYtCNXuS32tW8MffYUHSQnySCb2				
			5-9-10 5-9-10 10-5-8 4-7-14 06/02/2020 12-5-8 2-0-0 19-0-0 6-6-8 21-8-14 2-8-14				

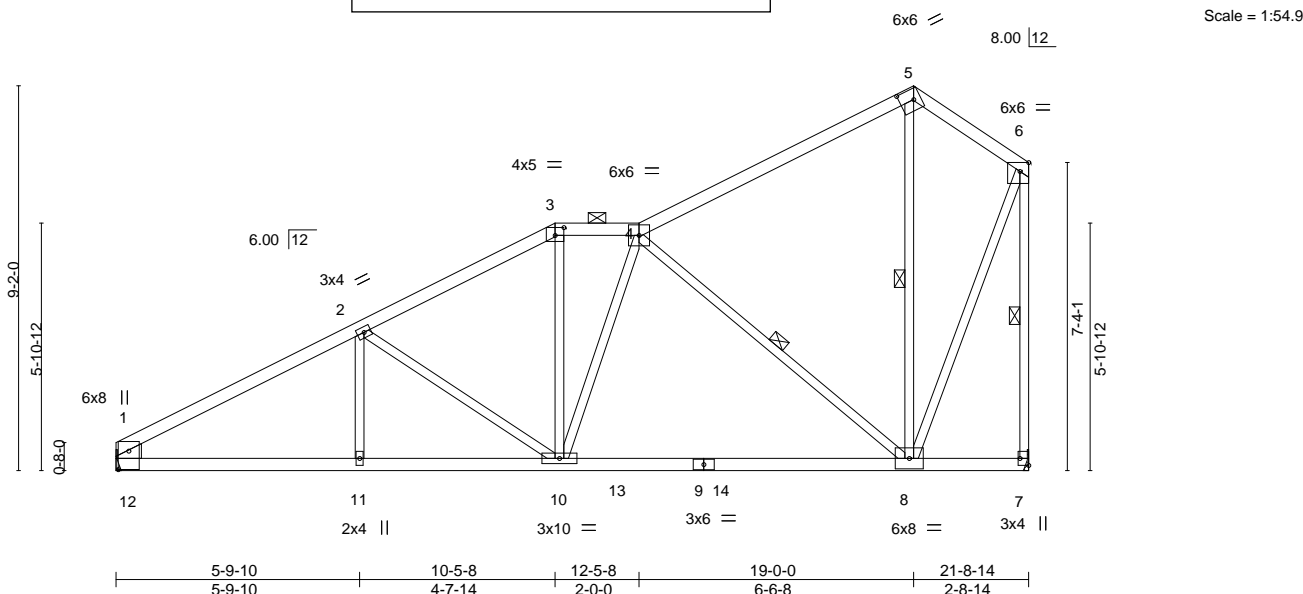


Plate Offsets (X,Y)--		[1:0-5-5,0-3-0], [3:0-2-8,0-2-4], [5:0-3-15,0-3-0], [6:0-2-8,Edge], [7:Edge,0-2-8]					
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d
TCLL 25.0	Plate Grip DOL	1.15	TC 0.72	Vert(LL)	-0.17 8-10	>999	360
TCDL 10.0	Lumber DOL	1.15	BC 0.93	Vert(CT)	-0.31 8-10	>816	240
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.59	Horz(CT)	0.03 7	n/a	n/a
BCDL 10.0	Code IRC2018/TPI2014		Matrix-S	Wind(LL)	0.06 10-11	>999	240
						Weight: 95 lb	FT = 10%

LUMBER-

TOP CHORD 2x4 SPF No.2
 BOT CHORD 2x4 SPF No.2
 WEBS 2x3 SPF No.2 *Except*
 1-12: 2x8 SP DSS

BRACING-

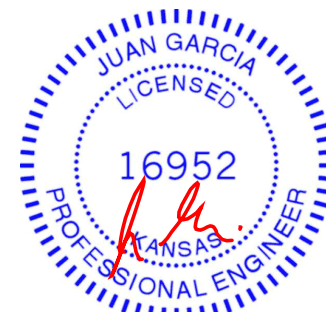
TOP CHORD Structural wood sheathing directly applied or 4-0-1 oc purlins, except end verticals, and 2-0-0 oc purlins (5-7-3 max.): 3-4.
 BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.
 WEBS 1 Row at midpt 4-8, 5-8, 6-7

REACTIONS. (lb/size) 12=960/Mechanical, 7=960/Mechanical
 Max Horz 12=270(LC 5)
 Max Uplift 12=-23(LC 8), 7=-43(LC 8)
 Max Grav 12=1001(LC 2), 7=1009(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-2=-1494/55, 2-3=-1187/61, 3-4=-1013/71, 4-5=-482/62, 5-6=-437/92, 1-12=-837/57, 6-7=-1026/53
 BOT CHORD 11-12=-106/1295, 10-11=-106/1295, 8-10=-59/983
 WEBS 2-10=-323/88, 3-10=0/351, 4-8=-872/118, 6-8=-8/863

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, with BCDL = 10.0psf.
- 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) 12, 7.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



October 18,2019

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16023 Swingley Ridge Rd
 Chesterfield, MO 63017

Job	Truss	Truss Type	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI ID:elVzmttrvqeWtykiiM9UnhZAKds-EaOQnaEmQfAaL_JyUFORwIRbGRG0toTom8R?yDySCb1 06/02/2020			Ply	Lot 62 MN	I38965483
400279	H2	Roof Special				1	Job Reference (optional)	
Wheeler Lumber,		Waverly, KS 66871	8.240 s Jul 14 2019 MiTek Industries, Inc. Fri Oct 18 10:31:08 2019 Page 1					
-0-10-8		7-1-8	9-1-8		13-0-10		19-0-0	21-8-14
0-10-8		7-1-8	2-0-0		4-8-2		5-2-6	2-8-14

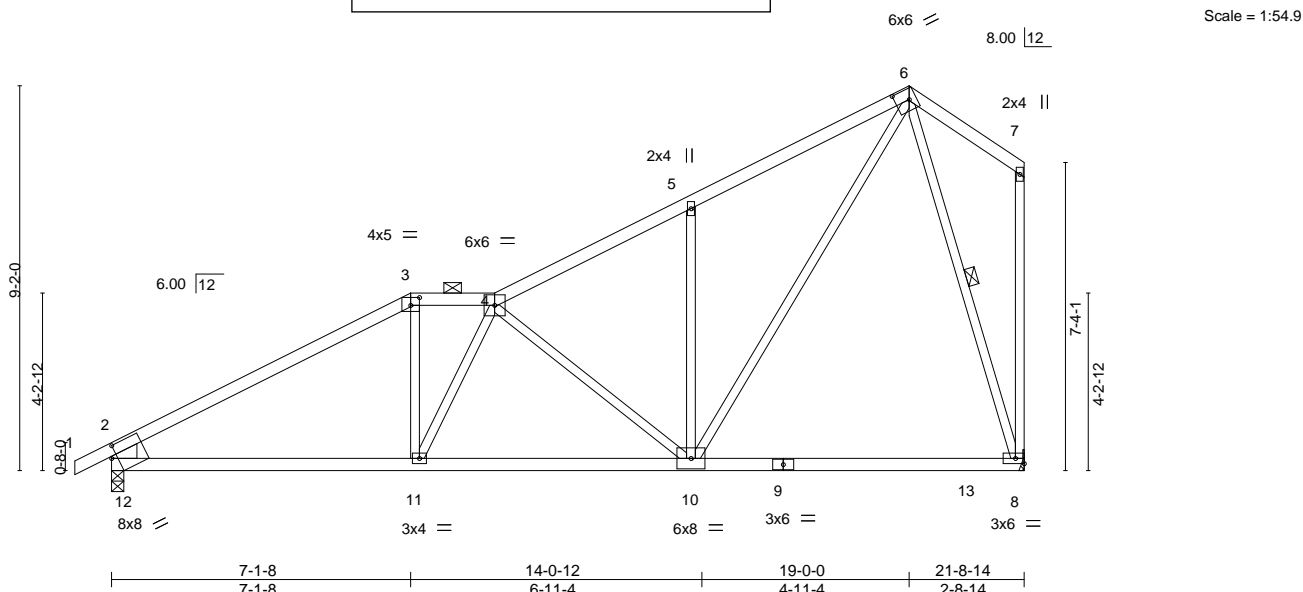


Plate Offsets (X,Y)--										[2:0-4-1,0-0-0], [3:0-2-8,0-2-4], [6:0-3-15,0-3-0], [12:0-1-10,0-3-4], [12:0-3-4,0-1-10]									
LOADING (psf)		SPACING-		2-0-0		CSI.		DEFL.		in (loc)		l/defl		L/d		PLATES		GRIP	
TCLL 25.0		Plate Grip DOL		1.15		TC 0.88		Vert(LL)		-0.24 8-10		>999		360		MT20		197/144	
TCDL 10.0		Lumber DOL		1.15		BC 0.73		Vert(CT)		-0.37 8-10		>683		240					
BCLL 0.0 *		Rep Stress Incr		YES		WB 0.69		Horz(CT)		0.03 8		n/a		n/a					
BCDL 10.0		Code IRC2018/TPI2014				Matrix-S		Wind(LL)		0.04 8-10		>999		240		Weight: 92 lb		FT = 10%	

LUMBER-

TOP CHORD 2x4 SPF No.2
 BOT CHORD 2x4 SPF No.2
 WEBS 2x3 SPF No.2 *Except*
 2-12: 2x8 SP DSS

BRACING-

TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals, and 2-0-0 oc purlins (5-3-15 max.): 3-4.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
 WEBS 1 Row at midpt 6-8

REACTIONS.

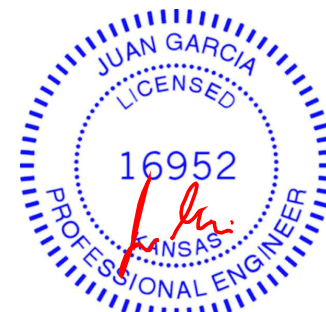
(lb/size) 12=1045/0-3-8, 8=958/Mechanical
 Max Horz 12=278(LC 5)
 Max Uplift 12=-36(LC 8), 8=-43(LC 8)
 Max Grav 12=1067(LC 2), 8=1044(LC 13)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-1459/47, 3-4=-1212/71, 4-5=-1041/53, 5-6=-1045/142, 2-12=-960/82
 BOT CHORD 11-12=-88/1230, 10-11=-68/1335, 8-10=-60/279
 WEBS 3-11=0/434, 4-11=-274/7, 4-10=-593/79, 5-10=-400/136, 6-10=-108/1208, 6-8=-891/64

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, with BCDL = 10.0psf.
- 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) 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.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



October 18,2019

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16023 Swingley Ridge Rd
 Chesterfield, MO 63017

Job	Truss	Truss Type	<div> <div>RELEASE FOR</div> <div>CONSTRUCTION</div> <div>AS NOTED ON PLANS REVIEW</div> <div>DEVELOPMENT SERVICES</div> <div>LEE'S SUMMIT, MISSOURI</div> </div>			Ply	Lot 62 MN
400279	H3	Roof Special	Girder			1	I38965484
Wheeler Lumber, Waverly, KS 66871		<div> <div>8.240 s</div> <div>Jul 14 2019</div> <div>MiTek Industries, Inc.</div> <div>Fri Oct 18 10:31:09 2019</div> <div>Page 1</div> </div>					
<div> <div>-0-10-8</div> <div>0-10-8</div> </div>		<div> <div>3-9-8</div> <div>3-9-8</div> </div>	<div> <div>5-9-8</div> <div>2-0-0</div> </div>	<div> <div>11-9-9</div> <div>6-0-1</div> </div>	<div> <div>06/02/2020</div> </div>	<div> <div>19-0-0</div> <div>7-2-7</div> </div>	<div> <div>21-8-14</div> <div>2-8-14</div> </div>

Scale = 1:54.9

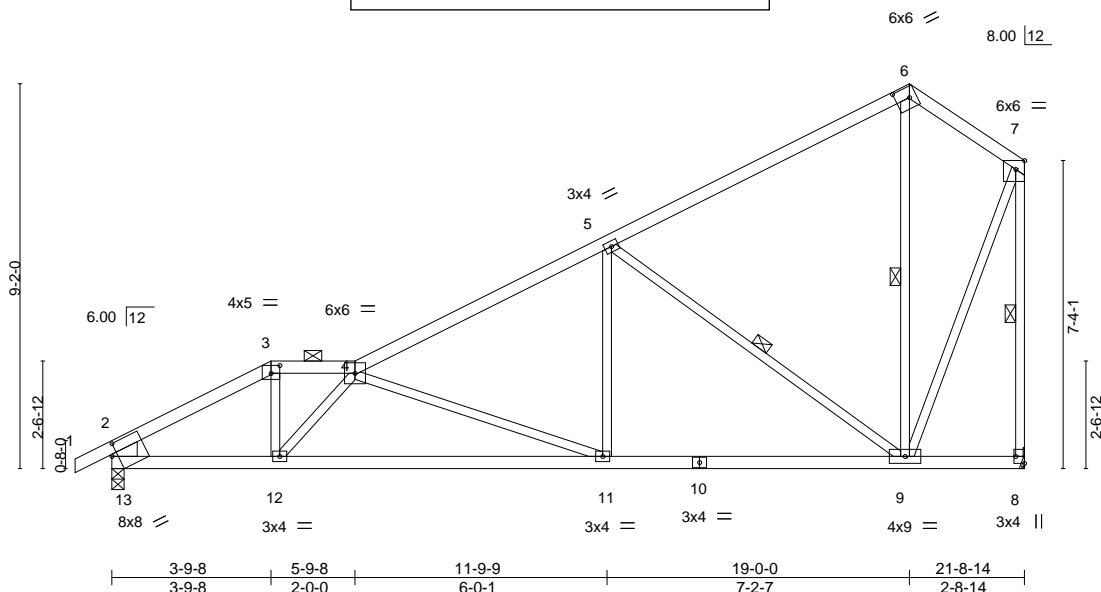


Plate Offsets (X,Y)--		[2:0-4-1,0-0-0], [3:0-2-8,0-2-4], [6:0-3-15,0-3-0], [7:0-2-8,Edge], [8:Edge,0-2-8], [13:0-1-10,0-3-4], [13:0-3-4,0-1-10]									
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d		PLATES		GRIP	
TCLL	25.0	Plate Grip DOL	1.15	TC	0.72	Vert(LL)	-0.11 11-12	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.72	Vert(CT)	-0.27 11-12	>951	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.73	Horz(CT)	0.04 8	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-S		Wind(LL)	0.09 11-12	>999	240	Weight: 94 lb	FT = 10%

LUMBER-

TOP CHORD 2x4 SPF No.2 *Except*
1-3: 2x4 SPF 2100F 1.8E
BOT CHORD 2x4 SPF No.2
WEBS 2x3 SPF No.2 *Except*
2-13: 2x8 SP DSS

BRACING-

TOP CHORD Structural wood sheathing directly applied or 4-5-4 oc purlins, except end verticals, and 2-0-0 oc purlins (5-1-14 max.): 3-4.
BOT CHORD Rigid ceiling directly applied or 9-2-1 oc bracing.
WEBS 1 Row at midpt 5-9, 6-9, 7-8

REACTIONS.

(lb/size) 13=1042/0-3-8, 8=957/Mechanical
Max Horz 13=354(LC 5)
Max Uplift 13=193(LC 8), 8=176(LC 8)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1454/231, 3-4=-1217/228, 4-5=-1246/197, 5-6=-435/115, 6-7=-361/163, 2-13=-957/194, 7-8=-944/200
BOT CHORD 12-13=-314/1188, 11-12=-408/1699, 9-11=-199/1050
WEBS 3-12=-36/626, 4-12=-752/159, 4-11=-694/223, 5-11=0/486, 5-9=-963/285, 7-9=-111/765

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 (jt=lb) 13=193, 8=176.
- This truss 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) 76 lb down and 94 lb up at 3-9-8 on top chord, and 9 lb down and 7 lb up at 3-9-8 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



October 18,2019

Continued on page 2

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	RELEASE FOR CONSTRUCTION		
400279	H3	Roof Special	Girder	Ply	Lot 62 MN
			AS NOTED ON PLANS REVIEW		I38965484
			DEVELOPMENT SERVICES		Job Reference (optional)
			LEE'S SUMMIT, MISSOURI		
			06/02/2020		
Wheeler Lumber, Waverly, KS 66871			8.240 s		Jul 14 2019 MiTek Industries, Inc. Fri Oct 18 10:31:09 2019 Page 2
			ID:eIVztmttrvqeWtykiM9UhzAKds-imyo?wFOAzIRz7u81zvgSy_oYrcLcE5y?oAZUgySCb0		

LOAD CASE(S) Standard
Uniform Loads (plf)
Vert: 1-2=-70, 2-3=-70, 3-4=-70, 4-6=-70, 6-7=-70, 8-13=-20
Concentrated Loads (lb)
Vert: 12=3(B)

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI			Ply	Lot 62 MN	I38965485
400279	J1	Diagonal Hip	Girder			1		
Wheeler Lumber,		Waverly, KS 66871		8,240 sq ft		Job Reference (optional) ID:0wpcF2OVQmpO8KfbvhtxszjTP7M-imyo?wFOAzIRz7u81zvgSy_wmrjYcPRy?oAZUgySCb0		
-1-2-14		2-9-3		06/02/2020		4-10-10		
1-2-14		2-9-3				2-1-7		

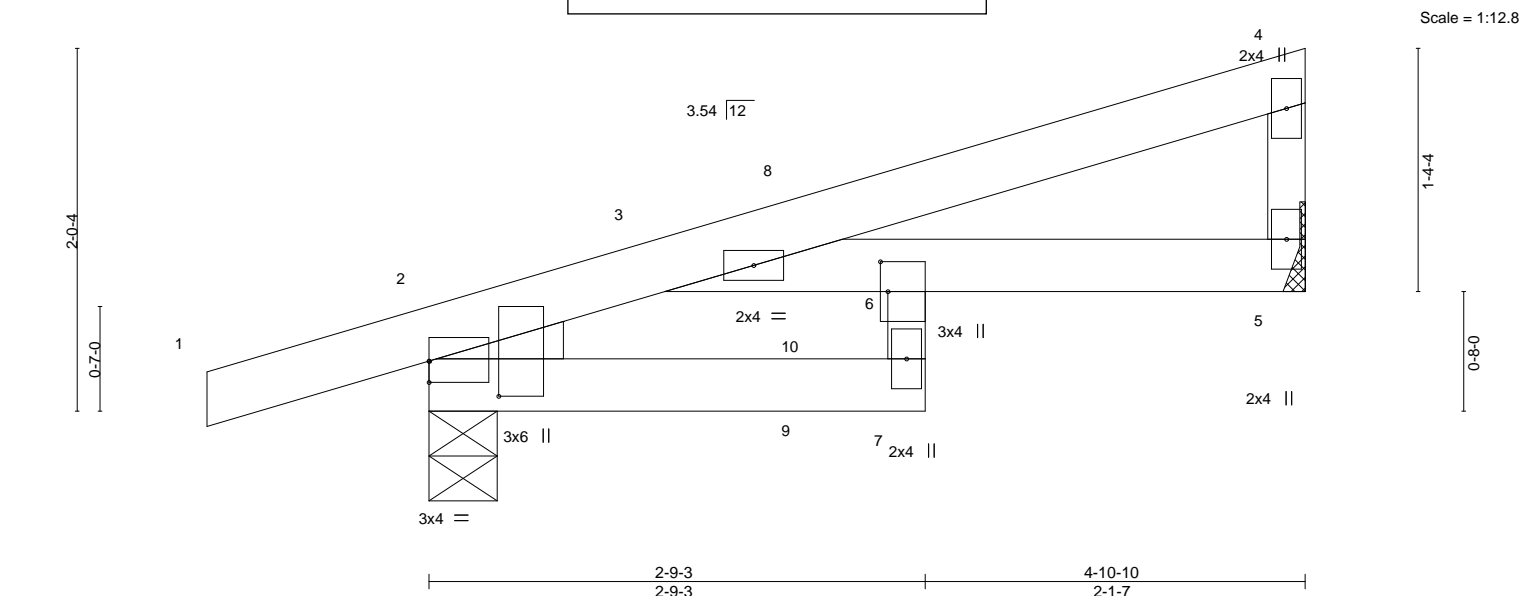


Plate Offsets (X,Y)-- [2:0-0-0,0-1-7], [2:0-2-6,0-4-11], [6:0-2-0,0-0-8]												
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d				PLATES GRIP		
TCLL	25.0	Plate Grip DOL	1.15	TC	0.20	Vert(LL)	-0.01	6	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.26	Vert(CT)	-0.03	7	>999	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.00	Horz(CT)	0.01	5	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-R		Wind(LL)	0.01	7	>999	240	Weight: 16 lb	FT = 10%

LUMBER-
 TOP CHORD 2x4 SPF No.2
 BOT CHORD 2x4 SPF No.2 *Except*
 6-7: 2x3 SPF No.2
 WEBS 2x3 SPF No.2
 WEDGE
 Left: 2x3 SPF No.2

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

REACTIONS. (lb/size) 5=191/Mechanical, 2=322/0-4-9
 Max Horz 2=65(LC 5)
 Max Uplift 5=41(LC 8), 2=-101(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; 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.
- All bearings are assumed to be SPF No.2 crushing capacity of 425 psi.
- 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) 2=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) 67 lb down and 27 lb up at 2-1-12, and 67 lb down and 27 lb up at 2-1-12 on top chord, and at 2-1-12, and at 2-1-12 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).

LOAD CASE(S) Standard

- Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (plf)
 Vert: 1-4=-70, 2-7=-20, 5-6=-20



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16023 Swingley Ridge Rd
 Chesterfield, MO 63017

Job 400279	Truss J2	Truss Type Jack-Open	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI ID:0wpcF2OVQmpO8KfbvhbxsjzTP7M-76tSTJKnX6BSICwUyxXJERm9Sg8hIZA_cNNQDmySCav 06/02/2020		Ply 1 Lot 62 MN I38965486 Job Reference (optional)
Wheeler Lumber, Waverly, KS 66871		8,240 s Jul 14 2019 MiTek Industries, Inc. Fri Oct 18 10:31:16 2019 Page 1 2-0-0 2-0-0 3-6-8 1-6-8			

Scale = 1:13.1

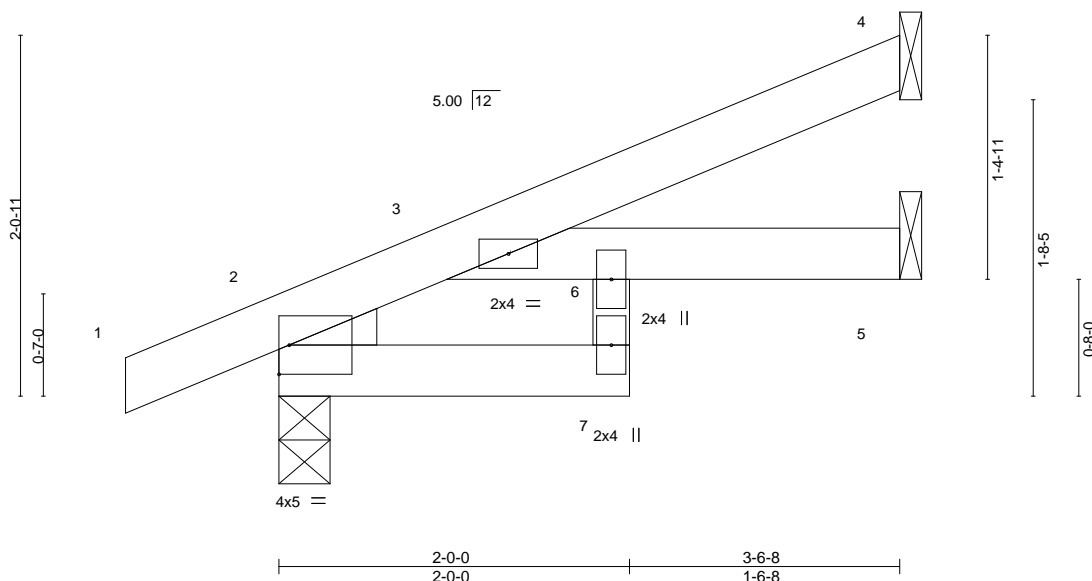


Plate Offsets (X,Y)--		[2:0-0-6,0-0-2], [2:0-4-11,0-0-5]	
LOADING (psf)	SPACING-	2-0-0	CSI.
TCLL 25.0	Plate Grip DOL	1.15	TC 0.10
TCDL 10.0	Lumber DOL	1.15	BC 0.16
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00
BCDL 10.0	Code IRC2018/TPI2014		Matrix-R
			DEFL.
			in (loc) l/defl L/d
			Vert(LL) -0.00 6 >999 360
			Vert(CT) -0.01 6 >999 240
			Horz(CT) 0.00 5 n/a n/a
			Wind(LL) 0.01 6 >999 240
			PLATES GRIP
			MT20 197/144
			Weight: 12 lb FT = 10%

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied or 3-6-8 oc purlins.
BOT CHORD 2x4 SPF No.2 *Except* 6-7: 2x3 SPF No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEDGE Left: 2x3 SPF No.2	

REACTIONS. (lb/size) 4=86/Mechanical, 2=244/0-3-8, 5=61/Mechanical
 Max Horz 2=74(LC 8)
 Max Uplift 4=39(LC 8), 2=-30(LC 8)
 Max Grav 4=86(LC 1), 2=244(LC 1), 5=76(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) 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.



October 18,2019

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16023 Swingley Ridge Rd
 Chesterfield, MO 63017

Job	Truss	Truss Type	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI			Lot 62 MN	I38965487
400279	J3	Jack-Open				Job Reference (optional)	

Wheeler Lumber, Waverly, KS 66871

8.240 s Jul 14 2019 MiTek Industries, Inc. Fri Oct 18 10:31:27 2019 Page 1
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-0-10-8 06/02/2020 1-5-7 1-5-7

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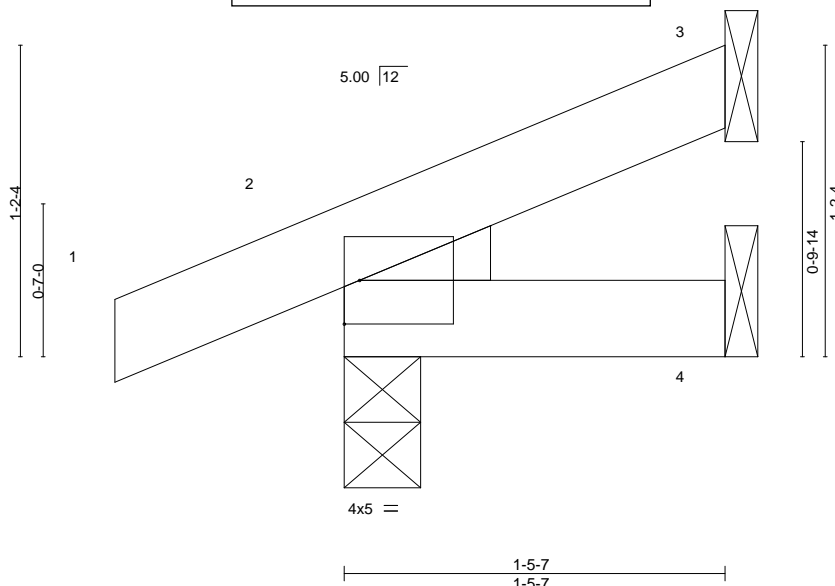


Plate Offsets (X,Y)-- [2:0-0-6,0-0-2], [2:0-4-11,0-0-5]												
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d				PLATES GRIP		
TCLL	25.0	Plate Grip DOL 1.15		TC	0.05	Vert(LL)	-0.00	2	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL 1.15		BC	0.02	Vert(CT)	-0.00	2	>999	240		
BCLL	0.0 *	Rep Stress Incr YES		WB	0.00	Horz(CT)	-0.00	3	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-P		Wind(LL)	0.00	2	****	240	Weight: 5 lb	FT = 10%

LUMBER-

TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEDGE
Left: 2x3 SPF No.2

BRACING-

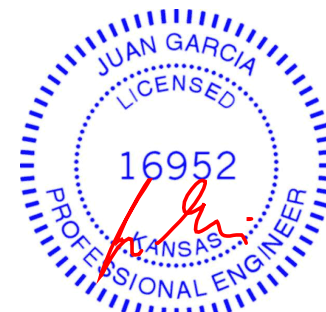
TOP CHORD Structural wood sheathing directly applied or 1-5-7 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 3=29/Mechanical, 2=147/0-3-8, 4=14/Mechanical
Max Horz 2=39(LC 8)
Max Uplift 3=-25(LC 8), 2=-33(LC 4)
Max Grav 3=29(LC 1), 2=147(LC 1), 4=28(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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 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.



October 18,2019

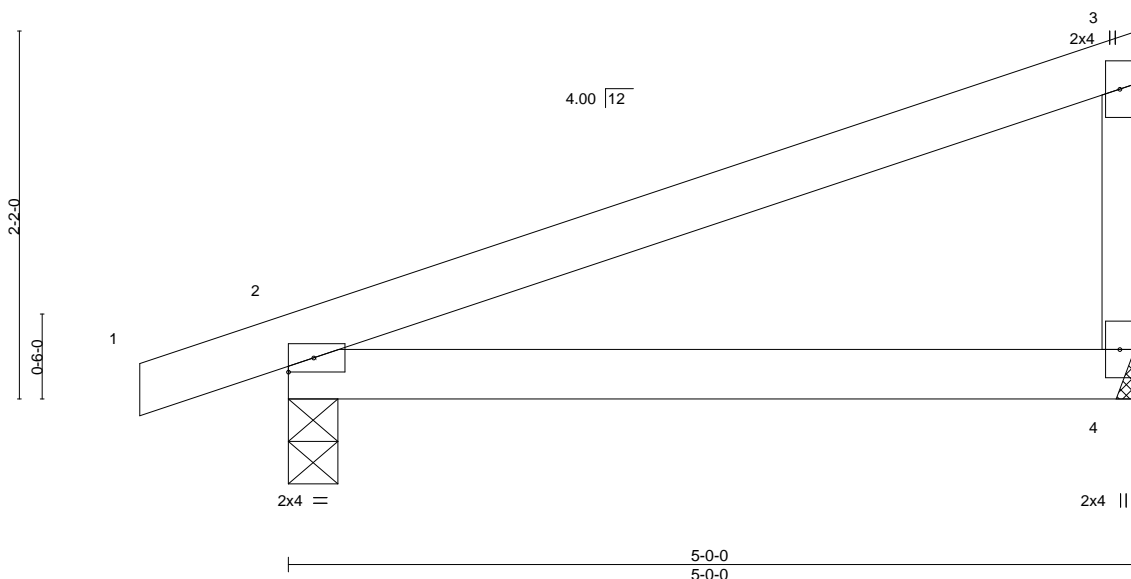
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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job 400279	Truss J4	Truss Type Jack-Closed	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI 06/02/2020		Lot 62 MN Job Reference (optional) 8.240 s ID:elVztmttrvqeWtykiM9UhzAKds-AE2cn4ThxVZu7uGb5IEvBlkyA5t9qYub8bXW6dySCak
Wheeler Lumber, Waverly, KS 66871			8.240 s ID:elVztmttrvqeWtykiM9UhzAKds-AE2cn4ThxVZu7uGb5IEvBlkyA5t9qYub8bXW6dySCak		



Scale = 1:13.6

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 0.39	Vert(LL)	-0.03	2-4	>999	360	MT20	197/144
BCLL 10.0	Lumber DOL	1.15	BC 0.23	Vert(CT)	-0.06	2-4	>933	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: 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 5-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 4=206/Mechanical, 2=293/0-3-8
Max Horz 2=84(LC 5)
Max Uplift 4=-45(LC 8), 2=-81(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
- 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, 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.



October 18, 2019

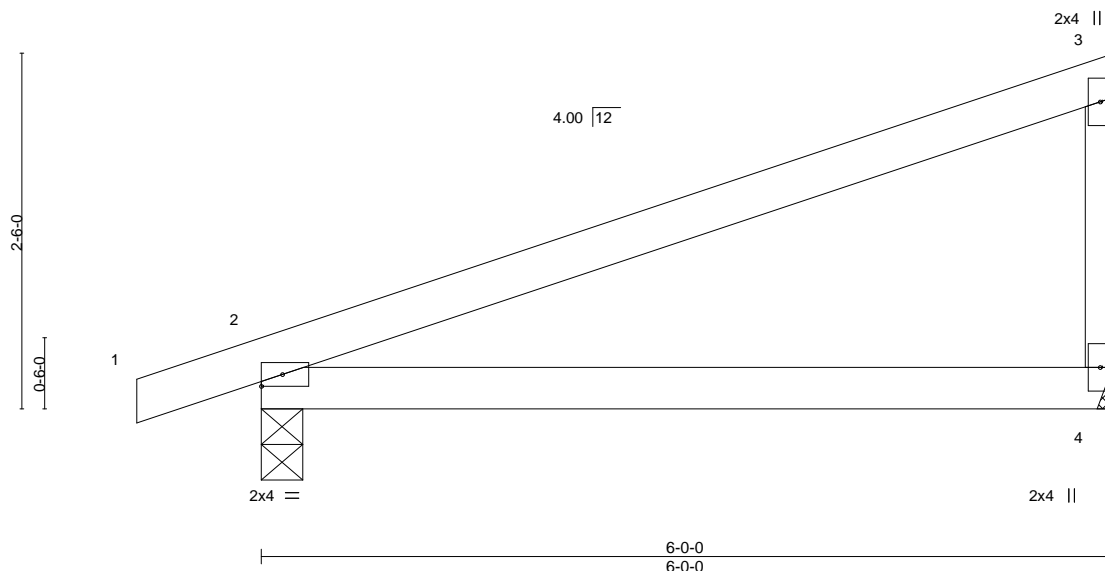
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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	<div>CONSTRUCTION</div> <div>AS NOTED ON PLANS REVIEW</div> <div>DEVELOPMENT SERVICES</div> <div>LEE'S SUMMIT, MISSOURI</div>			Ply	Lot 62 MN
400279	J5	Jack-Closed				1	I38965489
Wheeler Lumber,		Waverly, KS 66871	Job Reference (optional)				
			8.240 s Jul 14 2019 MiTek Industries, Inc. Fri Oct 18 10:31:28 2019 Page 1				
			ID:elVzmttrqeWtykiM9UhzAKds-eQc__PUJioik2rofS18kzG4WVBWZ?8INFH3e3ySCaj				
			06/02/2019				



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 0.61	Vert(LL)	-0.07 2-4	>999	360	MT20	197/144
BCLL 10.0	Lumber DOL	1.15	BC 0.35	Vert(CT)	-0.13 2-4	>526	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: 17 lb	FT = 10%

LUMBER-

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

BRACING-

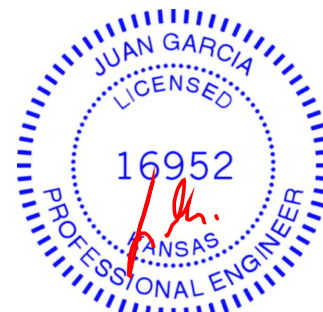
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 4=252/Mechanical, 2=337/0-3-8
Max Horz 2=98(LC 5)
Max Uplift 4=55(LC 8), 2=-88(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
- 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, 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.



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16023 Swingley Ridge Rd
Chesterfield, MO 63017

			<div>RELEASE FOR CONSTRUCTION</div> <div>AS NOTED ON PLANS REVIEW</div> <div>DEVELOPMENT SERVICES</div> <div>LEE'S SUMMIT, MISSOURI</div> <div>06/02/2020</div>					
Job	Truss	Truss Type	Girder	Ply	Lot 62 MN	I38965490		
400279	J6	Diagonal Hip		1		Job Reference (optional)		
Wheeler Lumber,		Waverly, KS 66871		8,240 s	Jul 14 2019 MiTek Industries, Inc. Fri Oct 18 10:31:29 2019 Page 1			
				ID:elVzmttrvqeWtykiiM9UhzAKds-7d9MCIUxT6qbMCQ_CAGNGApJQvZIISoucV0dAVySCai				
		-1-6-15		5-3-4				
		1-6-15		5-3-4				

Scale = 1:14.5

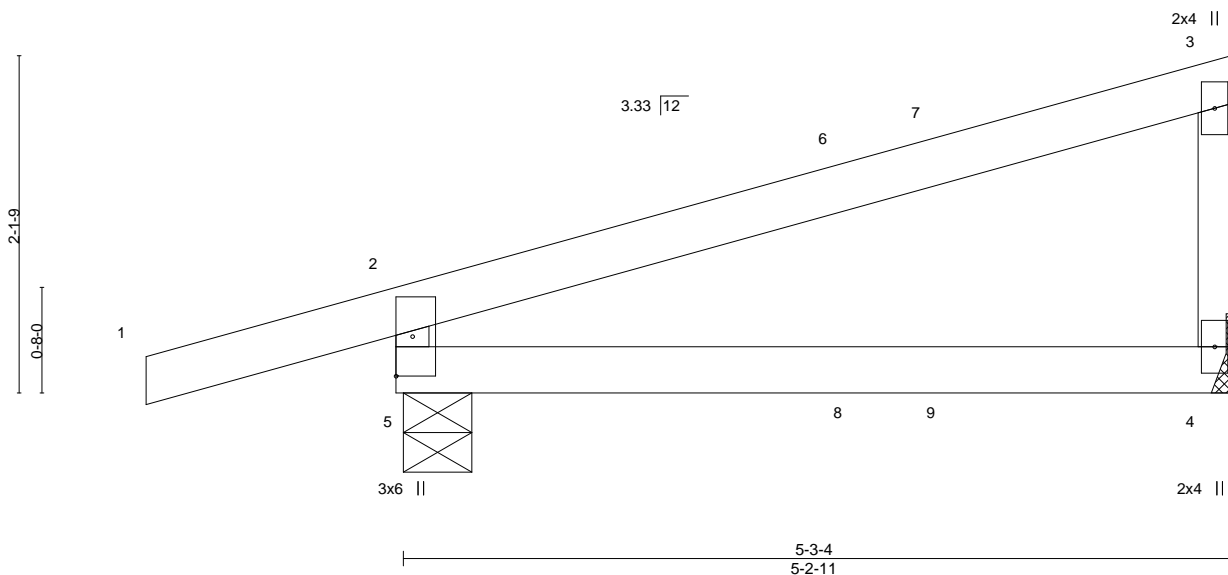


Plate Offsets (X,Y)--		[2:0-0-6,0-1-4], [5:0-0-0,0-1-4]									
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc)	l/defl	L/d	PLATES	GRIP	
TCLL 25.0		Plate Grip DOL 1.15		TC 0.34		Vert(LL) -0.03	4-5	>999	360	MT20	197/144
TCDL 10.0		Lumber DOL 1.15		BC 0.23		Vert(CT) -0.05	4-5	>999	240		
BCLL 0.0 *		Rep Stress Incr NO		WB 0.00		Horz(CT) 0.00	4	n/a	n/a		
BCDL 10.0		Code IRC2018/TPI2014		Matrix-R		Wind(LL) 0.01	4-5	>999	240	Weight: 16 lb	FT = 10%

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 5-3-4 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(lb/size) 5=365/0-5-3, 4=208/Mechanical
Max Horz 5=86(LC 7)
Max Uplift 5=120(LC 4), 4=43(LC 8)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-5=-322/154

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=120.
- This truss 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) 59 lb down and 28 lb up at 2-11-5, and 94 lb down and 63 lb up at 3-6-6 on top chord, and 2 lb down and 1 lb up at 2-11-5, and 11 lb down at 3-6-6 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, 4-5=-20
Concentrated Loads (lb)
Vert: 8=1(F)



October 18,2019

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	Truss	Truss Type	<div style="text-align: center;"> RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI </div>		Ply	Lot 62 MN
400279	J6A	Diagonal Hip	Girder		1	I38965491
Wheeler Lumber, Waverly, KS 66871				8.240 s		Job Reference (optional)
				Jul 14 2019 MiTek Industries, Inc. Fri Oct 18 10:31:30 2019 Page 1		
				ID:elVzmtmtrvqeWtykiIM9UhZAKds-bpjlP5VZEQyS_M?AmtncpOLUAJu_1ue2qZmAjyySCah		
				06/02/2020		
				5-3-4		
				5-3-4		

Scale = 1:14.5

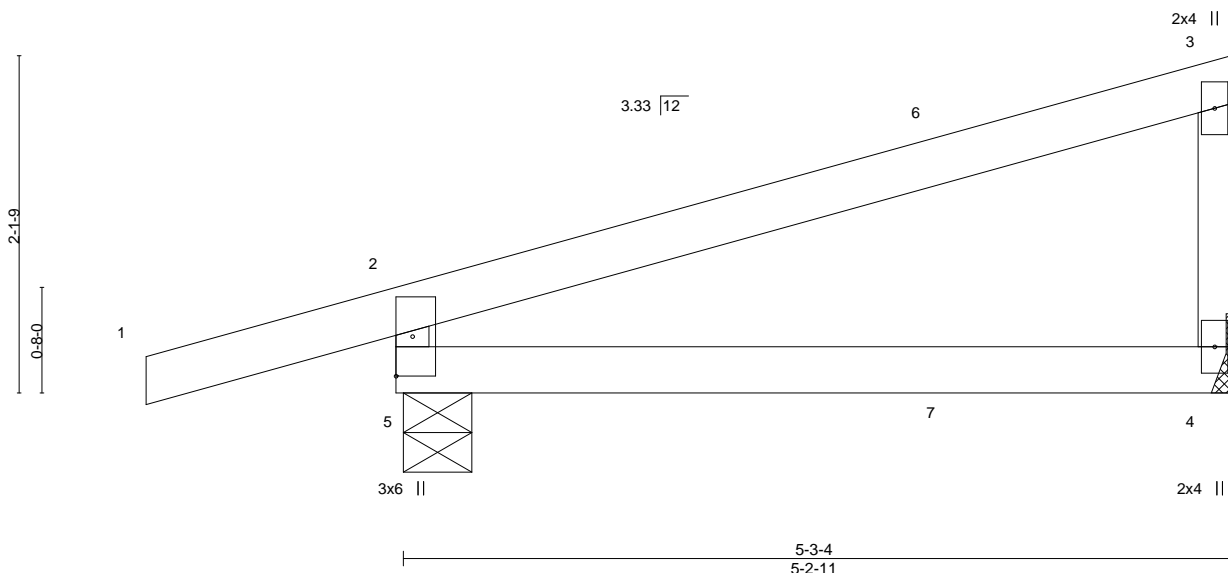


Plate Offsets (X,Y)--		[2:0-0-6,0-1-4], [5:0-0-0,0-1-4]	
LOADING (psf)	SPACING-	2-0-0	CSI.
TCLL 25.0	Plate Grip DOL	1.15	TC 0.34
TCDL 10.0	Lumber DOL	1.15	BC 0.23
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.00
BCDL 10.0	Code IRC2018/TPI2014		Matrix-R
			DEFL.
			in (loc) l/defl L/d
			Vert(LL) -0.03 4-5 >999 360
			Vert(CT) -0.05 4-5 >999 240
			Horz(CT) 0.00 4 n/a n/a
			Wind(LL) 0.01 4-5 >999 240
			PLATES
			MT20
			GRIP
			197/144
			Weight: 16 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 5-3-4 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(lb/size) 5=365/0-5-3, 4=208/Mechanical
 Max Horz 5=86(LC 5)
 Max Uplift 5=120(LC 4), 4=43(LC 8)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-5=-322/154

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=120.
- This truss 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) 94 lb down and 63 lb up at 3-6-6 on top chord, and 11 lb down at 3-6-6 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, 4-5=-20



October 18,2019

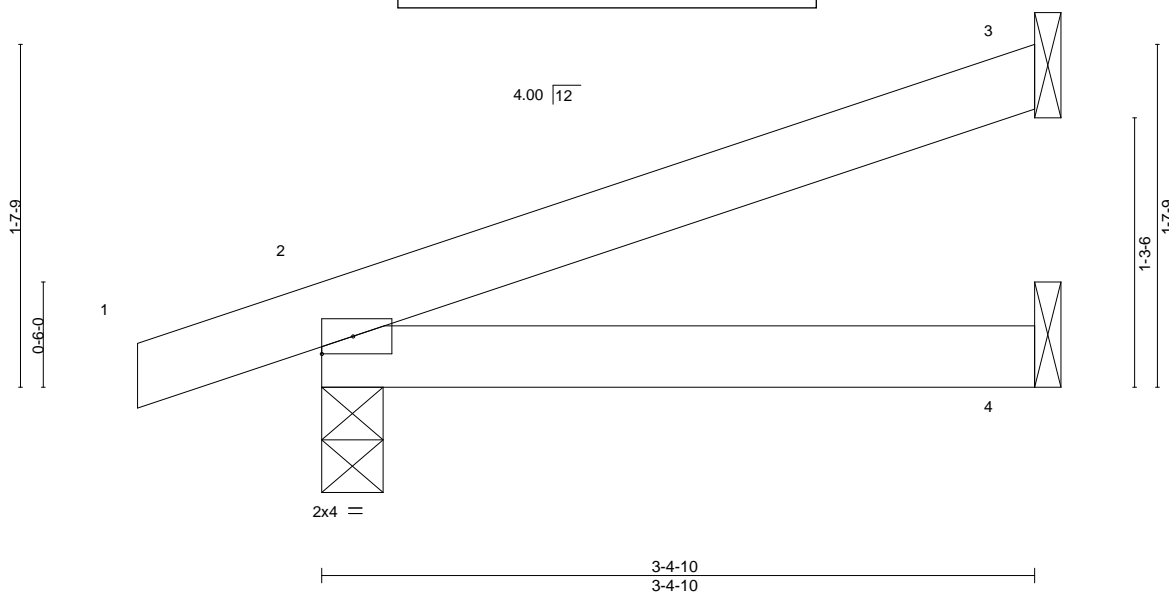
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

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	Truss	Truss Type	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI 06/02/2019			Lot 62 MN	I38965492
400279	J7	Jack-Open				Job Reference (optional)	
Wheeler Lumber, Waverly, KS 66871			8.240 s ID:eIVztmttrvqeWtykiiM9UhzAKds-bpiIP5VZEQyS_M?AmtncpOLXGJw_1ue2qZmAjyySCah				
			-0-10-8 0-10-8				



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 0.15	Vert(LL)	-0.01	2-4	>999	360	MT20	197/144
BCDL 10.0	Lumber DOL	1.15	BC 0.10	Vert(CT)	-0.01	2-4	>999	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	-0.00	3	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-P	Wind(LL)	0.00	2	****	240	Weight: 9 lb	FT = 10%

LUMBER-

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

BRACING-

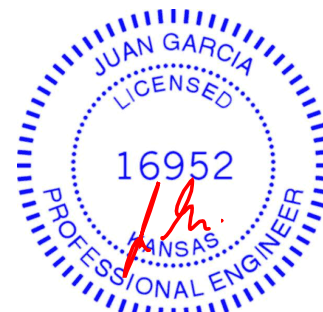
TOP CHORD Structural wood sheathing directly applied or 3-4-10 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 3=100/Mechanical, 2=226/0-3-8, 4=32/Mechanical
Max Horz 2=58(LC 4)
Max Uplift 3=-53(LC 8), 2=-66(LC 4)
Max Grav 3=100(LC 1), 2=226(LC 1), 4=64(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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 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.



October 18, 2019

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job 400279	Truss J8	Truss Type Jack-Open	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI		Lot 62 MN 138965493
Wheeler Lumber, Waverly, KS 66871			8.240 s Jul 14 2019 MiTek Industries, Inc. Fri Oct 18 10:31:31 2019 Page 1 ID:eIVzmttrvqeWtykiIM9UhzAKds-3?H7cRWC?j4JbWaMKalrLbujGjHvMltB3DVjFOySCag		
			0-10-8 06/02/2020 1-7-2 1-7-2		

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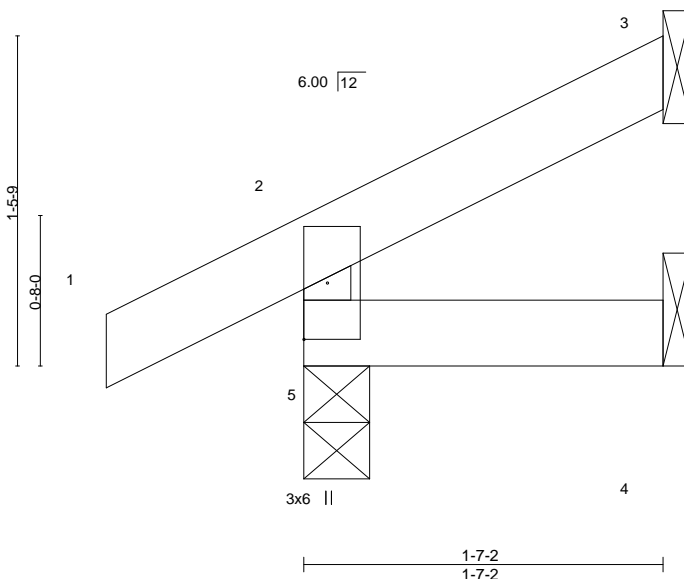


Plate Offsets (X,Y)--		[2:0-0-10,0-1-4], [5:0-0-0,0-1-4]	
LOADING (psf)	SPACING-	2-0-0	CSI.
TCLL 25.0	Plate Grip DOL	1.15	TC 0.07
TCDL 10.0	Lumber DOL	1.15	BC 0.02
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00
BCDL 10.0	Code	IRC2018/TPI2014	Matrix-R
			DEFL. in (loc) l/defl L/d
			Vert(LL) -0.00 5 >999 360
			Vert(CT) -0.00 5 >999 240
			Horz(CT) -0.00 3 n/a n/a
			Wind(LL) 0.00 5 >999 240
			PLATES GRIP
			MT20 197/144
			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 1-7-2 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 5=158/0-3-8, 3=32/Mechanical, 4=11/Mechanical
 Max Horz 5=41(LC 8)
 Max Uplift 5=25(LC 8), 3=25(LC 8)
 Max Grav 5=158(LC 1), 3=32(LC 1), 4=27(LC 3)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate 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.



October 18,2019

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16023 Swingley Ridge Rd
 Chesterfield, MO 63017

Job 400279	Truss J9	Truss Type Diagonal Hip	Girder	Ply 1	Lot 62 MN 138965494
Wheeler Lumber, Waverly, KS 66871			<div style="text-align: center;"> RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI </div>		
			8.240 s Jul 14 2019 MiTek Industries, Inc. Fri Oct 18 10:31:31 2019 Page 1 ID:elVzmttrvqeWtykiIM9UhzAKds-3?H7cRWC?j4JbWaMKalrLbucfjCKmLtB3DVjFOySCag <div style="text-align: center;">06/02/2020</div>		

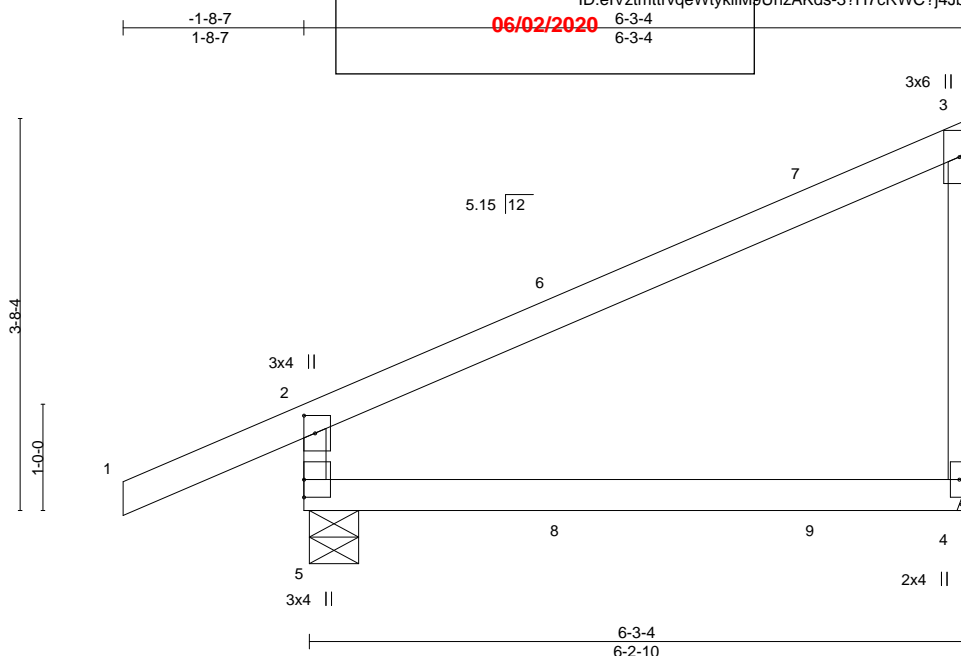


Plate Offsets (X,Y)--		[2:0-2-0,0-1-4]	
LOADING (psf)	SPACING-	2-0-0	CSI.
TCLL 25.0	Plate Grip DOL	1.15	TC 0.55
TCDL 10.0	Lumber DOL	1.15	BC 0.35
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.00
BCDL 10.0	Code IRC2018/TPI2014		Matrix-R
			DEFL. in (loc) l/defl L/d
			Vert(LL) -0.06 4-5 >999 360
			Vert(CT) -0.12 4-5 >609 240
			Horz(CT) -0.00 4 n/a n/a
			Wind(LL) 0.05 4-5 >999 240
			PLATES MT20 GRIP 197/144
			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=418/0-5-9, 4=255/Mechanical
 Max Horz 5=157(LC 22)
 Max Uplift 5=103(LC 8), 4=116(LC 5)

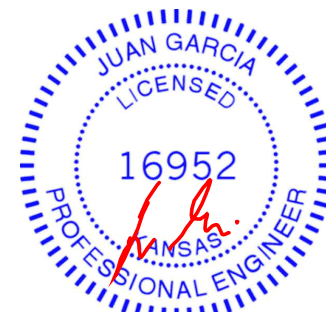
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-5=-367/135

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) 5=103, 4=116.
- This truss 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) 95 lb down and 57 lb up at 2-6-1, and 72 lb down and 34 lb up at 2-6-15, and 87 lb down and 73 lb up at 4-10-15 on top chord, and 4 lb down at 2-6-1, and 11 lb down and 18 lb up at 2-6-15, and 18 lb down and 19 lb up at 4-10-15 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: 8=-0(F=-2, B=2) 9=-1(B)



October 18,2019

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16023 Swingley Ridge Rd
 Chesterfield, MO 63017

			<div>RELEASE FOR CONSTRUCTION</div> <div>AS NOTED ON PLANS REVIEW</div> <div>DEVELOPMENT SERVICES</div> <div>LEE'S SUMMIT, MISSOURI</div>					
Job	Truss	Truss Type	Girder	Ply	Lot 62 MN	I38965495		
400279	J10	Diagonal Hip		1				
Wheeler Lumber, Waverly, KS 66871					Job Reference (optional)			
					Jul 14 2019 MiTek Industries, Inc. Fri Oct 18 10:31:10 2019 Page 1			
					ID:elVztmttrvqeWtykiiM9UhzAKds-AzWBCGG1xGQlaHTKbgQv?AW3pF4DLsh5ESw606ySCb?			
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			1-4-13		5-2-3			

Scale = 1:21.4

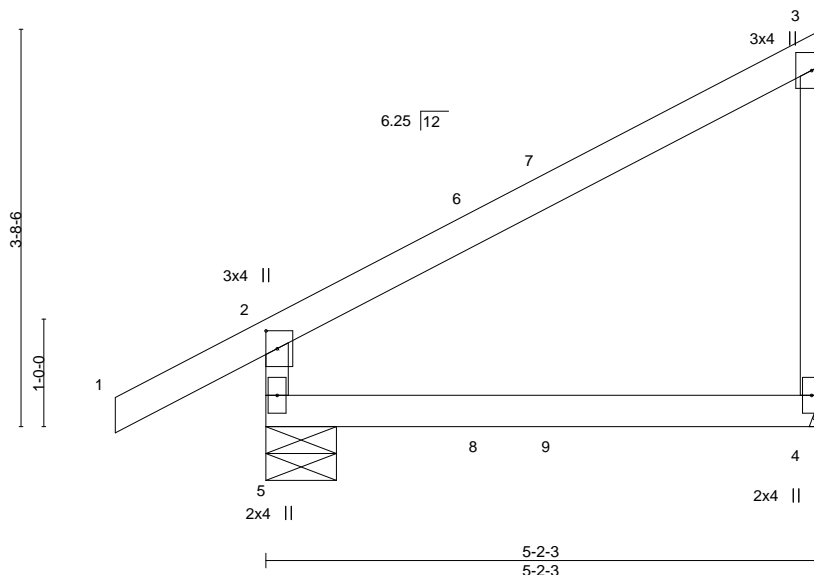


Plate Offsets (X,Y)--		[2:0-2-0,0-1-4]				
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	L/d
TCLL 25.0	Plate Grip DOL	1.15	TC 0.37	Vert(LL)	-0.03 4-5	>999 360
TCDL 10.0	Lumber DOL	1.15	BC 0.23	Vert(CT)	-0.06 4-5	>999 240
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.00	Horz(CT)	-0.00 4	n/a n/a
BCDL 10.0	Code IRC2018/TPI2014		Matrix-R	Wind(LL)	0.03 4-5	>999 240
				PLATES	GRIP	
				MT20	197/144	
				Weight: 17 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 5-2-3 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 5=344/0-7-14, 4=207/Mechanical
 Max Horz 5=149(LC 5)
 Max Uplift 5=-75(LC 8), 4=-76(LC 5)
 Max Grav 5=344(LC 1), 4=219(LC 31)

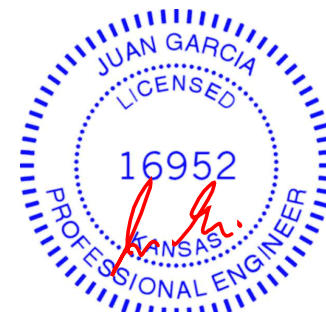
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-5=-302/100

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) 5, 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.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 88 lb down and 53 lb up at 2-0-15, and 79 lb down and 59 lb up at 2-9-1 on top chord, and 6 lb down and 11 lb up at 2-0-15, and 10 lb down and 18 lb up at 2-9-1 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
 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=1(B) 9=1(F)



October 18,2019

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
400279

Truss
J11

Truss Type
Jack-Open

Wheeler Lumber,
Waverly, KS 66871

**RELEASE FOR
CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI**

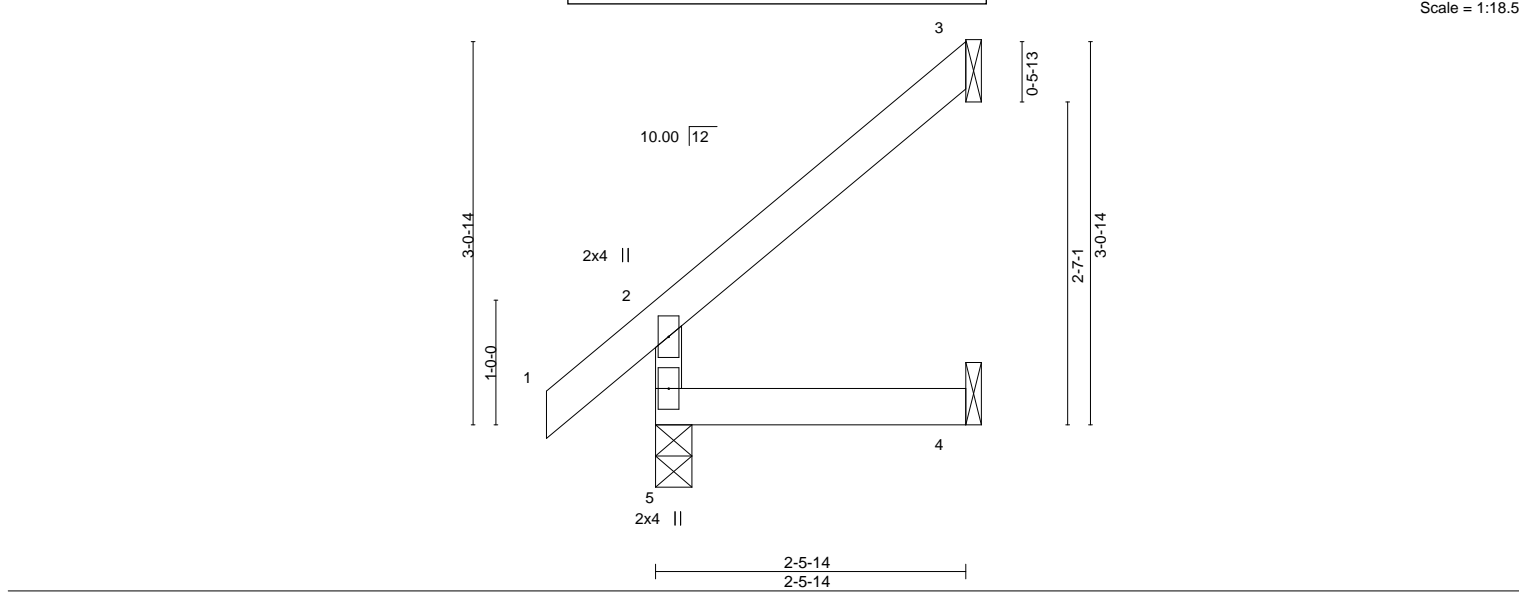
06/02/2020

Ply
1

Lot 62 MN
I38965496

Job Reference (optional)

8.240 s Jul 14 2019 MiTek Industries, Inc. Fri Oct 18 10:31:11 2019 Page 1
 ID:elVzmttrvqeWtykiim9UhzAKds-e94ZQbGfiaY9CR2W9Ox8XN3lQfR04JxFT6fgZYySCb_



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 0.12	Vert(LL)	0.00	4-5	>999	240	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.07	Vert(CT)	-0.00	4-5	>999	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	-0.01	3	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-R						Weight: 9 lb	FT = 10%

LUMBER-		BRACING-	
TOP CHORD 2x4 SPF No.2		TOP CHORD	Structural wood sheathing directly applied or 2-5-14 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=187/0-3-8, 3=67/Mechanical, 4=24/Mechanical
 Max Horz 5=97(LC 8)
 Max Uplift 3=-70(LC 8), 4=-6(LC 8)
 Max Grav 5=187(LC 1), 3=78(LC 15), 4=45(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.
 - 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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06/02/2020

Diagram illustrating a structural truss system with dimensions and labels:

- Dimensions:**
 - Vertical dimension on the left: 3-9.5
 - Horizontal dimension on the left: 1-0.0
 - Horizontal dimension at the bottom: 3-4.0
 - Vertical dimension on the right: 3-3.8
- Labels and Components:**
 - 1:** Bottom-left support (pin support).
 - 2:** Top-left support (roller support).
 - 3:** Top-right support (roller support).
 - 4:** Bottom-right support (pin support).
 - 5:** Central vertical member.
 - 2x4 ||:** Two vertical members, each labeled "2x4 ||".
 - 10.00 | 12:** Dimension indicating a length of 10.00 units and a width of 12 units.

LUMBER-

BRACING-

REACTIONS. (lb/size) 5=222/0-3-8, 3=97/Mechanical, 4=35/Mechanical
Max Horz 5=88(LC 8)
Max Uplift 3=59(LC 8)
Max Grav 5=222(LC 1), 3=107(LC 13), 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); 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.
- 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.



October 18, 2019



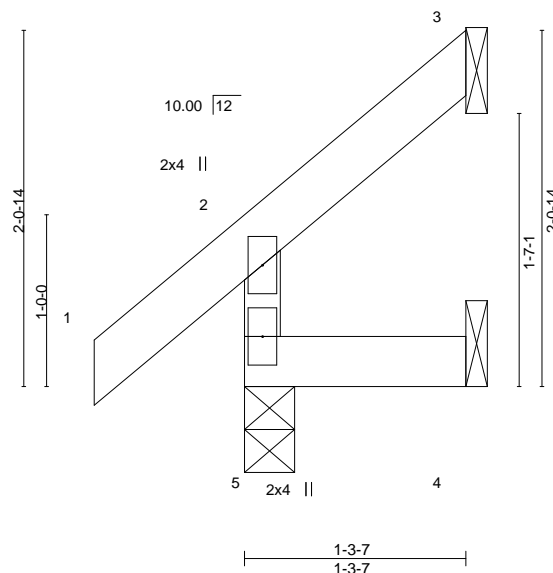
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall 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	Truss	Truss Type	<div>CONSTRUCTION</div> <div>AS NOTED ON PLANS REVIEW</div> <div>DEVELOPMENT SERVICES</div> <div>LEE'S SUMMIT, MISSOURI</div> <div>8.240 s</div> <div>Jul 14 2019 MiTek Industries, Inc. Fri Oct 18 10:31:12 2019 Page 1</div> <div>M9UhzAKds-6LexdxHHTuh0qbdjj5TN4bcT03oqplAOhmPD4_ySCaz</div> <div>Lot 62 MN</div> <div>I38965498</div>		
400279	J13	Jack-Open	1	1	Job Reference (optional)
Wheeler Lumber,		Waverly, KS 66871			

Scale = 1:13.4



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 0.07	Vert(LL)	0.00	5	>999	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.03	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					Weight: 5 lb	FT = 10%

LUMBER-

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

BRACING-

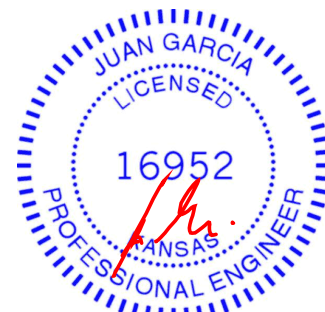
TOP CHORD Structural wood sheathing directly applied or 1-3-7 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 5=150/0-3-8, 3=16/Mechanical, 4=8/Mechanical
 Max Horz 5=58(LC 8)
 Max Uplift 3=-36(LC 8), 4=-12(LC 8)
 Max Grav 5=150(LC 1), 3=27(LC 15), 4=22(LC 3)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate 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.
- 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.



October 18, 2019

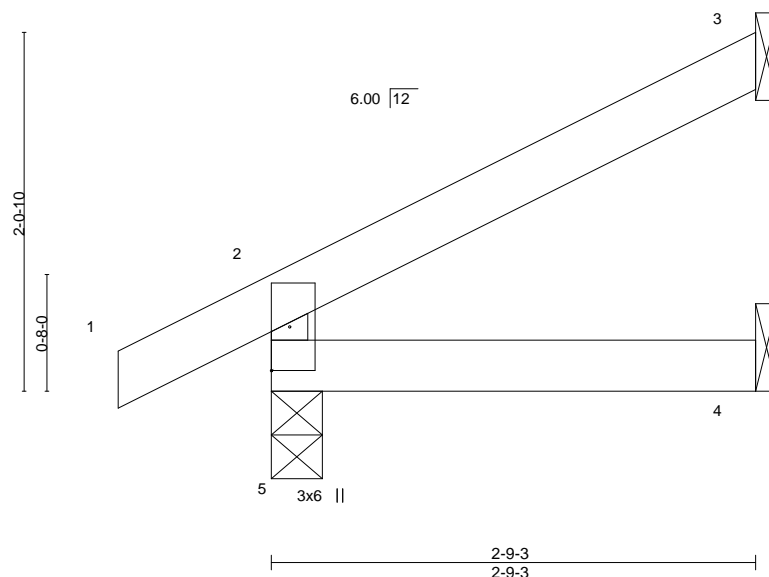
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

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

			<div>RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI</div>					
Job	Truss	Truss Type	On Ply	Lot 62 MN	I38965499			
400279	J14	Jack-Open	11		Job Reference (optional)			
Wheeler Lumber, Waverly, KS 66871			8.240 sq ft				Jul 14 2019 MiTek Industries, Inc. Fri Oct 18 10:31:12 2019 Page 1	
			ID: e1VzmttrvqeWtykiM9UhzAKds-6LexdxHHTuh0qbdjj5TN4bcTn3oPpIAOhmPD4_ySCaz					
			06/02/2020					
			2-9-3					
			2-9-3					



Scale = 1:13.2

Plate Offsets (X,Y)--		[2:0-0-10,0-1-4], [5:0-0-0,0-1-4]	
LOADING (psf)	SPACING-	CSI.	DEFL.
TCLL 25.0	Plate Grip DOL 1.15	TC 0.08	in (loc) l/defl L/d
TCDL 10.0	Lumber DOL 1.15	BC 0.06	Vert(LL) -0.00 4-5 >999 360
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Vert(CT) -0.00 4-5 >999 240
BCDL 10.0	Code IRC2018/TPI2014	Matrix-R	Horz(CT) -0.00 3 n/a n/a
			Wind(LL) 0.00 4-5 >999 240
			PLATES GRIP
			MT20 197/144
			Weight: 8 lb FT = 10%

LUMBER-

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

BRACING-

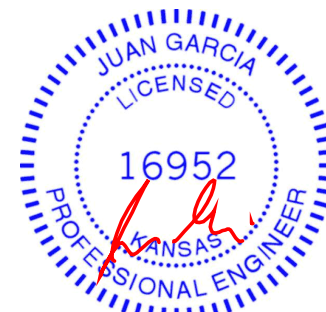
TOP CHORD Structural wood sheathing directly applied or 2-9-3 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 5=198/0-3-8, 3=77/Mechanical, 4=27/Mechanical
 Max Horz 5=64(LC 8)
 Max Uplift 5=26(LC 8), 3=47(LC 8)
 Max Grav 5=198(LC 1), 3=77(LC 1), 4=49(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.



October 18, 2019

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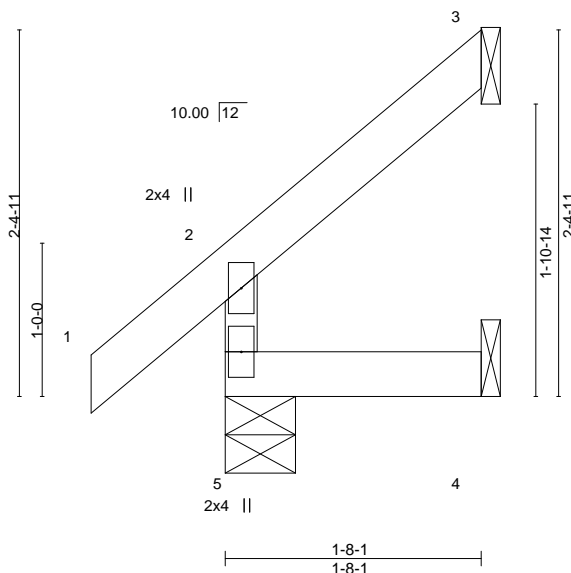
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16023 Swingley Ridge Rd
 Chesterfield, MO 63017

Job	Truss	Truss Type	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI		Ply	Lot 62 MN	I38965500
400279	J15	Jack-Open	1		1	Job Reference (optional)	
Wheeler Lumber,		Waverly, KS 66871	8.240 s Jul 14 2019 MiTek Industries, Inc. Fri Oct 18 10:31:13 2019 Page 1				
			ID: eIVzmttrvqeWtykiiM9UhzAKds-bYCJrHlvEBptRICvGo_cdo8ebS8wYQXwQ8mcRySCay				
			-0-10-8 0-10-8				
			06/02/2020				
			1-8-1				

Scale = 1:15.0



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 0.08	Vert(LL)	0.00 5	>999	240	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.04	Vert(CT)	-0.00 5	>999	180		
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					Weight: 6 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 1-8-1 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 5=160/0-5-8, 3=35/Mechanical, 4=13/Mechanical
 Max Horz 5=71(LC 8)
 Max Uplift 3=-48(LC 8), 4=-9(LC 8)
 Max Grav 5=160(LC 1), 3=46(LC 15), 4=29(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.
- 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.



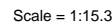
October 18, 2019

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16023 Swingley Ridge Rd
 Chesterfield, MO 63017

Weight: 11 lb FT = 10%

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

(lb/size) 5=162/0-5-9, 3=39/Mechanical, 4=11/Mechanical
Max Horz 5=96(LC 12)
Max Uplift 5=-88(LC 12), 3=-65(LC 12), 4=-3(LC 19)
Max Grav 5=162(LC 1), 3=39(LC 1), 4=47(LC 3)

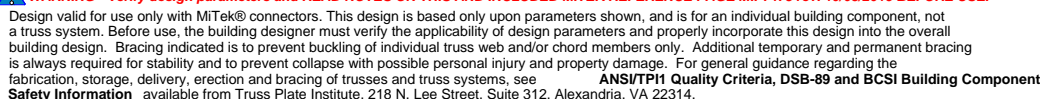
(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; 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, 4.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 36 lb down and 14 lb up at -1-8-7, and 36 lb down and 14 lb up at -1-8-7 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).

1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Concentrated Loads (lb)
Vert: 1=-54(F=-27, B=-27)
Trapezoidal Loads (plf)
Vert: 1=-0(F=35, B=35)-to-2=-32(F=19, B=19), 2=-2(F=34, B=34)-to-3=-60(F=5, B=5), 5=-0(F=10, B=10)-to-4=-17(F=1, B=1)

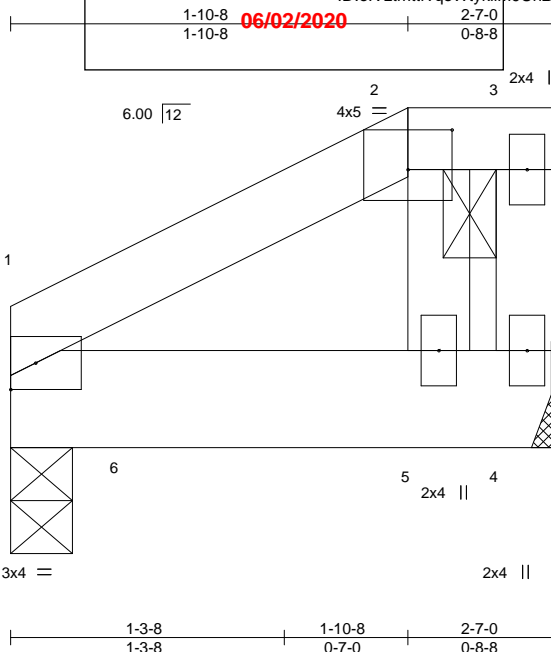


October 18, 2019



Job	Truss	Truss Type	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI			Lot 62 MN	I38965504
400279	J19	Jack-Closed Girder				8.240 s	

Wheeler Lumber, Waverly, KS 66871



Scale = 1:10.9

Plate Offsets (X,Y)--		[2:0-2-8,0-2-4]									
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 0.28		Vert(LL)	-0.00 1-5	>999	360	MT20	197/144
TCDL 10.0		Lumber DOL	1.15	BC 0.18		Vert(CT)	-0.01 1-5	>999	240		
BCLL 0.0 *		Rep Stress Incr	NO	WB 0.01		Horz(CT)	0.00 4	n/a	n/a		
BCDL 10.0		Code IRC2018/TPI2014		Matrix-S		Wind(LL)	0.00 5	>999	240	Weight: 11 lb	FT = 10%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 2-7-0 oc purlins, except end verticals, and 2-0-0 oc purlins: 2-3.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 1=842/0-3-8, 4=308/Mechanical
 Max Horz 1=51(LC 5)
 Max Uplift 1=37(LC 8), 4=71(LC 5)
 Max Grav 1=860(LC 2), 4=308(LC 1)

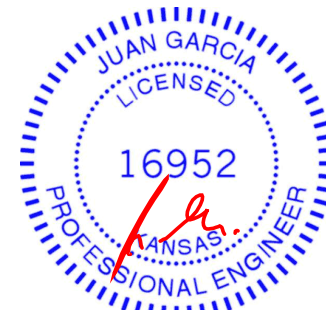
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

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
- 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) 1, 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) 34 lb down and 59 lb up at 2-5-4 on top chord, and 986 lb down and 38 lb up at 0-7-12, and 3 lb down and 2 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

- Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (plf)
 Vert: 1-2=-70, 2-3=-70, 1-4=-20
 Concentrated Loads (lb)
 Vert: 5=1(F) 6=-945(B)



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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	0.08	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	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: 6 lb	FT = 10%

BRACING- TOP CHORD	Structural wood sheathing directly applied or 1-8-7 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

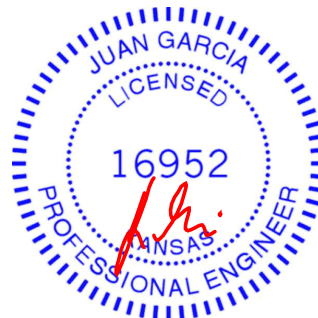
(lb/size) 5=75/0-4-9, 3=20/Mechanical, 4=6/Mechanical
Max Horz 5=46(LC 7)
Max Uplift 5=-103(LC 6), 3=-13(LC 8)
Max Grav 5=75(LC 1), 3=20(LC 1), 4=23(LC 3)

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; TCDD=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=103.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 8 lb down and 3 lb up at -1-2-14 , and 8 lb down and 3 lb up at -1-2-14 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=-13(F=-6, B=-6)
 Trapezoidal Loads (plf)
 Vert: 1=0(F=35, B=35)-to-2=-23(F=24, B=24), 2=-23(F=24, B=24)-to-3=-50(F=10, B=10), 5=-6(F=7, B=7)-to-4=-14(F=3, B=3)



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Job	Truss	Truss Type	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI			Lot 62 MN	I38965506
400279	J21	Jack-Open		Ply	1	Job Reference (optional)	
Wheeler Lumber, Waverly, KS 66871			8.240 s Jul 14 2019 MiTek Industries, Inc. Fri Oct 18 10:31:21 2019 Page 1				
			ID:elVzmttrvqeWtykiM9UhzAKds-M4gLW0OwMfpkPzpRkU7UxUU?nhtEQqPjmf4BuzySCaq				
			0-10-8 06/02/2020 1-3-8 1-3-8				

Scale = 1:9.4

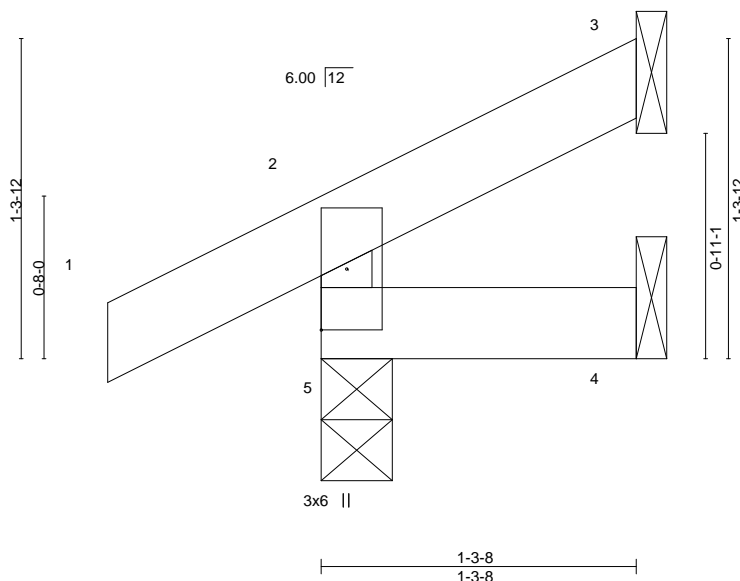


Plate Offsets (X,Y)-- [2:0-0-10,0-1-4], [5:0-0-0,0-1-4]									
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d		PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.07	Vert(LL)	-0.00 5 >999 360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.01	Vert(CT)	-0.00 5 >999 240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.00 3 n/a n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-R		Wind(LL)	0.00 5 >999 240	Weight: 5 lb	FT = 10%

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 1-3-8 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(lb/size) 5=150/0-3-8, 3=17/Mechanical, 4=7/Mechanical
 Max Horz 5=35(LC 8)
 Max Uplift 5=26(LC 8), 3=18(LC 8)
 Max Grav 5=150(LC 1), 3=17(LC 1), 4=21(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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 3.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



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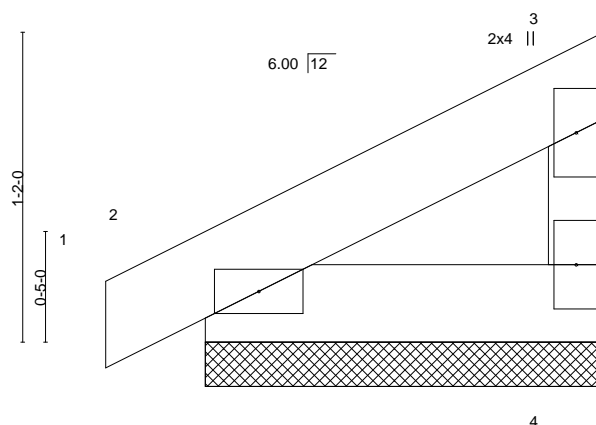


16023 Swingley Ridge Rd
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Job	Truss	Truss Type	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI	Ply	Lot 62 MN
400279	J22	JACK-CLOSED SUPPORT		1	I38965507
Wheeler Lumber, Waverly, KS 66871		Job Reference (optional)			

06/02/2019

Scale = 1:8.7



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 0.03	Vert(LL)	-0.00	1	n/r	120	MT20
TCDL 10.0	Lumber DOL	1.15	BC 0.02	Vert(CT)	0.00	1	n/r	120	197/144
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						
								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 1-6-0 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=35(LC 5)
Max Uplift 4=-15(LC 8), 2=-17(LC 8)

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.



October 18, 2019

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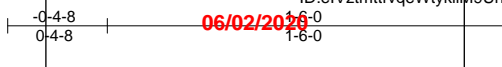


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Job	Truss	Truss Type	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI ID: eIVztmttrvqeWtykiM9UhZAKds-qGEjkMPY7yxb07OelBejUi0BA4DO9Hfs?JqIRPySCap			Lot 62 MN	I38965508
400279	J23	JACK-CLOSED				Job Reference (optional)	

Wheeler Lumber, Waverly, KS 66871

8.240 s Jul 14 2019 MiTek Industries, Inc. Fri Oct 18 10:31:22 2019 Page 1



Scale = 1:8.7

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 0.02	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: 5 lb	FT = 10%

LUMBER-

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

BRACING-

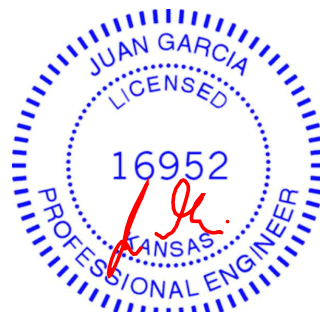
TOP CHORD Structural wood sheathing directly applied or 1-6-0 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 4=57/Mechanical, 2=94/0-3-8
 Max Horz 2=35(LC 5)
 Max Uplift 4=-15(LC 8), 2=-17(LC 8)

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.
- 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.



October 18, 2019

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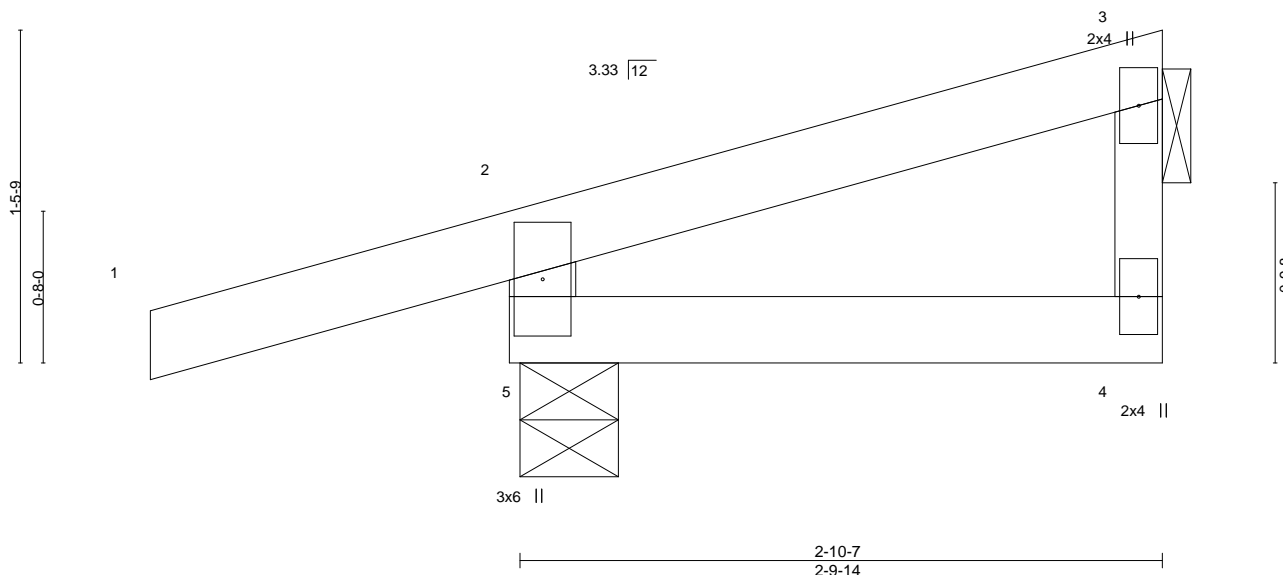
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			<div>RELEASE FOR CONSTRUCTION</div> <div>AS NOTED ON PLANS REVIEW</div> <div>DEVELOPMENT SERVICES</div> <div>LEE'S SUMMIT, MISSOURI</div>					
Job	Truss	Truss Type	Girder	Ply	Lot 62 MN	I38965509		
400279	J24	Diagonal Hip		1	Job Reference (optional)			
Wheeler Lumber, Waverly, KS 66871		8.240 s		Jul 14 2019 MiTek Industries, Inc. Fri Oct 18 10:31:24 2019 Page 1				
		ID:elVzmttrvqeWtykiiM9UhzAKds-mfMT82QpeaBJGRX0QcgBZ76V3uuTdB99SdJsVlySCan						
		-1-6-15 1-6-15		2-10-7 2-10-7				
		06/02/2020						

Scale = 1:10.1



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 0.19	Vert(LL)	-0.00	4-5	>999	360	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.04	Vert(CT)	-0.00	4-5	>999	240		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.00	Horz(CT)	-0.00	4	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-R	Wind(LL)	-0.00	4-5	>999	240	Weight: 10 lb	FT = 10%

LUMBER-

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

BRACING-

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

REACTIONS.

(lb/size) 5=132/0-5-3, 4=22/Mechanical
 Max Horz 5=83(LC 7)
 Max Uplift 5=111(LC 6), 4=36(LC 12)
 Max Grav 5=132(LC 1), 4=41(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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4 except (jt=lb) 5=111.
- This truss 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) 28 lb down and 10 lb up at -1-6-15, and 28 lb down and 10 lb up at -1-6-15 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=-43(F=-21, B=-21)
 Trapezoidal Loads (plf)
 Vert: 1=0(F=35, B=35)-to-2=-30(F=20, B=20), 2=-2(F=34, B=34)-to-3=-49(F=10, B=10), 5=0(F=10, B=10)-to-4=-14(F=3, B=3)



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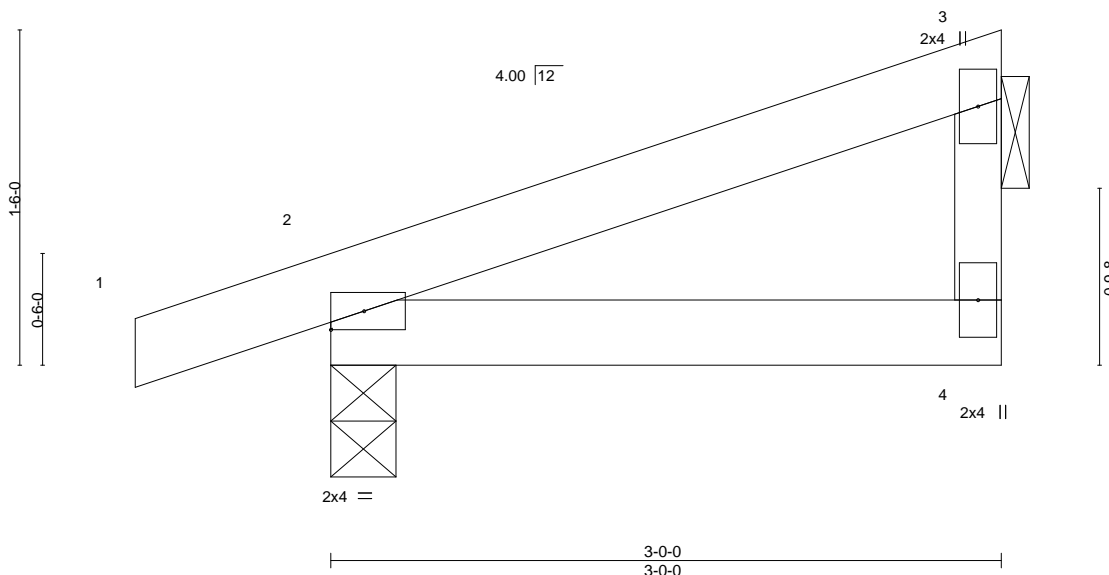
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Job 400279	Truss J25	Truss Type Jack-Closed	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI ID:0wpcF2OVQmpO8KfbvbxszTP7M-mfMT82QpeaBJGRX0QcgBZ76WWut_dB99SdJsVlySCan 06/02/2020		Lot 62 MN Job Reference (optional) 8.240 s Jul 14 2019 MiTek Industries, Inc. Fri Oct 18 10:31:24 2019 Page 1 3-0-0 3-0-0
Wheeler Lumber, Waverly, KS 66871					



Scale = 1:10.3

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 0.10	Vert(LL)	-0.00 2-4	>999	360	MT20	197/144
BCDL 10.0	Lumber DOL	1.15	BC 0.07	Vert(CT)	-0.01 2-4	>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: 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 3-0-0 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 4=110/Mechanical, 2=208/0-3-8
 Max Horz 2=54(LC 5)
 Max Uplift 4=24(LC 8), 2=-70(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.



October 18, 2019

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16023 Swingley Ridge Rd
 Chesterfield, MO 63017

Job 400279	Truss K1	Truss Type Roof Special	<div style="text-align: center;"> RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI 06/02/2020 </div>	Ply 2	Lot 62 MN 138965511 Job Reference (optional) 8.240 s Jul 14 2019 MiTek Industries, Inc. Fri Oct 18 10:31:32 2019 Page 1 ID:elVztmttrvqeWtykiM9UhzAKds-XBrVqnXqm1CADg9Zulq4upRi_6SGVeuKltFHnqyScaf
Wheeler Lumber, Waverly, KS 66871					

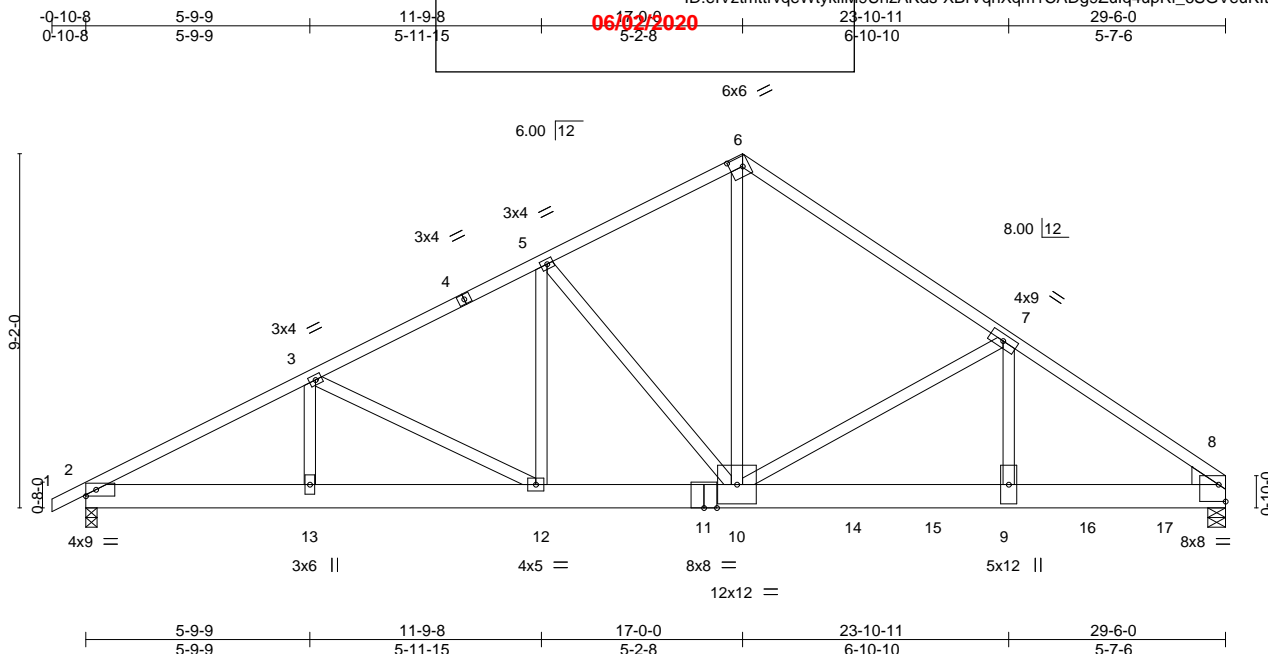


Plate Offsets (X,Y)-- [6:0-3-15,0-3-0], [8:0-1-1,0-0-12], [8:0-7-11,0-1-7], [8:Edge,0-5-4]									
LOADING (psf)		SPACING 2-0-0		CSI		DEFL. in (loc) l/defl L/d		PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.84	Vert(LL)	-0.16 9-10 >999 360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.75	Vert(CT)	-0.29 9-10 >999 240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.66	Horz(CT)	0.04 8 n/a n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-S		Wind(LL)	0.12 9-10 >999 240	Weight: 360 lb	FT = 10%

LUMBER-
 TOP CHORD 2x4 SPF No.2
 BOT CHORD 2x8 SP DSS
 WEBS 2x4 SPF No.2
 WEDGE
 Right: 2x6 SPF No.2

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

REACTIONS. (lb/size) 2=2624/0-3-8, 8=5003/0-5-8
 Max Horz 2=247(LC 5)
 Max Uplift 2=363(LC 8), 8=312(LC 9)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-4868/638, 3-5=-4362/598, 5-6=-4268/637, 6-7=-4565/679, 7-8=-7569/776
 BOT CHORD 2-13=-636/4187, 12-13=-636/4187, 10-12=-485/3817, 9-10=-550/5950, 8-9=-550/5950
 WEBS 3-13=0/272, 3-12=-432/203, 5-12=-396/339, 5-10=-617/533, 6-10=-542/3923, 7-10=-2670/357, 7-9=-105/2922

- 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.
 Bottom chords connected as follows: 2x8 - 2 rows staggered at 0-3-0 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; 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
 - The Fabrication Tolerance at joint 8 = 6%
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=363, 8=312.
 - This truss 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) 2935 lb down and 505 lb up at 19-10-7, 507 lb down and 73 lb up at 21-11-4, 507 lb down and 42 lb up at 23-11-4, and 507 lb down at 25-11-4, and 507 lb down at 27-11-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard
 Continued on page 2



October 18,2019

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MiTek
 16023 Swingley Ridge Rd
 Chesterfield, MO 63017

Job	Truss	Truss Type	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI 06/02/2020		Ply	Lot 62 MN
400279	K1	Roof Special	Girder		2	I38965511
Wheeler Lumber, Waverly, KS 66871			Job Reference (optional)			

8.240 s Jul 14 2019 MiTek Industries, Inc. Fri Oct 18 10:31:32 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: 1-6=-70, 6-8=-70, 2-8=-20
Concentrated Loads (lb)
Vert: 9=-507(F) 14=-2907(F) 15=-507(F) 16=-507(F) 17=-507(F)

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job 400279	Truss K2	Truss Type Roof Special	<div style="text-align: center;"> RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI </div>		Ply 1	Lot 62 MN I38965512
Wheeler Lumber, Waverly, KS 66871			8.240 s Jul 14 2019 MiTek Industries, Inc. Fri Oct 18 10:31:33 2019 Page 1 ID:elVztmttrvqeWtykiiM9UhzAKds-?OPt17XSXLK1rpkIR?LJR0zw4WrqE8XUWX_qJHySCae			
0-10-8 5-9-9 11-9-8 17-9-0 23-10-11 29-6-0 30-4-8 0-10-8 5-9-9 5-11-15 5-2-8 6-10-10 5-7-6 0-10-8			<div style="text-align: center;"> 06/02/2020 </div>			

Scale = 1:60.2

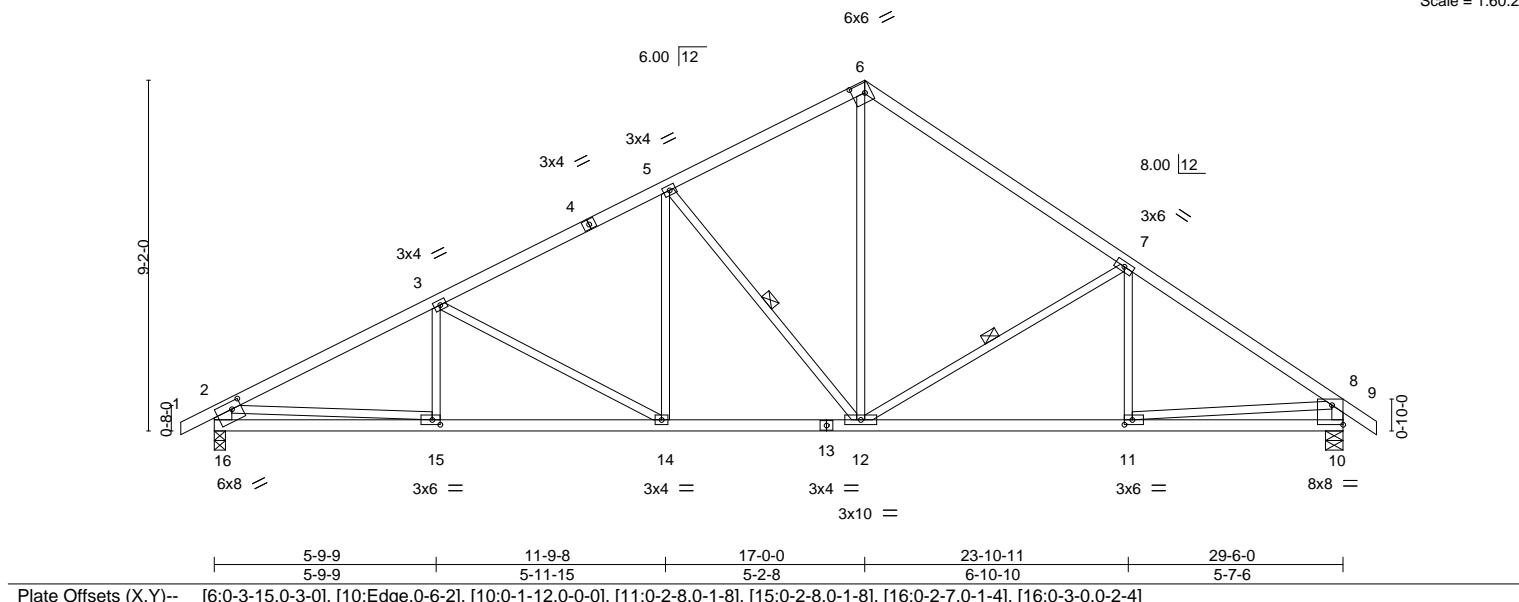


Plate Offsets (X,Y)--		[6:0-3-15,0-3-0], [10:Edge,0-6-2], [10:0-1-12,0-0-0], [11:0-2-8,0-1-8], [15:0-2-8,0-1-8], [16:0-2-7,0-1-4], [16:0-3-0,0-2-4]	
LOADING (psf)	SPACING-	2-0-0	CSI.
TCLL 25.0	Plate Grip DOL	1.15	TC 0.68
TCDL 10.0	Lumber DOL	1.15	BC 0.54
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.50
BCDL 10.0	Code IRC2018/TPI2014		Matrix-S
			DEFL.
			in (loc) l/defl L/d
			Vert(LL) -0.09 14-15 >999 360
			Vert(CT) -0.19 14-15 >999 240
			Horz(CT) 0.05 10 n/a n/a
			Wind(LL) 0.07 14-15 >999 240
			PLATES
			MT20
			GRIP
			197/144
			Weight: 120 lb FT = 10%

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied or 2-2-0 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*	WEBS 1 Row at midpt 5-12, 7-12
2-16: 2x6 SPF No.2, 8-10: 2x4 SPF No.2	

REACTIONS.	(lb/size) 16=1388/0-3-8, 10=1382/0-5-8
	Max Horz 16=270(LC 7)
	Max Uplift 16=201(LC 8), 10=160(LC 9)

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	2-3=-2173/288, 3-5=-1761/264, 5-6=-1292/236, 6-7=-1429/257, 7-8=-1818/197, 2-16=-1326/230, 8-10=-1327/185
BOT CHORD	15-16=-249/545, 14-15=-316/1861, 12-14=-174/1493, 11-12=-76/1434, 10-11=-65/274
WEBS	3-14=-438/161, 5-14=-15/347, 5-12=-681/225, 6-12=-129/859, 7-12=-477/228, 2-15=-67/1321, 8-11=-51/1167

- 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) 16=201, 10=160.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



October 18,2019

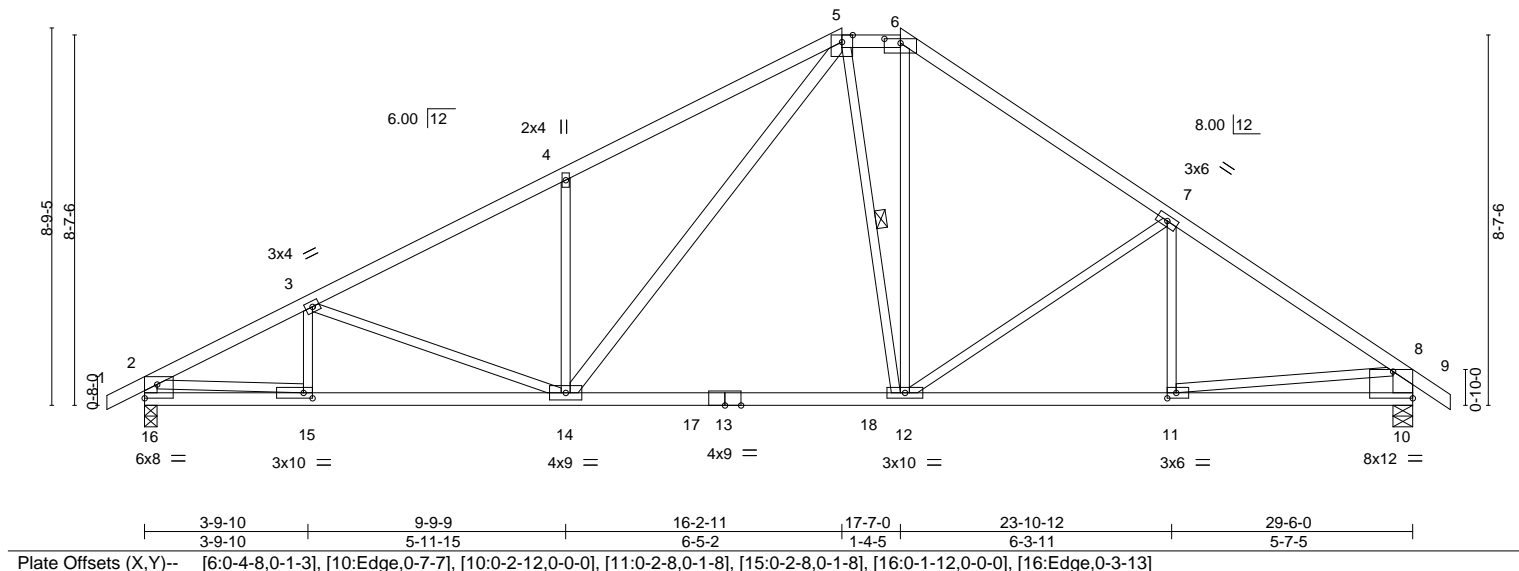
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI			Ply	Lot 62 MN	I38965513
400279	K3	Hip	1			1	Job Reference (optional)	
Wheeler Lumber, Waverly, KS 66871					8,240 sq ft	Jul 14 2019 MiTek Industries, Inc. Fri Oct 18 10:31:34 2019 Page 1		
-0-10-8 0-10-8		3-9-10 3-9-10	9-9-9 5-11-15	16-2-11 6-5-2	17-7-0 1-4-5	ID:eIvZmttrqveWtykiM9UhZAKds-TazFFTY4leSuSzlx?jsYzEW7xw7BzZLdIBKnsjySCad	23-10-12 6-3-11	30-4-8 0-10-8
								Scale = 1:53.6



LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL	25.0	Plate Grip DOL	1.15	TC	0.55	Vert(LL)	-0.20 12-14	I/defl	>999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.78	Vert(CT)	-0.33 12-14	L/d	>999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.59	Horz(CT)	0.05 10		n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-S		Wind(LL)	0.07 14-15		>999	Weight: 128 lb	FT = 10%

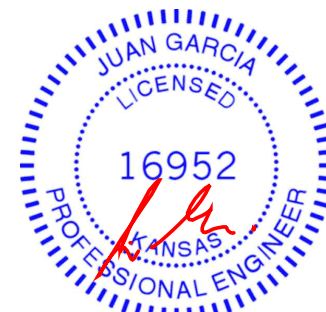
LUMBER-
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x3 SPF No.2 *Except*
5-14,2-16: 2x4 SPF No.2, 8-10: 2x6 SPF No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-4-1 oc purlins, except end verticals, and 2-0-0 oc purlins (5-1-9 max.): 5-6.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 5-12

REACTIONS. (lb/size) 16=1382/0-3-8, 10=1388/0-5-8
Max Horz 16=259(LC 7)
Max Uplift 16=-196(LC 8), 10=-157(LC 9)
Max Grav 16=1436(LC 2), 10=1466(LC 16)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2270/288, 3-4=-2059/267, 4-5=-2065/414, 5-6=-1198/222, 6-7=-1545/233,
7-8=-1857/189, 2-16=-1355/210, 8-10=-1368/186
BOT CHORD 15-16=-188/455, 14-15=-336/1991, 12-14=-44/1218, 11-12=-62/1476, 10-11=-71/313
WEBS 3-14=-259/132, 4-14=-457/260, 5-14=-274/939, 5-12=-338/178, 6-12=-104/638,
7-12=-430/209, 2-15=-177/1602, 8-11=-40/1192

- 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, with BCDL = 10.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 16=196, 10=157.
 - This truss 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.



October 18,2019

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	<div style="text-align: center;"> CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI </div>			Lot 62 MN	I38965514		
400279	K4	Hip	8.240 s	1	1	Job Reference (optional)			
Wheeler Lumber, Waverly, KS 66871			Jul 14 2019 MiTek Industries, Inc. Fri Oct 18 10:31:35 2019 Page 1 ID:eIvZtmtrvqeWtykiiM9UhZAKds-xmXeSpZi3yal47t8ZQNnWR3BiKtVizTn_rTxO9ySCac						
-0-10-8	5-9-8	12-10-11	06/02/2020			20-1-0	25-6-2	29-6-0	30-4-8
0-10-8	5-9-8	7-1-2				7-2-5	5-5-2	3-11-15	0-10-8
									Scale: 1/4" = 1'-0"

The diagram illustrates a roof truss system with the following dimensions and member labels:

- Overall Dimensions:**
 - Left side height: 7'-1.5" (total) and 6'-11.6" (truss height).
 - Right side height: 6'-11.6" (truss height) and 0'-10.0" (base height).
 - Span segments: 0'-8.0" (left overhang), 5'-9.8" (segment 1), 12'-10.11" (segment 2), 20'-1.0" (segment 3), and 29'-6.0" (segment 4).
- Member Labels and Specifications:**
 - Top chord: 6x8 (left), 6x6 (right).
 - Vertical posts: 3x4 (left), 3x6 (middle), 3x10 (right).
 - Diagonal bracing: 3x4 (left), 3x6 (middle), 3x10 (right).
 - Base connections: 6x8 (left), 3x6 (middle), 3x10 (right).

LOADING (psf)	SPACING- 2'-0"	CSI.	DEFL. in (loc)	L/defl L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL 1.15	CS 1.00	Vert(LL) -0.17 9-10	>999 360	MT20	197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.78	Vert(CT) -0.35 9-10	>999 240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.79	Horz(CT) 0.07 9	n/a n/a		
BCDL 10.0	Code IRC2018/TPI2014	Matrix-S	Wind(LL) 0.06 12-13	>999 240	Weight: 115 lb	FT = 10%

TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x3 SPF No.2 *Except*
2-14,7-9: 2x6 SPF No.2

TOP CHORD	Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals, and 2-0-0 oc purlins (2-2-0 max.): 4-5.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	1 Row at midpt 4-10

(lb/size) 14=1384/0-3-8, 9=1384/0-5-8
 Max Horz 14=212(LC 7)
 Max Uplift 14=-175(LC 8), 9=-137(LC 9)
 Max Grav 14=1431(LC 2), 9=1430(LC 2)

TOP CHORD 2-3=-2278/249, 3-4=-1784/190, 4-5=-1332/177, 5-6=-1685/147, 6-7=-475/16,
2-14=-1334/202, 7-9=-417/63

BOT CHORD 13-14=-193/535, 12-13=-249/1975, 10-12=-101/1512, 9-10=-94/1375

WEBS 3-12=-528/216, 4-12=-11/512, 4-10=-340/118, 5-10=-3/505, 2-13=-80/1477,
6-9=-1401/190

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 14=175, 9=137.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 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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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job: 400279

Truss: K5

Truss Type: Hip

Wheeler Lumber, Waverly, KS 66871

RELEASE FOR

CONSTRUCTION

AS NOTED ON PLANS REVIEW

DEVELOPMENT SERVICES

LEE'S SUMMIT, MISSOURI

06/02/2020

Ply: 1

Lot 62 MN

Job Reference (optional)

8.240 s

Jul 14 2019 MiTek Industries, Inc. Fri Oct 18 10:31:36 2019 Page 1

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0-10-8

5-2-0
5-2-0

9-6-11
4-4-10

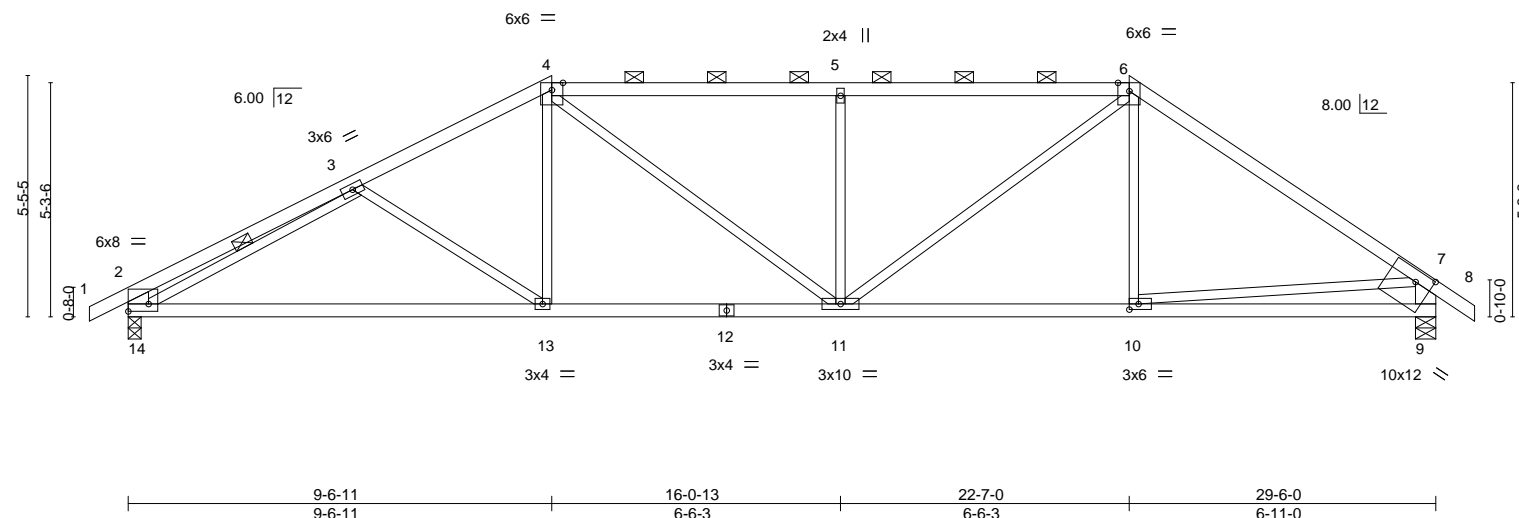
16-0-13
6-6-3

22-7-0
6-6-3

29-6-0
6-11-0

30-4-8
0-10-8

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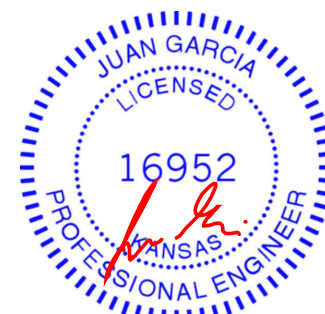
LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL	25.0	Plate Grip DOL	1.15	TC	0.62	Vert(LL)	-0.19 13-14	MT20		197/144	
TCDL	10.0	Lumber DOL	1.15	BC	0.74	Vert(CT)	-0.39 13-14				
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.46	Horz(CT)	0.07 9				
BCDL	10.0	Code IRC2018/TPI2014		Matrix-S		Wind(LL)	0.07 11-13				
								Weight: 112 lb		FT = 10%	

LUMBER-		BRACING-	
TOP CHORD	2x4 SPF No.2	TOP CHORD	Structural wood sheathing directly applied or 3-6-8 oc purlins, except end verticals, and 2-0-0 oc purlins (3-5-8 max.): 4-6.
BOT CHORD	2x4 SPF No.2	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	2x3 SPF No.2 *Except*	WEBS	1 Row at midpt
	2-14,7-9: 2x6 SPF No.2		3-14

REACTIONS.	
(lb/size)	14=1384/0-3-8, 9=1384/0-5-8
Max Horz	14=166(LC 7)
Max Uplift	14=-144(LC 8), 9=-110(LC 9)

FORCES.	
(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.	
TOP CHORD	2-3=-763/104, 3-4=-1926/182, 4-5=-1950/259, 5-6=-1949/259, 6-7=-1774/182, 2-14=-576/135, 7-9=-1322/148
BOT CHORD	13-14=-257/1802, 11-13=-199/1668, 10-11=-84/1360, 9-10=-229/517
WEBS	4-13=0/346, 4-11=-149/475, 5-11=-564/229, 6-11=-203/818, 3-14=-1397/150, 7-10=-220/967

- 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=144, 9=110.
 - This truss 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.



October 18,2019

Job

400279

Truss

K6

Truss Type

Hip Girder

Lot

62 MN

138965516

Wheeler Lumber,

Waverly, KS 66871

0-10-8

6-2-11

12-5-11

18-10-0

25-1-0

29-6-0

30-4-8

0-10-8

6-2-11

6-3-0

6-4-4

6-3-0

4-5-0

0-10-8

06/02/2019

8.240 s

Jul 14 2019

MiTek Industries, Inc.

Fri Oct 18 10:31:38 2019

Page 1

ID:elVzmttrvqeWtykiIM9UhzAKds-MLCm4qbbLtyKxbcjEZwU84himXTKvNdDgpb?UySCaZ

Job Reference (optional)

Scale = 1:51.7

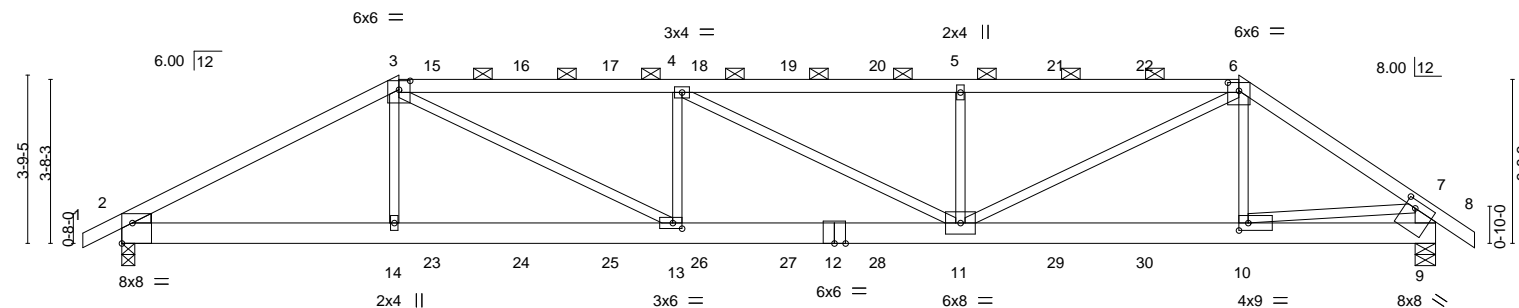


Plate Offsets (X,Y)--		[2:Edge,0-5-8], [2:0-6-3,0-1-7], [2:0-1-7,0-0-1-1], [3:0-3-0,0-2-7], [6:0-3-0,0-2-3], [9:0-2-12,0-2-0], [9:0-2-5,0-1-8], [10:0-2-8,0-2-0], [13:0-2-8,0-1-8]	
LOADING (psf)	SPACING-	2-0-0	CSI.
TCLL 25.0	Plate Grip DOL	1.15	TC 0.94
TCDL 10.0	Lumber DOL	1.15	BC 0.84
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.64
BCDL 10.0	Code IRC2018/TPI2014		Matrix-S
			DEFL.
			in (loc) l/defl L/d
			Vert(LL) -0.21 11-13 >999 360
			Vert(CT) -0.37 11-13 >934 240
			Horz(CT) 0.07 9 n/a n/a
			Wind(LL) 0.20 11-13 >999 240
			PLATES GRIP
			MT20 197/144
			Weight: 121 lb FT = 10%

LUMBER-

TOP CHORD 2x4 SPF No.2 *Except*
3-6: 2x4 SPF 2100F 1.8E

BOT CHORD 2x6 SPF No.2

WEBS 2x3 SPF No.2 *Except*
7-9: 2x6 SPF No.2

WEDGE
Left: 2x3 SPF No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied, except end verticals, and
2-0-0 oc purlins (3-4-14 max.): 3-6.

BOT CHORD Rigid ceiling directly applied or 7-4-1 oc bracing.

REACTIONS. (lb/size) 2=1769/0-3-8, 9=1811/0-5-8
Max Horz 2=111(LC 7)
Max Uplift 2=414(LC 8), 9=407(LC 4)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-3124/787, 3-4=-3794/1005, 4-5=-3570/948, 5-6=-3572/949, 6-7=-2431/622,
7-9=-1741/415
BOT CHORD 2-14=-726/2643, 13-14=-724/2630, 11-13=-1016/3792, 10-11=-477/1954, 9-10=-136/448
WEBS 3-14=-71/415, 3-13=-389/1412, 4-13=-496/281, 4-11=-271/95, 5-11=-580/302,
6-11=-515/1861, 7-10=-457/1542

- 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) 2=414, 9=407.
 - This truss 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) 93 lb down and 65 lb up at 7-0-0, 95 lb down and 65 lb up at 9-0-0, 95 lb down and 65 lb up at 11-0-0, 95 lb down and 65 lb up at 13-0-0, 95 lb down and 65 lb up at 15-0-0, 95 lb down and 65 lb up at 17-0-0, 95 lb down and 65 lb up at 19-0-0, 95 lb down and 65 lb up at 21-0-0, and 95 lb down and 65 lb up at 23-0-0, and 87 lb down and 67 lb up at 25-1-0 on top chord, and 216 lb down and 155 lb up at 6-2-11, 28 lb down at 7-0-0, 28 lb down at 9-0-0, 28 lb down at 11-0-0, 28 lb down at 13-0-0, 28 lb down at 15-0-0, 28 lb down at 17-0-0, 28 lb down at 19-0-0, 28 lb down at 21-0-0, and 28 lb down at 23-0-0, and 190 lb down and 108 lb up at 25-0-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- On the CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).



October 18,2019

Job		Truss	Truss Type	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI 06/02/2020		Ply	Lot 62 MN
400279		K6	Hip Girder			1	I38965516
Wheeler Lumber, Waverly, KS 66871				Job Reference (optional)			
LOAD CASE(S) Standard 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15				8.240 s Jul 14 2019 MiTek Industries, Inc. Fri Oct 18 10:31:38 2019 Page 2 ID:elVzmtmtrvqeWtykiIM9UhzAKds-MLCm4qbbLtyKxbcjEZwU84himXTKvNdDgpb?UySCaZ			

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: 6=-27(B) 14=-216(B) 5=-27(B) 11=-15(B) 10=-190(B) 15=-27(B) 16=-27(B) 17=-27(B) 18=-27(B) 19=-27(B) 20=-27(B) 21=-27(B) 22=-27(B) 23=-15(B) 24=-15(B) 25=-15(B) 26=-15(B) 27=-15(B) 28=-15(B) 29=-15(B) 30=-15(B)


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 400279	Truss LAY1	Truss Type GABLE	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI ID:0wpcF2OVQmpO8KfbvbxszTP7M-qYm8lAcD6B4BZkBoGSjgHD5bx08ezRMvSR8XwySCaY 06/02/2020		Ply 1 Lot 62 MN I38965517 Job Reference (optional)
Wheeler Lumber, Waverly, KS 66871			8,240 s Jul 14 2019 MiTek Industries, Inc. Fri Oct 18 10:31:39 2019 Page 1 4-4-9 4-4-9 8-9-2 4-4-9		

Scale = 1:31.0

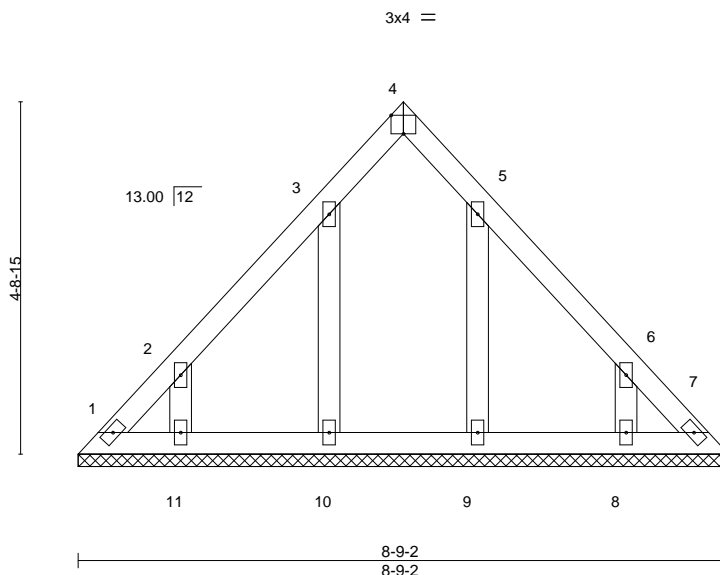


Plate Offsets (X,Y)--		[4:Edge,0-3-0], [5:0-0-0,0-0-0], [6:0-0-0,0-0-0]	
LOADING (psf)	SPACING-	2-0-0	CSI.
TCLL 25.0	Plate Grip DOL	1.15	TC 0.04
TCDL 10.0	Lumber DOL	1.15	BC 0.03
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.03
BCDL 10.0	Code	IRC2018/TPI2014	Matrix-P
			DEFL.
			in (loc) l/defl L/d
			Vert(LL) n/a - n/a 999
			Vert(CT) n/a - n/a 999
			Horz(CT) 0.00 7 n/a n/a
			PLATES
			MT20
			GRIP
			197/144
			Weight: 33 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 8-9-2.
 (lb) - Max Horz 1=-117(LC 4)
 Max Uplift All uplift 100 lb or less at joint(s) 1, 7, 10, 9 except 11=-124(LC 8), 8=-125(LC 9)
 Max Grav All reactions 250 lb or less at joint(s) 1, 7, 11, 10, 9, 8

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
- 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.
- All bearings are assumed to be SPF No.2 crushing capacity of 425 psi.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 7, 10, 9 except (jt=lb) 11=124, 8=125.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



October 18,2019

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
400279

Truss
LAY2

Truss Type
Lay-In Gable

**RELEASE FOR
CONSTRUCTION**
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI

Ply
1

Lot 62 MN
I38965518

Job Reference (optional)

Wheeler Lumber, Waverly, KS 66871

8.240 s

Jul 14 2019 MiTek Industries, Inc. Fri Oct 18 10:31:39 2019 Page 1

10-7-4
10-7-4

06/02/2020

18-6-10
7-11-7

6x6

Scale = 1:48.6

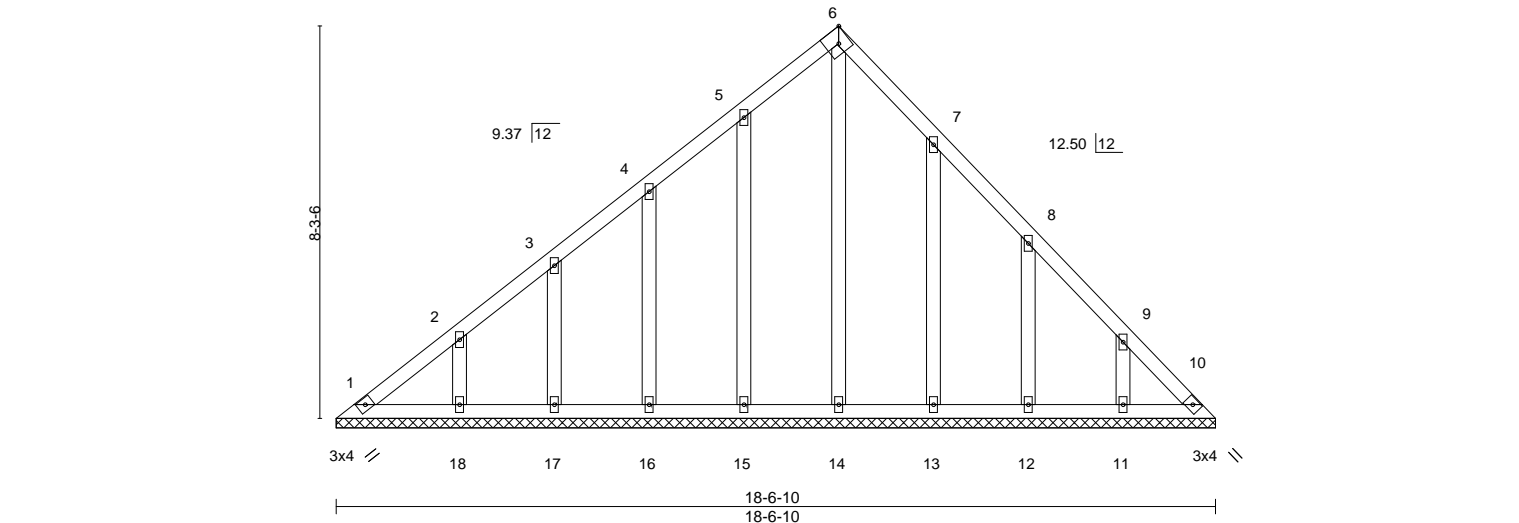


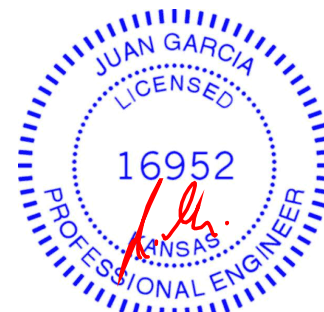
Plate Offsets (X,Y)--		[6:0-2-12,Edge]	
LOADING (psf)	SPACING-	2-0-0	CSI.
TCLL 25.0	Plate Grip DOL	1.15	TC 0.06
TCDL 10.0	Lumber DOL	1.15	BC 0.04
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.18
BCDL 10.0	Code IRC2018/TPI2014		Matrix-S
			DEFL.
			in (loc) l/defl L/d
			Vert(LL) n/a - n/a 999
			Vert(CT) n/a - n/a 999
			Horz(CT) 0.01 10 n/a n/a
			PLATES
			MT20
			GRIP
			197/144
			Weight: 87 lb FT = 10%

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
OTHERS 2x4 SPF No.2	

REACTIONS. All bearings 18-6-10.
 (lb) - Max Horz 1=210(LC 5)
 Max Uplift All uplift 100 lb or less at joint(s) 1, 10, 15, 16, 17, 18 except 13=124(LC 9), 12=124(LC 9), 11=122(LC 9)
 Max Grav All reactions 250 lb or less at joint(s) 1, 10, 14, 15, 16, 17, 18, 13, 12, 11

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
 - 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, 10, 15, 16, 17, 18 except (jt=lb) 13=124, 12=124, 11=122.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



October 18,2019

Job	Truss	Truss Type	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI		Lot 62 MN
400279	LAY3	GABLE			I38965519

Wheeler Lumber, Waverly, KS 66871

8.240 s Jul 14 2019 MiTek Industries, Inc. Fri Oct 18 10:31:40 2019 Page 1
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06/02/2020

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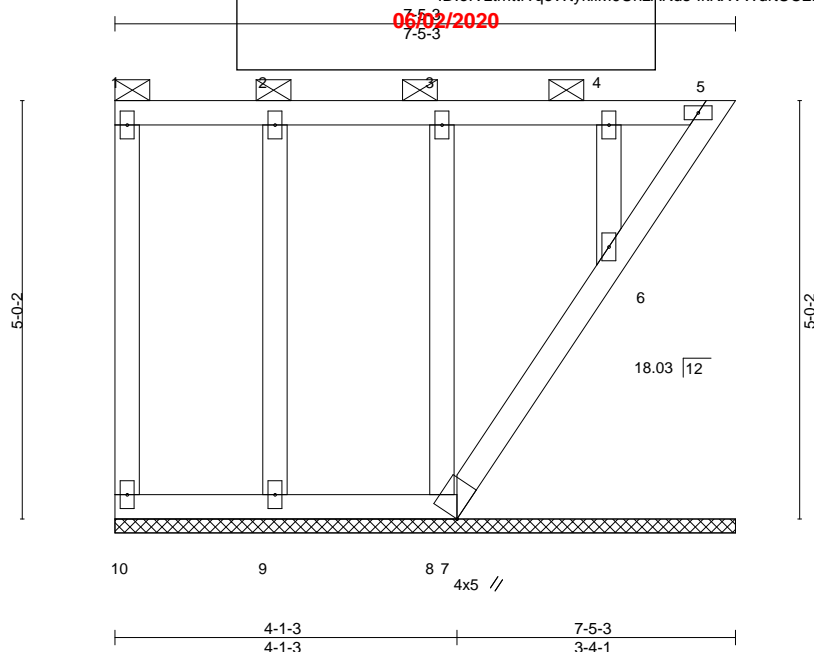


Plate Offsets (X,Y)-- [7:0-1-7,0-1-0], [8:0-1-0,0-1-7]										
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d		PLATES	GRIP	
TCLL	25.0	Plate Grip DOL	1.15	TC	0.14	Vert(LL)	n/a - n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.03	Vert(CT)	n/a - n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.06	Horz(CT)	0.00 5 n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-P					Weight: 37 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.

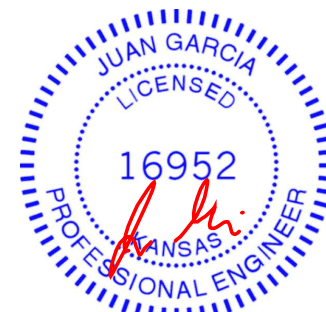
REACTIONS.

All bearings 7-5-3.
 (lb) - Max Horz 10=-134(LC 6)
 Max Uplift All uplift 100 lb or less at joint(s) 10, 5, 9, 8, 6 except 7=-120(LC 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-

- Wind: ASCE 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 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) 10, 5, 9, 8, 6 except (jt=lb) 7=120.
- Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 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.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



October 18,2019

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	Truss	Truss Type	<div>RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI</div>		Ply	Lot 62 MN
400279	LAY4	Lay-In Gable	1		1	I38965520
Wheeler Lumber,		Waverly, KS 66871	Job Reference (optional)			
			8.240 s Jul 14 2019 MiTek Industries, Inc. Fri Oct 18 10:31:41 2019 Page 1			
			ID: eIVZmttrvqeWtykiIM9UhZAKds-mwuvjseTeoKvo2LHvhUBliJNrliO6sFfMmwFcpySCaW			

0-2-6

1-9-12

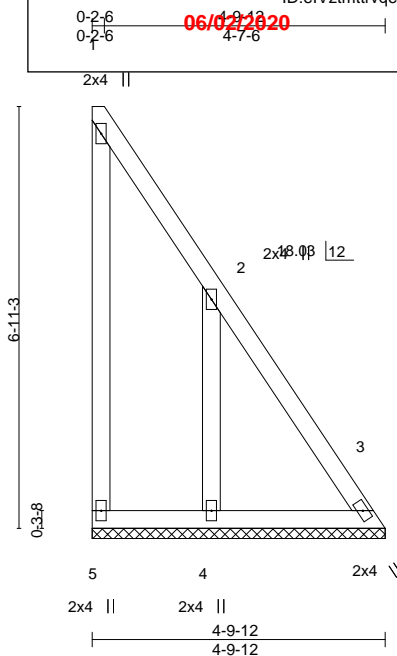
0-2-6

4-7-6

06/02/2020

2x4 11

Scale = 1:37.9



Scale = 1:37.9

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 0.31	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 0.07	Horz(CT)	0.00	3	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-P					Weight: 26 lb	FT = 10%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 4-9-12 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 5=50/4-9-12, 3=94/4-9-12, 4=252/4-9-12
 Max Horz 5=-260(LC 4)
 Max Uplift 5=-138(LC 6), 3=-125(LC 7), 4=-302(LC 9)
 Max Grav 5=131(LC 5), 3=256(LC 4), 4=341(LC 16)

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

TOP CHORD 2-3=-314/249
 WEBS 2-4=-285/336

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
- 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) except (jt=lb) 5=138, 3=125, 4=302.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



October 18, 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
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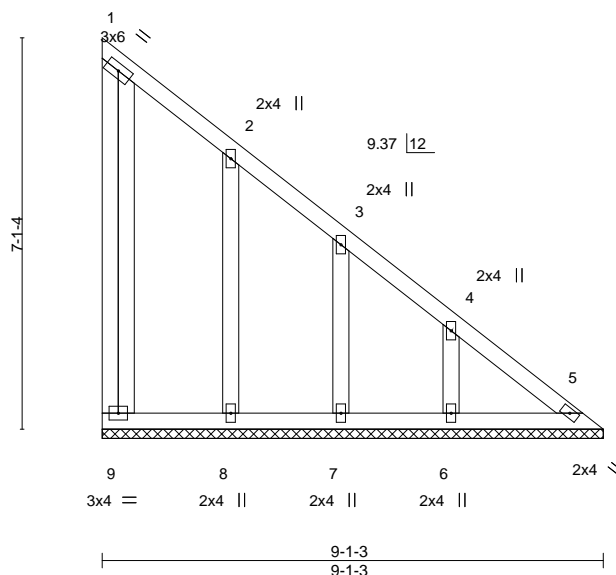
Job	Truss	Truss Type	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI		Lot 62 MN
400279	LAY5	Lay-In Gable			I38965521

Wheeler Lumber, Waverly, KS 66871

8.240 s Jul 14 2019 MiTek Industries, Inc. Fri Oct 18 10:31:41 2019 Page 1
ID:elVzmttrvqeWtykiiM9UhzAKds-mwuvjseTeoKvo2LHvhUBliJQ8lhx6sGfMmwFcpYSCaW

06/02/2020

Scale = 1:41.8



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 0.10	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 0.07	Horz(CT)	0.00	5	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-S					Weight: 48 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.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

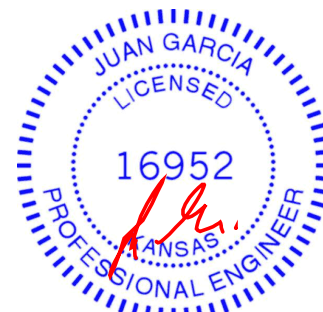
All bearings 9-1-3.
(lb) - Max Horz 9=-261(LC 4)
Max Uplift All uplift 100 lb or less at joint(s) 9, 5, 8, 7 except 6=-105(LC 9)
Max Grav All reactions 250 lb or less at joint(s) 9, 5, 8, 7, 6

FORCES.

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

NOTES-

- Wind: ASCE 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) 9, 5, 8, 7 except (jt=lb) 6=105.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



October 18, 2019

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Job	Truss	Truss Type	<div style="text-align: center;"> RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI </div>		Ply	Lot 62 MN
400279	R1	Roof Special Girder			2	I38965522
Wheeler Lumber, Waverly, KS 66871				8,240 s	Job Reference (optional)	
				Jul 14 2019 MiTek Industries, Inc. Fri Oct 18 10:31:42 2019 Page 1		
				ID:elVztmttrvqeWtykiiM9UhzAKds-E7SHwCe5P6SIQCwUTO?QlwrTW8w_rD0pbQgp8FySCaV		
		<div style="text-align: center;"> 06/02/2020 </div>				
		<div style="text-align: center;"> 2-1-11 2-1-11 </div>		<div style="text-align: center;"> 9-5-10 7-3-14 </div>		
		<div style="text-align: center;"> 17-0-0 7-6-6 </div>				
		<div style="text-align: center;"> 6.00 12 6x6 </div>				

Scale: 3/16"=1'

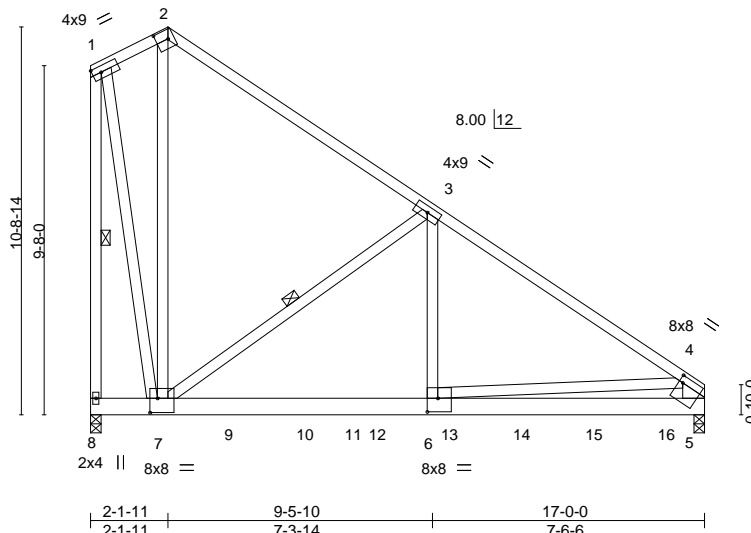


Plate Offsets (X,Y)-- [2:0-3-15,0-3-0], [4:0-1-4,0-2-4], [5:0-3-0,0-2-0], [6:0-3-8,0-4-8], [7:0-2-8,0-4-12]													
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d				PLATES		GRIP	
TCLL	25.0	Plate Grip DOL 1.15		TC	0.64	Vert(LL)	-0.11	6-7	>999	360	MT20	197/144	
TCDL	10.0	Lumber DOL 1.15		BC	0.53	Vert(CT)	-0.19	6-7	>999	240			
BCLL	0.0 *	Rep Stress Incr NO		WB	0.49	Horz(CT)	0.01	5	n/a	n/a			
BCDL	10.0	Code IRC2018/TPI2014		Matrix-S		Wind(LL)	0.04	6-7	>999	240	Weight: 241 lb	FT = 10%	

LUMBER-

TOP CHORD 2x4 SPF No.2
 BOT CHORD 2x6 SP 2400F 2.0E
 WEBS 2x4 SPF No.2 *Except*
 4-5: 2x8 SP DSS

BRACING-

TOP CHORD Structural wood sheathing directly applied or 5-5-5 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
 WEBS 1 Row at midpt 3-7, 1-8

REACTIONS.

(lb/size) 8=3533/0-3-8, 5=3905/0-3-8
 Max Horz 8=382(LC 6)
 Max Uplift 8=82(LC 9)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-2=-862/128, 2-3=-1036/85, 3-4=-4086/0, 1-8=-3968/107, 4-5=-2553/0
 BOT CHORD 7-8=-217/306, 6-7=0/3297, 5-6=0/1789
 WEBS 2-7=-158/674, 3-7=-3200/0, 3-6=0/3051, 1-7=-43/3659, 4-6=0/1514

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, 2x8 - 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; 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, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 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.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 787 lb down and 206 lb up at 1-11-4, 824 lb down and 169 lb up at 3-11-4, 745 lb down at 5-11-4, 745 lb down at 7-11-4, 745 lb down at 9-11-4, 745 lb down at 11-11-4, and 737 lb down and 93 lb up at 15-11-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

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



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Continued on page 2

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16023 Swingley Ridge Rd
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Job	Truss	Truss Type	RELEASE FOR CONSTRUCTION		Ply	Lot 62 MN
400279	R1	Roof Special	Girder	AS NOTED ON PLANS REVIEW	2	I38965522
Wheeler Lumber, Waverly, KS 66871			LEE'S SUMMIT, MISSOURI			Job Reference (optional)
			8.240 s			8.240 s Jul 14 2019 MiTek Industries, Inc. Fri Oct 18 10:31:42 2019 Page 2
			ID:elVzmttrvqeWtykiiM9UhzAKds-E7SHwCe5P6SIQCwUTO?QlwrTW8w_rD0pbQgp8FySCaV			
			06/02/2020			

LOAD CASE(S) Standard
Uniform Loads (plf)
Vert: 1-2=-70, 2-4=-70, 5-8=-20
Concentrated Loads (lb)
Vert: 7=-741(F) 9=-747(F) 10=-745(F) 12=-745(F) 13=-745(F) 14=-745(F) 15=-745(F) 16=-737(F)

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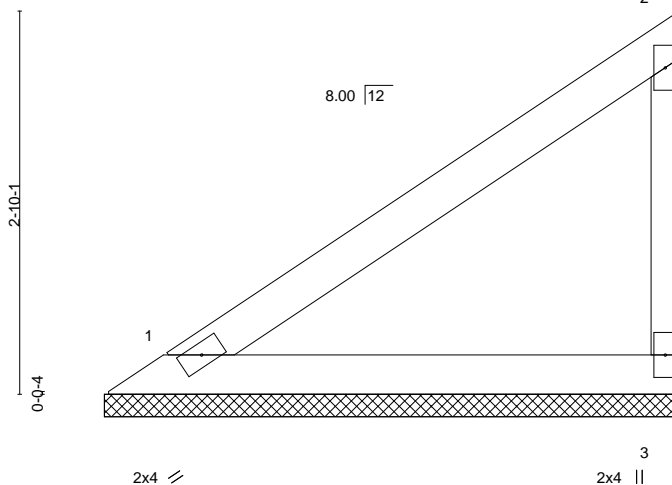
Job	Truss	Truss Type	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI			Lot 62 MN	I38965523
400279	V1	Valley				Job Reference (optional)	

Wheeler Lumber, Waverly, KS 66871

8.240 s Jul 14 2019 MiTek Industries, Inc. Fri Oct 18 10:31:43 2019 Page 1
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06/02/2020

Scale = 1:17.1



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 0.25	Vert(LL)	n/a	-	n/a	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.13	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: 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 4-3-2 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 1=165/4-3-2, 3=165/4-3-2
Max Horz 1=98(LC 5)
Max Uplift 1=-14(LC 8), 3=-48(LC 8)
Max Grav 1=165(LC 1), 3=178(LC 15)

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.



October 18, 2019

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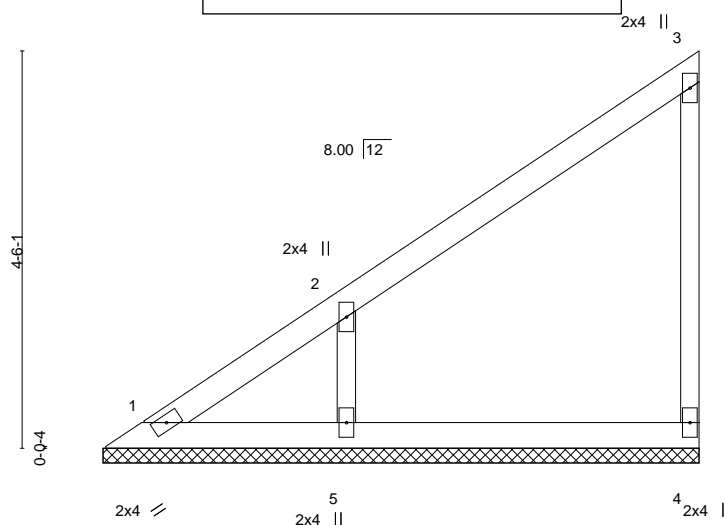
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI			Lot 62 MN	I38965524
400279	V2	Valley				Job Reference (optional)	

Wheeler Lumber, Waverly, KS 66871

8.240 s Jul 14 2019 MiTek Industries, Inc. Fri Oct 18 10:31:43 2019 Page 1
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06/02/2020



Scale = 1:26.1

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 0.22	Vert(LL)	n/a	-	n/a	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.10	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.05	Horz(CT)	-0.00	4	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-P					Weight: 20 lb	FT = 10%

LUMBER-

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

BRACING-

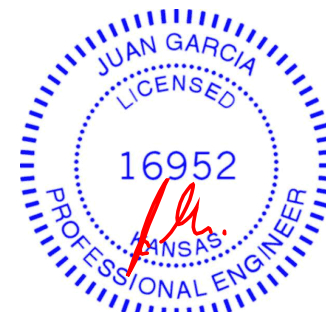
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 1=46/6-9-2, 4=142/6-9-2, 5=367/6-9-2
Max Horz 1=164(LC 5)
Max Uplift 1=-23(LC 4), 4=-38(LC 5), 5=-142(LC 8)
Max Grav 1=86(LC 16), 4=158(LC 15), 5=381(LC 15)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 2-5=-299/191

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
- 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, 4 except (jt=lb) 5=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.



October 18, 2019

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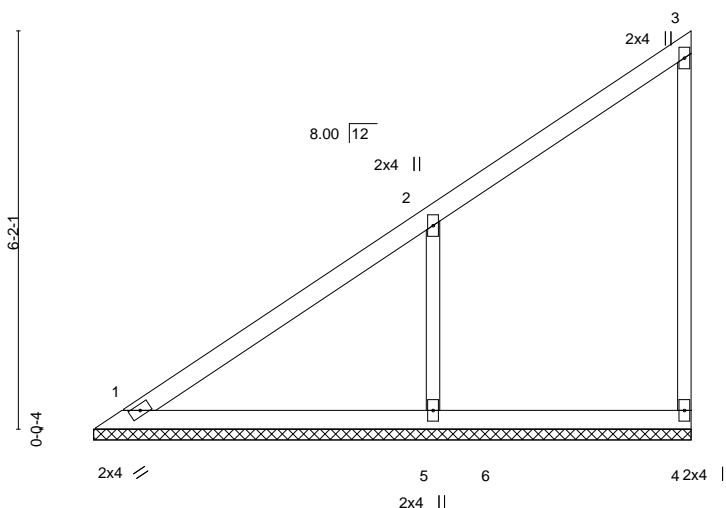
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Job 400279	Truss V3	Truss Type Valley	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI		Ply 1	Lot 62 MN 138965525
Wheeler Lumber, Waverly, KS 66871		8.240 s Jul 14 2019 MiTek Industries, Inc. Fri Oct 18 10:31:44 2019 Page 1 ID: eIVztmttrvqeWtykiilM9UhZAKds-AVZ1LugMxjTfW3sbp1uNLxuJyhyJDT52k9vC8ySCaT				
<div style="text-align: center;"> 06/02/2020 9-3-2 9-3-2 </div>						

Scale = 1:35.7



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 0.30	Vert(LL)	n/a	-	n/a	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.18	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.10	Horz(CT)	-0.00	4	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-S					Weight: 29 lb	FT = 10%

LUMBER-

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

BRACING-

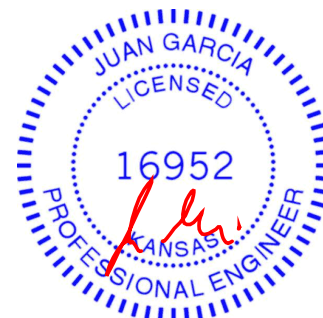
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 1=171/9-3-2, 4=122/9-3-2, 5=488/9-3-2
 Max Horz 1=230(LC 5)
 Max Uplift 4=-45(LC 5), 5=-189(LC 8)
 Max Grav 1=225(LC 16), 4=186(LC 15), 5=608(LC 15)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 WEBS 2-5=-393/232

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, with BCDL = 10.0psf.
- 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=189.
- 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.



October 18,2019

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 Chesterfield, MO 63017

Job	Truss	Truss Type	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI			Lot 62 MN
400279	V4	Valley				I38965526
Wheeler Lumber,		Waverly, KS 66871		8.240 s Jul 14 2019 MiTek Industries, Inc. Fri Oct 18 10:31:45 2019 Page 1		

06/02/2020

Scale = 1:44.0

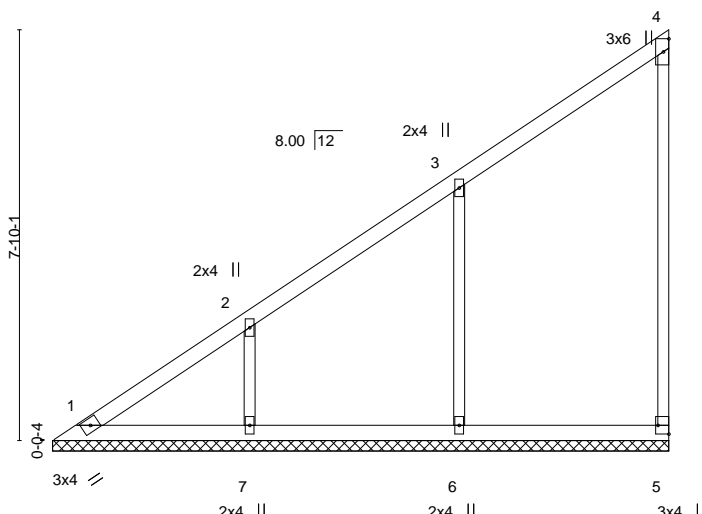


Plate Offsets (X,Y)-- [5:Edge,0-2-8]

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 0.50	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.15	Vert(CT)	n/a	-	n/a	999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.19	Horz(CT)	-0.00	5	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-S						Weight: 40 lb	FT = 10%

LUMBER-

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

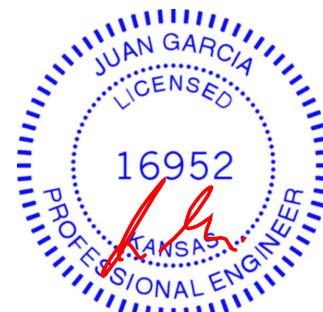
All bearings 11-9-2.
(lb) - Max Horz 1=297(LC 5)
Max Uplift All uplift 100 lb or less at joint(s) 1, 5 except 6=154(LC 8), 7=138(LC 8)
Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 6=512(LC 15), 7=423(LC 15)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-264/180
WEBS 3-6=-331/186, 2-7=-283/185

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
- 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, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 5 except (jt=lb) 6=154, 7=138.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



October 18,2019

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

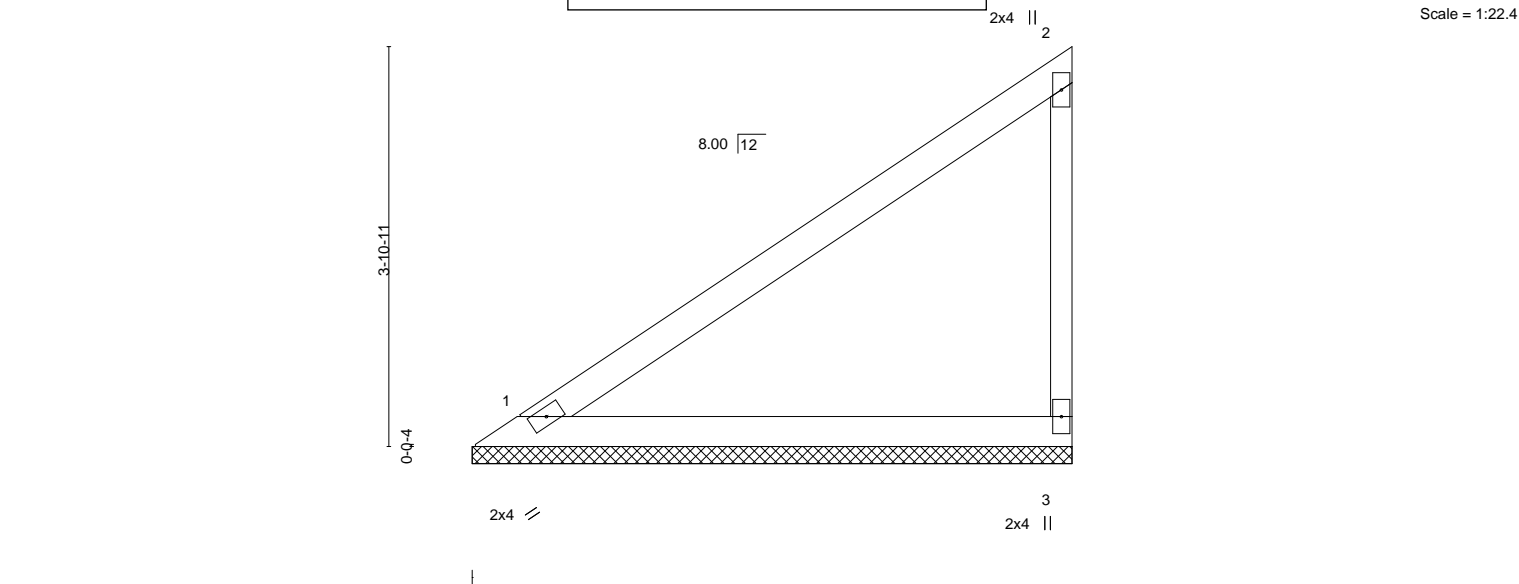
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall 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	Truss	Truss Type	Valley	Lot 62 MN	I38965527
400279	V5				

Wheeler Lumber,	Waverly, KS 66871	8.240 s	Jul 14 2019	MiTek Industries, Inc.	Fri Oct 18 10:31:45 2019	Page 1
ID:elVztmttrvqeWtykiIM9UhzAKds-fi7PYDh_i1rKHfe38XZ7wYT?GM?U2hLFHOuTlaySCaS						



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)	n/a	-	n/a	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.29	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: 17 lb	FT = 10%

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied or 5-10-0 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)	1=236/5-10-0, 3=236/5-10-0
Max Horz	1=139(LC 5)	
Max Uplift	1=20(LC 8), 3=-68(LC 8)	
Max Grav	1=236(LC 1), 3=254(LC 15)	

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.



October 18, 2019

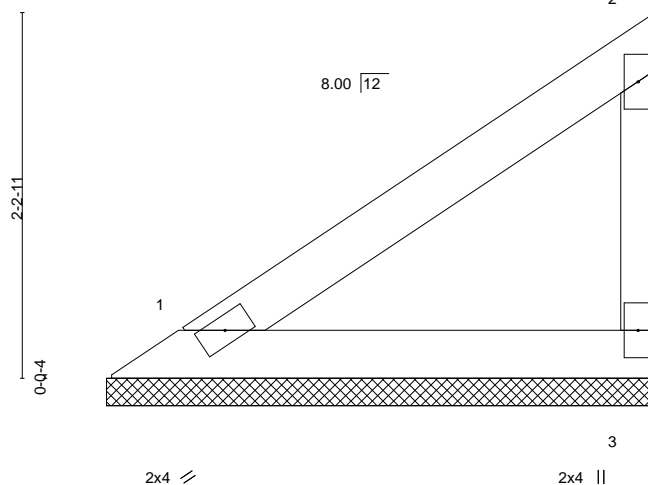
Job	Truss	Truss Type	Valley	Release for Construction AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI	Ply	Lot 62 MN	I38965528
400279	V6				1		

Wheeler Lumber, Waverly, KS 66871

8.240 s Jul 14 2019 MiTek Industries, Inc. Fri Oct 18 10:31:46 2019 Page 1
ID:elVzmttrvqeWtykiiM9UhzAKds-7uhomZhTKzBvpDFIE4MSm0GPmO7n8bOW2e0H0ySCaR

06/02/2020

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 0.13	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: 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 3-4-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 1=124/3-4-0, 3=124/3-4-0
Max Horz 1=73(LC 5)
Max Uplift 1=-10(LC 8), 3=-36(LC 8)
Max Grav 1=124(LC 1), 3=133(LC 15)

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.



October 18, 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.



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Chesterfield, MO 63017

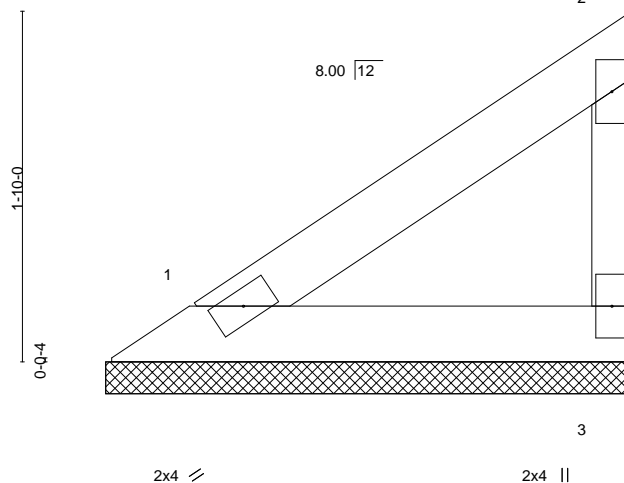
Job	Truss	Truss Type	Valley	Lot 62 MN	I38965529
400279	V7				
Wheeler Lumber, Waverly, KS 66871					

**RELEASE FOR
CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI**

8.240 s Jul 14 2019 MiTek Industries, Inc. Fri Oct 18 10:31:46 2019 Page 1

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06/22/2020



Scale: 1"=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 0.08	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 0.00	Horz(CT)	-0.00	3	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 2-9-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 1=97/2-9-0, 3=97/2-9-0
Max Horz 1=57(LC 5)
Max Uplift 1=-8(LC 8), 3=-28(LC 8)
Max Grav 1=97(LC 1), 3=105(LC 15)

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.



October 18, 2019

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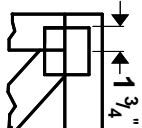
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall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



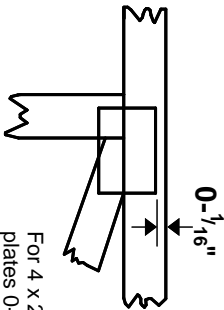
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Symbols

PLATE LOCATION AND ORIENTATION



Center plate on joint unless x, y offsets are indicated. Dimensions are in ft-in-sixteenths. Apply plates to both sides of truss and fully embed teeth.



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



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

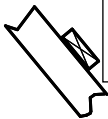
Plate location details available in **MiTek 20/20** software or upon request.

RELEASE FOR CONSTRUCTION
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DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
06/02/2020

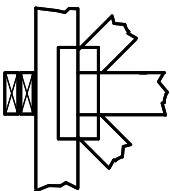
PLATE SIZE
4 X 4

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

LATERAL BRACING LOCATION



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



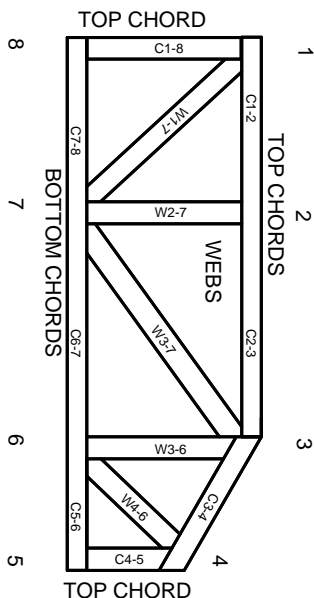
Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

Industry Standards:

ANSI/TP1: 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

6-4-8 dimensions shown in ft-in-sixteenths (Drawings not to scale)



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/TP1 1 section 6.3 These truss designs rely on lumber values established by others.

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MiTek Engineering Reference Sheet: MII-7473 rev. 10/03/2015



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 ware at joint locations are regulated by ANSI/TP1 1.
7. Design assumes trusses will be suitably protected from the environment in accord with ANSI/TP1 1.
8. Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
9. Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
10. Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
11. Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
12. Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
13. Top chords must be sheathed or purlins provided at spacing indicated on design.
14. Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
15. Connections not shown are the responsibility of others.
16. Do not cut or alter truss member or plate without prior approval of an engineer.
17. Install and load vertically unless indicated otherwise.
18. Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use.
19. Review all portions of this design (front, back, words and pictures) before use. Reviewing pictures alone is not sufficient.
20. Design assumes manufacture in accordance with ANSI/TP1 1 Quality Criteria.