



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

05/29/2020

RE: 400156
Lot 4 H3

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

No.	Seal#	Truss Name	Date	No.	Seal#	Truss Name	Date
1	I39353144	A1	4/30/2020	27	I39353170	D5	4/30/2020
2	I39353145	A2	4/30/2020	28	I39353171	D6	4/30/2020
3	I39353146	A3	4/30/2020	29	I39353172	D8	4/30/2020
4	I39353147	A4	4/30/2020	30	I39353173	E1	4/30/2020
5	I39353148	A5	4/30/2020	31	I39353174	E2	4/30/2020
6	I39353149	B1	4/30/2020	32	I39353175	E3	4/30/2020
7	I39353150	B2	4/30/2020	33	I39353176	J1	4/30/2020
8	I39353151	B3	4/30/2020	34	I39353177	J2	4/30/2020
9	I39353152	B4	4/30/2020	35	I39353178	J3	4/30/2020
10	I39353153	B5	4/30/2020	36	I39353179	J4	4/30/2020
11	I39353154	B6	4/30/2020	37	I39353180	LAY1	4/30/2020
12	I39353155	B7	4/30/2020	38	I39353181	LAY2	4/30/2020
13	I39353156	B8	4/30/2020	39	I39353182	LAY3	4/30/2020
14	I39353157	B9	4/30/2020	40	I39353183	LAY4	4/30/2020
15	I39353158	B10	4/30/2020	41	I39353184	V1	4/30/2020
16	I39353159	B11	4/30/2020	42	I39353185	V2	4/30/2020
17	I39353160	C1	4/30/2020	43	I39353186	V3	4/30/2020
18	I39353161	C2	4/30/2020	44	I39353187	V4	4/30/2020
19	I39353162	C3	4/30/2020	45	I39353188	V5	4/30/2020
20	I39353163	C4	4/30/2020	46	I39353189	V6	4/30/2020
21	I39353164	C5	4/30/2020	47	I39353190	V7	4/30/2020
22	I39353165	C6	4/30/2020	48	I39353191	V8	4/30/2020
23	I39353166	D1	4/30/2020	49	I39353192	V9	4/30/2020
24	I39353167	D2	4/30/2020	50	I39353193	V10	4/30/2020
25	I39353168	D3	4/30/2020	51	I39353194	V11	4/30/2020
26	I39353169	D4	4/30/2020	52	I39353195	V12	4/30/2020

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.



April 30, 2020



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MiTek USA, Inc.

16023 Swingley Ridge Rd
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	I39353196	V13	4/30/2020
54	I39353197	V14	4/30/2020
55	I39353198	V15	4/30/2020
56	I39353199	V16	4/30/2020
57	I39353200	V17	4/30/2020
58	I39353201	V18	4/30/2020
59	I39353202	V19	4/30/2020
60	I39353203	V20	4/30/2020



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Design Program: MiTek 20/20 8.2

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Roof Load: 45.0 psf

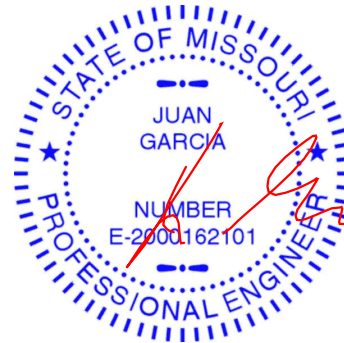
Floor Load: N/A psf

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1	I39353144	A1	4/30/2020	27	I39353170	D5	4/30/2020
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7	I39353150	B2	4/30/2020	33	I39353176	J1	4/30/2020
8	I39353151	B3	4/30/2020	34	I39353177	J2	4/30/2020
9	I39353152	B4	4/30/2020	35	I39353178	J3	4/30/2020
10	I39353153	B5	4/30/2020	36	I39353179	J4	4/30/2020
11	I39353154	B6	4/30/2020	37	I39353180	LAY1	4/30/2020
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20	I39353163	C4	4/30/2020	46	I39353189	V6	4/30/2020
21	I39353164	C5	4/30/2020	47	I39353190	V7	4/30/2020
22	I39353165	C6	4/30/2020	48	I39353191	V8	4/30/2020
23	I39353166	D1	4/30/2020	49	I39353192	V9	4/30/2020
24	I39353167	D2	4/30/2020	50	I39353193	V10	4/30/2020
25	I39353168	D3	4/30/2020	51	I39353194	V11	4/30/2020
26	I39353169	D4	4/30/2020	52	I39353195	V12	4/30/2020

The truss drawing(s) referenced above have been prepared by
MiTek USA, Inc. under my direct supervision
based on the parameters provided by Wheeler - Waverly.
Truss Design Engineer's Name: Garcia, Juan
My license renewal date for the state of Missouri is December 31, 2020.
Missouri COA: 001193

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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MiTek USA, Inc.

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

Site Information:

Project Customer: Project Name:

Lot/Block:

Subdivision:

Address:

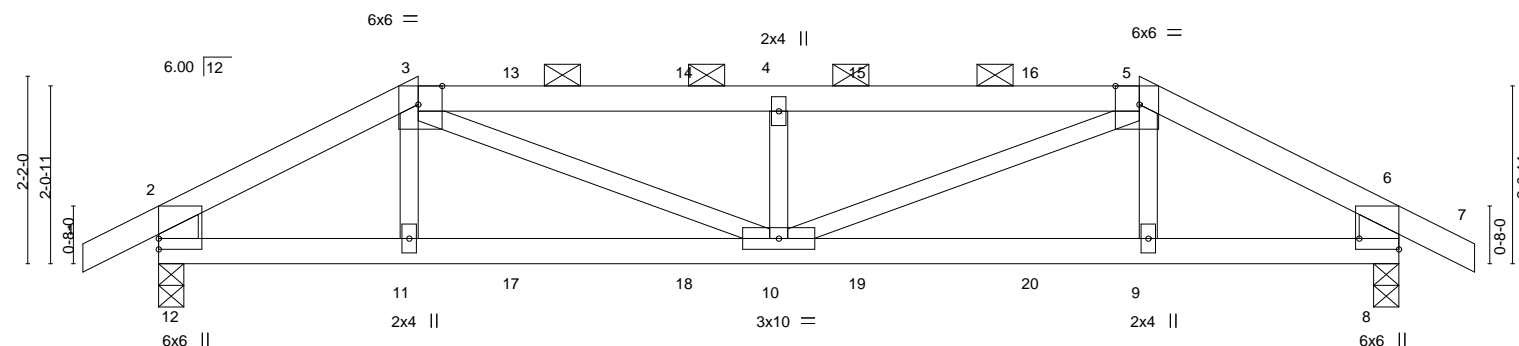
City, County:

State:

No.	Seal#	Truss Name	Date
53	I39353196	V13	4/30/2020
54	I39353197	V14	4/30/2020
55	I39353198	V15	4/30/2020
56	I39353199	V16	4/30/2020
57	I39353200	V17	4/30/2020
58	I39353201	V18	4/30/2020
59	I39353202	V19	4/30/2020
60	I39353203	V20	4/30/2020

Job 400156	Truss A1	Truss Type Hip Girder	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI ID:dwZTNcNXrqfJm8tRCSiY7DzSTnz-V2S9xtPPfefaLZIHAcX2CHU8pdo8zbrXizcEkyHLuv 05/29/2020		Lot 4 H3 139353144 Job Reference (optional) 14 2019 MiTek Industries, Inc. Wed Nov 20 07:55:16 2019 Page 1 CSiY7DzSTnz-V2S9xtPPfefaLZIHAcX2CHU8pdo8zbrXizcEkyHLuv
Wheeler Lumber, Waverly, KS 66871			7-2-0 11-4-0 14-4-0 15-2-8 4-2-0 4-2-0 3-0-0 0-10-8		

Scale = 1:26.6



	3-0-0	7-2-0	11-4-0	14-4-0
	3-0-0	4-2-0	4-2-0	3-0-0
Plate Offsets (X,Y)--	[2:0-1-6,0-2-12], [3:0-3-5,Edge], [5:0-3-5,Edge], [6:0-1-6,0-2-12], [8:Edge,0-5-8], [8:0-0-0,0-2-12], [12:0-0-0,0-2-12]			

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 0.64	Vert(LL)	-0.06	10	>999	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.57	Vert(CT)	-0.12	9-10	>999		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.25	Horz(CT)	0.02	8	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-S	Wind(LL)	0.07	10	>999	Weight: 48 lb	FT = 10%

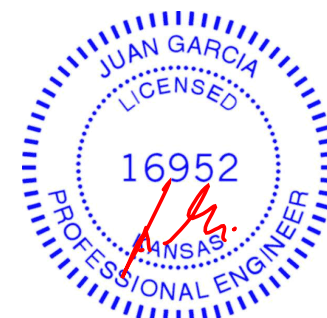
LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied or 4-10-12 oc purlins, except end verticals, and 2-0-0 oc purlins (4-6-13 max.): 3-5.
BOT CHORD 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x3 SPF No.2 *Except* 2-12,6-8: 2x6 SPF No.2	

REACTIONS.	(lb/size) 12=769/0-3-8, 8=769/0-3-8
	Max Horz 12=42(LC 7)
	Max Uplift 12=212(LC 8), 8=212(LC 9)

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	2-3=-997/301, 3-4=-1469/442, 4-5=-1469/442, 5-6=-997/301, 2-12=-668/203, 6-8=-668/203
BOT CHORD	11-12=-250/822, 10-11=-254/822, 9-10=-239/822, 8-9=-234/822
WEBS	3-10=-197/715, 4-10=-417/205, 5-10=-198/715

- 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.
 - 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) except (jt=lb) 12=212, 8=212.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 85 lb down and 145 lb up at 3-0-0, 70 lb down and 53 lb up at 4-2-0, 70 lb down and 53 lb up at 6-2-0, 70 lb down and 53 lb up at 8-2-0, and 70 lb down and 53 lb up at 10-2-0, and 85 lb down and 145 lb up at 11-4-0 on top chord, and 30 lb down at 3-0-0, 18 lb down at 4-2-0, 18 lb down at 6-2-0, 18 lb down at 8-2-0, and 18 lb down at 10-2-0, and 30 lb down at 11-3-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
 - In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard



November 20,2019

			<div>RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI 05/29/2020</div>					
Job	Truss	Truss Type	240 s Jul 14 2019 MiTek Industries, Inc. Wed Nov 20 07:55:16 2019 Page 2			Ply	Lot 4 H3	I39353144
400156	A1	Hip Girder	ID:dwZTNcNXrqfJm8tRCSiY7DzSTnz-V2S9xzttPPfefaLZIHAcX2CHU8pdo8zbrXizcEkyHLuv			1	Job Reference (optional)	
Wheeler Lumber, Waverly, KS 66871								
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: 1-2=-70, 2-3=-70, 3-5=-70, 5-6=-70, 6-7=-70, 8-12=-20
Concentrated Loads (lb)
Vert: 3=-12(F) 5=-12(F) 11=-10(F) 9=-10(F) 13=-12(F) 14=-12(F) 15=-12(F) 16=-12(F) 17=-10(F) 18=-10(F) 19=-10(F) 20=-10(F)

 **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 style="text-align: center;"> RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI 05/29/2019 </div>		Ply	Lot 4 H3
400156	A2	Hip			1	I39353145
Wheeler Lumber, Waverly, KS 66871		ID:dwZTNcNxrqfJm8tRCSiY7DzSTnz-zE0Y9Ju2AzmWCV8Uru7maQqh8D?8tSc?mMj9mByHLuu 14 2019 MiTek Industries, Inc. Wed Nov 20 07:55:17 2019 Page 1 14-3-8 4-11-8				
-0-10-8 0-10-8		5-0-0 5-0-0		14-3-8 4-11-8		

Scale = 1:25.4

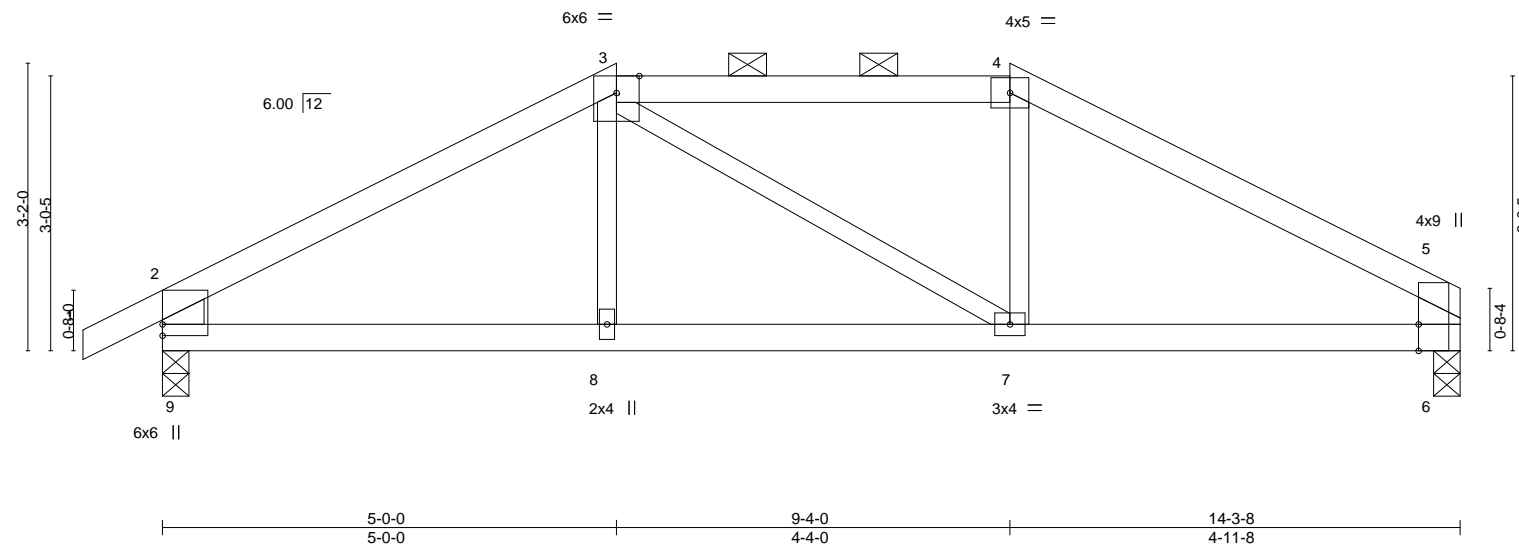


Plate Offsets (X,Y)--		[2:0-1-6,0-2-12], [5:0-3-8,Edge], [5:0-1-6,0-2-12], [6:0-0-0,0-2-12], [9:0-0-0,0-2-12]	
LOADING (psf)	SPACING-	CSI.	DEFL.
TCLL 25.0	Plate Grip DOL 1.15	TC 0.49	in (loc) l/defl L/d
TCDL 10.0	Lumber DOL 1.15	BC 0.43	Vert(LL) -0.06 7-8 >999 360
BCLL 0.0 *	Rep Stress Incr YES	WB 0.07	Vert(CT) -0.11 7-8 >999 240
BCDL 10.0	Code IRC2018/TPI2014	Matrix-S	Horz(CT) 0.02 6 n/a n/a
			Wind(LL) 0.03 7-8 >999 240
		PLATES MT20	
		GRIP 197/144	
		Weight: 45 lb FT = 10%	

LUMBER-

TOP CHORD 2x4 SPF No.2
 BOT CHORD 2x4 SPF No.2
 WEBS 2x3 SPF No.2 *Except*
 2-9,5-6: 2x6 SPF No.2

BRACING-

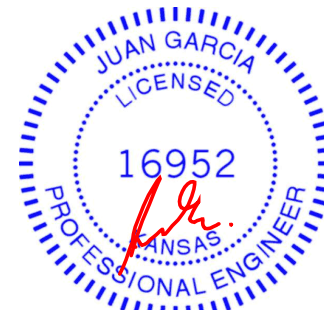
TOP CHORD Structural wood sheathing directly applied or 5-6-11 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 3-4.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 9=703/0-3-8, 6=619/0-3-8
 Max Horz 9=59(LC 5)
 Max Uplift 9=85(LC 8), 6=59(LC 9)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-880/67, 3-4=-699/95, 4-5=-866/65, 2-9=-637/119, 5-6=-537/90
 BOT CHORD 8-9=-58/707, 7-8=-60/704, 6-7=-27/701

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.
- 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) 9, 6.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



November 20,2019

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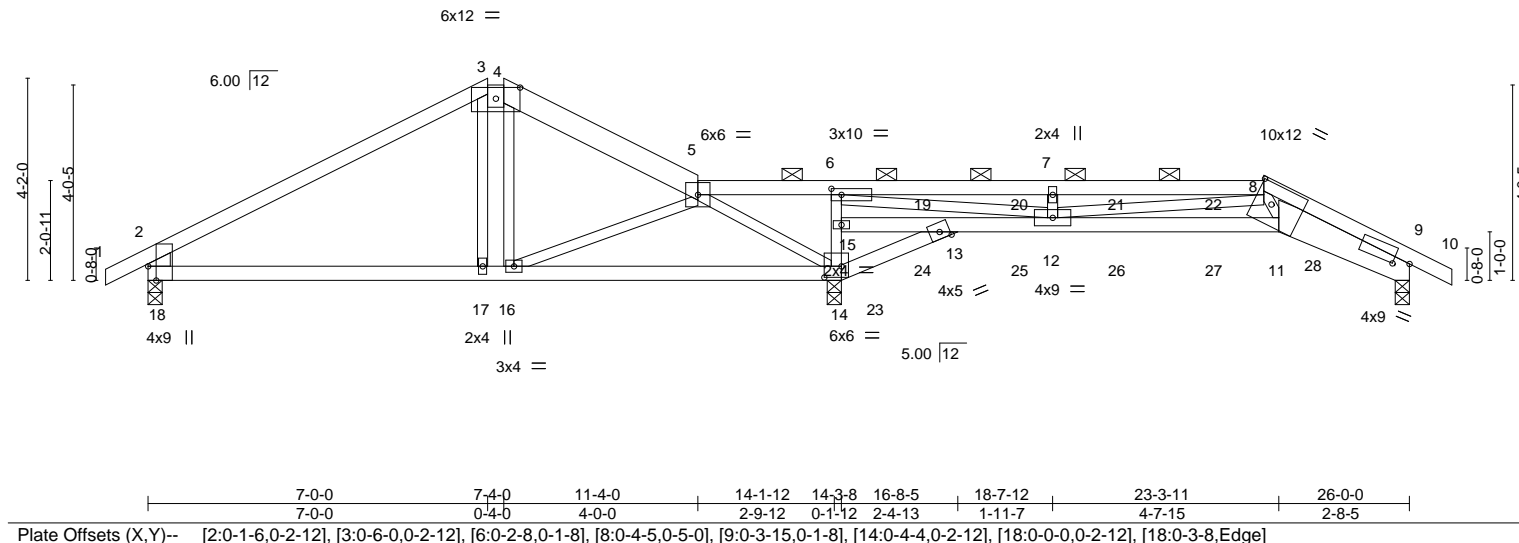
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LEE'S SUMMIT, MISSOURI
 05/29/2020

Job 400156	Truss A3	Truss Type Roof Special	Girder	Ply 1	Lot 4 H3 139353146
Wheeler Lumber, Waverly, KS 66871			Job Reference (optional)		
ID: dwZTNcNXrqfJm8tRCsY7DzSTnz-RQawMfugxGuNqfjgObf7dNqYdHzcnO8??SjJdyHLut 14 2019 MiTek Industries, Inc. Wed Nov 20 07:55:18 2019 Page 1					

0-10-8
0-10-8
7-0-0
7-0-0
7-4-0
0-4-0

11-4-0
4-0-0
14-3-8
2-11-8
16-8-5
2-4-13
18-7-12
1-11-7
23-0-0
4-4-4
26-0-0
3-0-0
26-10-8
0-10-8

Scale = 1:47.5



LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL	25.0	Plate Grip DOL	1.15	TC	0.58	Vert(LL)	-0.11 11-12 >999	MT20	197/144		
TCDL	10.0	Lumber DOL	1.15	BC	0.65	Vert(CT)	-0.21 11-12 >661				
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.55	Horz(CT)	0.07 9 n/a n/a				
BCDL	10.0	Code IRC2018/TPI2014		Matrix-S		Wind(LL)	0.11 11-12 >999	Weight: 98 lb		FT = 10%	

LUMBER-		BRACING-	
TOP CHORD	2x4 SPF No.2 *Except* 3-4,4-5: 2x6 SPF No.2	TOP CHORD	Structural wood sheathing directly applied or 4-2-1 oc purlins, except end verticals, and 2-0-0 oc purlins (5-10-2 max.): 3-4, 5-8.
BOT CHORD	2x4 SPF No.2 *Except* 9-11: 2x8 SP DSS	BOT CHORD	Rigid ceiling directly applied or 5-10-1 oc bracing.
WEBS	2x3 SPF No.2 *Except* 2-18: 2x6 SPF No.2		

REACTIONS.	
(lb/size)	18=607/0-3-8, 14=1440/0-3-8, 9=520/0-3-8
Max Horz	18=-61(LC 6)
Max Uplift	18=-147(LC 29), 14=-277(LC 9), 9=-166(LC 9)

FORCES.	
(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.	
TOP CHORD	2-3=-620/170, 3-4=-462/203, 4-5=-540/202, 5-6=-116/747, 6-7=-834/335, 7-8=-834/335, 8-9=-1896/583, 2-18=-554/192
BOT CHORD	17-18=-115/462, 16-17=-115/460, 14-16=-336/323, 13-14=-855/215, 12-13=-765/189, 11-12=-425/1258, 9-11=-519/1714
WEBS	5-16=-61/407, 5-14=-995/141, 14-15=-553/207, 6-15=-615/222, 6-12=-456/1590, 8-12=-452/180, 8-11=-148/816, 7-12=-338/184

- 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.
 - All bearings are assumed to be SPF No.2 crushing capacity of 425 psi.
 - Bearing at joint(s) 9 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 18=147, 14=277, 9=166.
 - This truss 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) 71 lb down and 54 lb up at 16-0-0, 71 lb down and 54 lb up at 18-0-0, 71 lb down and 54 lb up at 20-0-0, and 71 lb down and 54 lb up at 22-0-0, and 118 lb down and 146 lb up at 23-0-0 on top chord, and 18 lb down at 16-0-0, 18 lb down at 20-0-0, and 18 lb down at 22-0-0, and 30 lb down at 22-11-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of the building designer.



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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>05/29/2020</div> </div>			Ply	Lot 4 H3
400156	A3	Roof Special	Girder			1	I39353146
Wheeler Lumber, Waverly, KS 66871			<div> <div>8.240 s Jul 14 2019 MiTek Industries, Inc. Wed Nov 20 07:55:19 2019 Page 2</div> <div>ID:dwZTNcNXrqfJm8RCSiY7DzStnz-wd8la?vlia0ERolsyJAEfrv?l1dCLEeIDfCGr3yHLus</div> </div>				
NOTES-							
12) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).							

LOAD CASE(S) Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
 - Uniform Loads (plf)
 - Vert: 1-2=-70, 2-3=-70, 3-4=-70, 4-5=-70, 5-8=-70, 8-10=-70, 14-18=-20, 13-14=-20, 11-13=-20, 9-11=-20
 - Concentrated Loads (lb)
 - Vert: 8=-13(F) 19=-13(F) 20=-13(F) 21=-13(F) 22=-13(F) 23=-10(F) 25=-10(F) 26=-10(F) 27=-10(F) 28=-10(F)

 **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.



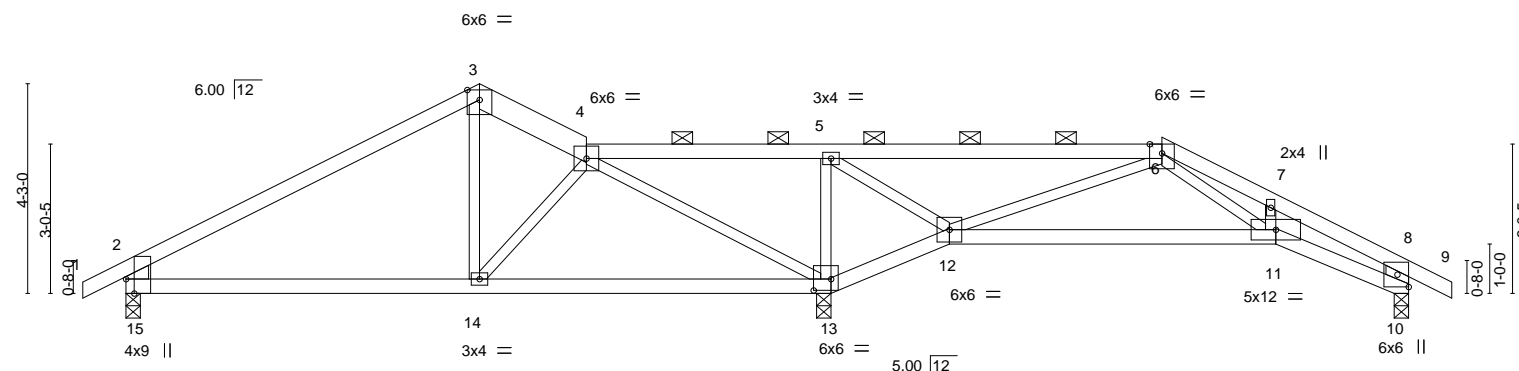
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	<div>RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI</div>				Ply	Lot 4 H3	I39353147
400156	A4	Roof Special					1	Job Reference (optional)	
Wheeler Lumber, Waverly, KS 66871		14 2019 MiTek Industries, Inc. Wed Nov 20 07:55:20 2019 Page 1							
		ID:dwZTNcNXrqfJm8tRCSiY7DzSTnz-OphgnLwwTu853yt3W0hTC2S9YR1C4eURSjxpNVyHLur							
-0-10-8	7-2-0	9-4-0	14-3-8	16-8-5	21-0-0	23-3-11	26-0-0	26-10-8	
0-10-8	7-2-0	2-2-0	4-11-8	2-4-13	4-3-11	2-3-11	2-8-5	0-10-8	

05/29/2020

Scale = 1/4" = 1'-0"

Scale = 1:46.7



	7-2-0	9-4-0	14-1-12	14-3-8	16-8-5	21-0-0	23-3-11	26-0-0
	7-2-0	2-2-0	4-9-12	0-1-12	2-4-13	4-3-11	2-3-11	2-8-5

Plate Offsets (X,Y)-- [2:0-1-6,0-2-12], [8:0-1-6,0-2-12], [10:0-1-2,0-2-12], [13:0-4-4,0-2-12], [15:0-0-0,0-2-12], [15:0-3-8,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 0.67	Vert(LL)	-0.08 11-12	>999	360	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.41	Vert(CT)	-0.18 11-12	>754	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.76	Horz(CT)	0.05 10	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-S	Wind(LL)	0.04 11-12	>999	240	Weight: 88 lb	FT = 10%

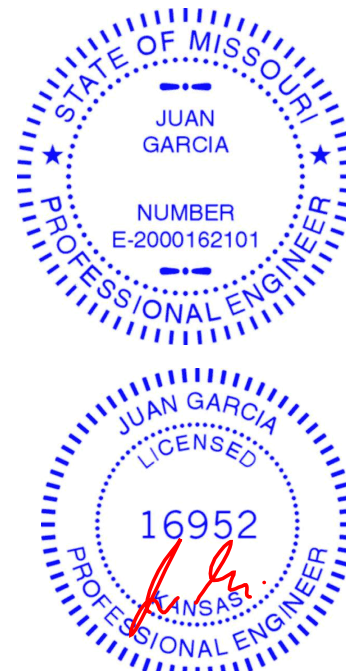
LUMBER-
 TOP CHORD 2x4 SPF No.2 *Except*
 3-4: 2x6 SPF No.2
 BOT CHORD 2x4 SPF No.2
 WEBS 2x3 SPF No.2 *Except*
 2-15,8-10: 2x6 SPF No.2

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 5-9-3 oc purlins, except end verticals, and 2-0-0 oc purlins (10-0-0 max.): 4-6.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 12-13.

REACTIONS. (lb/size) 15=579/0-3-8, 13=1442/0-3-8, 10=433/0-3-8
 Max Horz 15=-69(LC 6)
 Max Uplift 15=-132(LC 8), 13=-193(LC 9), 10=-112(LC 9)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-559/135, 3-4=-456/167, 4-5=0/623, 5-6=0/435, 6-7=-631/185, 7-8=-789/152,
 2-15=-530/177, 8-10=-620/145
 BOT CHORD 14-15=-76/400, 13-14=-128/287, 12-13=-709/75, 11-12=-105/384, 10-11=-90/654
 WEBS 4-13=-973/65, 5-13=-647/193, 5-12=0/277, 6-11=0/326, 6-12=-842/183

- 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.
 - All bearings are assumed to be SPF No.2 crushing capacity of 425 psi.
 - Bearing at joint(s) 10 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 15=132, 13=193, 10=112.
 - This truss 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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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 400156	Truss A5	Truss Type Half Hip Girder	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI 05/29/2020		Ply 2	Lot 4 H3 I39353148 Job Reference (optional) 14 2019 MiTek Industries, Inc. Wed Nov 20 07:55:21 2019 Page 1 ID:dwZTNcNXrqJm8tRCSiY7DzSTnz-s?F2_hxYEBGyh6RF4jCilG_luqK0p7PahzhNvyvYHLuq
Wheeler Lumber, Waverly, KS 66871						

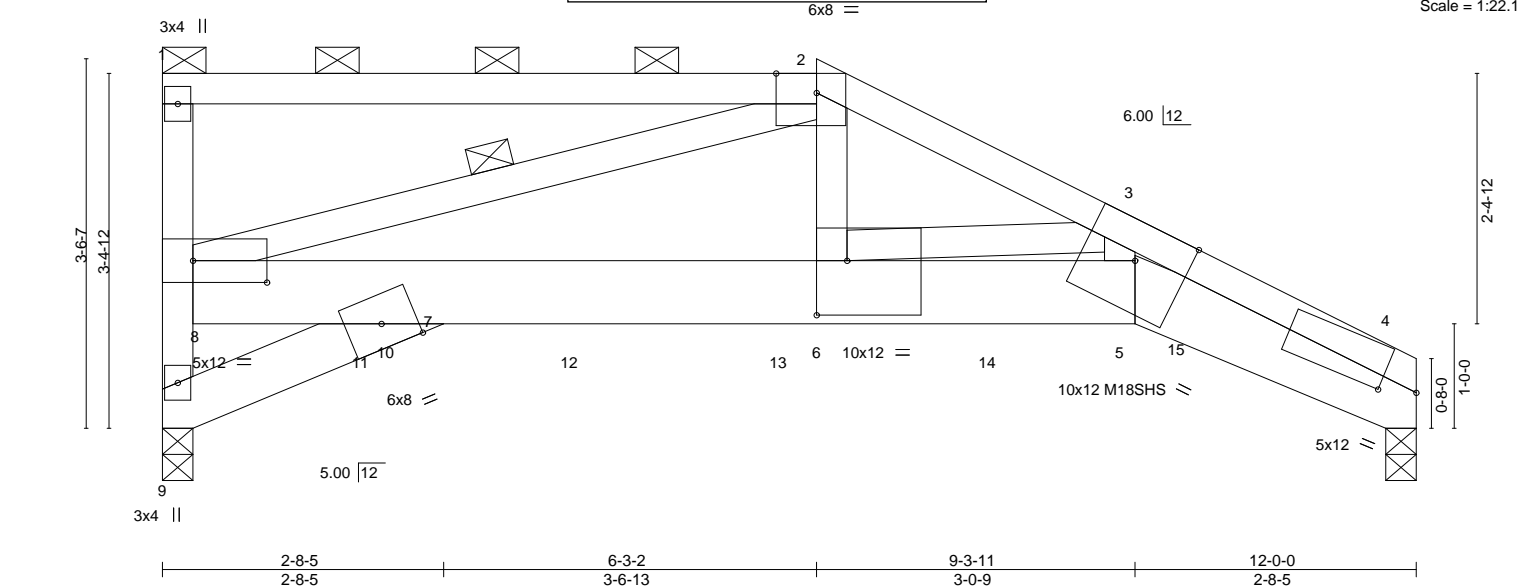


Plate Offsets (X,Y)-- [2:0-4-10,Edge], [4:0-4-3,0-1-5], [6:0-3-8,0-6-4], [8:0-8-8,0-2-8]												
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d				PLATES GRIP		
TCLL	25.0	Plate Grip DOL	1.15	TC	0.83	Vert(LL)	-0.13	5-6	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.63	Vert(CT)	-0.23	5-6	>622	240	M18SHS	197/144
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.59	Horz(CT)	0.18	4	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-S		Wind(LL)	0.08	5-6	>999	240	Weight: 147 lb	FT = 10%

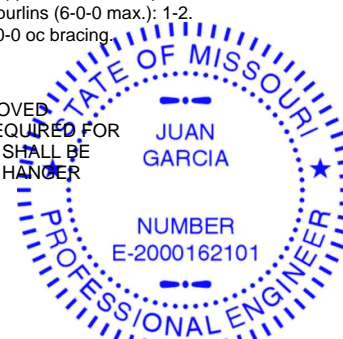
LUMBER-		BRACING-	
TOP CHORD	2x4 SPF No.2 *Except* 2-4: 2x4 SPF 2400F 2.0E	TOP CHORD	Structural wood sheathing directly applied or 4-7-5 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 1-2.
BOT CHORD	2x8 SP DSS *Except* 7-9: 2x6 SP 2400F 2.0E	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	2x4 SPF No.2	WEBS	1 Row at midpt 2-8

REACTIONS.		PLY-TO-PLY CONNECTION REQUIRES THAT AN APPROVED FACE MOUNT HANGER (SPECIFIED BY OTHERS) IS REQUIRED FOR LOADS REPORTED IN NOTES. FACE MOUNT HANGER SHALL BE ATTACHED WITH A MINIMUM OF 0.148"x 3" NAILS PER HANGER MANUFACTURER SPECIFICATIONS.	
(lb/size)	9=3571/0-3-8, 4=3571/0-3-8		
Max Horz	9=125(LC 6)		
Max Uplift	9=283(LC 4), 4=401(LC 9)		
Max Grav	9=3571(LC 1), 4=3581(LC 2)		

FORCES.			
(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.			
TOP CHORD	8-9=-3200/256, 1-2=-420/67, 2-3=-7491/553, 3-4=-11431/1174		
BOT CHORD	7-9=-411/535, 7-8=-524/6259, 6-7=-458/6443, 5-6=-854/8836, 4-5=-1046/10392		
WEBS	2-8=-6355/486, 2-6=-299/4827, 3-6=-2108/466, 3-5=-437/3419		

- NOTES-**
- N/A
 - 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-4-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-2-0 oc, 2x8 - 4 rows staggered at 0-2-0 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.
 - All plates are MT20 plates unless otherwise indicated.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - All bearings are assumed to be SPF No.2 crushing capacity of 425 psi.
 - Bearing at joint(s) 9, 4 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 9=283, 4=401.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

On the ground representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



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Job		Truss	Truss Type	<div>RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI 05/29/2020</div>		Ply	Lot 4 H3
400156		A5	Half Hip Girder			2	I39353148
Wheeler Lumber,		Waverly, KS 66871		8.240 s Jul 14 2019 MiTek Industries, Inc. Wed Nov 20 07:55:21 2019 Page 2		Job Reference (optional)	
				ID:dwZTNcNXrqJm8tRCSiY7DzSTnz-s?F2_hxYEBGyh6RF4jCilG_luqK0p7PahzhNvyHHLuq			

NOTES-

15) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1218 lb down and 55 lb up at 2-0-0, 1269 lb down and 55 lb up at 4-0-0, 1270 lb down and 54 lb up at 6-0-0, and 1273 lb down and 204 lb up at 8-0-0, and 1254 lb down and 201 lb up at 10-0-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
- Vert: 1-2=-70, 2-4=-70, 7-9=-20, 5-7=-20, 4-5=-20
- Concentrated Loads (lb)
- Vert: 10=-1218(B) 12=-1217(B) 13=-1217(B) 14=-1219(B) 15=-1217(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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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 05/29/2020 </div>		Ply	Lot 4 H3
400156	B1	Common Supported Gable			1	I39353149
Wheeler Lumber, Waverly, KS 66871		ID:dwZTNcNXrfJm8tRCSIY7DzSTnz-oONpPNyompWgwQbeB8EAqh4pde7CH84t8HAU_qyHLuo 240 s Jul 14 2019 MiTek Industries, Inc. Wed Nov 20 07:55:23 2019 Page 1 39-10-8 19-10-8				

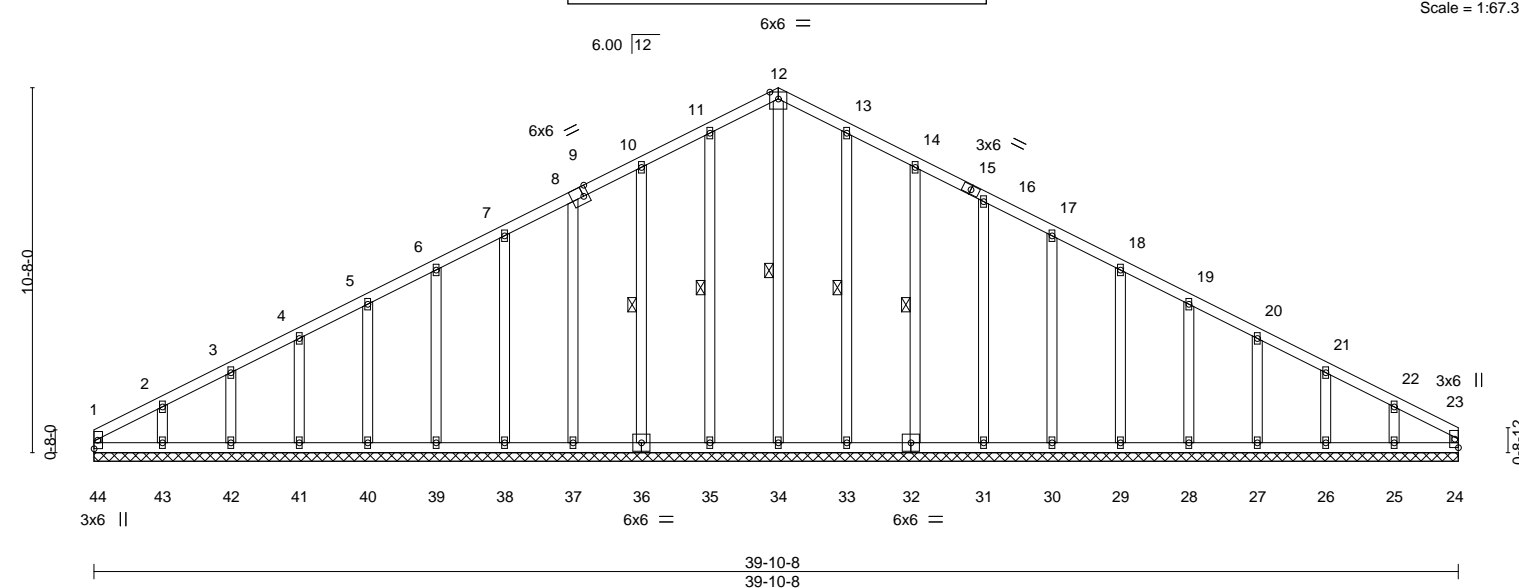


Plate Offsets (X,Y)--		[1:0-0-10,0-1-4], [8:0-1-15,0-0-0], [9:0-0-0,0-1-12], [9:0-1-12,Edge], [23:0-0-10,0-1-4], [24:0-0-0,0-1-4], [44:0-0-0,0-1-4]	
LOADING (psf)	SPACING-	CSI.	DEFL.
TCLL 25.0	Plate Grip DOL 1.15	TC 0.11	in (loc) l/defl L/d
TCDL 10.0	Lumber DOL 1.15	BC 0.07	Vert(LL) n/a - n/a 999
BCLL 0.0 *	Rep Stress Incr YES	WB 0.13	Vert(CT) n/a - n/a 999
BCDL 10.0	Code IRC2018/TPI2014	Matrix-R	Horz(CT) 0.01 24 n/a n/a
		Weight: 214 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	WEBS 1 Row at midpt 12-34, 11-35, 10-36, 13-33, 14-32
OTHERS 2x4 SPF No.2	

REACTIONS. All bearings 39-10-8.
 (lb) - Max Horz 44=162(LC 8)
 Max Uplift All uplift 100 lb or less at joint(s) 44, 35, 36, 37, 38, 39, 40, 41, 42, 33, 32, 31, 30, 29, 28, 27, 26 except 43=121(LC 8), 25=110(LC 9)
 Max Grav All reactions 250 lb or less at joint(s) 44, 24, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 33, 32, 31, 30, 29, 28, 27, 26, 25

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 10-11=-46/265, 11-12=-49/286, 12-13=-49/278

- 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 on 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.
 - 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) 44, 35, 36, 37, 38, 39, 40, 41, 42, 33, 32, 31, 30, 29, 28, 27, 26 except (jt=lb) 43=121, 25=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.



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Job	Truss	Truss Type	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI		Ply	Lot 4 H3
400156	B2	Roof Special	ID:dwZTNCNXrqfJm8tRCSiY7DzSTnz-h9dKFk?Jp115P1vPQ_J7_XENxFNsDpvT3v8h7cyHLuk		1	I39353150
Wheeler Lumber,		Waverly, KS 66871	Job Reference (optional)			
1-11-4		7-3-4	14-4-7	20-0-0	27-8-14	14 2019 MiTek Industries, Inc. Wed Nov 20 07:55:27 2019 Page 1
1-11-4		5-4-0	7-1-4	5-7-9	7-8-14	7DzSTnz-h9dKFk?Jp115P1vPQ_J7_XENxFNsDpvT3v8h7cyHLuk
			05/29/2020		6x8 =	Scale: 3/16"=1'

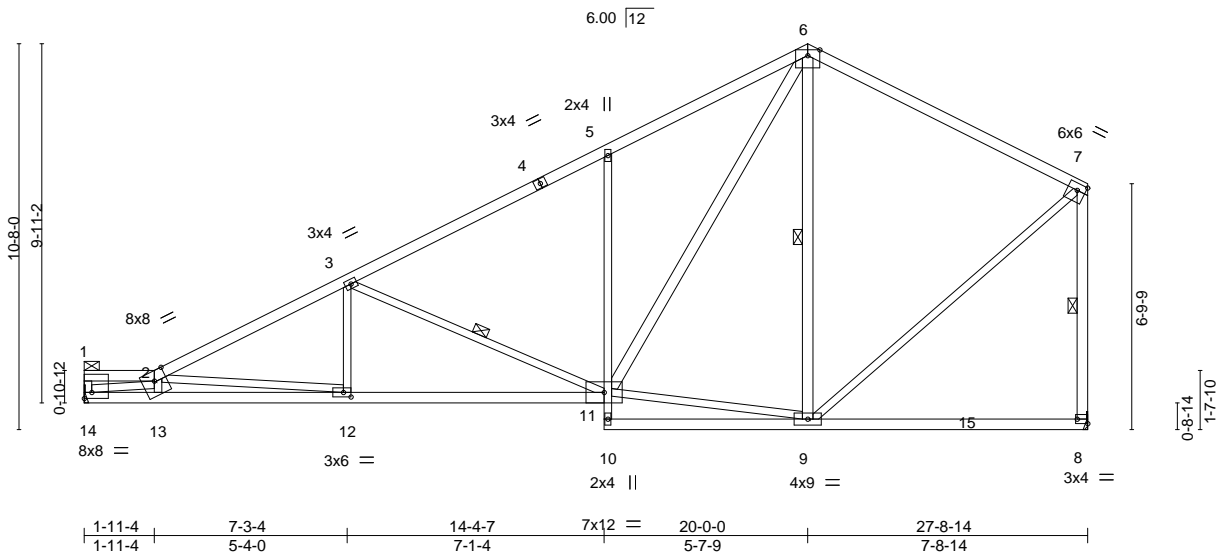


Plate Offsets (X,Y)-- [1:0-1-4,0-0-0], [7:Edge,0-2-4], [8:Edge,0-1-8], [12:0-2-8,0-1-8], [13:0-1-2,0-0-9], [14:Edge,0-2-0]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.60	Vert(LL)	-0.17 11-12	>999	360	MT20	167/144
TCDL 10.0	Lumber DOL	1.15	BC 0.60	Vert(CT)	-0.32 11-12	>999	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.72	Horz(CT)	0.07 8	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-S	Wind(LL)	0.12 12-13	>999	240		
				Weight: 181 lb		ET=40%			

LUMBER-
TOP CHORD 2x4 SPF No.2 *Except*
6-7: 2x4 SPF 2100F 1.8E
BOT CHORD 2x3 SPF No.2 *Except*
11-14: 2x4 SPF 2100F 1.8E, 8-10: 2x4 SPF No.2
WEBS 2x3 SPF No.2 *Except*
6-11,6-9,7-8: 2x4 SPF No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied of 3-1-5 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 1-2.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 9-10.
WEBS 1 Row at midpt 3-11, 6-9, 7-8

REACTIONS. (lb/size) 14=1237/Mechanical, 8=1237/Mechanical
Max Horz 14=310(LC 7)
Max Uplift 14=-181(LC 8), 8=-147(LC 8)
Max Grav 14=1274(LC 2), 8=1316(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-273/35, 2-3=-2495/347, 3-5=-1563/254, 5-6=-1535/401, 6-7=-892/221, 7-8=-1167/190
BOT CHORD 13-14=-589/3197, 12-13=-575/3180, 11-12=-403/2222, 5-11=-474/265
WEBS 2-14=-3079/426, 2-12=-978/173, 3-12=0/424, 3-11=-981/249, 9-11=-41/726, 6-11=-345/1199, 6-9=-500/145, 7-9=-89/910

- 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.
 - 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) except (jt=lb) 14=181, 8=147.

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

November 20,2019



			RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI 05/29/2020			
Job	Truss	Truss Type	240 s Jul	Ply	Lot 4 H3	
400156	B2	Roof Special		1	I39353150	
Wheeler Lumber, Waverly, KS 66871			14 2019 MiTek Industries, Inc. Wed Nov 20 07:55:27 2019 Page 2		Job Reference (optional)	
			ID:dwZTNcNXrqfJm8tRCSiY7DzSTnz-h9dKFk?Jp115P1vPQ_J7_XENxFNsDpvT3v8h7cyHLuk			
NOTES-			05/29/2020			
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.						

 **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

400156

Truss

B3

Truss Type

Roof Special

RELEASE FOR CONSTRUCTION

AS NOTED ON PLANS REVIEW

DEVELOPMENT SERVICES

LEE'S SUMMIT, MISSOURI

05/29/2019

Ply

1

Lot 4 H3

I39353151

Wheeler Lumber,

Waverly, KS 66871

10-8-0

3-11-4

3-11-4

11-9-9

7-10-5

19-6-0

7-8-7

20-0-0

0-6-0

27-8-14

7-8-14

4x9 =

Scale = 1:67.6

LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL	25.0	Plate Grip DOL	1.15	TC	0.94	Vert(LL)	-0.24 10-11 >999	360	MT20	197/144	
TCDL	10.0	Lumber DOL	1.15	BC	0.62	Vert(CT)	-0.44 10-11 >751	240			
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.94	Horz(CT)	0.08 6 n/a	n/a			
BCDL	10.0	Code IRC2018/TPI2014		Matrix-S		Wind(LL)	0.16 10-11 >999	240	Weight: 124 lb	FT = 10%	

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

REACTIONS.	
(lb/size)	12=1239/Mechanical, 6=1240/Mechanical
Max Horz	12=304(LC 7)
Max Uplift	12=-184(LC 8), 6=-143(LC 8)
Max Grav	12=1293(LC 2), 6=1291(LC 2)
FORCES.	
(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.	
TOP CHORD	2-3=-2075/287, 3-4=-1036/198, 4-5=-975/227, 5-6=-1163/185
BOT CHORD	11-12=-557/3352, 10-11=-550/3364, 9-10=-278/1808, 8-9=-572/0
WEBS	2-12=-3430/460, 2-10=-1587/275, 3-10=0/616, 3-9=-1181/319, 7-9=0/780, 4-9=-26/434, 5-9=-93/971

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.
- 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) except (jt=lb) 12=184, 6=143.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

November 20,2019

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

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

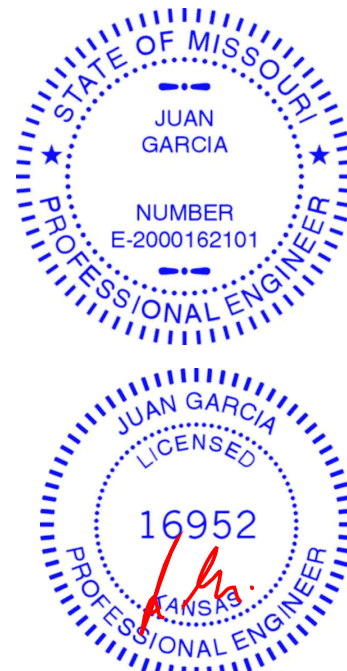
- Overall Dimensions:**
 - Left vertical height: 10-8-0
 - Right vertical height: 6-9-9
 - Bottom horizontal span: 35-15
 - Top horizontal span: 6-00
 - Left vertical offset: 2-5-15
 - Right vertical offset: 1-0-0
- Member Labels:**
 - Top chord: 3x6
 - Left vertical: 6x6
 - Right vertical: 6x6
 - Bottom chord: 2x4
 - Internal vertical: 8x8
 - Internal diagonal: 3x6
 - Internal horizontal: 8x12
 - Internal vertical (right): 8x12
 - Internal diagonal (right): 3x6
 - Internal horizontal (right): 2x4
 - Internal vertical (right): 3x6
- Joint Labels:** 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14.

LUMBER-		BRACING-	
TOP CHORD	2x4 SPF No.2 *Except* 2-4: 2x6 SPF No.2, 4-5: 2x4 SPF 2100F 1.8E	TOP CHORD	Structural wood sheathing directly applied or 4-11-7 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 1-2.
BOT CHORD	2x4 SPF No.2 *Except* 8-10: 2x3 SPF No.2	BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS	2x3 SPF No.2 *Except* 2-13,3-9,4-7,5-6: 2x4 SPF No.2	WEBS	1 Row at midpt 2-13, 3-9, 5-6

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-1970/65, 3-4=-998/73, 4-5=-968/93, 5-6=-1173/41
 BOT CHORD 12-13=-81/2600, 11-12=-78/2605, 10-11=-43/1696, 9-10=-14/1736, 8-10=-496/0
 WEBS 2-13=-2718/56, 2-11=-972/37, 3-11=0/522, 3-9=-1112/132, 7-9=0/700, 4-9=0/362,
 5-9=0/923

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) All bearings are assumed to be SPF No.2 crushing capacity of 425 psi.
- 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, 6.
- 9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



November 20, 2019

Job: 400156

Truss: B5

Truss Type: Roof Special

Wheeler Lumber, Waverly, KS 66871

RELEASE FOR

CONSTRUCTION

AS NOTED ON PLANS REVIEW

DEVELOPMENT SERVICES

LEE'S SUMMIT, MISSOURI

05/29/2020

Lot 4 H3

Job Reference (optional)

139353153

ID:dwZTNcNXrqlJm8tRCSiY7DzSTnz-5kiStm2B6yPgGvd_56sqc9sqMTLWQAsvltMLkwyHLuh

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1-11-4 7-11-4 13-9-9 19-6-0 20-0-0 27-8-14

1-11-4 6-0-0 5-10-5 5-8-7 0-6-0 7-8-14

7x12 ||

Scale = 1:69.6

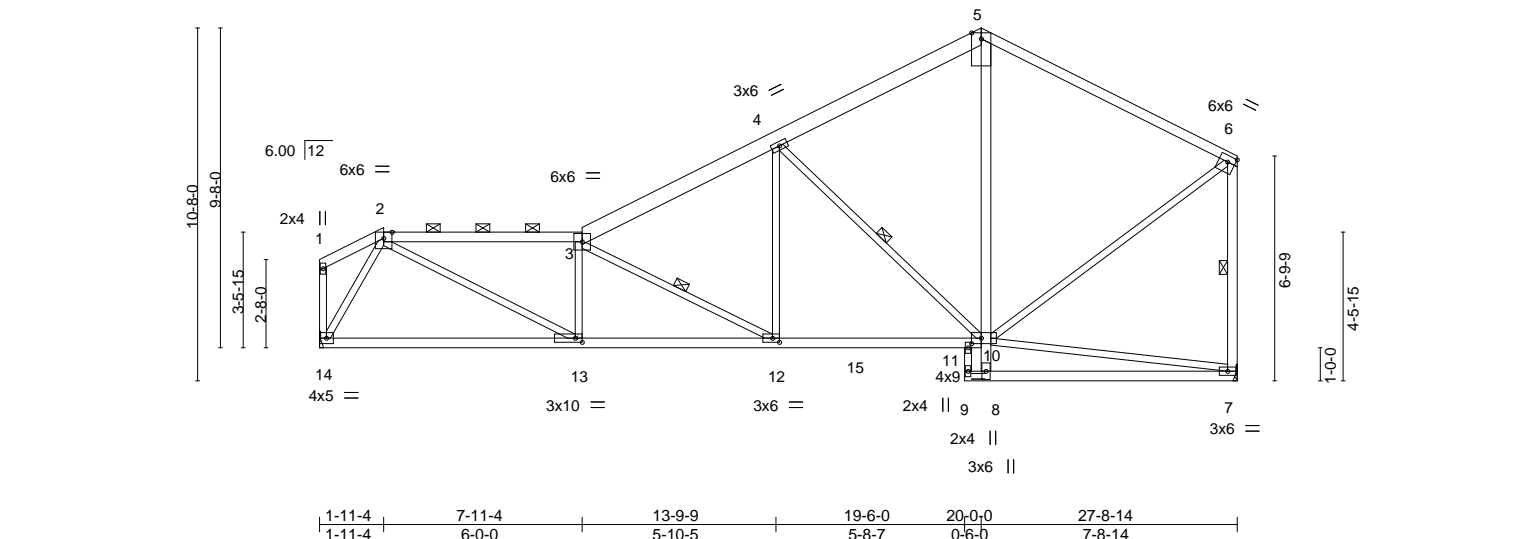
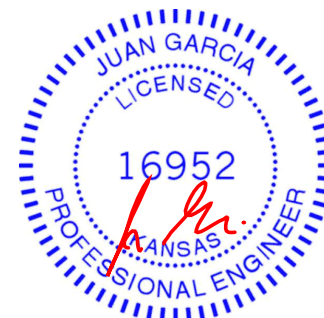


Plate Offsets (X,Y)--		[6:Edge,0-2-4], [10:0-3-8,0-2-0], [12:0-2-8,0-1-8], [13:0-2-8,0-1-8]	
LOADING (psf)	SPACING-	2-0-0	CSI.
TCLL 25.0	Plate Grip DOL	1.15	TC 0.78
TCDL 10.0	Lumber DOL	1.15	BC 0.79
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.71
BCDL 10.0	Code IRC2018/TPI2014		Matrix-S
		DEFL.	in (loc)
		Vert(LL)	-0.15 13-14 >999
		Vert(CT)	-0.29 13-14 >999
		Horz(CT)	0.06 7 n/a
		Wind(LL)	0.06 12-13 >999
		L/d	360
			240
			n/a
			240
		PLATES	MT20
		GRIP	197/144
		Weight: 138 lb	FT = 10%

LUMBER-		BRACING-	
TOP CHORD	2x4 SPF No.2 *Except* 3-5: 2x6 SPF No.2, 5-6: 2x4 SPF 2100F 1.8E	TOP CHORD	Structural wood sheathing directly applied or 5-5-5 oc purlins, except end verticals, and 2-0-0 oc purlins (2-8-12 max.): 2-3.
BOT CHORD	2x4 SPF No.2 *Except* 9-11: 2x3 SPF No.2	BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS	2x3 SPF No.2 *Except* 5-8,6-7: 2x4 SPF No.2	WEBS	1 Row at midpt 3-12, 4-10, 6-7

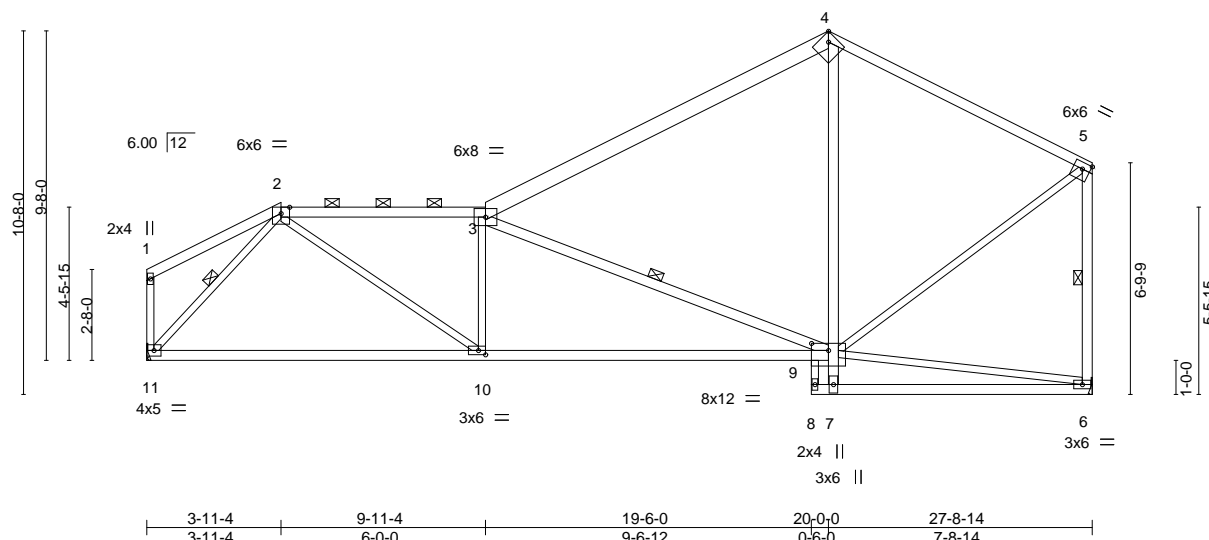
REACTIONS.	
(lb/size)	7=1237/Mechanical, 14=1237/Mechanical
Max Horz	14=244(LC 7)
Max Uplift	7=-7(LC 8), 14=-35(LC 8)
Max Grav	7=1295(LC 2), 14=1289(LC 2)
FORCES.	
(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.	
TOP CHORD	2-3=-2306/47, 3-4=-1748/67, 4-5=-984/84, 5-6=-991/95, 6-7=-1177/44
BOT CHORD	13-14=-159/713, 12-13=-54/2325, 11-12=-26/1524, 10-11=-25/1543, 9-11=-420/0
WEBS	2-13=0/1864, 3-13=-696/92, 3-12=-941/47, 4-12=0/674, 4-10=-995/113, 8-10=0/620, 5-10=0/472, 2-14=-1313/92, 6-10=0/979

- 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.
 - 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) 7, 14.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



November 20,2019

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 4 H3
400156	B6	Roof Special			1	I39353154
Wheeler Lumber, Waverly, KS 66871		<div style="text-align: center;"> 05/29/2020 </div>				Job Reference (optional) ID:dwZTNcNXrqJm8tRCSiY7DzSTnz-Zwsq562qtGXteCAfqN39NP_Nsej9dr3_X6vGNyHLug 14 2019 MiTek Industries, Inc. Wed Nov 20 07:55:31 2019 Page 1



Job 400156	Truss B7	Truss Type Roof Special	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI ID:dwZTNcNXrqJm8tRCSiY7DzSTnz-17QDIS3SeafOVonMDXvIhayDsG0nu1XCDBrSopyHLuf 05/29/2019		Lot 4 H3 Job Reference (optional) 14 2019 MiTek Industries, Inc. Wed Nov 20 07:55:32 2019 Page 1
Wheeler Lumber, Waverly, KS 66871			2-8-5 5-11-4 11-11-4 20-0-0 27-8-14 2-8-5 3-2-15 6-0-0 8-0-12 7-8-14 6x6 =		

Scale = 1:65.4

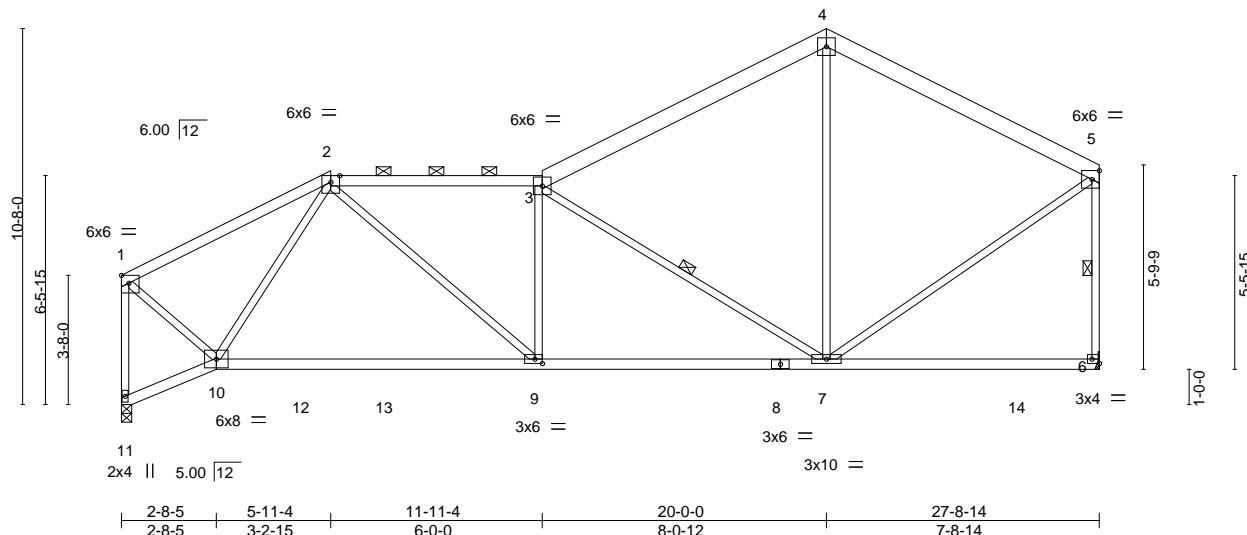


Plate Offsets (X,Y)-- [1:Edge,0-2-11], [6:Edge,0-1-8], [9:0-2-8,0-1-8]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.59	Vert(LL)	-0.29 9-10	>999	360	MT20	107/144
TCDL 10.0	Lumber DOL	1.15	BC 0.87	Vert(CT)	-0.50 9-10	>654	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.95	Horz(CT)	0.06 6	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-S	Wind(LL)	0.04 9	>999	240		
								Weight: 126 lb	ET=10%

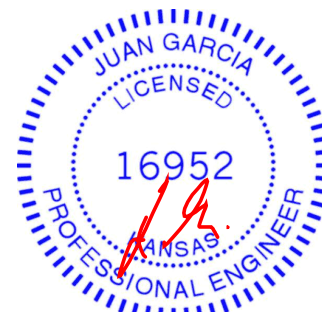
LUMBER-
 TOP CHORD 2x4 SPF No.2 *Except*
 3-4,4-5: 2x6 SPF No.2
 BOT CHORD 2x4 SPF No.2
 WEBS 2x3 SPF No.2

BRACING-
 TOP CHORD Structural wood sheathing directly applied of 4-9-6 oc purlins, except end verticals, and 2-0-0 oc purlins (3-8-6 max.): 2-3.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
 WEBS 1 Row at midpt 3-7, 5-6

REACTIONS. (lb/size) 11=1239/0-3-8, 6=1239/Mechanical
 Max Horz 11=236(LC 5)
 Max Uplift 11=-35(LC 8), 6=-7(LC 8)
 Max Grav 11=1302(LC 2), 6=1314(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-2=-992/42, 2-3=-1741/71, 3-4=-1009/72, 4-5=-978/96, 1-11=-1309/48, 5-6=-1174/48
 BOT CHORD 9-10=-119/1146, 7-9=-34/1744
 WEBS 2-10=-641/69, 2-9=0/835, 3-9=-316/84, 3-7=-1113/98, 4-7=0/392, 1-10=0/1103, 5-7=0/983

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - 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); 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.
 - All bearings are assumed to be SPF No.2 crushing capacity of 425 psi.
 - Refer to girder(s) for truss to truss connections.
 - Bearing at joint(s) 11 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, 6.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



November 20,2019

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16023 Swingley Ridge Rd
 Chesterfield, MO 63017

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

- Vertical Dimensions:**
 - Left side: 10-8-0 (total), 5-5-15 (top section), 3-8-0 (bottom section).
 - Right side: 5-9-9 (main height), 1-0-0 (bottom section).
- Horizontal Dimensions:**
 - Bottom: 2-8-5, 3-11-4, 9-11-4, 20-0-0, 27-8-14.
 - Below bottom: 2-8-5, 1-2-15, 6-0-0, 10-0-12, 7-8-14.
- Member Labels:**
 - Top chord: 6.00 | 12, 6x6 =, 6x8 =, 6x6 =.
 - Left side: 4x5 =, 1, 11, 2x4 ||, 5.00 | 12.
 - Internal verticals: 2, 3, 9, 3x6 =, 7, 4x9 =, 3x10 =.
 - Right side: 5, 6x6 =, 6, 3x4 ||.
 - Bottom chord: 10, 6x6 =, 8, 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 0.99	Vert(LL) -0.22 7-9	>999 360	MT20	107/144
TCDL 10.0	Lumber DOL 1.15	BC 0.92	Vert(CT) -0.47 7-9	>710 240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.74	Horz(CT) 0.07 6	n/a n/a		
BCDL 10.0	Code IRC2018/TPI2014	Matrix-S	Wind(LL) 0.05 9	>999 240	Weight 124 lb	ET 10%

PLATES **GRIP**
MT20 197/144

Weight: 124 lb **ET** 0%

applied, except end verticals, and

0-0cc bracing, Except:

6

STATE OF MISSOURI
JUAN GARCIA
NUMBER
E-2000162101
PROFESSIONAL ENGINEER

REACTIONS. (lb/size) 11=1239/0-3-8, 6=1239/Mechanical
Max Horz 11=238(LC 5)
Max Uplift 11=-34(LC 8), 6=-7(LC 8)
Max Grav 11=1275(LC 2), 6=1308(LC 2)

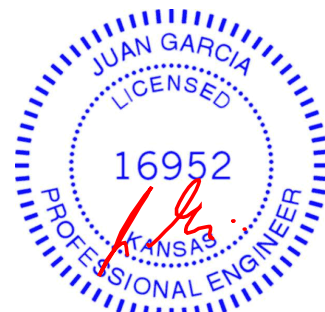
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	1-2=-953/43, 2-3=-1998/66, 3-4=-1036/59, 4-5=-995/91, 1-11=-1245/56, 5-6=-1183/42
BOT CHORD	9-10=-149/1034, 7-9=-60/2007
WEBS	2-10=-662/58, 2-9=0/1237, 3-9=-502/109, 3-7=-1301/122, 4-7=0/349, 1-10=-21/1110, 5-7=0/994

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 6) All bearings are assumed to be SPF No.2 crushing capacity of 425 psi.
- 7) Refer to girder(s) for truss to truss connections.
- 8) Bearing at joint(s) 11 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 11, 6.
- 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and conforms to standard ANSI/TPI 1.

November 20, 2019



Job	Truss	Truss Type	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI 05/29/2020		
400156	B8	Roof Special	Ply	1	Lot 4 H3 I39353156
Wheeler Lumber, Waverly, KS 66871			Job Reference (optional) ID:dwZTNcNXrfJm8tRCSIY7DzSTnz-VJ_bWn44PtnF7yMZnFQXEoUIOgLBdX3MRrb?LFyHLue		
NOTES- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.			8.240 s Jul 14 2019 MiTek Industries, Inc. Wed Nov 20 07:55:33 2019 Page 2		

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

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



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Technical drawing of a roof truss structure. The drawing shows a side elevation of the truss with various members labeled with numbers and dimensions. The overall height is 10.8.0, and the overall width is 10.0. The truss is supported by a foundation. The members are labeled as follows:

- Top chord: 1, 2, 3, 4, 5, 6
- Bottom chord: 11, 10, 9, 8, 14
- Vertical members: 12, 13, 14
- Diagonal members: 1, 2, 3, 4, 5, 6
- Other members: 1, 2, 3, 4, 5, 6, 11, 10, 9, 8, 14

Dimensions and other labels include:

- Overall height: 10.8.0
- Overall width: 10.0
- Member 1: 2x4
- Member 2: 6x8
- Member 3: 6x6
- Member 4: 3x6
- Member 5: 6x6
- Member 6: 6x6
- Member 11: 6x6
- Member 10: 3x6
- Member 9: 3x6
- Member 8: 3x10
- Member 14: 3x4
- Member 12: 4x5
- Member 13: 20-0-0
- Member 14: 27-8-14

LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL 1.15	TC 0.73	Vert(LL) -0.18 10-11 >999 360	MT20	107/144
TCDL 10.0	Lumber DOL 1.15	BC 0.76	Vert(CT) -0.38 10-11 >873 240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.90	Horz(CT) 0.08 7 n/a n/a		
BCDL 10.0	Code IRC2018/TPI2014	Matrix-S	Wind(LL) 0.05 10 >999 240	Weight 127 lb	ET 40%

PLATES **GRIP**
MT20 197/144

Weight: 127 lb **ET** 0%

applied of 4-11-11 bc burnins;
burnins (4-10-14 max.): 2-3.
0-0 cc bracing.
-8, 6-7

STATE OF MISSOURI
JUAN GARCIA
NUMBER
E-2000162101
PROFESSIONAL ENGINEER

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

TOP CHORD	2-3=-936/33, 3-4=-1996/63, 4-5=-999/75, 5-6=-959/95, 6-7=-1174/47
BOT CHORD	11-12=-200/799, 10-11=-108/2183, 8-10=-50/1787
WEBS	2-11=0/1289, 3-11=-1473/66, 4-8=-1150/119, 5-8=0/399, 2-12=-1646/65, 6-8=0/978, 3-10=-584/76, 4-10=0/680

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 6) All bearings are assumed to be SPF No.2 crushing capacity of 425 psi.
- 7) Refer to girder(s) for truss to truss connections.
- 8) Bearing at joint(s) 12 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 12, 7.
- 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and conforms to standard ANSI/TPI 1.

November 20, 2019

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MI-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 ECSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

Job	Truss	Truss Type	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI 05/29/2020		Lot 4 H3
400156	B9	Roof Special			I39353157
Wheeler Lumber, Waverly, KS 66871		8.240 s Jul 14 2019 MiTek Industries, Inc. Wed Nov 20 07:55:34 2019 Page 2		Job Reference (optional)	
		ID:dwZTNcNXrqfJm8tRCSiY7DzSTnz-zVYzj75iABv6k6xlKyxmm?1XB4kwMxoVgVKZtiyHLud			

NOTES-

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

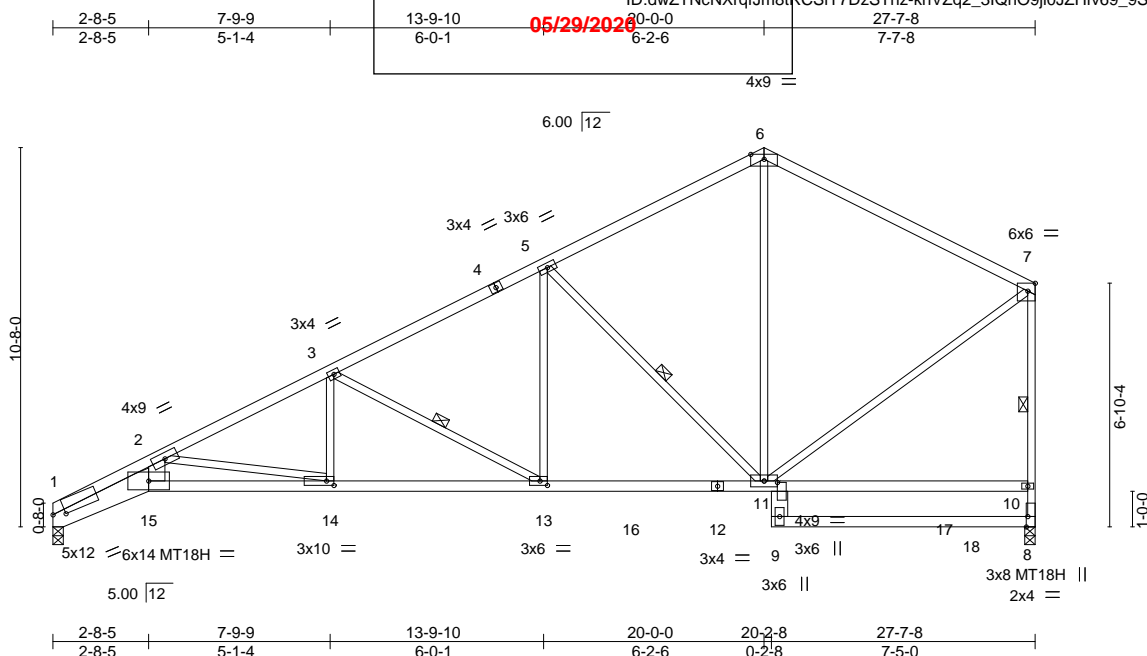
 **WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.**

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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 4 H3
400156	B10	Roof Special			1	I39353158
Wheeler Lumber, Waverly, KS 66871		ID:dwZTNcNXrqlJm8tRCSiY7DzSTnz-knVZq2_3lQnO9jI0JZHfv69_9Sgzlr4Acba2jyHLum 05/29/2026				
		14 2019 MiTek Industries, Inc. Wed Nov 20 07:55:25 2019 Page 1 Job Reference (optional)				



Scale = 1:64.8

Plate Offsets (X,Y)-- [1:0-4-3,0-1-5], [7:0-2-8,Edge], [8:0-3-8,Edge], [11:0-0-8,0-4-8], [13:0-2-8,0-1-8], [14:0-2-8,0-1-8]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.81	Vert(LL)	-0.25 14-15	>999	360	MT20	107/144
TCDL 10.0	Lumber DOL	1.15	BC 0.69	Vert(CT)	-0.44 14-15	>747	240	MT18H	97/144
BCLL 0.0 *	Rep Stress Incr	YES	WB 1.00	Horz(CT)	0.22 8	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-S	Wind(LL)	0.19 14-15	>999	240		
								Weight: 127.45	ET=10%

LUMBER-
 TOP CHORD 2x4 SPF No.2 *Except*
 6-7: 2x4 SPF 2100F 1.8E
 BOT CHORD 2x4 SPF No.2 *Except*
 1-15: 2x8 SP DSS, 12-15: 2x4 SPF 2100F 1.8E, 9-11: 2x6 SPF No.2
 WEBS 2x3 SPF No.2 *Except*
 2-15: 2x6 SPF No.2

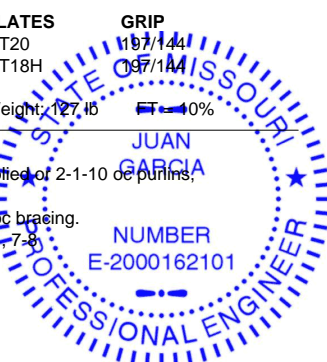
BRACING-
 TOP CHORD Structural wood sheathing directly applied or 2-1-10 of purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 8-3-6 of bracing.
 WEBS 1 Row at midpt 3-13, 5-11, 7-9

REACTIONS. (lb/size) 1=1232/0-3-8, 8=1232/0-3-8
 Max Horz 1=321(LC 7)
 Max Uplift 1=176(LC 8), 8=152(LC 8)
 Max Grav 1=1300(LC 2), 8=1449(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-2=-5408/987, 2-3=-2615/399, 3-5=-1760/281, 5-6=-957/199, 6-7=-968/220, 8-10=-1299/193, 7-10=-1224/195
 BOT CHORD 1-15=-1066/4952, 14-15=-898/4059, 13-14=-433/2357, 11-13=-208/1539
 WEBS 2-15=-337/1923, 2-14=-1725/471, 3-14=-8/478, 3-13=-930/255, 5-13=-40/690, 5-11=-1003/282, 7-11=-107/1005, 6-11=-47/459

- 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 MT20 plates unless otherwise indicated.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - All bearings are assumed to be SPF No.2 crushing capacity of 425 psi.
 - Bearing at joint(s) 1 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb)

Continued on Page 2



November 20, 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</div> <div>AS NOTED ON PLANS REVIEW</div> <div>DEVELOPMENT SERVICES</div> <div>LEE'S SUMMIT, MISSOURI</div> <div>05/29/2020</div>			Ply	Lot 4 H3
400156	B10	Roof Special	8			1	I39353158
Wheeler Lumber, Waverly, KS 66871			8.240 s Jul 14 2019 MiTek Industries, Inc. Wed Nov 20 07:55:25 2019 Page 2			Job Reference (optional)	
NOTES-			ID:dwZTNcNXrqfJm8tRCSiY7DzSTnz-knVZq2_3lQnO9jl0JZHfv69_9Sgzlr4Acbfa2jyHLum				
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.							

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

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Chesterfield, MO 63017

Job	Truss	Truss Type	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI			Ply	Lot 4 H3	I39353159
400156	B11	Roof Special	1			1	Job Reference (optional)	
Wheeler Lumber, Waverly, KS 66871		ID:dwZTNcNXrqJm8tRCSiY7DzSTnz-Cz3x2O?h2kvEntKDsHouSJi9Cr0bUlvKqFO8b9yHLul 05/29/2020						
		8x8 // 6.00 12' 10-8-0 6x14 MT18H = 3x10 = 4x9 = 2x4 // 2x4 // 3x4 // 6x6 = 6-10-4 3-0-0						
		2-8-5 7-9-9 14-2-12 20-1-0 21-6-0 27-7-8 2-8-5 5-1-4 6-5-3 5-10-4 1-5-0 6-1-8						

Scale: 3/16"=1'

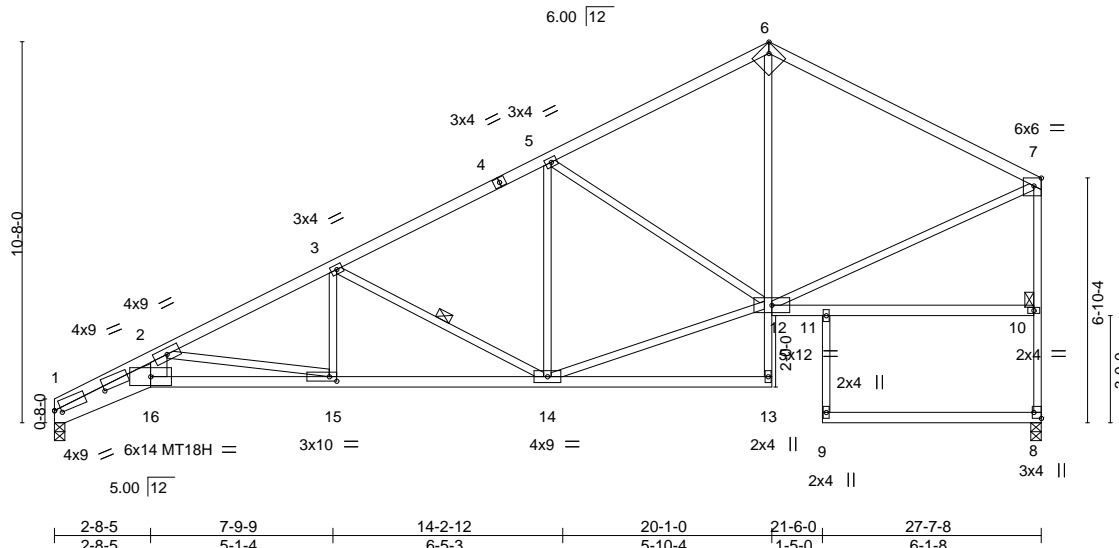


Plate Offsets (X,Y)-- [1:1-6-2,0-0-6], [1:0-2-3,0-1-8], [6:0-2-12,Edge], [7:0-2-8,Edge], [8:Edge,0-2-8], [15:0-2-8,0-1-8]									
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d		PLATES GRIP	
TCLL	25.0	Plate Grip DOL	1.15	TC	0.79	Vert(LL)	-0.22 15-16 >999 360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.66	Vert(CT)	-0.41 15-16 >805 240	MT18H	197/144
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.96	Horz(CT)	0.22 8 n/a n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-S		Wind(LL)	0.19 15-16 >999 240	Weight: 130 lb	FT = 10%

LUMBER-

TOP CHORD 2x4 SPF No.2 *Except*
6-7: 2x4 SPF 2100F 1.8E
BOT CHORD 2x4 SPF No.2 *Except*
1-16: 2x8 SP DSS, 13-16: 2x4 SPF 2100F 1.8E
6-13,9-11: 2x3 SPF No.2
WEBS 2x3 SPF No.2 *Except*
2-16: 2x6 SPF No.2

BRACING-

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

REACTIONS.

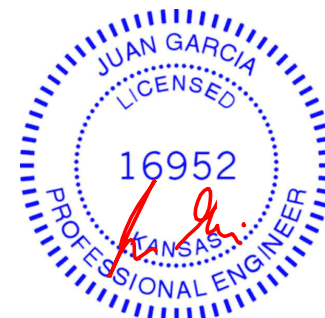
(lb/size) 1=1232/0-3-8, 8=1232/0-3-8
Max Horz 1=321(LC 7)
Max Uplift 1=176(LC 8), 8=152(LC 8)

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

TOP CHORD 1-2=-5119/986, 2-3=-2469/399, 3-5=-1649/280, 5-6=-1150/214, 6-7=-1167/230, 8-10=-1171/183, 7-10=-1153/186
BOT CHORD 1-16=-1065/4588, 15-16=-898/3783, 14-15=-433/2179, 6-12=-56/512
WEBS 2-16=-337/1733, 2-15=-1625/471, 3-15=-9/398, 3-14=-896/256, 12-14=-209/1447, 5-12=-597/232, 7-12=-124/1003

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 MT20 plates unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SPF No.2 crushing capacity of 425 psi.
- Bearing at joint(s) 1 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=176, 8=152.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



November 20,2019

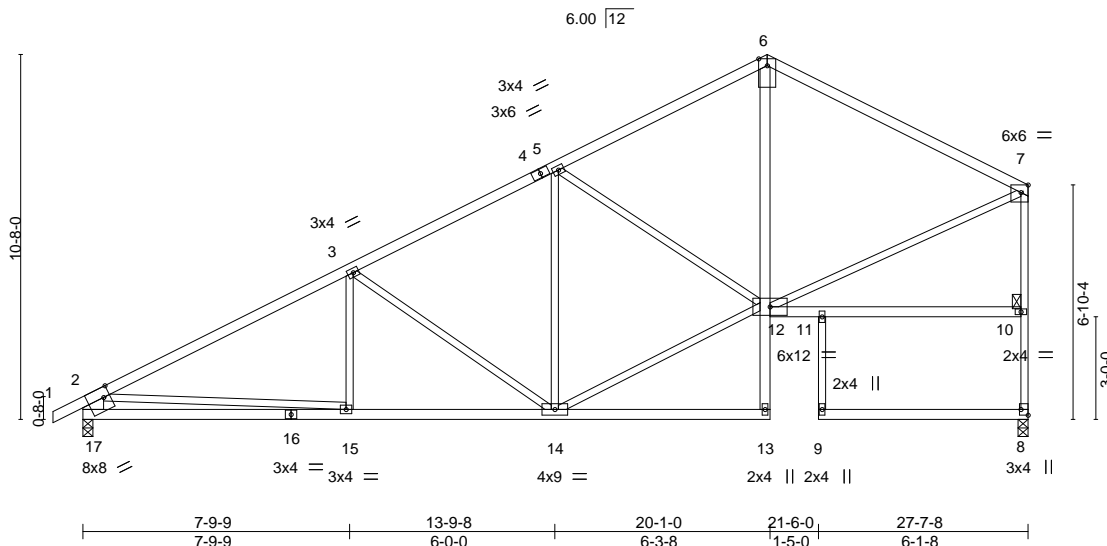
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

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16023 Swingley Ridge Rd
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Job 400156	Truss C1	Truss Type Roof Special	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI ID:dwZTNcNXrqfJm8tRCSiY7DzSTnz-Si5LxT6KxV1zMGWxugS?JDaiCU7M5Rlev946P8yHLuc 05/29/2020		Lot 4 H3 Job Reference (optional) 139353160
Wheeler Lumber, Waverly, KS 66871			240 s Jul 14 2019 MiTek Industries, Inc. Wed Nov 20 07:55:35 2019 Page 1 13-9-8 20-0-0 21-6-0 27-7-8 6-0-0 6-2-8 1-6-0 6-1-8 6x10 M18SHS		



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	L/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.71	Vert(LL)	-0.09 15-17	>999	360	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.49	Vert(CT)	-0.19 15-17	>999	240	M18SHS	197/144
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.73	Horz(CT)	-0.10 8	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-S	Wind(LL)	0.05 14-15	>999	240	Weight: 133 lb	FT = 10%

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2 *Except* 6-7: 2x4 SPF 2100F 1.8E	TOP CHORD Structural wood sheathing directly applied or 3-5-1 oc purlins, except end verticals.
BOT CHORD 2x4 SPF No.2 *Except* 9-11: 2x3 SPF No.2	BOT CHORD Rigid ceiling directly applied or 9-0-13 oc bracing.
WEBS 2x3 SPF No.2 *Except* 2-17: 2x8 SP DSS	WEBS 1 Row at midpt 7-8

REACTIONS. (lb/size) 17=1309/0-3-8, 8=1223/0-3-8
 Max Horz 17=332(LC 5)
 Max Uplift 17=-201(LC 8), 8=-151(LC 8)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-1946/273, 3-5=-1420/251, 5-6=-1143/213, 6-7=-1162/229, 2-17=-1234/245,
 8-10=-1162/183, 7-10=-1146/184
 BOT CHORD 15-17=-414/786, 14-15=-332/1629, 6-12=-53/506
 WEBS 3-14=-548/189, 12-14=-193/1302, 5-12=-367/195, 7-12=-123/998, 2-15=0/844

- 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 MT20 plates unless otherwise indicated.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 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) except (jt=lb) 17=201, 8=151.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



November 20,2019

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>CONSTRUCTION</div> <div>AS NOTED ON PLANS REVIEW</div> <div>DEVELOPMENT SERVICES</div> <div>LEE'S SUMMIT, MISSOURI</div> <div>ID:dwZTncNXrqfJm8tRCSiY7DzSTnz-OzvUL5?MzgQ33tI55yOD2nILqlepZFXePRo5RnyHJSZ</div>				Ply	Lot 4 H3	I39353161
400156	C2	Roof Special					1	Job Reference (optional)	
Wheeler Lumber, Waverly, KS 66871			8.240 s Jul 27 2019 MiTek Industries, Inc. Wed Nov 20 10:42:02 2019 Page 1						
<div><div>-0-10-8 2-3-8 6-1-12 10-7-0 15-3-8 20-0-0 27-7-8</div><div>0-10-8 2-3-8 3-10-4 4-5-4 5-8-8 4-8-8 7-7-8</div></div>			<div>05/29/2020</div> <div>Scale = 1:65.2</div>						

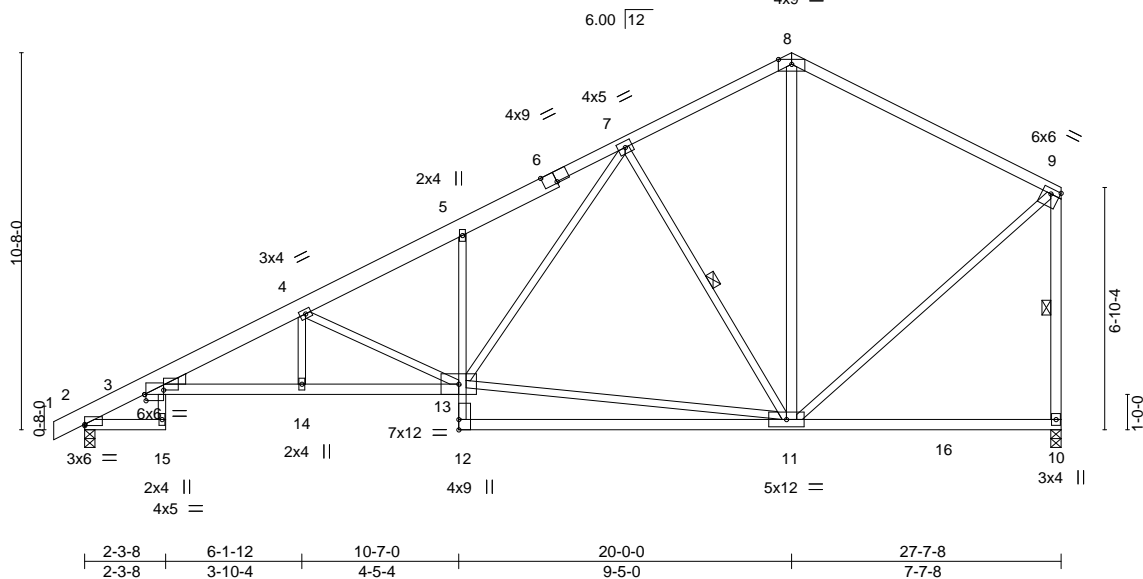


Plate Offsets (X,Y)--		[2:0-0-0,0-0-7], [3:0-0-8,0-2-2], [3:0-6-8,0-1-8], [6:0-4-8,Edge], [9:Edge,0-1-12]					
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d
TCLL 25.0	Plate Grip DOL	1.15	TC 0.97	Vert(LL)	-0.25 11-12	>999	360
TCDL 10.0	Lumber DOL	1.15	BC 0.62	Vert(CT)	-0.53 11-12	>623	240
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.70	Horz(CT)	0.25 10	n/a	n/a
BCDL 10.0	Code IRC2018/TP12014		Matrix-S	Wind(LL)	0.18 15	>999	240
				PLATES	GRIP		
				MT20	197/144		
				Weight 447 lb	FT = 10%		

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2 *Except* 1-6: 2x6 SP DSS	TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD 2x4 SPF No.2 *Except* 3-15,5-12: 2x3 SPF No.2, 3-13: 2x4 SPF 2100F 1.8E	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 2-15.
WEBS 2x3 SPF No.2 *Except* 8-11,9-10: 2x4 SPF No.2	WEBS 1 Row at midpt 7-11, 9-10
WEDGE Left: 2x4 SPF No.2	
REACTIONS. (lb/size) 2=1314/0-3-8, 10=1229/0-3-8 Max Horz 2=327(LC 5) Max Uplift 2=-192(LC 8), 10=-152(LC 8) Max Grav 2=1346(LC 2), 10=1309(LC 2)	

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-872/30, 3-4=-2944/461, 4-5=-2075/341, 5-6=-2016/422, 6-7=-1959/437, 7-8=-853/209, 8-9=-890/220, 9-10=-1169/189
BOT CHORD 3-14=-558/2797, 13-14=-558/2797
WEBS 4-13=-1119/283, 11-13=-177/970, 7-13=-270/1162, 7-11=-848/306, 8-11=-72/428, 9-11=-88/923

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
5) All bearings are assumed to be SPF No.2 crushing capacity of 425 psi.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 192 lb uplift at joint 2 and 152 lb uplift at joint 10.
7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced

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/TP1 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
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Job	Truss	Truss Type	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI 05/29/2020		Lot 4 H3	I39353161
400156	C2	Roof Special			1	Job Reference (optional)
Wheeler Lumber, Waverly, KS 66871			8.240 s Jul 27 2019 MiTek Industries, Inc. Wed Nov 20 10:42:02 2019 Page 2 ID:dwZTNcNXrqfJm8tRCsIY7DzSTnz-OzvUL5?MzgQ33tI55yOD2nILqlepZFXePRo5RnyHJSZ			

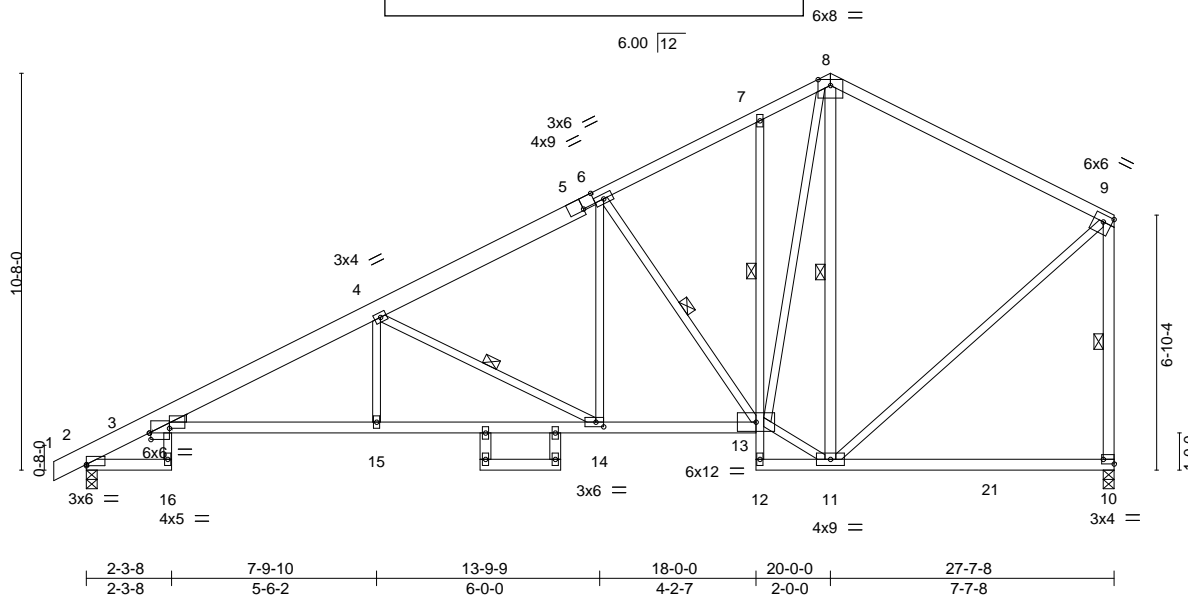
 **WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.**

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>CONSTRUCTION</div> <div>AS NOTED ON PLANS REVIEW</div> <div>DEVELOPMENT SERVICES</div> <div>LEE'S SUMMIT, MISSOURI</div> <div>ID:dwZTNcNXrfJm8tRCSY7DzSTnz-OERvvvC0zuZfbU5Mb1CCEMvG99Td2y28KaQUXlyHJSI</div> <div>05/29/2020</div>					Ply	Lot 4 H3	I39353162
400156	C3	Roof Special						1	Job Reference (optional)	
Wheeler Lumber, Waverly, KS 66871								8.240 s Jul 27 2019 MiTek Industries, Inc. Wed Nov 20 10:42:19 2019 Page 1		
								Y7DzSTnz-OERvvvC0zuZfbU5Mb1CCEMvG99Td2y28KaQUXlyHJSI		
								Scale = 1:61.9		



Scale = 1:61.9

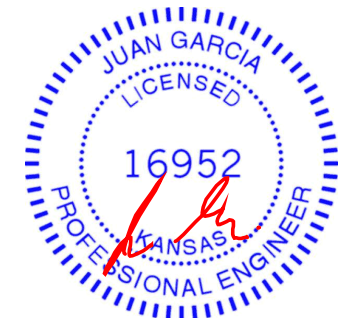
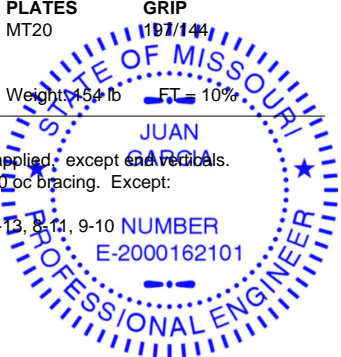
Plate Offsets (X,Y)-- [2:0-0-0,0-0-7], [3:0-0-8,0-2-2], [3:0-6-8,0-1-8], [5:0-4-5,Edge], [9:Edge,0-2-4], [10:Edge,0-1-8], [14:0-2-8,0-1-8]

LOADING (psf)	SPACING-	CSL	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	2-0-0	TC 0.93	Vert(LL) -0.27	3-15	>999	360	MT20	197/144
TCDL 10.0	Plate Grip DOL 1.15	BC 0.57	Vert(CT) -0.48	3-15	>681	240		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.62	Horz(CT) 0.31	10	n/a	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Wind(LL) 0.22	16	>999	240		
	Code IRC2018/TP12014						Weight 154 lb	FT = 10%

LUMBER-		BRACING-	
TOP CHORD	2x4 SPF No.2 *Except* 1-5: 2x6 SP DSS	TOP CHORD	Structural wood sheathing directly applied, except end verticals.
BOT CHORD	2x4 SPF No.2 *Except* 3-16,7-12: 2x3 SPF No.2, 3-13: 2x4 SPF 2100F 1.8E	BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing. Except: 1 Row at midpt 7-13
WEBS	2x3 SPF No.2 *Except* 8-11,9-10,17-19,18-20: 2x4 SPF No.2	WEBS	1 Row at midpt 4-14, 6-13, 8-11, 9-10
WEDGE			
Left: 2x3 SPF No.2			
REACTIONS. (lb/size) 2=1314/0-3-8, 10=1229/0-3-8			
Max Horz 2=327(LC 5)			
Max Uplift 2=-192(LC 8), 10=-152(LC 8)			
Max Grav 2=1346(LC 2), 10=1309(LC 2)			

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-872/30, 3-4=-2641/402, 4-5=-1699/281, 5-6=-1542/285, 6-7=-1105/240,
7-8=-1024/295, 8-9=-881/224, 9-10=-1164/196
BOT CHORD 3-15=-478/2466, 14-15=-477/2466, 13-14=-198/1445
WEBS 4-15=0/285, 4-14=-1155/316, 6-14=-80/721, 6-13=-839/234, 11-13=-63/811,
8-13=-292/1170, 8-11=-750/158, 9-11=-94/914

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) All plates are 2x4 MT20 unless otherwise indicated.
 - 4) 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) All bearings are assumed to be SPF No.2 crushing capacity of 425 psi.
 - 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 192 lb uplift at joint 2 and 152 lb uplift at joint 10.



November 20,2019

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.

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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 05/29/2020</div>		Ply	Lot 4 H3	I39353162
400156	C3	Roof Special			1	Job Reference (optional)	
Wheeler Lumber, Waverly, KS 66871					8,240 s Jul 27 2019 MiTek Industries, Inc. Wed Nov 20 10:42:19 2019 Page 2 ID:dwZTNcNXrqfJm8tRCSY7DzSTnz-OERvvvC0zuZfbU5Mb1CCeMvG99Td2y28KaQUXIyHJSI		

NOTES-
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.

 **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 05/29/2020			Ply	Lot 4 H3	139353163
400156	C4	Roof Special				1	Job Reference (optional)	

Wheeler Lumber, Waverly, KS 66871

8,240 s Jul 27 2019 MiTek Industries, Inc. Wed Nov 20 10:42:36 2019 Page 1
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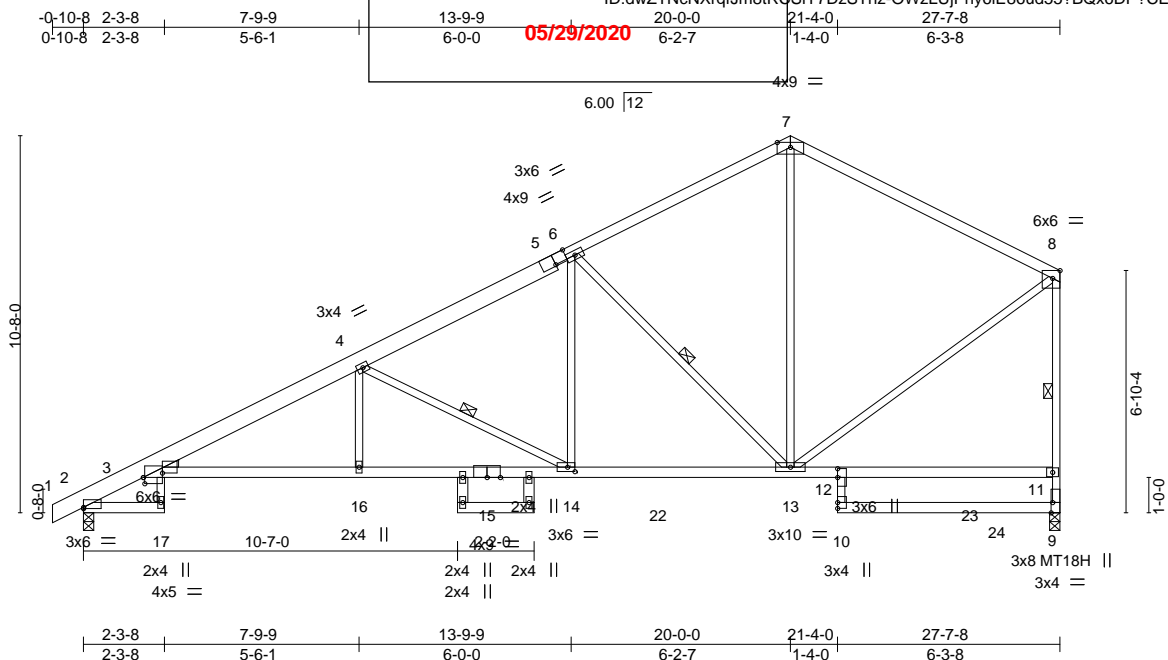


Plate Offsets (X,Y)--	[2:0-0-0,0-0-7], [3:0-0-8,0-2-2], [3:0-6-8,0-1-8], [5:0-4-4,Edge], [8:0-2-8,Edge], [9:0-3-8,Edge], [12:0-3-0,0-0-0], [14:0-2-8,0-1-8]
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LOADING (psf)	SPACING-	2-0-0	CSL	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.76	Vert(LL)	-0.28	3-16	>999	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.79	Vert(CT)	-0.49	3-16	>668	MT18H	197/144
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.69	Horz(CT)	0.30	9	n/a		
BCDL 10.0	Code IRC2018/TP12014		Matrix-S	Wind(LL)	0.22	17	>999		

LUMBER-		BRACING-	
TOP CHORD	2x4 SPF No.2 *Except* 7-8: 2x4 SPF 2100F 1.8E, 1-5: 2x6 SP DSS	TOP CHORD	Structural wood sheathing directly applied or 2-11-6 oc bracing, except end verticals.
BOT CHORD	2x4 SPF No.2 *Except* 3-17,10-12: 2x3 SPF No.2, 3-15: 2x4 SPF 2100F 1.8E	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 2-17. 8-7-0 oc bracing: 14-16
WEBS	2x3 SPF No.2 *Except* 18-20,19-21: 2x4 SPF No.2	WEBS	1 Row at midpt 4-14, 6-13, 8-9
WEDGE	Left: 2x3 SPF No.2		

REACTIONS.	(lb/size) 2=1316/0-3-8, 9=1231/0-3-8 Max Horz 2=326(LC 5) Max Uplift 2=192(LC 8), 9=152(LC 8) Max Grav 2=1376(LC 2), 9=1438(LC 2)
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FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	2-3=-889/30, 3-4=-2713/399, 4-5=-1780/286, 5-6=-1623/290, 6-7=-992/207, 7-8=-986/226, 9-11=-1297/190, 8-11=-1208/197
BOT CHORD	3-16=-474/2532, 15-16=-473/2531, 14-15=-473/2531, 14-22=-207/1523, 13-22=-207/1523
WEBS	4-16=0/280, 4-14=-1140/301, 6-14=-65/750, 6-13=-963/279, 7-13=-50/476, 8-13=-110/1005

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) All plates are MT20 plates unless otherwise indicated.
 - 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - 6) All bearings are assumed to be SPF No.2 crushing capacity of 425 psi.
 - 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 192 lb uplift at joint 2 and 152 lb uplift at joint 9.

November 20,2019

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.

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Ply		Lot 4 H3	I39353163
400156	C4	Roof Special	1		Job Reference (optional)	
Wheeler Lumber, Waverly, KS 66871			8,240 s Jul 27 2019 MiTek Industries, Inc. Wed Nov 20 10:42:36 2019 Page 2			
			ID:dwZTNcNXrqfJm8tRCsIy7DzSTnz-OWzLUjPhy6iE86ud55?BQx6DP?CEXd8fEj1uepyHJS1			
NOTES-			05/29/2020			
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.						

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

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Chesterfield, MO 63017

Job	Truss	Truss Type	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI			Ply	Lot 4 H3	I39353164	
400156	C5	Roof Special	ID:dwZTncNXrqfJm8tRCSiY7DzSTnz-ofvE_B9Tt1fT1OvhD2A0GHZKVmDmfxN2Rnt4LyHLuX			1	Job Reference (optional)		
Wheeler Lumber,		Waverly, KS 66871		14 2019 MiTek Industries, Inc. Wed Nov 20 07:55:40 2019 Page 1					
-0-10-8		7-9-9		12-9-0		20-0-0		21-4-0	
0-10-8		7-9-9		4-11-8		7-3-0		1-4-0	
						4x9		27-7-8	
								6-3-8	
								Scale = 1:67.4	

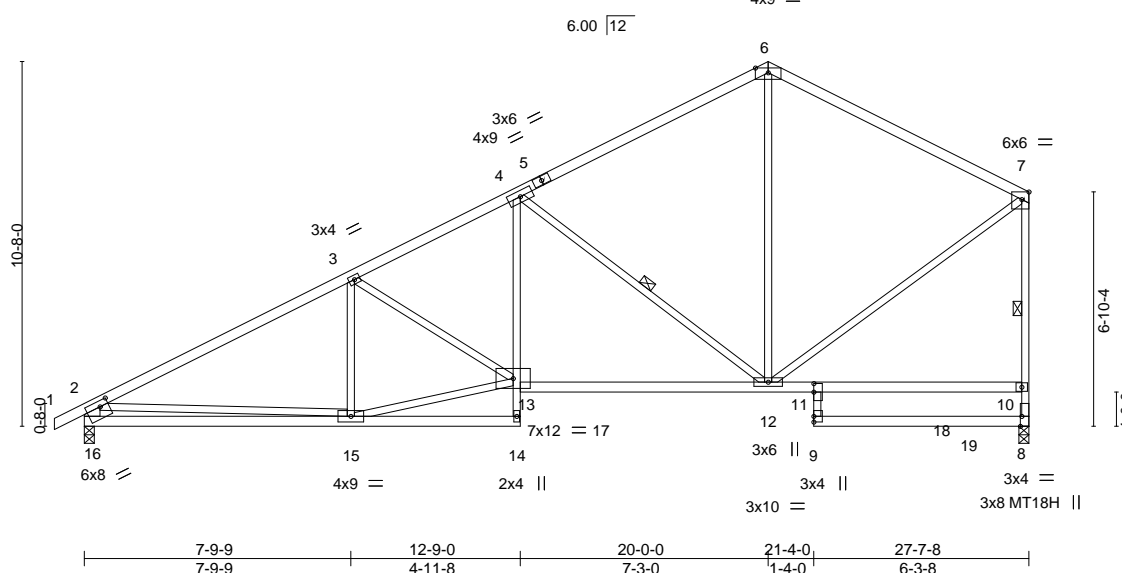


Plate Offsets (X,Y)-- [7:0-2-8,Edge], [8:0-3-8,Edge], [11:0-3-0,0-0-0], [16:0-3-0,0-2-0], [16:0-2-7,0-1-4]

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 0.75	Vert(LL)	-0.15 12-13	>999	360	MT20	107/144
TCDL 10.0	Lumber DOL	1.15	BC 0.77	Vert(CT)	-0.28 12-13	>999	240	MT18H	97/144
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.86	Horz(CT)	0.07 8	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-S	Wind(LL)	0.07 13	>999	240		
				Weight: 126 lb		E=10%			

LUMBER-
TOP CHORD 2x4 SPF No.2 *Except*
6-7: 2x4 SPF 2100F 1.8E
BOT CHORD 2x4 SPF No.2 *Except*
4-14,9-11: 2x3 SPF No.2
WEBS 2x3 SPF No.2 *Except*
2-16: 2x6 SP DSS

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-3-5 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
8-8-9 oc bracing: 15-16
6-0-0 oc bracing: 14-15.
WEBS 1 Row at midpt 4-12, 7-8

REACTIONS. (lb/size) 16=1307/0-3-8, 8=1227/0-3-8
Max Horz 16=332(LC 5)
Max Uplift 16=-200(LC 8), 8=-152(LC 8)
Max Grav 16=1359(LC 2), 8=1431(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2057/270, 3-4=-1909/320, 4-6=-1013/197, 6-7=-987/225, 2-16=-1232/244,
8-10=-1292/190, 7-10=-1207/195
BOT CHORD 15-16=-451/948, 4-13=-65/716, 12-13=-262/1708
WEBS 3-15=-298/150, 13-15=-304/1813, 4-12=-1078/316, 6-12=-26/447, 2-15=0/867,
7-12=-111/1008

- 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 MT20 plates unless otherwise indicated.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - 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) except (jt=lb) 16=200, 8=152.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



November 20,2019

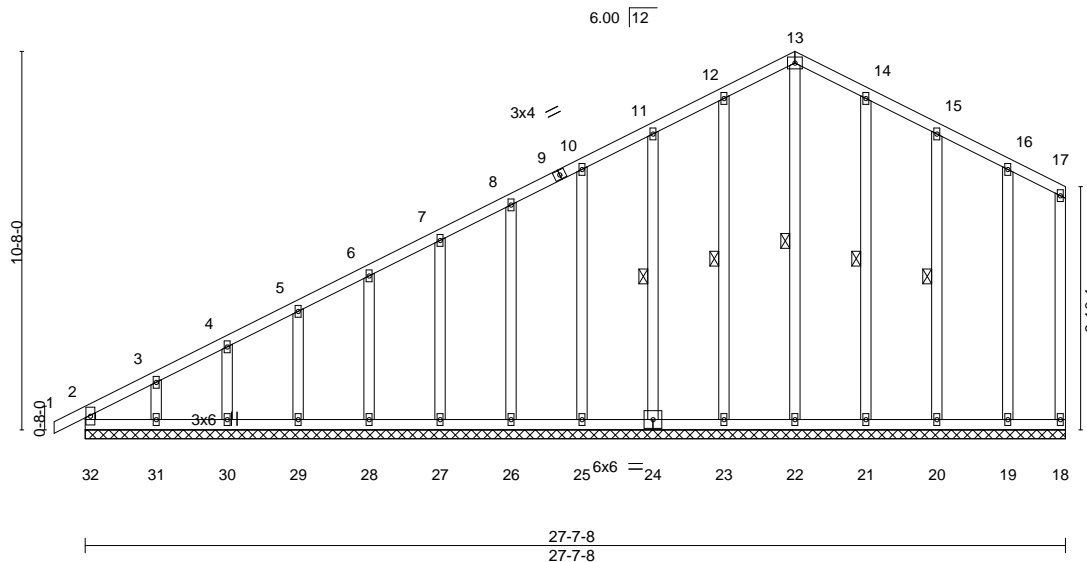
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

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 ID:dwZTNcNXrqfJm8tRCSiY7Dz\$Tnz-GsTcBXA5WKo64Bz5FwZPZUpsZuGBVHXHX5XQdoyHLuW 05/29/2020</div>		Ply	Lot 4 H3	I39353165
400156	C6	Common Supported Gable	240 s	14	2019	Job Reference (optional)	
Wheeler Lumber, Waverly, KS 66871		MiTek Industries, Inc. Wed Nov 20 07:55:41 2019 Page 1					
-0-10-8 0-10-8		20-0-0 20-0-0		27-7-8 7-7-8			
		4x5 =		Scale = 1:64.9			



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 0.21	Vert(LL)	-0.00	1	n/r	120	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.08	Vert(CT)	-0.00	1	n/r	120		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.13	Horz(CT)	-0.00	18	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-R							
										Weight: 167 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.
 WEBS 1 Row at midpt 13-22, 12-23, 11-24, 14-21, 15-20

REACTIONS.

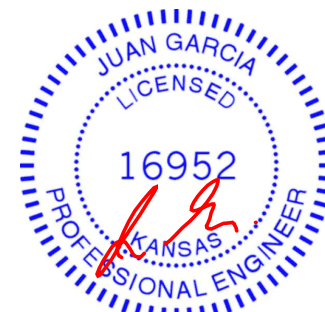
All bearings 27-7-8.
 (lb) - Max Horz 32=332(LC 5)
 Max Uplift All uplift 100 lb or less at joint(s) 32, 18, 22, 23, 24, 25, 26, 27, 28, 29, 30, 21, 20, 19 except 31=140(LC 8)
 Max Grav All reactions 250 lb or less at joint(s) 32, 18, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 21, 20, 19

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-299/102

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.
- 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) 32, 18, 22, 23, 24, 25, 26, 27, 28, 29, 30, 21, 20, 19 except (jt=lb) 31=140.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



November 20,2019

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

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
05/29/2020

Job 400156	Truss D1	Truss Type Common Supported Gable	Ply 1	Lot 4 H3 Job Reference (optional) 14 2019 MiTek Industries, Inc. Wed Nov 20 07:55:43 2019 Page 1 ID:dwZTNcNXrqfJm8tRCSiY7DzSTnz-DEaNCCL2y2qKV7UMLbtewE8izJzCVqLOOXhgyHLuU
Wheeler Lumber, Waverly, KS 66871				

0-10-8
0-10-8

10-0-0
10-0-0

20-0-0
10-0-0

20-10-8
0-10-8

Scale = 1:42.4

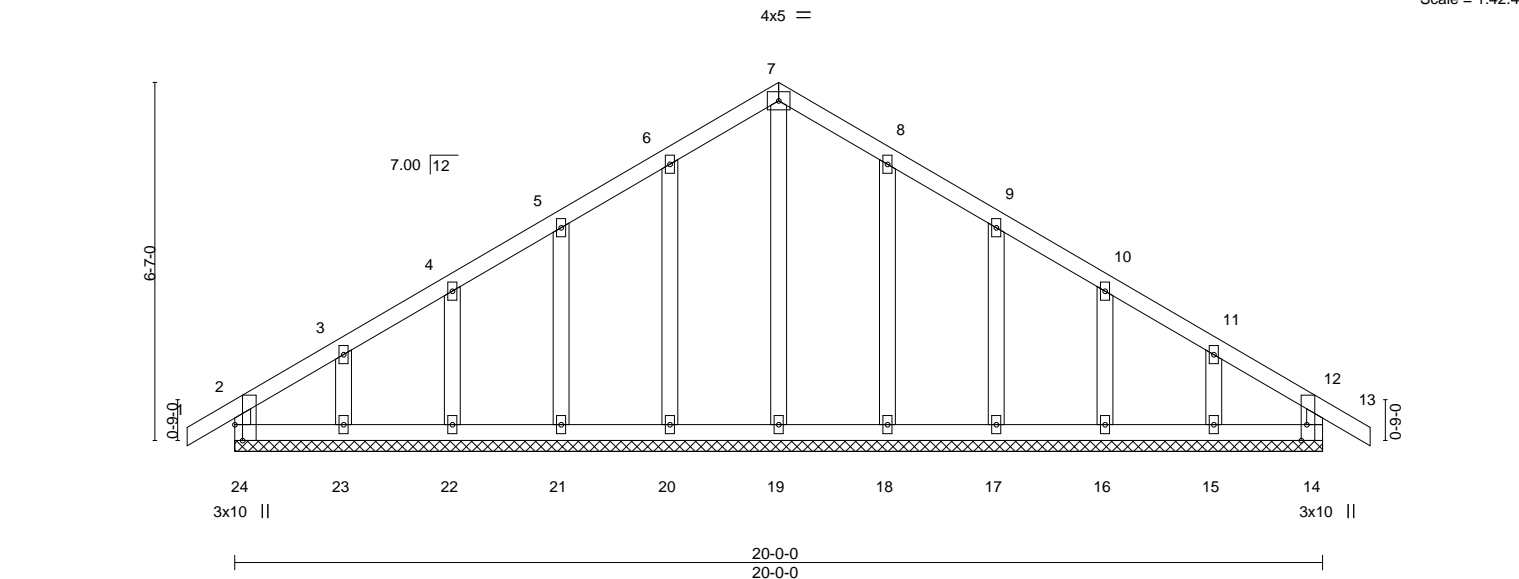


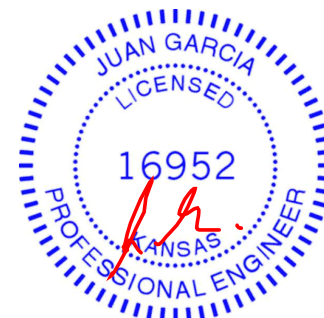
Plate Offsets (X,Y)--		[2:0-1-0,0-1-12], [12:0-1-0,0-1-12], [14:0-0-0,0-1-12], [14:0-3-8,Edge], [24:0-0-0,0-1-12], [24:0-3-8,Edge]	
LOADING (psf)	SPACING-	2-0-0	CSI.
TCLL 25.0	Plate Grip DOL	1.15	TC 0.07
TCDL 10.0	Lumber DOL	1.15	BC 0.04
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.10
BCDL 10.0	Code IRC2018/TPI2014		Matrix-R
		DEFL.	in (loc)
		Vert(LL)	-0.00 13 n/r 120
		Vert(CT)	-0.00 13 n/r 120
		Horz(CT)	0.00 14 n/a n/a
		PLATES	MT20
		GRIP	197/144
		Weight: 88 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	2x4 SPF No.2		
OTHERS	2x4 SPF No.2		

REACTIONS. All bearings 20-0-0.
 (lb) - Max Horz 24=-186(LC 6)
 Max Uplift All uplift 100 lb or less at joint(s) 24, 14, 20, 21, 22, 23, 18, 17, 16, 15
 Max Grav All reactions 250 lb or less at joint(s) 24, 14, 19, 20, 21, 22, 23, 18, 17, 16, 15

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.
 - 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) 24, 14, 20, 21, 22, 23, 18, 17, 16, 15.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



November 20,2019

Job 400156	Truss D2	Truss Type Common	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI		Lot 4 H3 139353167
Wheeler Lumber, Waverly, KS 66871			Job Reference (optional)		
0-10-8 0-10-8			4-8-4 4-8-4		
10-0-0 5-3-12			20-0-0 4-8-4		

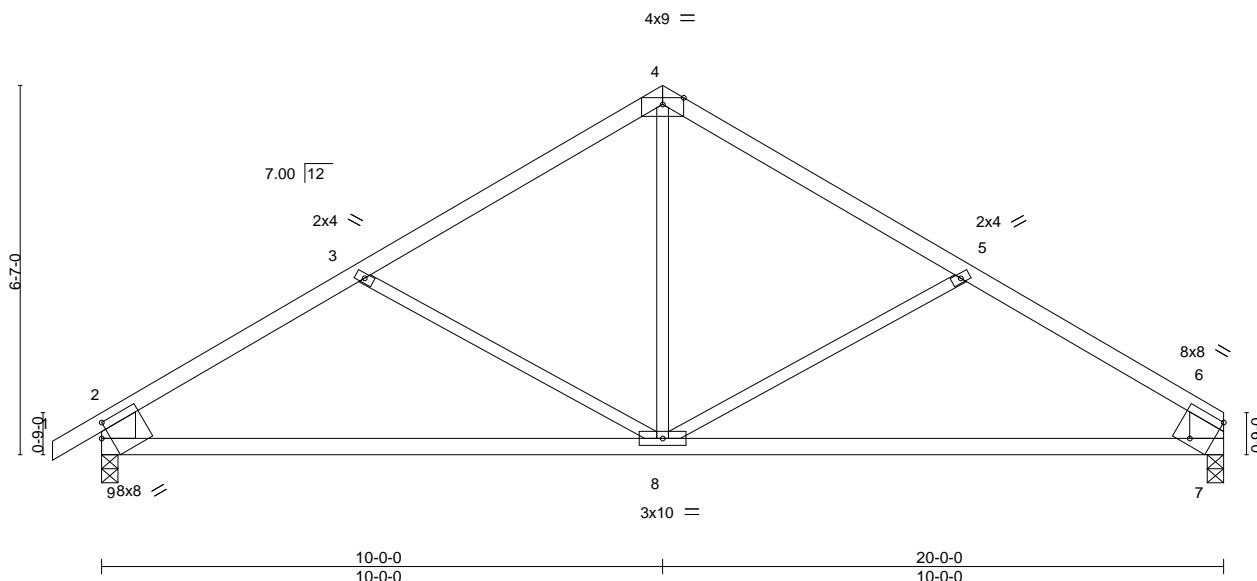


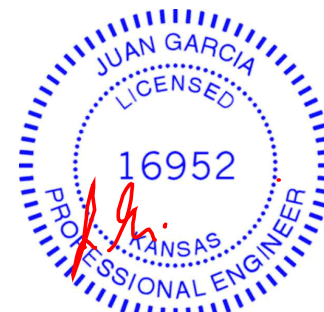
Plate Offsets (X,Y)-- [2:0-4-3,0-0-0], [6:Edge,0-6-10], [6:0-4-3,0-0-0], [7:0-3-2,0-1-13], [9:0-3-2,0-1-13], [9:0-1-11,0-2-15]									
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d		PLATES GRIP	
TCLL	25.0	Plate Grip DOL	1.15	TC	0.77	Vert(LL)	-0.17 8-9 >999 360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.74	Vert(CT)	-0.36 8-9 >649 240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.28	Horz(CT)	0.03 7 n/a n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-S		Wind(LL)	0.07 8 >999 240	Weight: 68 lb	FT = 10%

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied or 3-7-5 oc purlins, except end verticals.
BOT CHORD 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x3 SPF No.2 *Except* 2-9,6-7: 2x8 SP DSS	

REACTIONS.	(lb/size) 9=958/0-3-8, 7=870/0-3-8
	Max Horz 9=183(LC 5)
	Max Uplift 9=130(LC 8), 7=103(LC 9)

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	2-3=-1177/186, 3-4=-911/140, 4-5=-911/140, 5-6=-1188/189, 2-9=-854/178, 6-7=-762/149
BOT CHORD	8-9=-185/920, 7-8=-111/931
WEBS	4-8=-4/472, 5-8=-292/215, 3-8=-273/210

- 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.
 - 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) except (it=lb) 9=130, 7=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.



November 20,2019

Job 400156	Truss D3	Truss Type Common Supported Gable	<div style="text-align: center;"> RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI 05/29/2020 </div>	Ply 1	Lot 4 H3 I39353168
Wheeler Lumber, Waverly, KS 66871		Job Reference (optional) ID:dwZTNcNXrfJm8tRCSY7DzSTnz-9di71uDcaZIYzHsUmeLjK_ZeWfxR767CiVemZyHLuS 14 2019 MiTek Industries, Inc. Wed Nov 20 07:55:45 2019 Page 1 12-0-0 6-0-0 12-10-8 0-10-8			

Scale = 1:26.8

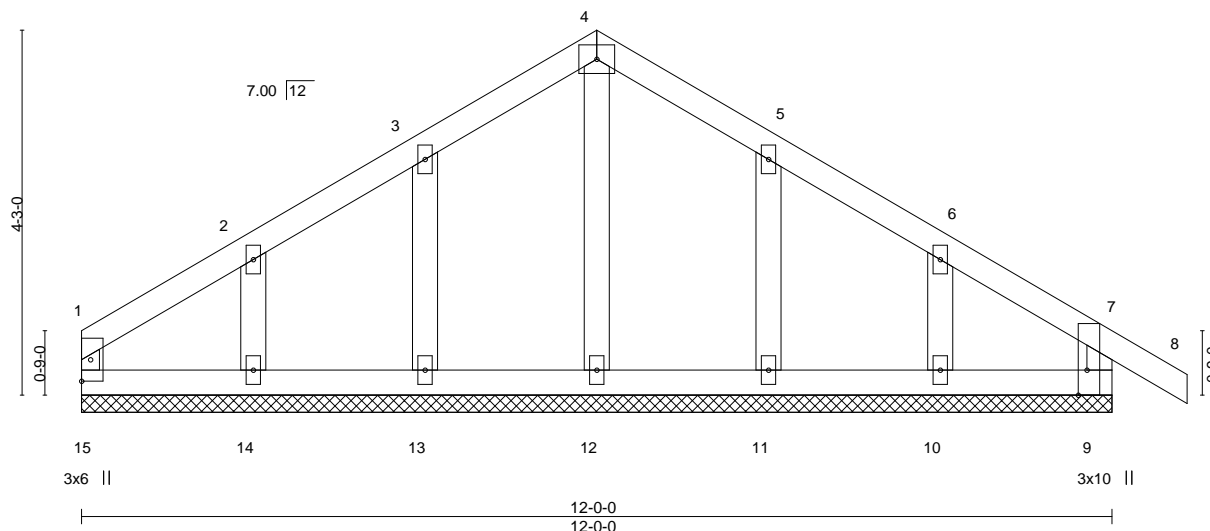


Plate Offsets (X,Y)--		[1:0-0-12,0-1-4], [7:0-1-0,0-1-12], [9:0-0-0,0-1-12], [9:0-3-8,Edge], [15:0-0-0,0-1-4]	
LOADING (psf)	SPACING-	CSI.	DEFL.
TCLL 25.0	2-0-0	TC 0.07	in (loc) l/defl L/d
TCDL 10.0	Plate Grip DOL 1.15	BC 0.03	Vert(LL) -0.00 8 n/r 120
BCLL 0.0 *	Lumber DOL 1.15	WB 0.03	Vert(CT) -0.00 8 n/r 120
BCDL 10.0	Rep Stress Incr YES	Matrix-R	Horz(CT) 0.00 9 n/a n/a
	Code IRC2018/TPI2014		
			PLATES GRIP
			MT20 197/144
			Weight: 45 lb FT = 10%

LUMBER-

TOP CHORD 2x4 SPF No.2
 BOT CHORD 2x4 SPF No.2
 WEBS 2x3 SPF No.2 *Except*
 7-9: 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 12-0-0.
 (lb) - Max Horz 15=-119(LC 4)
 Max Uplift All uplift 100 lb or less at joint(s) 15, 9, 13, 14, 11, 10
 Max Grav All reactions 250 lb or less at joint(s) 15, 9, 12, 13, 14, 11, 10

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.
- 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) 15, 9, 13, 14, 11, 10.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



November 20,2019

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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>				Lot 4 H3		I39353169					
400156		D4		GABLE		1				Job Reference (optional)							
Wheeler Lumber,		Waverly, KS 66871				14 2019 MiTek Industries, Inc. Wed Nov 20 07:55:47 2019 Page 1				ID:dwZTNcNXrfJm8tRCsY7DzSTnz-5?qtSaFs6AYGo6RFbBgp03oEJ88vp3Pf0_IqRyHLuQ							
2-6-13		9-2-3		11-9-0		15-6-8		19-5-0		25-2-8		29-2-8		34-4-8		39-2-8	
2-6-13		6-7-6		2-6-13		3-9-8		3-9-8		5-10-8		4-0-0		5-2-1		4-10-0	
<div>05/29/2020</div>																	

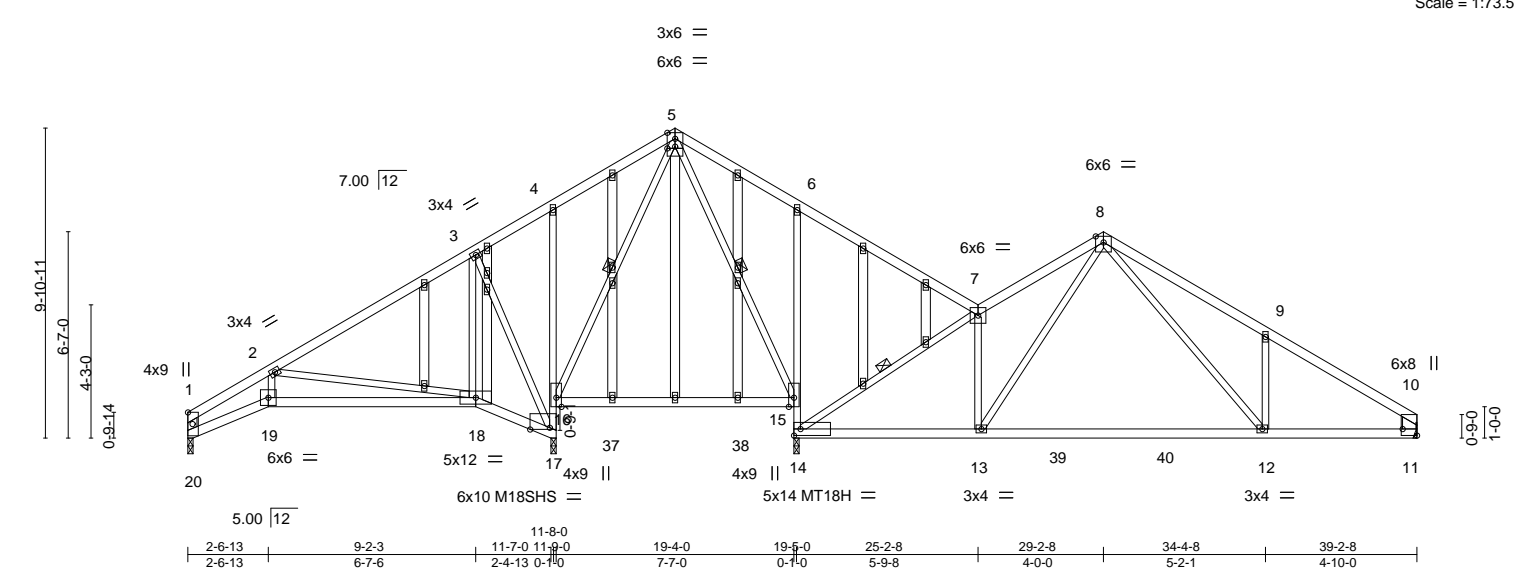


Plate Offsets (X,Y)--	[1:0-1-0,0-1-12], [5:0-3-0,0-0-11], [10:0-1-10,0-2-12], [10:Edge,0-5-8], [11:0-0-0,0-2-12], [17:0-7-8,Edge], [20:0-0-12,0-1-12], [27:0-1-12,0-0-12]						
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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.51	Vert(LL)	-0.29 12-13	>817	360	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.82	Vert(CT)	-0.50 12-13	>469	240	MT18H	197/144
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.90	Horz(CT)	-0.08 14	n/a	n/a	M18SHS	197/144
BCDL 10.0	Code IRC2018/TPI2014		Matrix-S	Wind(LL)	0.09 12-13	>999	240	Weight: 206 lb	FT = 10%

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied or 4-7-10 oc purlins, except end verticals.
BOT CHORD 2x4 SPF No.2 *Except* 4-17-6-14: 2x3 SPF No.2	BOT CHORD Rigid ceiling directly applied or 3-10-5 oc bracing.
WEBS 2x3 SPF No.2 *Except* 1-20: 2x4 SPF 2100F 1.8E, 10-11: 2x6 SP DSS	WEBS 1 Row at midpt 5-16, 5-15, 7-14
OTHERS 2x4 SPF No.2	

REACTIONS.	All bearings 0-2-0 except (jt=length) 14=0-2-8 (input: 0-2-0), 17=0-2-2 (input: 0-2-0), 11=Mechanical.
(lb) - Max Horz	20=-257(LC 4)
Max Uplift	All uplift 100 lb or less at joint(s) except 20=-117(LC 9), 14=-213(LC 9), 11=-186(LC 9), 17=-234(LC 8)
Max Grav	All reactions 250 lb or less at joint(s) except 20=386(LC 16), 14=1594(LC 16), 11=924(LC 16), 17=1359(LC 15)

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	1-2=-798/262, 2-3=-167/357, 3-4=-88/535, 4-5=-48/576, 5-6=0/511, 6-7=0/477, 7-8=-996/437, 8-9=-1310/409, 9-10=-1296/265, 1-20=-496/154, 10-11=-816/188
BOT CHORD	19-20=-356/865, 18-19=-338/777, 16-17=-749/66, 14-15=-822/80, 6-15=-417/240, 13-14=-190/751, 12-13=-79/586, 11-12=-173/1012
WEBS	2-19=-35/395, 2-18=-862/308, 3-18=-25/372, 3-17=-686/226, 5-16=-439/61, 5-15=-310/0, 7-14=-1309/287, 7-13=-1/294, 8-13=-205/305, 8-12=-147/668, 9-12=-302/224

- 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.
 - Provide adequate drainage to prevent water ponding.
 - All plates are MT20 plates unless otherwise indicated.
 - All plates are 2x4 MT20 unless otherwise indicated.
 - 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, with BCDL = 10.0psf.
 - WARNING: Required bearing size at joint(s) 14, 17 greater than input bearing size.
 - All bearings are assumed to be SPF No.2 crushing capacity of 425 psi.
 - Refer to page (2) for truss to truss connections.



November 20,2019

Job	Truss	Truss Type	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI 05/29/2020			Ply	Lot 4 H3
400156	D4	GABLE				1	I39353169
Wheeler Lumber,		Waverly, KS 66871		ID:dwZTNcNXrqfJm8tRCsY7DzSTnz-5?qtSaFs6AYGo6RFbBgp0l3oEJ88vp3Pf0_lqRyHLuQ		Job Reference (optional)	
NOTES-		13) Bearing at joint(s) 20, 17 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.					
14) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 20.							
15) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 117 lb uplift at joint 20, 213 lb uplift at joint 14, 186 lb uplift at joint 11 and 234 lb uplift at joint 17.							
16) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.							

 **WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 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 4 H3	I39353170
400156	D5	Roof Special	ID:dwZTncNXrqlJm8tRCSiY7DzSTnz-ZCOGfwGUtUg7QG0R9uB2LycuujiUseGKZugjiMuyHLuP				1	Job Reference (optional)	
Wheeler Lumber,		Waverly, KS 66871	8.240 s Jul 14 2019 MiTek Industries, Inc. Wed Nov 20 07:55:48 2019 Page 1						
2-6-13		9-2-3	11-9-0	15-6-8	19-4-0	25-2-8	29-2-8	32-1-5	39-2-8
2-6-13		6-7-6	2-6-13	3-9-8	3-9-8	5-10-8	4-0-0	2-10-13	7-1-3

Scale = 1:74.8

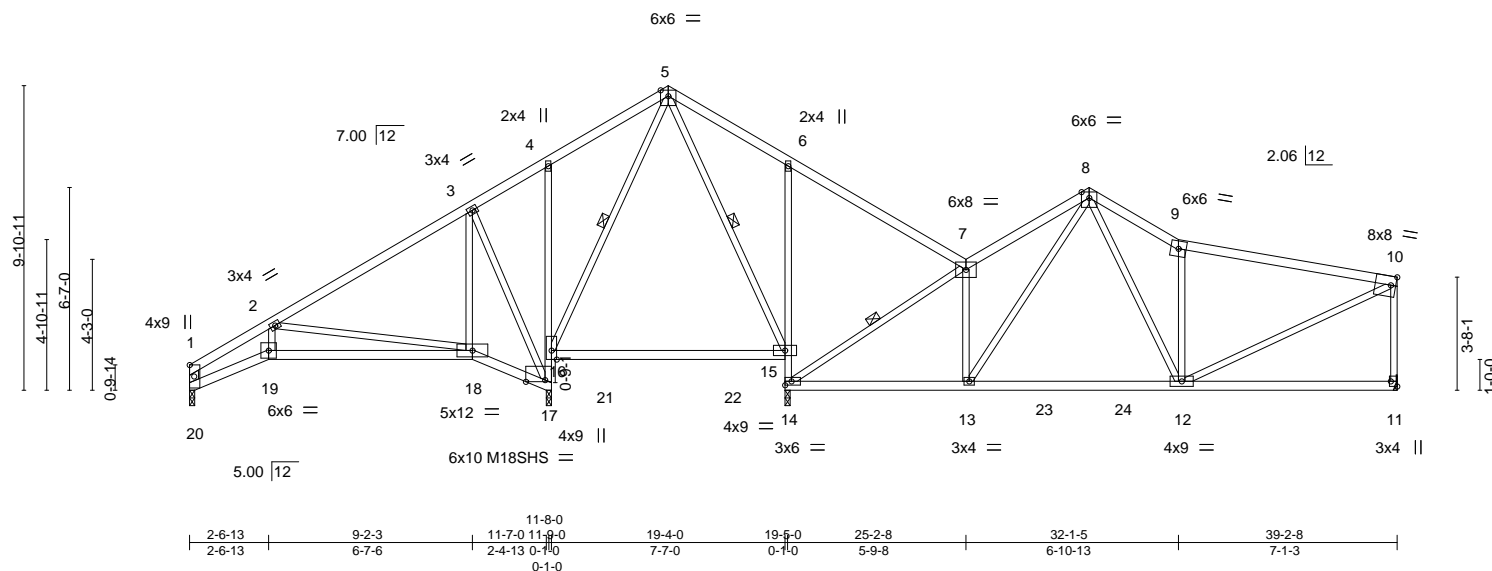


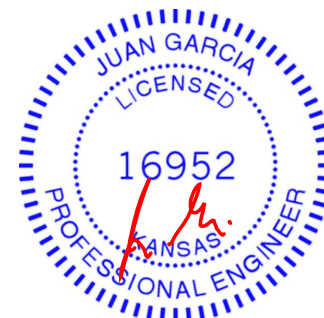
Plate Offsets (X,Y)--		[1:0-1-0,0-1-12], [10:0-1-15,Edge], [11:Edge,0-2-8], [17:0-7-8,Edge], [20:0-0-12,0-1-12]	
LOADING (psf)	SPACING-	CSI.	DEFL.
TCLL 25.0	Plate Grip DOL 1.15	TC 0.84	in (loc) l/defl L/d
TCDL 10.0	Lumber DOL 1.15	BC 0.78	Vert(LL) -0.20 15-16 >468 360
BCLL 0.0 *	Rep Stress Incr YES	WB 0.90	Vert(CT) -0.29 15-16 >324 240
BCDL 10.0	Code IRC2018/TPI2014	Matrix-S	Horz(CT) 0.08 17 n/a n/a
			Wind(LL) 0.09 18-19 >999 240
			PLATES GRIP
			MT20 197/144
			M18SHS 197/144
			Weight: 170 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 *Except*	BOT CHORD Rigid ceiling directly applied or 4-3-12 oc bracing.
4-17,6-14: 2x3 SPF No.2	WEBS 1 Row at midpt 5-16, 5-15, 7-14
WEBS 2x3 SPF No.2 *Except*	
1-20: 2x4 SPF 2100F 1.8E	

REACTIONS.	All bearings 0-2-0 except (jt=length) 14=0-2-4 (input: 0-2-0), 17=0-2-4 (input: 0-2-0), 11=Mechanical.
(lb) - Max Horz 20=-255(LC 4)	
Max Uplift All uplift 100 lb or less at joint(s) 20 except 14=-237(LC 9), 11=-156(LC 9), 17=-232(LC 8)	
Max Grav All reactions 250 lb or less at joint(s) except 20=385(LC 16), 14=1431(LC 16), 11=844(LC 24), 17=1421(LC 15)	

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.	
TOP CHORD 1-2=-809/257, 2-3=-160/346, 3-4=-78/524, 4-5=-40/551, 5-6=-43/352, 6-7=-6/366, 7-8=-1021/235, 8-9=-1057/260, 9-10=-912/155, 1-20=-502/152, 10-11=-758/188	
BOT CHORD 19-20=-362/872, 18-19=-343/783, 16-17=-810/64, 14-15=-679/143, 6-15=-415/240, 13-14=-167/776, 12-13=-129/599	
WEBS 2-19=-36/397, 2-18=-861/313, 3-18=-26/373, 3-17=-687/227, 5-16=-503/23, 7-14=-1213/223, 8-13=-121/344, 8-12=-108/620, 9-12=-732/260, 10-12=-152/909	

- 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.
 - 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.
 - WARNING: Required bearing size at joint(s) 14, 17 greater than input bearing size.
 - All bearings are assumed to be SPF No.2 crushing capacity of 425 psi.
 - Refer to girder(s) for truss to truss connections.
 - Bearing at joint(s) 20, 17 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - Provide mechanical connection (by others) of truss to bearing plate at joint(s) 20.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 20 except (jt=lb) 14=237, 11=156, 17=232.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job: 400156

Truss: D6

Truss Type: Roof Special

Wheeler Lumber, Waverly, KS 66871

RELEASE FOR CONSTRUCTION

AS NOTED ON PLANS REVIEW

DEVELOPMENT SERVICES

LEE'S SUMMIT, MISSOURI

ID: dwZTNcNXrqfJm8tRCSiY7DzS7Tnz-VaV04bHkP5wqfZ9qGJDWQNhG8XB86AssM_CPRmyHLuN

05/29/2020

Ply: 2

Lot 4 H3

Job Reference (optional)

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6-5-0

6-5-0

11-7-0

5-2-0

15-6-8

3-11-8

19-6-0

3-11-8

6x8 =

Scale = 1:59.3

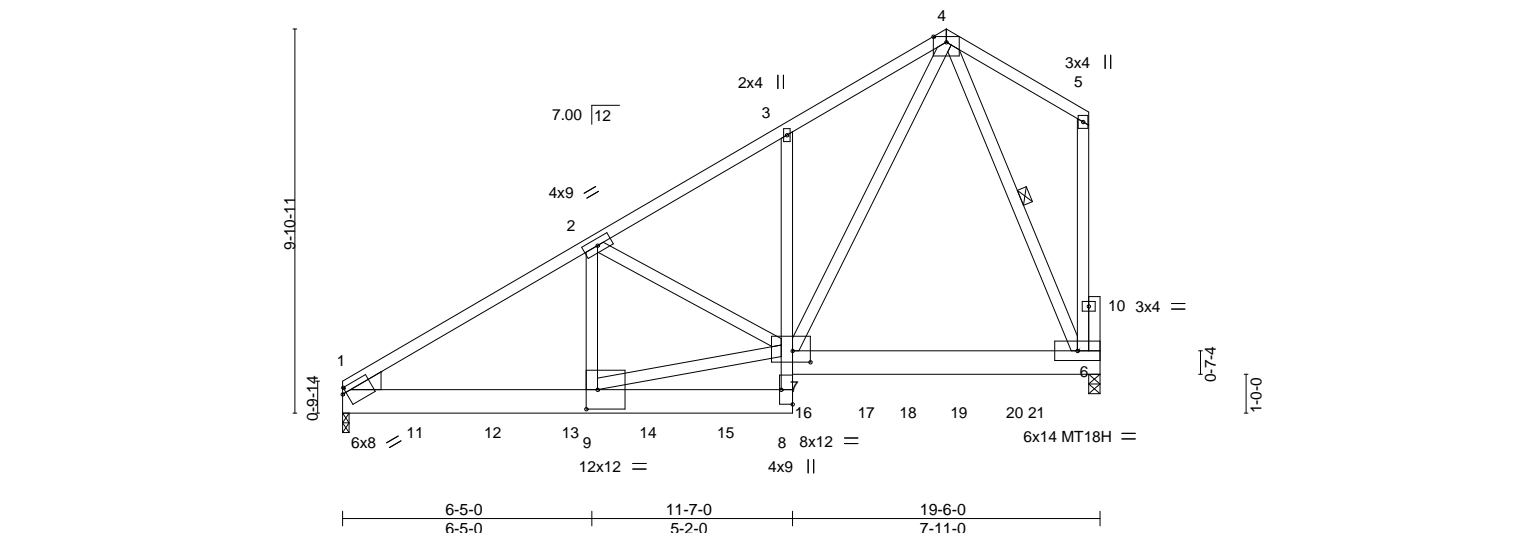


Plate Offsets (X,Y)--		[1:0-1-3,0-1-11], [7:0-5-8,0-3-8], [8:Edge,0-3-8], [9:0-3-8,0-6-0]	
LOADING (psf)	SPACING-	CSI.	DEFL.
TCLL 25.0	2-0-0	TC 0.73	in (loc) l/defl L/d
TCDL 10.0	Plate Grip DOL 1.15	BC 0.73	Vert(LL) -0.20 6-7 >999 360
BCLL 0.0 *	Lumber DOL 1.15	WB 0.96	Vert(CT) -0.35 6-7 >663 240
BCDL 10.0	Rep Stress Incr NO	Matrix-S	Horz(CT) 0.05 6 n/a n/a
	Code IRC2018/TPI2014		Wind(LL) 0.10 6-7 >999 240
			PLATES GRIP
			MT20 197/144
			MT18H 197/144
			Weight: 279 lb FT = 10%

LUMBER-		BRACING-	
TOP CHORD	2x4 SPF 2100F 1.8E *Except* 4-5: 2x4 SPF No.2	TOP CHORD	Structural wood sheathing directly applied or 4-11-2 oc purlins, except end verticals.
BOT CHORD	2x4 SPF No.2 *Except* 1-8: 2x8 SP DSS, 6-7: 2x8 SP 2400F 2.0E	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 8-9.
WEBS	2x4 SPF No.2	WEBS	1 Row at midpt 4-6
OTHERS	2x4 SPF No.2		
WEDGE			
Left: 2x6 SP No.2			

REACTIONS.	
(lb/size)	1=6211/0-2-0 (req. 0-5-0), 6=6466/0-3-8 (req. 0-5-4)
Max Horz	1=330(LC 5)
Max Uplift	1=427(LC 8), 6=276(LC 8)
Max Grav	1=6350(LC 2), 6=6657(LC 2)
FORCES.	
(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.	
TOP CHORD	1-2=-8979/451, 2-3=-6193/305, 3-4=-6201/425, 4-5=-287/109, 5-6=-265/76
BOT CHORD	1-9=-494/7489, 7-8=0/984, 3-7=-318/192, 6-7=-135/1896
WEBS	2-9=-185/2801, 7-9=-449/7703, 2-7=-2612/315, 4-7=-454/7819, 4-6=-4418/244

- 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 0-5-0 oc, 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
 - All plates are MT20 plates unless otherwise indicated.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - WARNING: Required bearing size at joint(s) 1, 6 greater than input bearing size.
 - 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) except (jt=lb) 1=427, 6=276.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

Job		Truss	Truss Type	<div>RELEASE FOR CONSTRUCTION</div> <div>AS NOTED ON PLANS, REVIEW DEVELOPMENT SERVICES</div> <div>LEE'S SUMMIT, MISSOURI</div> <div>05/29/2020</div>		Ply	Lot 4 H3	
400156		D6	Roof Special	Girder		2	I39353171	
Wheeler Lumber,		Waverly, KS 66871		ID:dwZTNcNXrqfJm8tRCSiY7DzS		8.240 s Jul 14 2019	MiTek Industries, Inc. Wed Nov 20 07:55:50 2019 Page 2	
NOTES-		12) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1281 lb down and 167 lb up at 1-10-8, 1256 lb down and 163 lb up at 3-10-8, 1255 lb down and 27 lb up at 5-10-8, 1260 lb down and 27 lb up at 7-10-8, 1219 lb down and 25 lb up at 9-10-8, 1279 lb down and 27 lb up at 11-10-8, 1268 lb down and 27 lb up at 13-10-8, and 1258 lb down and 27 lb up at 15-10-8, and 1284 lb down and 27 lb up at 17-10-8 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.						
LOAD CASE(S) Standard		1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15						
		Uniform Loads (plf)		Vert: 1-4=-70, 4-5=-70, 1-8=-20, 6-7=-20				
		Concentrated Loads (lb)		Vert: 11=-1217(B) 12=-1220(B) 13=-1217(B) 14=-1217(B) 15=-1219(B) 16=-1219(B) 18=-1219(B) 19=-1219(B) 21=-1219(B)				

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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		Ply	Lot 4 H3	I39353172
400156	D8	Roof Special	ID:dwZTNcNXrqfJm8tRCSiY7DzSTnz-_n3OHxIMAP2hHjk0q1klybEPmwb2rjU?aeeyzCyHLuM		1	Job Reference (optional)	

Wheeler Lumber, Waverly, KS 66871

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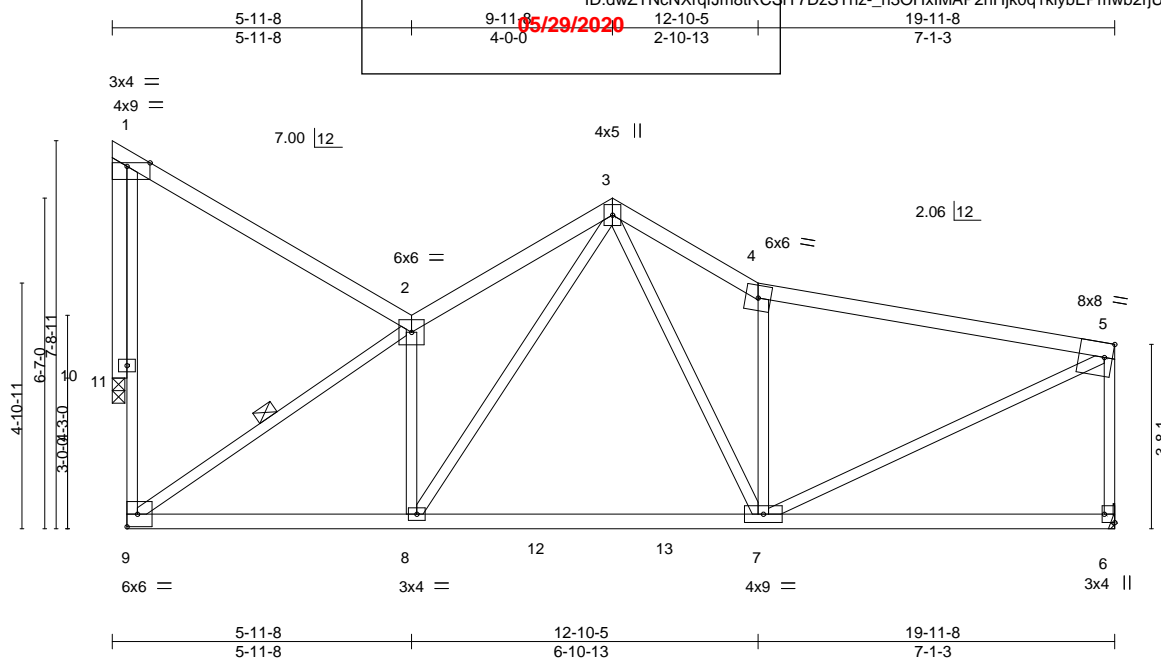


Plate Offsets (X,Y)-- [1:0-5-8,Edge], [5:0-1-15,Edge], [6:Edge,0-2-8]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.86	Vert(LL)	-0.12	7-8	>999	360	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.50	Vert(CT)	-0.19	7-8	>999	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.55	Horz(CT)	0.41	6	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-S	Wind(LL)	0.04	7-8	>999	240	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 2-2-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 2-9

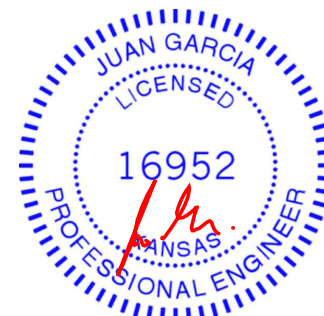
REACTIONS. (lb/size) 6=888/Mechanical, 11=864/0-3-0
Max Horz 11=-210(LC 4)
Max Uplift 6=-140(LC 9), 11=-187(LC 9)
Max Grav 6=931(LC 2), 11=969(LC 16)

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

TOP CHORD 9-10=-90/818, 1-10=-90/818, 2-3=-1350/172, 3-4=-1211/232, 4-5=-1037/130, 5-6=-830/171
BOT CHORD 8-9=-113/1060, 7-8=-104/735
WEBS 2-9=-1285/216, 2-8=-300/83, 3-8=-19/635, 3-7=-108/614, 4-7=-774/251, 5-7=-124/1054, 1-11=-972/188

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, with BCDL = 10.0psf.
- All bearings are assumed to be SPF No.2 crushing capacity of 425 psi.
- Refer to girder(s) for truss to truss connections.
- Bearing at joint(s) 11 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 6=140, 11=187.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



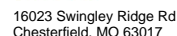
November 20,2019

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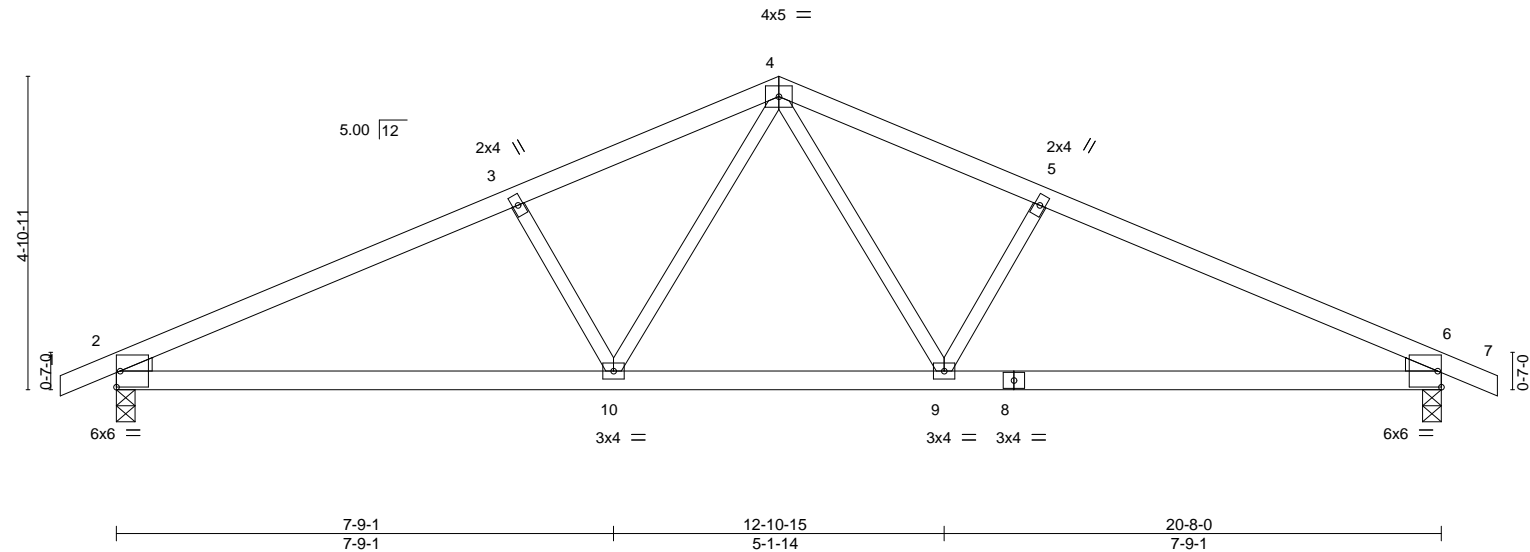


16023 Swingley Ridge Rd
Chesterfield, MO 63017



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 4 H3
400156	E2	Common	<div style="text-align: center;"> 05/29/2020 </div>		1	139353174
Wheeler Lumber, Waverly, KS 66871		ID:dwZTncNXrqfJm8tRCSiY7DzSTnz-OMIXwzKFSKQG8BTbV9lSaDs?O8a7296RHcAdaXyHLuJ 14 2019 MiTek Industries, Inc. Wed Nov 20 07:55:54 2019 Page 1				
0-10-8 0-10-8		6-3-3 6-3-3	10-4-0 4-0-13	14-4-13 4-0-13	20-8-0 6-3-3	21-6-8 0-10-8

Scale = 1:35.9



LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL	25.0	Plate Grip DOL	1.15	TC	0.52	Vert(LL)	-0.11	MT20	197/144		
TCDL	10.0	Lumber DOL	1.15	BC	0.60	Vert(CT)	-0.25				
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.17	Horz(CT)	0.04				
BCDL	10.0	Code IRC2018/TPI2014		Matrix-S		Wind(LL)	0.06	Weight: 65 lb		FT = 10%	

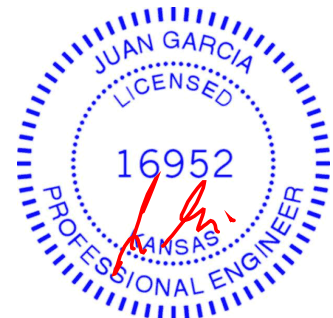
LUMBER-
 TOP CHORD 2x4 SPF No.2
 BOT CHORD 2x4 SPF No.2
 WEBS 2x3 SPF No.2
 WEDGE
 Left: 2x3 SPF No.2, Right: 2x3 SPF No.2

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 3-8-13 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 2=988/0-3-8, 6=988/0-3-8
 Max Horz 2=-82(LC 9)
 Max Uplift 2=-141(LC 8), 6=-141(LC 9)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-1643/210, 3-4=-1437/214, 4-5=-1437/214, 5-6=-1643/211
 BOT CHORD 2-10=-199/1413, 9-10=-56/1021, 6-9=-117/1413
 WEBS 4-9=-107/507, 5-9=-339/190, 4-10=-107/507, 3-10=-339/190

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCCL=6.0psf; BCCL=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.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (it=lb) 2=141, 6=141.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



November 20,2019

Job 400156	Truss E3	Truss Type Common Girder	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI ID:dwZTNcNXrqfJm8tRCSiY7DzSTnz-IJYQzgOOHs3ZEyLYliudHHZsQ9EbjMBAQuuNFIyHLuE 05/29/2020		Ply 2 Lot 4 H3 139353175 Job Reference (optional)
Wheeler Lumber, Waverly, KS 66871		14 2019 MiTek Industries, Inc. Wed Nov 20 07:55:59 2019 Page 1 0-10-8 6-3-3 10-4-0 14-4-13 20-8-0 21-6-8 0-10-8 6-3-3 4-0-13 4-0-13 6-3-3 0-10-8			

Scale = 1:35.9

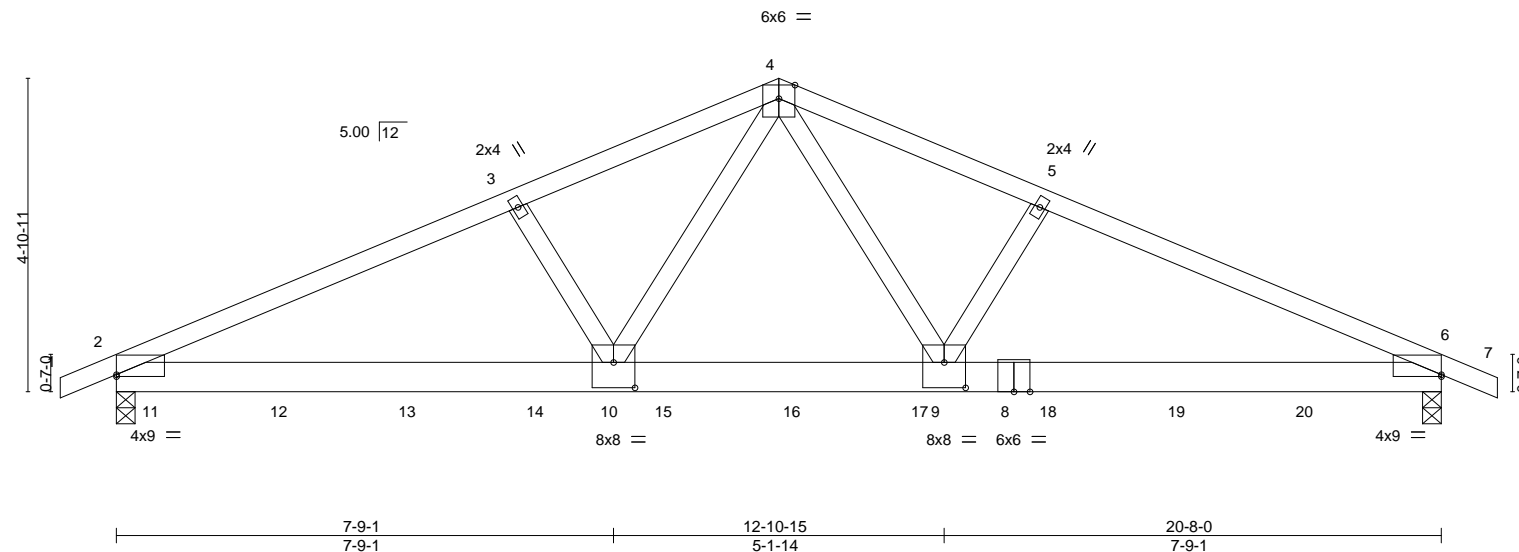


Plate Offsets (X,Y)--		[2:0-0-0,0-0-6], [6:Edge,0-0-6], [9:0-4-0,0-4-12], [10:0-4-0,0-4-12]	
LOADING (psf)	SPACING-	2-0-0	CSI.
TCLL 25.0	Plate Grip DOL	1.15	TC 0.56
TCDL 10.0	Lumber DOL	1.15	BC 0.84
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.44
BCDL 10.0	Code IRC2018/TPI2014		Matrix-S
			DEFL.
			in (loc) l/defl L/d
			Vert(LL) -0.20 6-9 >999 360
			Vert(CT) -0.36 6-9 >688 240
			Horz(CT) 0.05 6 n/a n/a
			Wind(LL) 0.15 2-10 >999 240
			PLATES
			MT20
			GRIP
			197/144
			Weight: 188 lb FT = 10%

LUMBER-	BRACING-
TOP CHORD 2x4 SPF 2100F 1.8E	TOP CHORD Structural wood sheathing directly applied or 4-11-11 oc purlins.
BOT CHORD 2x6 SP 2400F 2.0E	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SPF No.2	

REACTIONS. (lb/size) 2=5382/0-3-8 (req. 0-4-4), 6=4842/0-3-8 (req. 0-3-13)
 Max Horz 2=49(LC 29)
 Max Uplift 2=868(LC 8), 6=657(LC 9)

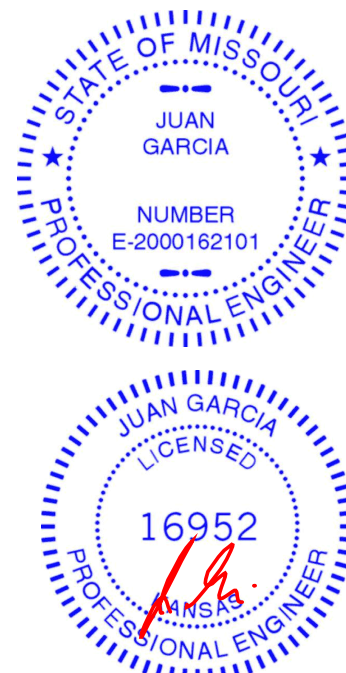
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-8360/1350, 3-4=-8188/1361, 4-5=-8270/1243, 5-6=-8442/1231
 BOT CHORD 2-10=-1223/7564, 9-10=-839/5787, 6-9=-1065/7638
 WEBS 4-9=-475/3599, 4-10=-694/3552

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: 2x6 - 2 rows staggered at 0-6-0 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); 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.
- WARNING: Required bearing size at joint(s) 2, 6 greater than input bearing size.
- 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) except (jt=lb) 2=868, 6=657.
- This truss 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) 916 lb down and 154 lb up at 0-7-4, 824 lb down and 176 lb up at 2-7-4, 824 lb down and 176 lb up at 4-7-4, 824 lb down and 176 lb up at 6-7-4, 824 lb down and 176 lb up at 8-7-4, 795 lb down and 206 lb up at 10-7-4, 850 lb down and 123 lb up at 12-7-4, 850 lb down and 123 lb up at 14-7-4, and 850 lb down and 123 lb up at 16-7-4, and 850 lb down and 123 lb up at 18-7-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

Continued on page 2



November 20,2019

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 05/29/2020		Ply	Lot 4 H3
400156	E3	Common Girder	8.240 s Jul		2	I39353175
Wheeler Lumber, Waverly, KS 66871		Job Reference (optional)				
		ID:dwZTNcNXrqfJm8tRCSiY7DzSTnz-IJYQzgOOHs3ZEyLYliudHHZsQ9EbjMBAQuuNFlyHLuE				

LOAD CASE(S) Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-4=-70, 4-7=-70, 2-6=-20
Concentrated Loads (lb)
Vert: 11=-873(F) 12=-801(F) 13=-801(F) 14=-801(F) 15=-801(F) 16=-771(F) 17=-850(F) 18=-850(F) 19=-850(F) 20=-850(F)

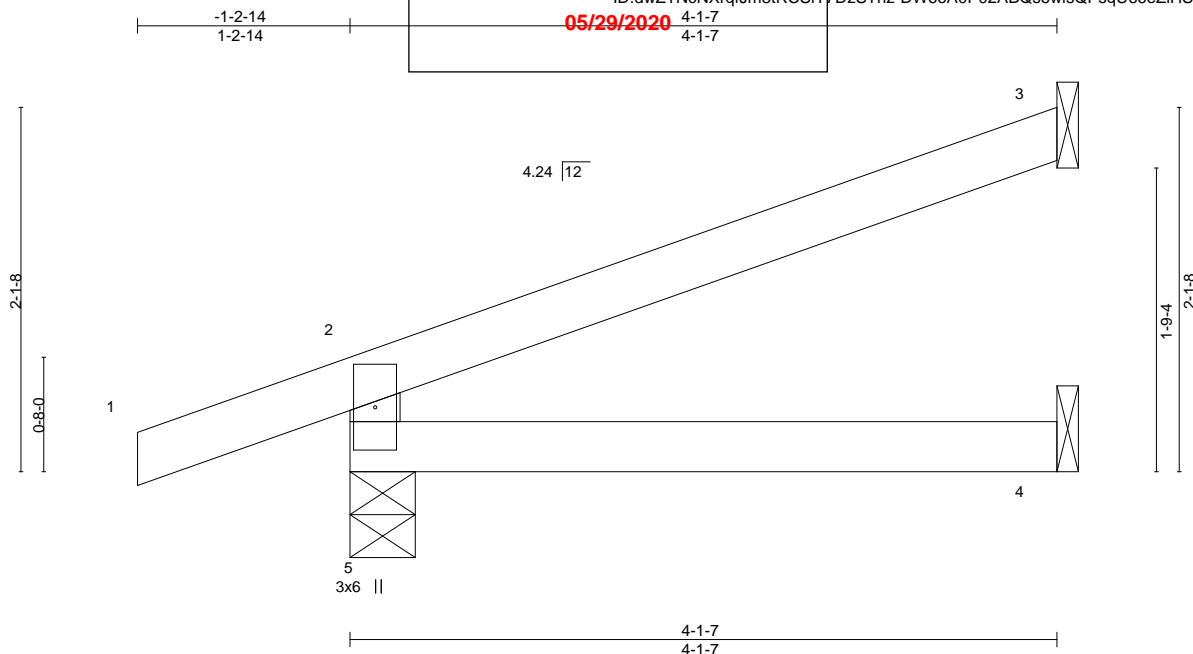
 **WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.**

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 400156	Truss J1	Truss Type Diagonal Hip	Girder	<div style="text-align: center;"> RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI 05/29/2020 </div>	Ply 1	Lot 4 H3 Job Reference (optional) ID:dwZTNcNXrqfJm8tRCSiY7DzSTnz-DW6oA0P02ABQs6wlsQPsqU66eZIHsvJKfYdxoByHLuD
Wheeler Lumber, Waverly, KS 66871		14 2019 MiTek Industries, Inc. Wed Nov 20 07:56:00 2019 Page 1 139353176				



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	4-5	>999	360	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.10	Vert(CT)	-0.02	4-5	>999	240		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.00	Horz(CT)	-0.01	3	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-R	Wind(LL)	0.01	4-5	>999	240		
									Weight: 11 lb	FT = 10%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 4-1-7 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 5=144/0-4-9, 3=80/Mechanical, 4=24/Mechanical
 Max Horz 5=81(LC 12)
 Max Uplift 5=91(LC 6), 3=-51(LC 12)
 Max Grav 5=144(LC 1), 3=80(LC 1), 4=60(LC 3)

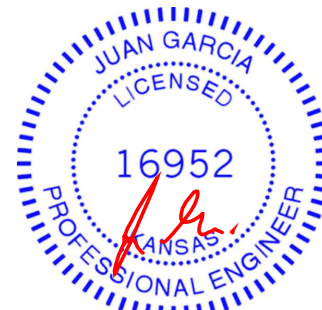
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

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.
- 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, 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.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 30 lb down and 11 lb up at -1-2-14, and 30 lb down and 11 lb up at -1-2-14 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=-46(F=-23, B=-23)
- Trapezoidal Loads (plf)
 Vert: 1=0(F=35, B=35)-to-2=-24(F=23, B=23), 2=-3(F=34, B=34)-to-3=-72(F=-1, B=-1), 5=0(F=10, B=10)-to-4=-21(F=-0, B=0)



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

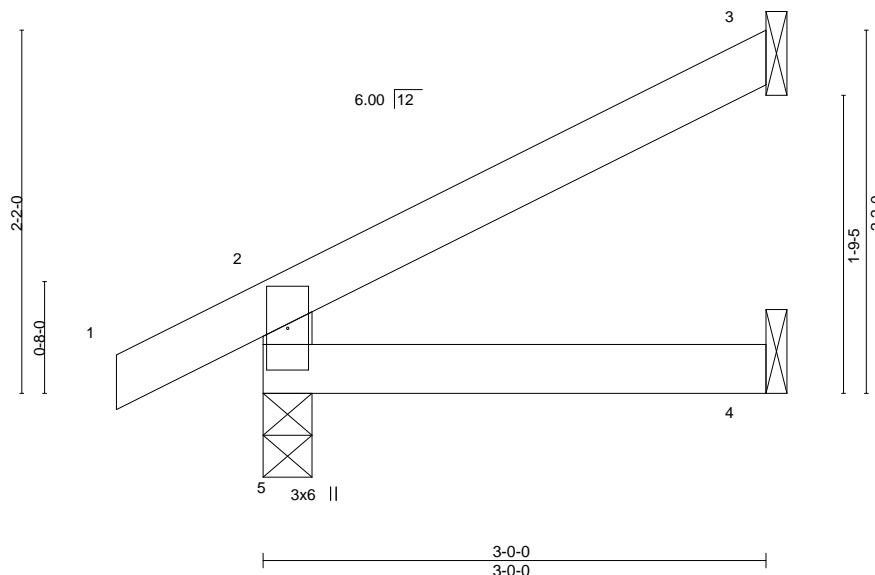
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall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



16023 Swingley Ridge Rd
 Chesterfield, MO 63017

Job	Truss	Truss Type	CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI			Lot 4 H3	I39353177
400156	J2	Jack-Open	6			1	
Wheeler Lumber,		Waverly, KS 66871	8,240 s Jul 14 2019			Job Reference (optional)	
			ID:dwZTNcNXrfJm8tRCSIY7DzSTnz-higAOMQepUJHUGVxQ7w5MielCy69BMZTuCNUKdyHLuC			Page 1	
			-0-10-8 0-10-8				
			05/29/2020				
			3-0-0 3-0-0				

Scale = 1:13.7



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

LUMBER-

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

BRACING-

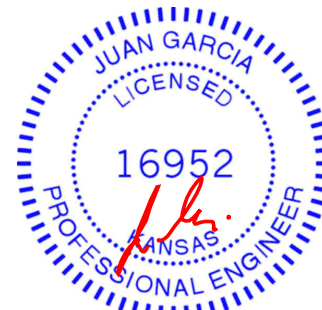
TOP CHORD Structural wood sheathing directly applied or 3-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 5=210/0-3-8, 3=82/Mechanical, 4=30/Mechanical
Max Horz 5=69(LC 8)
Max Uplift 5=-27(LC 8), 3=-49(LC 8)
Max Grav 5=210(LC 1), 3=82(LC 1), 4=52(LC 3)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; 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) All bearings are assumed to be SPF No.2 crushing capacity of 425 psi.
- 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) 5, 3.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



November 20,2019

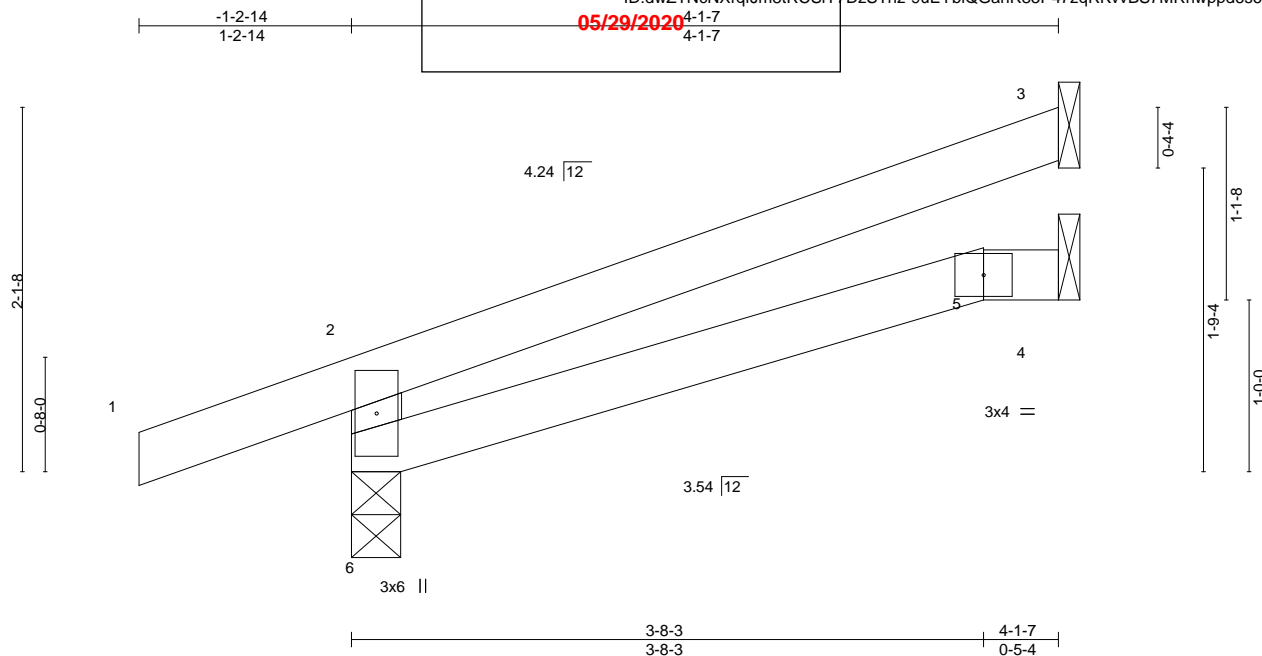
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

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 ID:dwZTNcNXrfJm8tRCSiY7DzSTnz-9uEYbiQGanR85P47zqRKvvBS7MRnwppd6s62s4yHLuB 05/29/2020</div>		Ply	Lot 4 H3		I39353178
400156		J3	Jack-Open Girder	1		1	Job Reference (optional)		
Wheeler Lumber,		Waverly, KS 66871		18,240 s Jul 14 2019		MiTek Industries, Inc. Wed Nov 20 07:56:02 2019 Page 1			
		<div>1-2-14 1-2-14</div>							



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	5-6	>999	360	MT20
TCDL 10.0	Lumber DOL	1.15	BC 0.10	Vert(CT)	-0.02	5-6	>999	240	197/144
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.00	Horz(CT)	-0.01	3	n/a	n/a	
BCDL 10.0	Code IRC2018/TPI2014		Matrix-R	Wind(LL)	0.01	5-6	>999	240	
								Weight: 12 lb	FT = 10%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 4-1-7 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (lb/size) 6=144/0-3-7, 3=80/Mechanical, 4=24/Mechanical
Max Horz 6=80(LC 12)
Max Uplift 6=90(LC 6), 3=51(LC 12)
Max Grav 6=144(LC 1), 3=80(LC 1), 4=60(LC 3)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate 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) All bearings are assumed to be SPF No.2 crushing capacity of 425 psi.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Bearing at joint(s) 6 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6, 3.
- 8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 9) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 30 lb down and 11 lb up at -1-2-14, and 30 lb down and 11 lb up at -1-2-14 on top chord. The design/selection of such connection device(s) is the responsibility of others.
- 10) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Concentrated Loads (lb)
Vert: 1=-46(F=-23, B=23)
Trapezoidal Loads (plf)
Vert: 1=0(F=35, B=35)-to-2=-24(F=23, B=23), 2=-3(F=34, B=34)-to-3=-72(F=-1, B=-1), 6=0(F=10, B=10)-to-5=-19(F=1, B=1), 5=-19(F=1, B=1)-to-4=-21(F=-0, B=-0)



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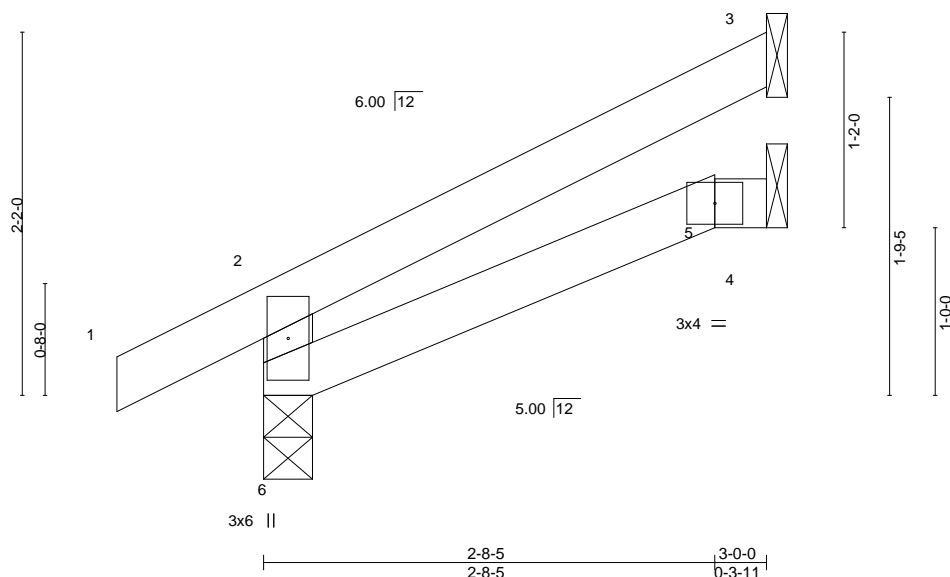
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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	<div>RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI 05/29/2020</div>			Lot 4 H3	I39353179
400156	J4	Jack-Open	1	5	1	Job Reference (optional)	
Wheeler Lumber, Waverly, KS 66871		ID:dwZTNcNXrfJm8tRCSIY7DzSTnz-d4oxp2RuL5Z_jZfKXYyZS7kegmoefG3mLWsbOWyHLuA Wed Nov 20 07:56:03 2019 Page 1					



Scale = 1:13.7

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 0.10	Vert(LL)	-0.00 5-6	>999	360	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.06	Vert(CT)	-0.01 5-6	>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 5-6	>999	240	Weight: 9 lb	FT = 10%

LUMBER-

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

BRACING-

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

REACTIONS. (lb/size) 6=210/0-3-8, 3=83/Mechanical, 4=30/Mechanical
Max Horz 6=68(LC 8)
Max Uplift 6=-26(LC 8), 3=-50(LC 8)
Max Grav 6=210(LC 1), 3=83(LC 1), 4=52(LC 3)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; 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) All bearings are assumed to be SPF No.2 crushing capacity of 425 psi.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Bearing at joint(s) 6 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6, 3.
- 8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



November 20,2019

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 4 H3
400156	LAY1	GABLE	1		1	I39353180
Wheeler Lumber, Waverly, KS 66871			Job Reference (optional)			
			ID:dwZTNcNXrqfJm8 8-240 s Jul 14 2019 MiTek Industries, Inc. Wed Nov 20 07:56:05 2019 Page 1 RCSiY7DzStnz-ZTvhEkT8tipytpifz?1XYp?0aUd7A93opLiTPyHLu8			
			4-1-0 05/29/2020 8-1-15 4-1-0 4-1-0			

Scale = 1:30.1

Scale = 1:30.1

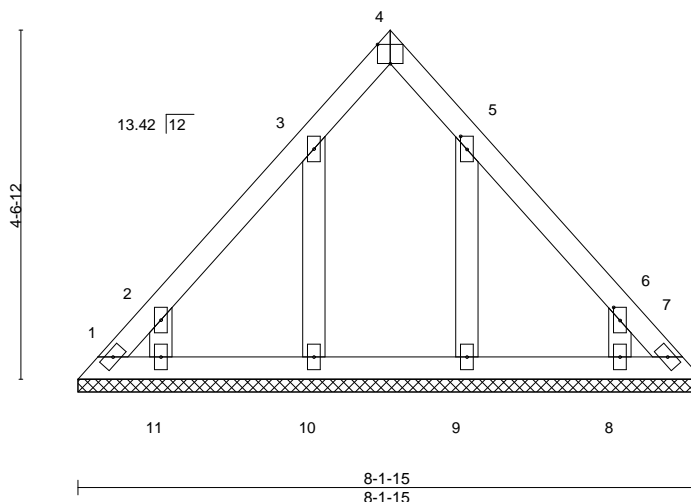


Plate Offsets (X,Y)-- [4:Edge,0-3-0], [5:0-2-1,0-1-0], [6:0-2-1,0-1-0]										
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d		PLATES	GRIP	
TCLL	25.0	Plate Grip DOL	1.15	TC	0.04	Vert(LL)	n/a - n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.03	Vert(CT)	n/a - n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00 7 n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-P					Weight: 30 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 8-1-15.
 (lb) - Max Horz 1=113(LC 5)
 Max Uplift All uplift 100 lb or less at joint(s) 1, 7 except 11=127(LC 8), 10=105(LC 8), 9=103(LC 9),
 8=128(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 except (jt=lb) 11=127, 10=105, 9=103, 8=128.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



November 20,2019

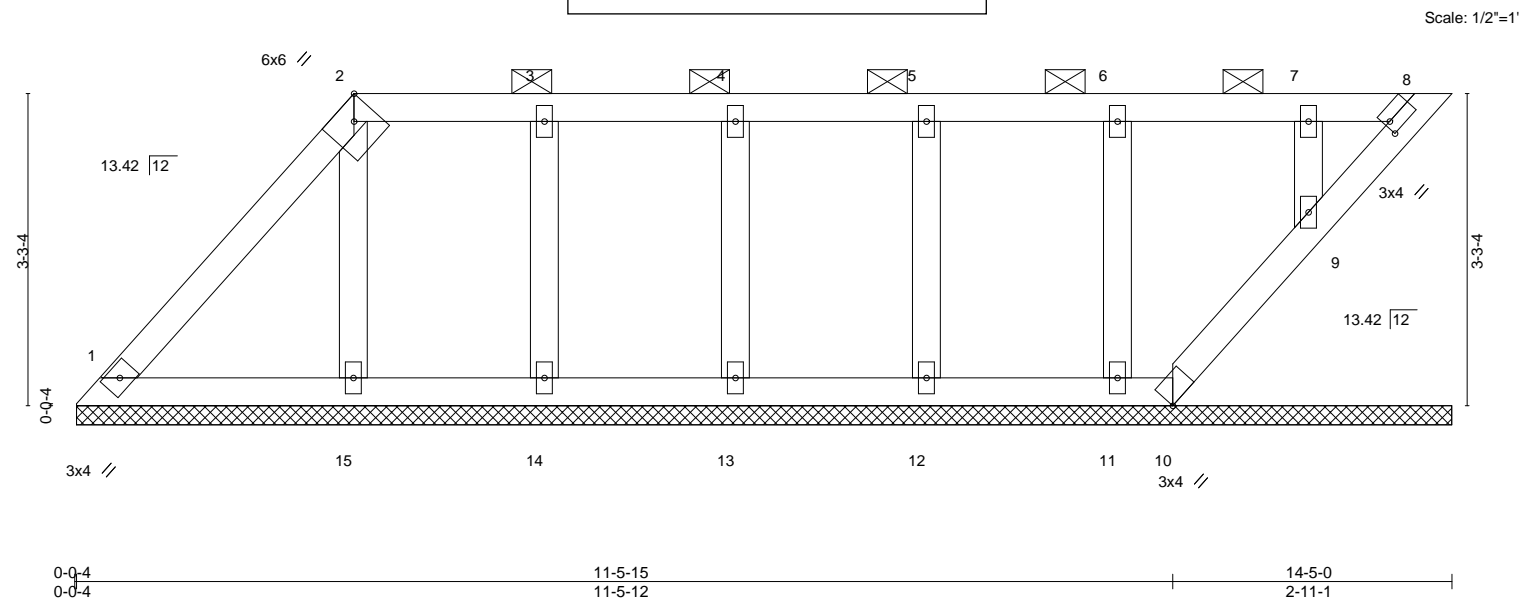
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

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 400156	Truss LAY2	Truss Type GABLE	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI ID:dwZTncNXrfJm8tRCSiY7DzSTnz-Ws1ReQUPOK3QCBy5mO1VczuKvN9tb4cMG7qpXHyHLu6 05/29/2020		Lot 4 H3 Job Reference (optional) 14 2019 MiTek Industries, Inc. Wed Nov 20 07:56:07 2019 Page 1 11-5-15
Wheeler Lumber, Waverly, KS 66871					



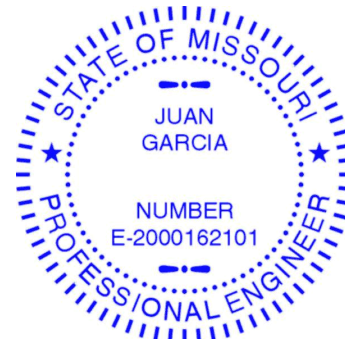
LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL	25.0	Plate Grip DOL	1.15	TC	0.08	Vert(LL)	n/a	MT20	197/144		
TCDL	10.0	Lumber DOL	1.15	BC	0.04	Vert(CT)	n/a				
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.03	Horz(CT)	-0.00				
BCDL	10.0	Code IRC2018/TPI2014		Matrix-S							
								Weight: 52 lb		FT = 10%	

LUMBER-		BRACING-	
TOP CHORD	2x4 SPF No.2	TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except
BOT CHORD	2x4 SPF No.2	BOT CHORD	2-0-0 oc purlins (6-0-0 max.): 2-8.
OTHERS	2x4 SPF No.2		Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 14-4-12.
 (lb) - Max Horz 1=121(LC 8)
 Max Uplift All uplift 100 lb or less at joint(s) 8, 10, 15, 14, 13, 12, 11, 9
 Max Grav All reactions 250 lb or less at joint(s) 1, 8, 10, 15, 14, 13, 12, 11, 9

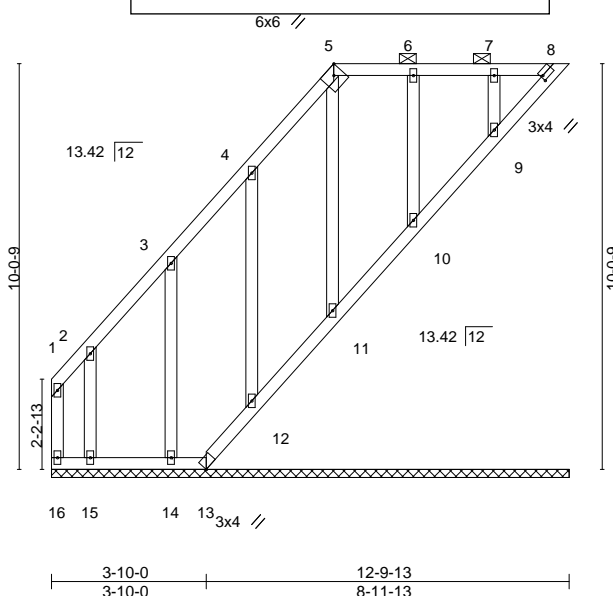
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; 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
 - Provide adequate drainage to prevent water ponding.
 - All plates are 2x4 MT20 unless otherwise indicated.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 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) 8, 10, 15, 14, 13, 12, 11, 9.
 - Non Standard bearing condition. Review required.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



November 20,2019

Job 400156	Truss LAY3	Truss Type GABLE	<div style="text-align: center;"> RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI </div>		Lot 4 H3 I39353182
Wheeler Lumber, Waverly, KS 66871		ID:dwZTNcNXrfJm8tRCSIY7DzSTnz-_2bqslV19dBHqKXHK5Yk9ARVfnVzKWOVVnZM4jyHLu5 6-11-14 05/29/2020 12-9-13 5-9-15 6-11-14 12-9-13 5-9-15			



Scale = 1:57.1

Plate Offsets (X,Y)-- [5:0-2-10,Edge], [8:0-0-10,0-1-8]										
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d		PLATES	GRIP	
TCLL	25.0	Plate Grip DOL	1.15	TC	0.08	Vert(LL)	n/a - n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.05	Vert(CT)	n/a - n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.12	Horz(CT)	-0.01 8	n/a n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-S					Weight: 69 lb	FT = 10%

LUMBER-

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

BRACING-

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

REACTIONS.

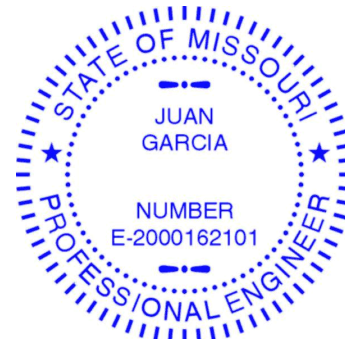
All bearings 12-9-13.
 (lb) - Max Horz 16=286(LC 8)
 Max Uplift All uplift 100 lb or less at joint(s) 16, 11, 10, 9 except 8=297(LC 8), 13=140(LC 6), 15=205(LC 8), 14=133(LC 8), 12=161(LC 8)
 Max Grav All reactions 250 lb or less at joint(s) 16, 8, 15, 14, 12, 11, 10, 9 except 13=314(LC 8)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 4-5=190/346, 5-6=131/267, 6-7=130/267, 7-8=130/267
 BOT CHORD 15-16=268/130, 14-15=268/130, 13-14=268/130, 12-13=415/213, 11-12=411/211, 10-11=410/210, 9-10=410/210, 8-9=408/201

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 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) 16, 11, 10, 9 except (jt=lb) 8=297, 13=140, 15=205, 14=133, 12=161.
- Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 8, 12, 11, 10, 9.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



November 20,2019

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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			Ply	Lot 4 H3	I39353183
400156	LAY4	GABLE	ID:dwZTNcNXrqfJm8tRCSiY7DzSTnz-wRjaHRXHhFR73ehgRWaCEbWr7bBVOR4oy52T8cyHLu3			1	Job Reference (optional)	

Wheeler Lumber, Waverly, KS 66871

14 2019 MiTek Industries, Inc. Wed Nov 20 07:56:10 2019 Page 1
DzSTnz-wRjaHRXHhFR73ehgRWaCEbWr7bBVOR4oy52T8cyHLu3

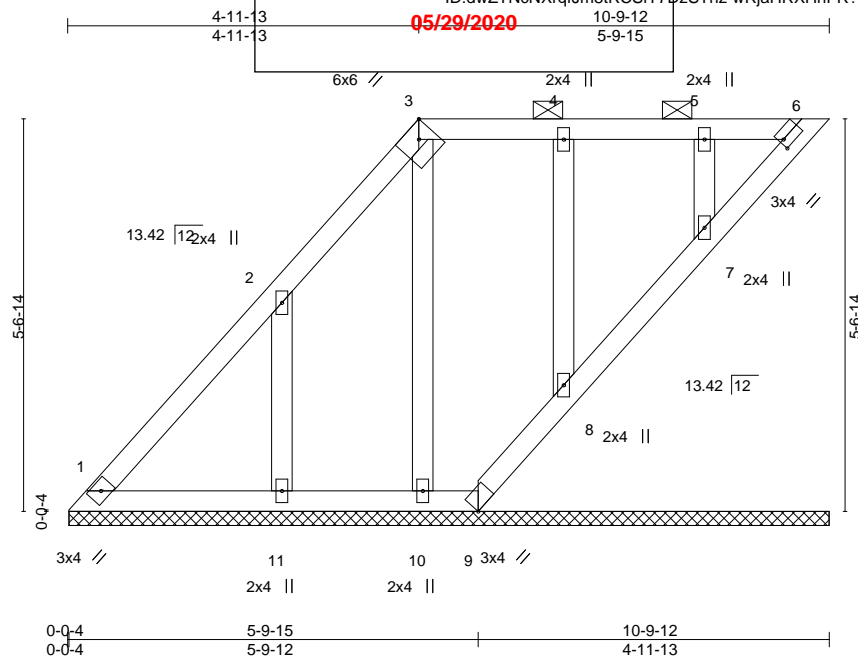


Plate Offsets (X,Y)--		[3:0-2-10,Edge], [6:0-0-11,0-1-8]					
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d
TCLL 25.0	Plate Grip DOL	1.15	TC 0.08	Vert(LL)	n/a	-	n/a
TCDL 10.0	Lumber DOL	1.15	BC 0.05	Vert(CT)	n/a	-	999
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.05	Horz(CT)	-0.00	6	n/a
BCDL 10.0	Code IRC2018/TPI2014		Matrix-S				
				PLATES		GRIP	
				MT20		197/144	
				Weight: 44 lb		FT = 10%	

LUMBER-

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

BRACING-

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

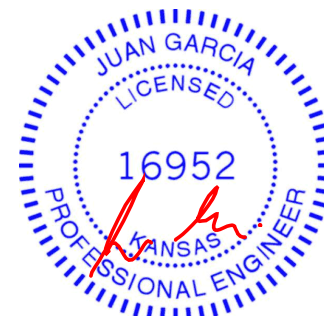
REACTIONS.

All bearings 10-9-8.
(lb) - Max Horz 1=215(LC 8)
Max Uplift All uplift 100 lb or less at joint(s) 6, 9, 10, 8, 7 except 11=199(LC 8)
Max Grav All reactions 250 lb or less at joint(s) 1, 6, 9, 10, 8, 7 except 11=303(LC 15)

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
- 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.
- 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) 6, 9, 10, 8, 7 except (jt=lb) 11=199.
- Non Standard bearing condition. Review required.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



November 20,2019

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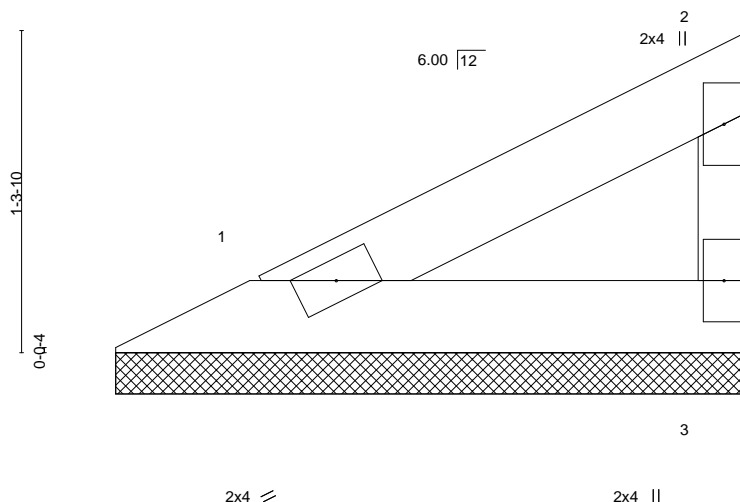
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16023 Swingley Ridge Rd
Chesterfield, MO 63017

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 4 H3
400156	V1	Valley	<div style="text-align: center;"> 05/29/2020 2-7-4 </div>		1	I39353184
Wheeler Lumber, Waverly, KS 66871		ID:dwZTNcNXrqfJm8trCSIY7DzSTnz-OdHyUnXvSYZshoGs?D5Rmp31I_X0Xu2xBlo0g2yHLu2 14 2019 MiTek Industries, Inc. Wed Nov 20 07:56:11 2019 Page 1				

Scale = 1:9.3



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 0.06	Vert(LL)	n/a	-	n/a	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.03	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	-0.00	3	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-P					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 2-7-4 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 1=84/2-6-12, 3=84/2-6-12
 Max Horz 1=39(LC 5)
 Max Uplift 1=-11(LC 8), 3=-21(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
- 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, 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.



November 20,2019

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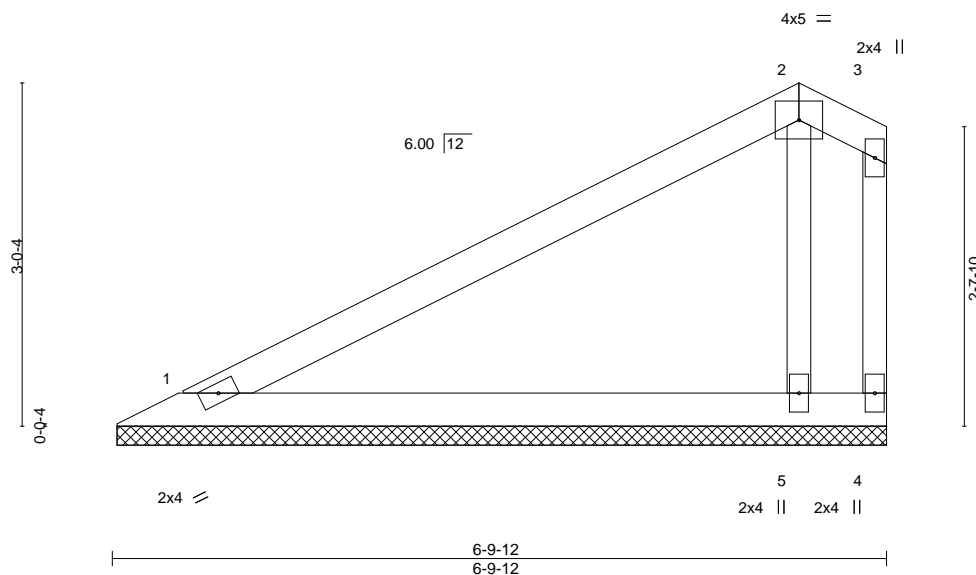
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16023 Swingley Ridge Rd
 Chesterfield, MO 63017

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 4 H3
400156	V2	Valley	<div style="text-align: center;"> 05/29/2020 </div>		1	I39353185
Wheeler Lumber, Waverly, KS 66871		ID:dwZTNcNXrqfJm8tRCSiY7DzSTnz-5YtkaCfB5dqRtK1nbKHnAwUci0uQtPkQUJDY0TyHLtu 6-0-8 6-0-8 6-9-12 6-9-12 0-9-4 0-9-4				

Scale = 1:20.3



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 0.57	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.22	Vert(CT)	n/a	-	n/a	999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.05	Horz(CT)	-0.00	4	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-P						Weight: 19 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 6-9-12 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 1=231/6-9-4, 4=-68/6-9-4, 5=384/6-9-4
 Max Horz 1=103(LC 5)
 Max Uplift 1=-41(LC 8), 4=-176(LC 3)
 Max Grav 1=231(LC 1), 5=402(LC 3)

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

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Gable requires continuous bottom chord bearing.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 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 except (jt=lb) 4=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.



November 20,2019

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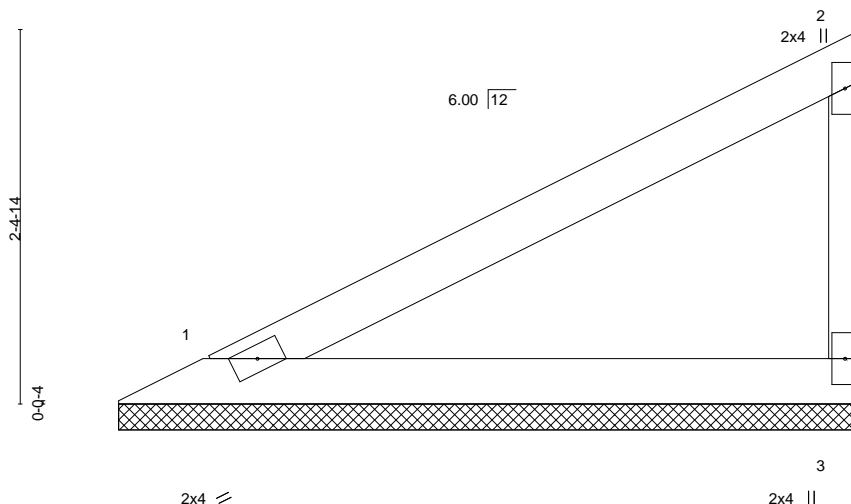
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall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

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 4 H3
400156	V3	Valley	<div style="text-align: center;"> 05/23/2020 4-9-12 4-9-12 </div>		1	I39353186
Wheeler Lumber,		Waverly, KS 66871		8.240 s Jul 14 2019 MiTek Industries, Inc. Wed Nov 20 07:56:22 2019 Page 1 ID:dwZTNcNXrqfJm8tRCSIY7DzSTnz-akR6oYgpsyIVUcz81o0j70rYQFScsmZjzy5YvyHLtt		

Scale = 1:14.8



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 0.31	Vert(LL)	n/a	-	n/a	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.17	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-

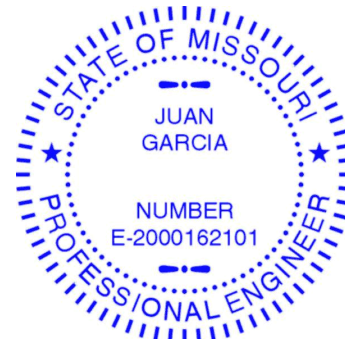
TOP CHORD Structural wood sheathing directly applied or 4-9-12 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 1=184/4-9-4, 3=184/4-9-4
 Max Horz 1=85(LC 5)
 Max Uplift 1=-24(LC 8), 3=-45(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
- 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, 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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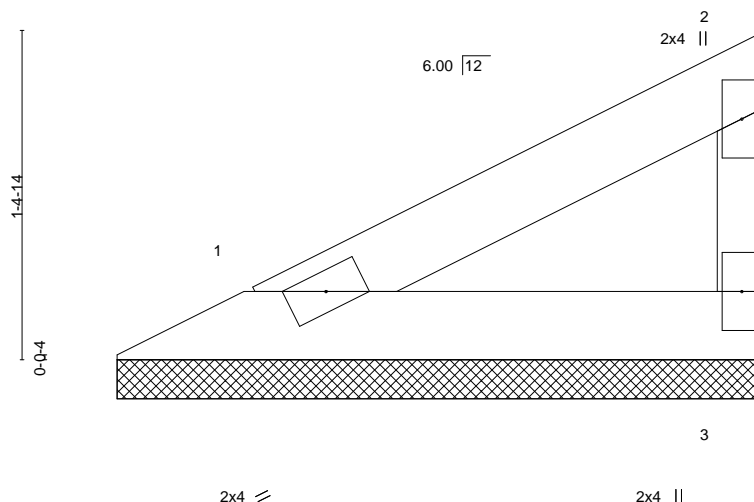
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall 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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Job 400156	Truss V4	Truss Type Valley	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI 05/29/2020		Lot 4 H3 Job Reference (optional) ID:dwZTNcNxrqfJm8tRCSiY7DzSTnz-2x?U?uhRdE497eBAiJFGLZ31qdiLJ0jxdif5MyHLts
Wheeler Lumber, Waverly, KS 66871		2-9-12 2-9-12			

Scale = 1:9.8



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)	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-

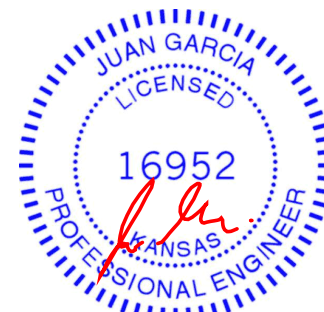
TOP CHORD Structural wood sheathing directly applied or 2-9-12 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 1=94/2-9-4, 3=94/2-9-4
 Max Horz 1=44(LC 5)
 Max Uplift 1=-12(LC 8), 3=-23(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
- 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, 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.



November 20,2019

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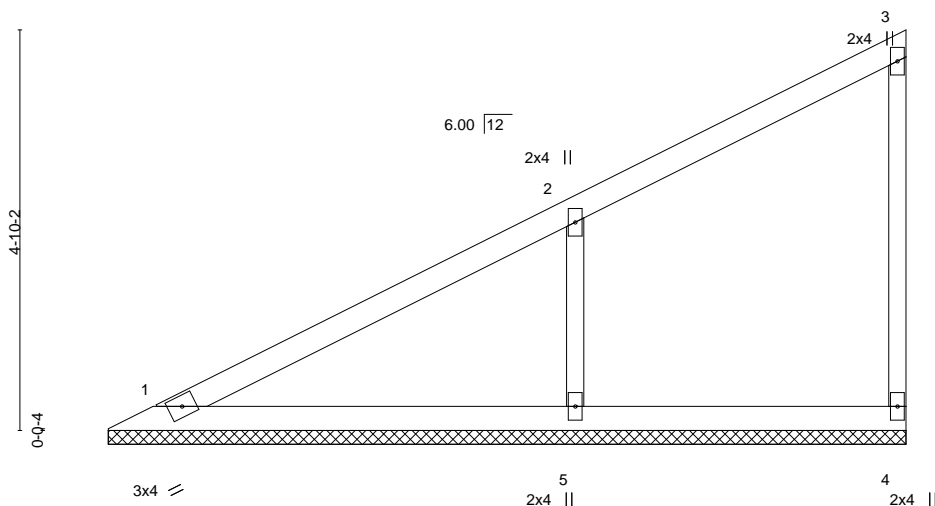
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Job	Truss	Truss Type	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI ID:dwZTNcNXrqfJm8tRCSiY7DzSTnz-W7ZtDEi3OYC0komMGSqUoY5ApExr4IxsAHRCdoyHLtr 05/29/2020			Lot 4 H3	I39353188
400156	V5	Valley				Job Reference (optional)	
Wheeler Lumber,		Waverly, KS 66871		14 2019 MiTek Industries, Inc. Wed Nov 20 07:56:24 2019 Page 1 9-8-4			

Scale = 1:27.9



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 0.33	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.17	Vert(CT)	n/a	-	n/a	999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.09	Horz(CT)	-0.00	4	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-S						Weight: 28 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=183/9-7-12, 4=117/9-7-12, 5=506/9-7-12
 Max Horz 1=187(LC 5)
 Max Uplift 4=28(LC 5), 5=-152(LC 8)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 WEBS 2-5=-383/203

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.
- 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) 4 except (jt=lb) 5=152.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



November 20,2019

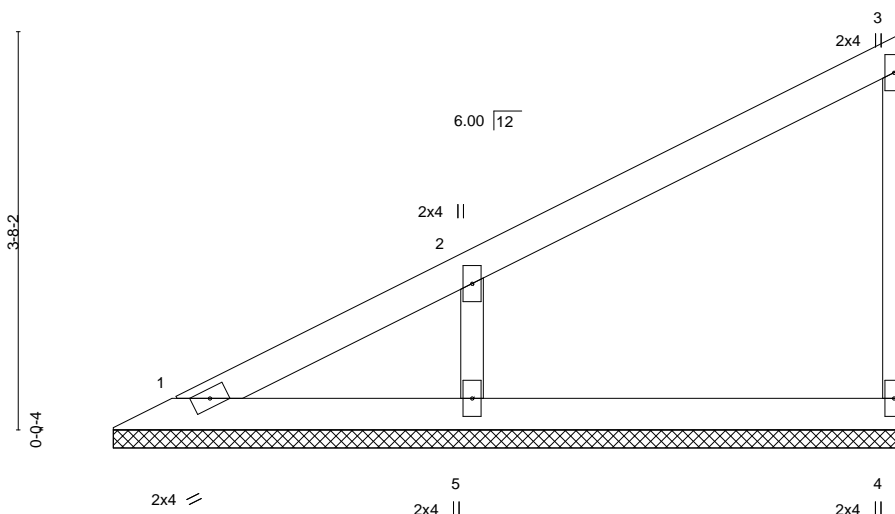
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

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	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI ID:dwZTNcNXrfJm8tRCSY7DzSTnz-_J7FQZih9sKtMyLYqALjLmeNdelBpDg?PxBm9EyHLtq 05/29/2020			Lot 4 H3	I39353189
400156	V6	Valley				Job Reference (optional)	
Wheeler Lumber,		Waverly, KS 66871		8.240 s Jul 14 2019 MiTek Industries, Inc. Wed Nov 20 07:56:25 2019 Page 1 7-4-4 7-4-4			



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.19	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.10	Vert(CT)	n/a	-	n/a	999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.05	Horz(CT)	-0.00	4	n/a	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-

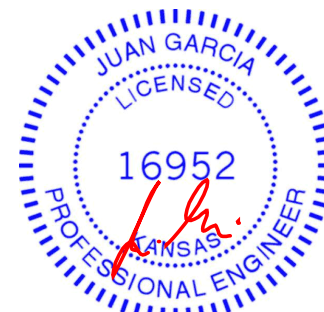
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 1=73/7-3-12, 4=141/7-3-12, 5=382/7-3-12
 Max Horz 1=138(LC 5)
 Max Uplift 4=-26(LC 8), 5=-115(LC 8)
 Max Grav 1=87(LC 16), 4=141(LC 1), 5=382(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 2-5=-297/165

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.
- 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) 4 except (jt=lb) 5=115.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



November 20,2019

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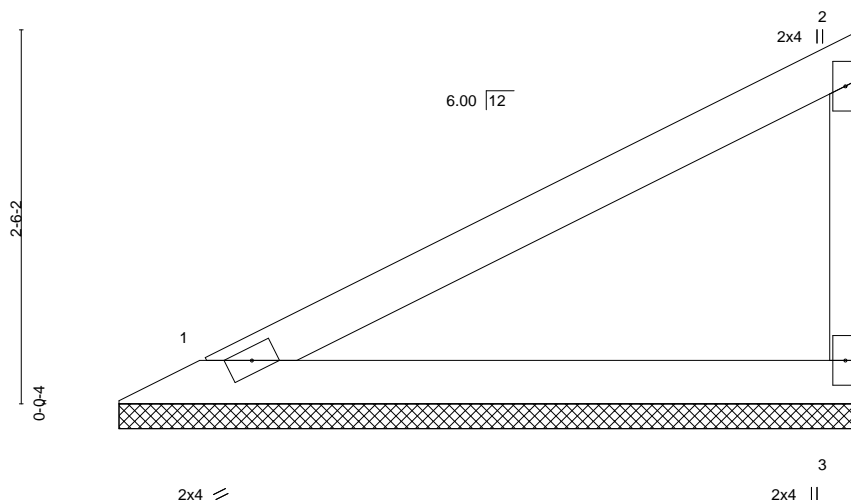
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 Chesterfield, MO 63017

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 4 H3
400156	V7	Valley	<div style="text-align: center;"> 05/29/2020 </div>		1	I39353190
Wheeler Lumber,		Waverly, KS 66871		ID:dwZTNcNXrfJm8tRCSY7DzSTnz-J7FQZih9sKiMyLYqALjLmeLFeHrpDV?PxBm9EyHLtq 14 2019 MiTek Industries, Inc. Wed Nov 20 07:56:25 2019 Page 1		

Scale = 1:15.5



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 0.35	Vert(LL)	n/a	-	n/a	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.19	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: 13 lb	FT = 10%

LUMBER-

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

BRACING-

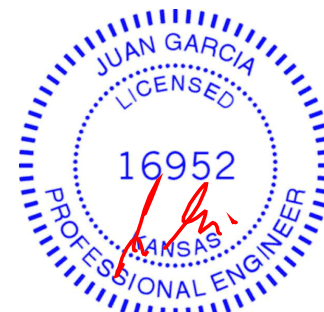
TOP CHORD Structural wood sheathing directly applied or 5-0-4 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 1=193/4-11-12, 3=193/4-11-12
 Max Horz 1=89(LC 7)
 Max Uplift 1=-25(LC 8), 3=-47(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
- 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, 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.



November 20,2019

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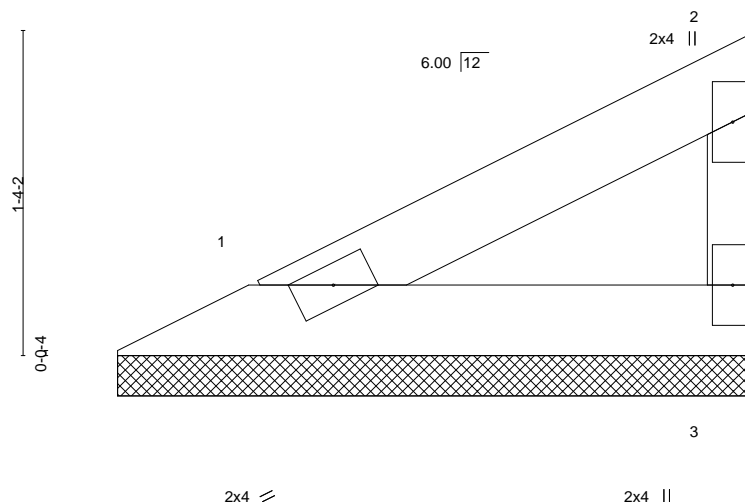
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 Chesterfield, MO 63017

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 4 H3
400156	V8	Valley			1	I39353191
Wheeler Lumber, Waverly, KS 66871				Job Reference (optional) ID:dwZTNcNXrqJm8trCSIY7DzSTnz-SWWhdevjKw9Sk_5vINtYtzBbQ1eTYgl9dbwJhhyHLtp		
				05/29/2020 2-8-4		

Scale = 1:9.5



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.06	Vert(LL)	n/a	-	n/a	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.03	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	-0.00	3	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-P					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 2-8-4 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 1=88/2-7-12, 3=88/2-7-12
 Max Horz 1=41(LC 5)
 Max Uplift 1=-11(LC 8), 3=-22(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
- 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, 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.



November 20,2019

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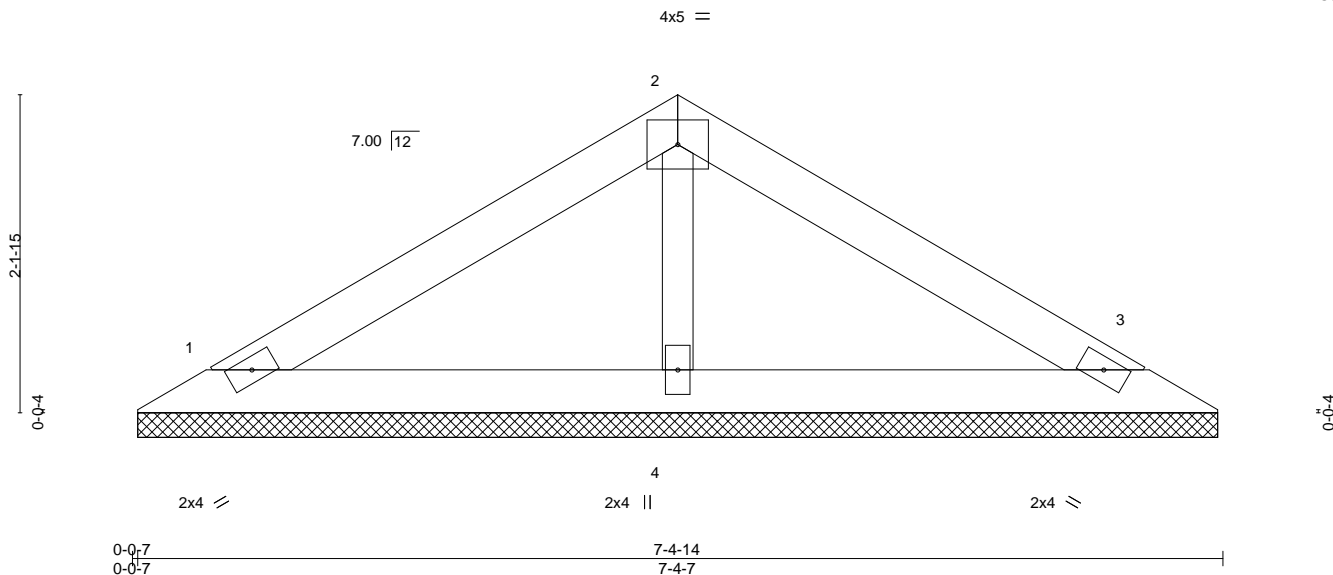
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall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

Job	Truss	Truss Type	<div style="text-align: center;"> RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI 05/29/2020 </div>		Ply	Lot 4 H3
400156	V9	Valley			1	I39353192
Wheeler Lumber, Waverly, KS 66871				Job Reference (optional)		
		3-8-7 3-8-7		14 2019 MiTek Industries, Inc. Wed Nov 20 07:56:27 2019 Page 1 ID:dwZTNcNXrfJm8tRCsIY7DzSTnz-wiF?rFkyhTaabFUxxbOBQBJkLRzvH7TIsFgsE7yHLto		
				7-4-14 3-8-7		

Scale = 1:15.6



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.18	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.09	Vert(CT)	n/a	-	n/a	999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.03	Horz(CT)	0.00	3	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-P						Weight: 18 lb	FT = 10%

LUMBER-

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

BRACING-

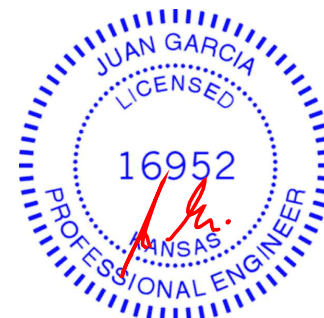
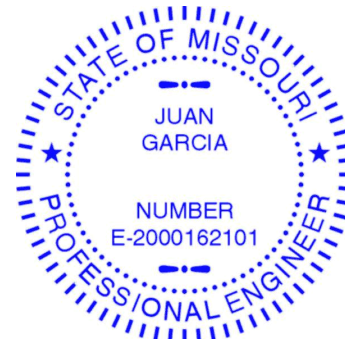
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 1=154/7-4-0, 3=154/7-4-0, 4=261/7-4-0
 Max Horz 1=-48(LC 6)
 Max Uplift 1=-35(LC 8), 3=-41(LC 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
- 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, 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.



November 20,2019

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16023 Swingley Ridge Rd
 Chesterfield, MO 63017

Job 400156	Truss V10	Truss Type Valley	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI ID:dwZTNcNXrqJm8tRCSY7DzSTnz-sprKi7YYDshjlyr2ZxdgJ0cCQOsPGLH5PPXZDVyHLu1 05/29/2020		Lot 4 H3 I39353193 Job Reference (optional) 14 2019 MiTek Industries, Inc. Wed Nov 20 07:56:12 2019 Page 1
Wheeler Lumber, Waverly, KS 66871					
		1-11-14 1-11-14			3-11-11 1-11-14

Scale = 1:8.5

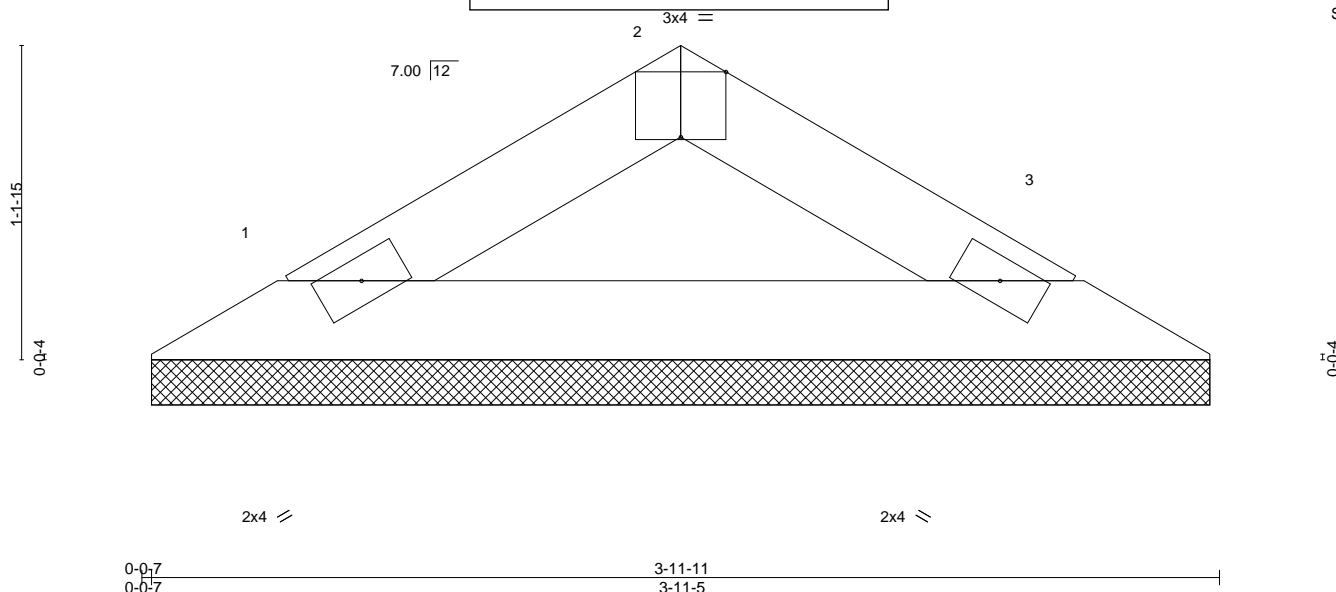


Plate Offsets (X,Y)--		[2:0-2-0,Edge]		3-11-11		3-11-5			
LOADING	(psf)	SPACING-	2-0-0	CSI.		DEFL.	in (loc) l/defl L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.03	Vert(LL)	n/a - n/a 999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.08	Vert(CT)	n/a - n/a 999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00 3 n/a n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-P				Weight: 8 lb	FT = 10%

LUMBER-

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

BRACING-

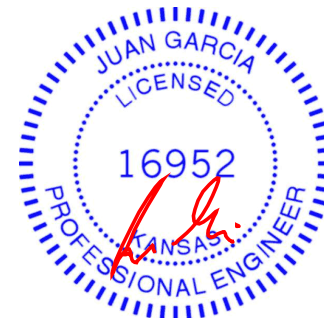
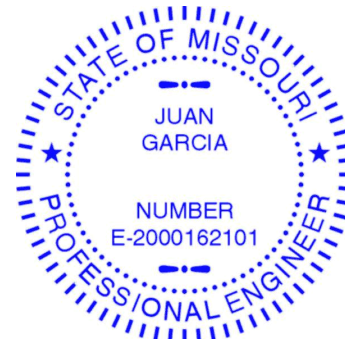
TOP CHORD Structural wood sheathing directly applied or 3-11-11 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 1=130/3-10-14, 3=130/3-10-14
Max Horz 1=-22(LC 4)
Max Uplift 1=-16(LC 8), 3=-16(LC 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
- 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, 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.



November 20,2019

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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:dwZTNcNXrqfJm8tRCSiY7DzSTnz-K0OjvTZA_Aqaw6QF7e8vsE8Fao87?nXEe3H7IxyHLu0 7-6-10 7-0-10 7-7-2 0-6-8 8/29/2020			Lot 4 H3	I39353194
400156	V11	Valley				Job Reference (optional)	
Wheeler Lumber,		Waverly, KS 66871		8.240 s Jul 14 2019 MiTek Industries, Inc. Wed Nov 20 07:56:13 2019 Page 1 7-6-10 7-0-10 7-7-2 0-6-8			

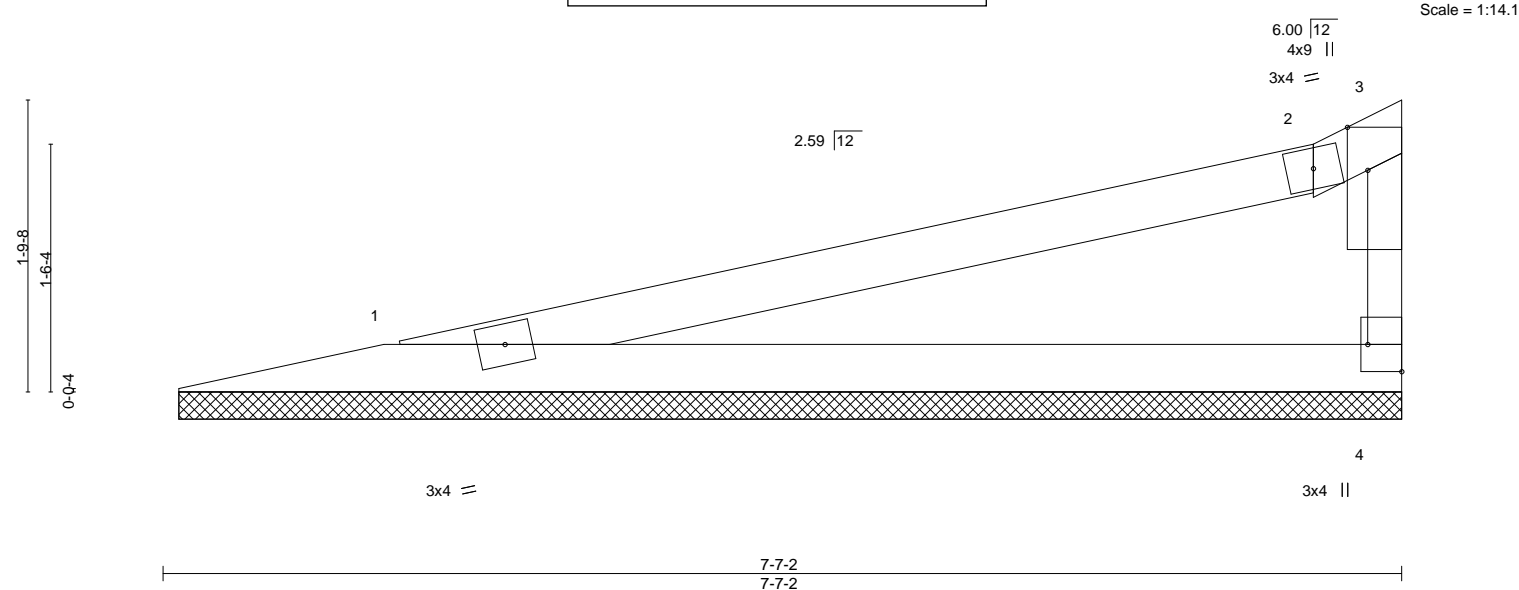


Plate Offsets (X,Y)--	[3:0-3-3,Edge], [4:Edge,0-2-8]	
LOADING (psf)	SPACING-	CSI.
TCLL 25.0	Plate Grip DOL 1.15	TC 0.52
TCDL 10.0	Lumber DOL 1.15	BC 0.32
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00
BCDL 10.0	Code IRC2018/TPI2014	Matrix-R
		DEFL.
		in (loc) l/defl L/d
		Vert(LL) n/a - n/a 999
		Vert(CT) n/a - n/a 999
		Horz(CT) 0.00 4 n/a n/a
		PLATES
		MT20
		GRIP
		197/144
		Weight: 17 lb FT = 10%

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

REACTIONS.	(lb/size) 1=272/7-6-0, 4=272/7-6-0
	Max Horz 1=60(LC 5)
	Max Uplift 1=48(LC 4), 4=-54(LC 8)

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

- NOTES-**
- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) Gable requires continuous bottom chord bearing.
 - 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 5) All bearings are assumed to be SPF No.2 crushing capacity of 425 psi.
 - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 4.
 - 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



November 20,2019

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Chesterfield, MO 63017

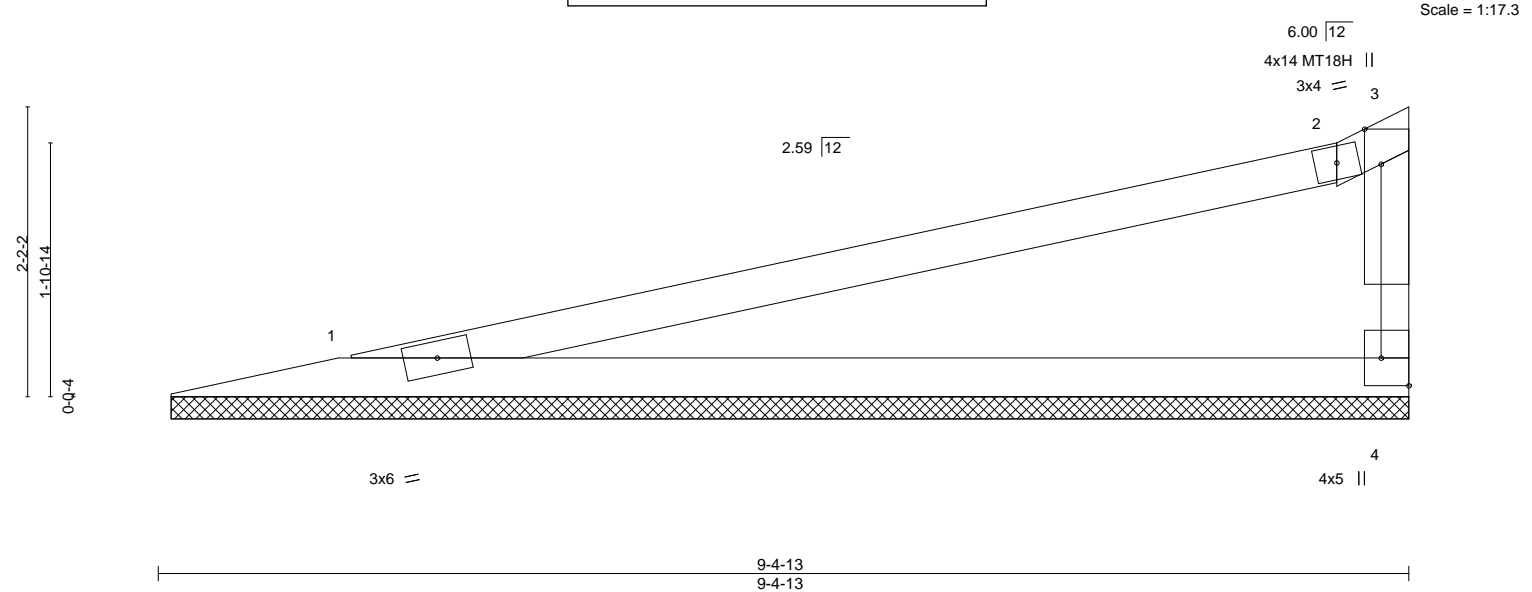


Plate Offsets (X,Y)-- [3:0-3-3,Edge], [4:Edge,0-2-8]									
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d		PLATES	GRIP
TCLL 25.0		Plate Grip DOL 1.15		TC 0.92		Vert(LL) n/a - n/a 999		MT20	197/144
TCDL 10.0		Lumber DOL 1.15		BC 0.55		Vert(CT) n/a - n/a 999		MT18H	197/144
BCLL 0.0 *		Rep Stress Incr YES		WB 0.00		Horz(CT) 0.00 4 n/a n/a			
BCDL 10.0		Code IRC2018/TPI2014		Matrix-R				Weight: 21 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		

REACTIONS. (lb/size) 1=353/9-3-10, 4=353/9-3-10
Max Horz 1=77(LC 5)
Max Uplift 1=-63(LC 4), 4=-70(LC 8)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 3-4=-251/109

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) All plates are MT20 plates unless otherwise indicated.
- 3) Gable requires continuous bottom chord bearing.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) All bearings are assumed to be SPF No.2 crushing capacity of 425 psi.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 4.
- 8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



November 20, 2019

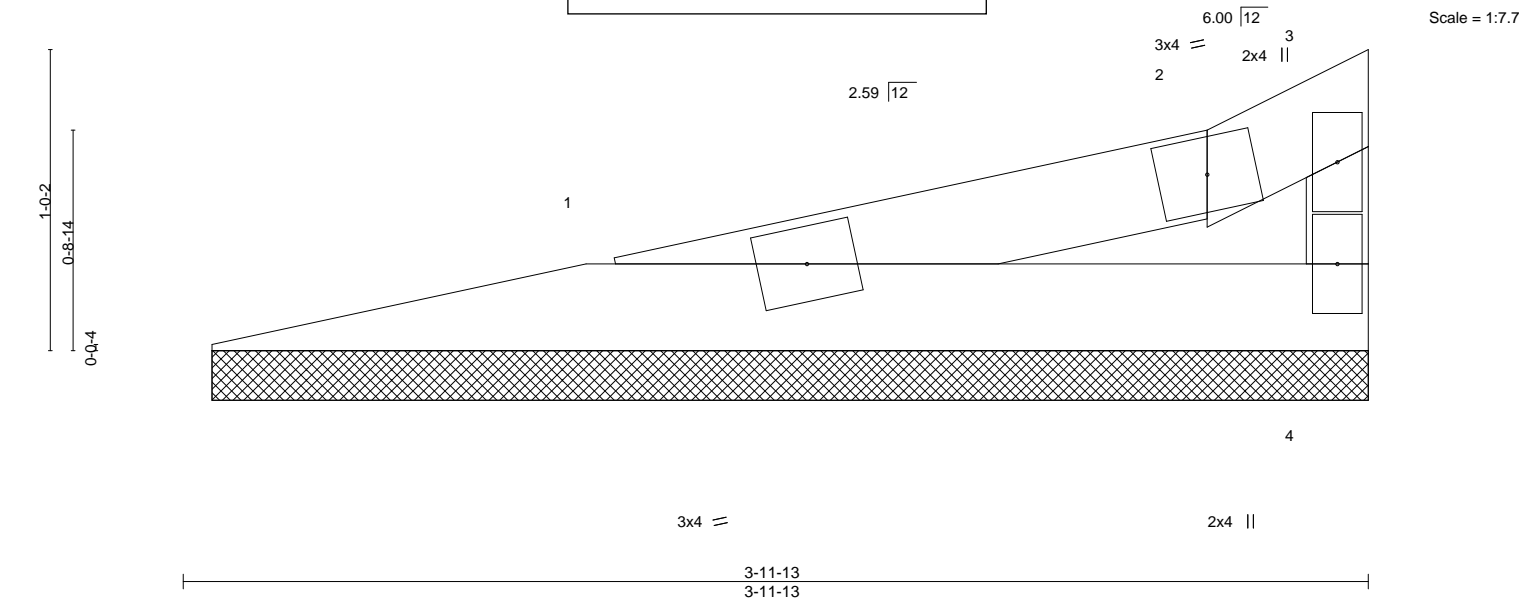


WARNING – Verify design parameters and READ NOTES on this and INCLUDED MITER KEY REFERENCE PAGE MP1473 (rev. 10/03/2015) BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before 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 style="text-align: center;"> RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI </div>		Ply	Lot 4 H3
400156	V13	Valley	<div style="text-align: center;"> 05/29/2020 </div>		1	I39353196
Wheeler Lumber, Waverly, KS 66871		ID:dwZTNcNXrqfJm8IRCSiY7DzSTnz-HOWTK9bQWn4H9PadE3ANxfEizcugTh1X6NmEqpyHLu_				



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

LUMBER-

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

BRACING-

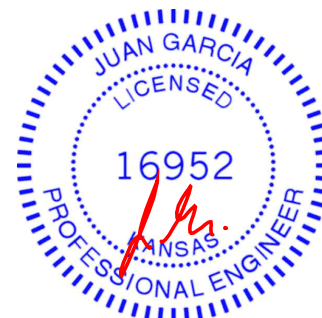
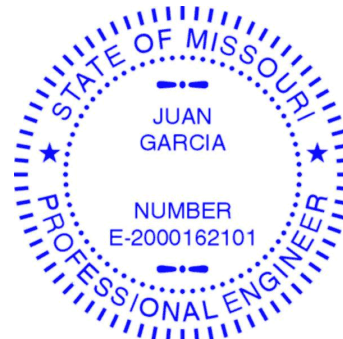
TOP CHORD Structural wood sheathing directly applied or 3-11-13 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 1=109/3-10-10, 4=109/3-10-10
 Max Horz 1=27(LC 5)
 Max Uplift 1=-19(LC 4), 4=-22(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
- 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, 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.



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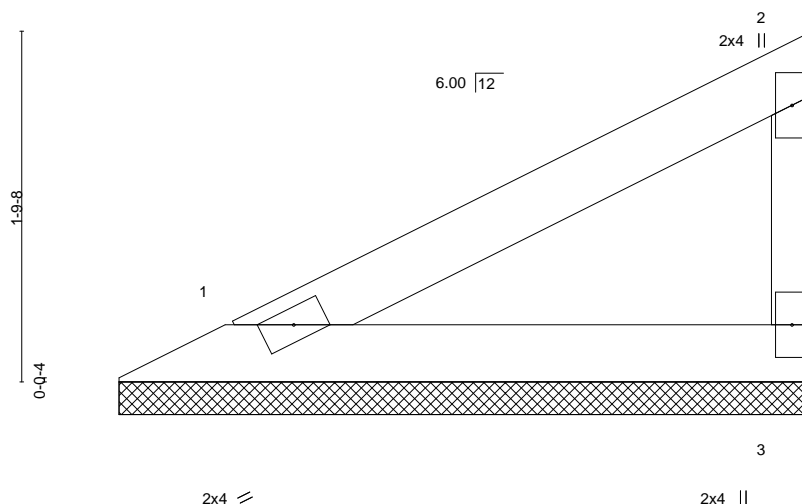
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16023 Swingley Ridge Rd
 Chesterfield, MO 63017

Job 400156	Truss V14	Truss Type Valley	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI ID:dwZTNcNXrfJm8tRCSiY7DzSTnz-HOWTK9bQWn4H9PadE3ANxfEhycETh1X6NmEqpyHLu_		Lot 4 H3 I39353197
Wheeler Lumber, Waverly, KS 66871		Job Reference (optional) 14 2019 MiTek Industries, Inc. Wed Nov 20 07:56:15 2019 Page 1 05/29/2020			



Scale = 1:11.8

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 0.14	Vert(LL)	n/a	-	n/a	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.08	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 3-6-15 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 1=128/3-6-7, 3=128/3-6-7
 Max Horz 1=59(LC 5)
 Max Uplift 1=-16(LC 8), 3=-31(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
- 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, 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.



November 20,2019

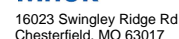
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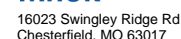


16023 Swingley Ridge Rd
 Chesterfield, MO 63017

LUMBER-		BRACING-	
TOP CHORD	2x4 SPF No.2	TOP CHORD	Structural wood sheathing directly applied or 4-6-2 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		



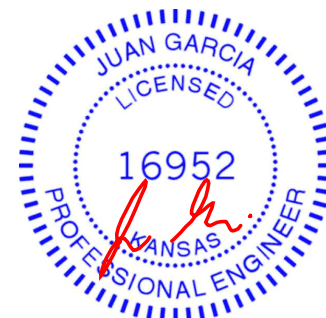
LUMBER-		BRACING-	
TOP CHORD	2x4 SPF No.2	TOP CHORD	Structural wood sheathing directly applied or 5-2-6 oc purlins, except end verticals.
BOT CHORD	2x4 SPF No.2	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	2x3 SPF No.2		



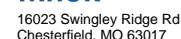
LUMBER-		BRACING-	
TOP CHORD	2x4 SPF No.2	TOP CHORD	Structural wood sheathing directly applied or 5-10-10 oc purlins, except end verticals.
BOT CHORD	2x4 SPF No.2	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	2x3 SPF No.2		

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

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; 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) 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) All bearings are assumed to be SPF No.2 crushing capacity of 425 psi.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

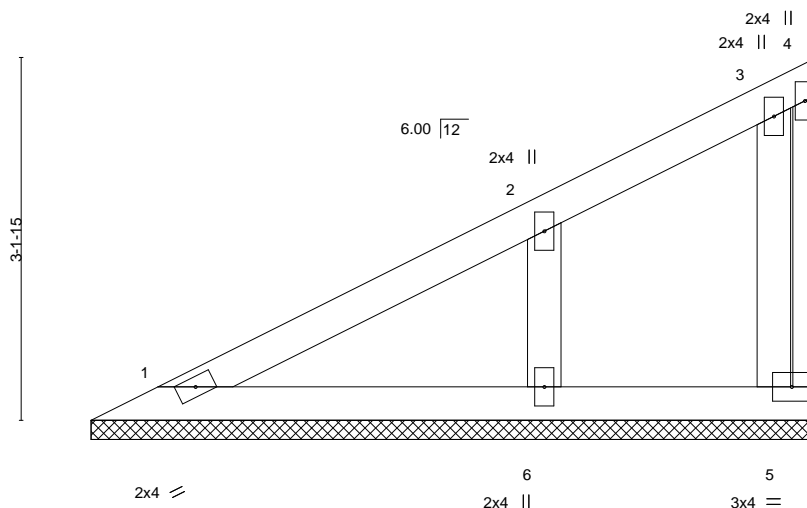


Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall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



Job	Truss	Truss Type	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI ID: dwZTNcNXrqfJm8tRCSiY7DzSTnz-dMJMNseZLJiaGASb1cmYeixXedaU8ymGFFT?U1yHLTV 05/29/2020			Lot 4 H3	I39353201
400156	V18	GABLE				Job Reference (optional)	
Wheeler Lumber,		Waverly, KS 66871		14 2019 MiTek Industries, Inc. Wed Nov 20 07:56:20 2019 Page 1 6-2-14 6-3-14			

Scale = 1:20.1



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 0.15	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 0.03	Horz(CT)	-0.00	5	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-P					Weight: 21 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. (lb/size) 1=122/6-3-14, 5=62/6-3-14, 6=316/6-3-14
 Max Horz 1=117(LC 5)
 Max Uplift 5=-23(LC 5), 6=-94(LC 8)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) 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) Gable studs spaced at 2-0-0 oc.
- 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) All bearings are assumed to be SPF No.2 crushing capacity of 425 psi.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 6.
- 9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



November 20,2019

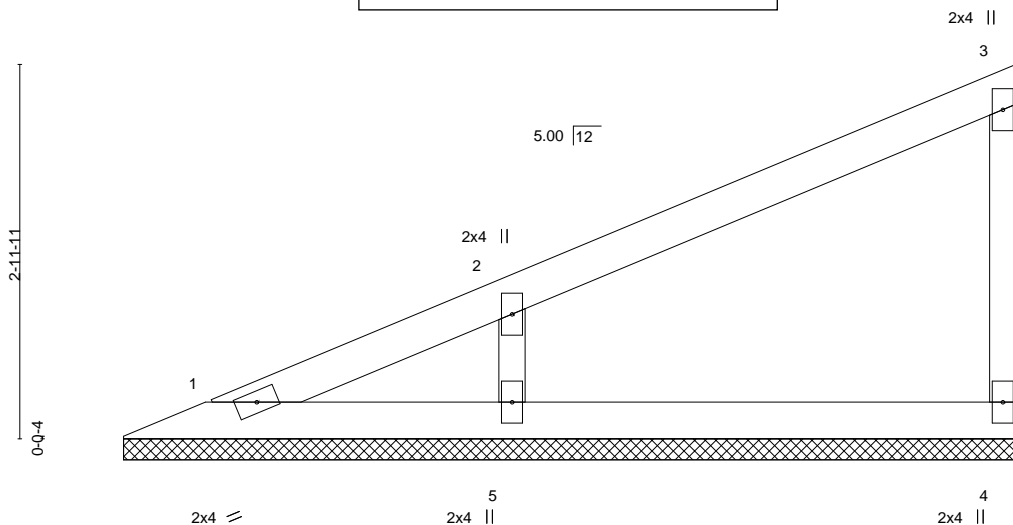
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

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/TP1 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 style="text-align: center;"> RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI </div>		Ply	Lot 4 H3
400156	V19	Valley	<div style="text-align: center;"> 05/29/2020 7-1-10 7-1-10 </div>		1	I39353202
Wheeler Lumber,		Waverly, KS 66871	ID:dwZTNcNXrfJm8tRCSY7DzSTnz-dMJMNseZLJiaGASb1cmYeixX1da18yTGFT?U1yHLtv 14 2019 MiTek Industries, Inc. Wed Nov 20 07:56:20 2019 Page 1			



Scale = 1:18.3

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 0.19	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.10	Vert(CT)	n/a	-	n/a	999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.05	Horz(CT)	-0.00	4	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-P						Weight: 18 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-

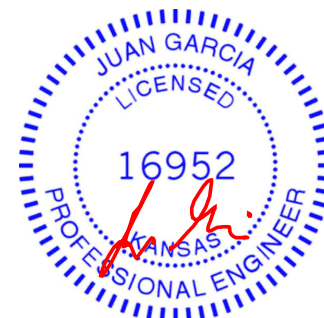
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 1=53/7-1-0, 4=142/7-1-0, 5=370/7-1-0
 Max Horz 1=115(LC 5)
 Max Uplift 4=27(LC 8), 5=98(LC 8)
 Max Grav 1=62(LC 16), 4=142(LC 1), 5=370(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 2-5=-288/148

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.
- 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) 4, 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.



November 20,2019

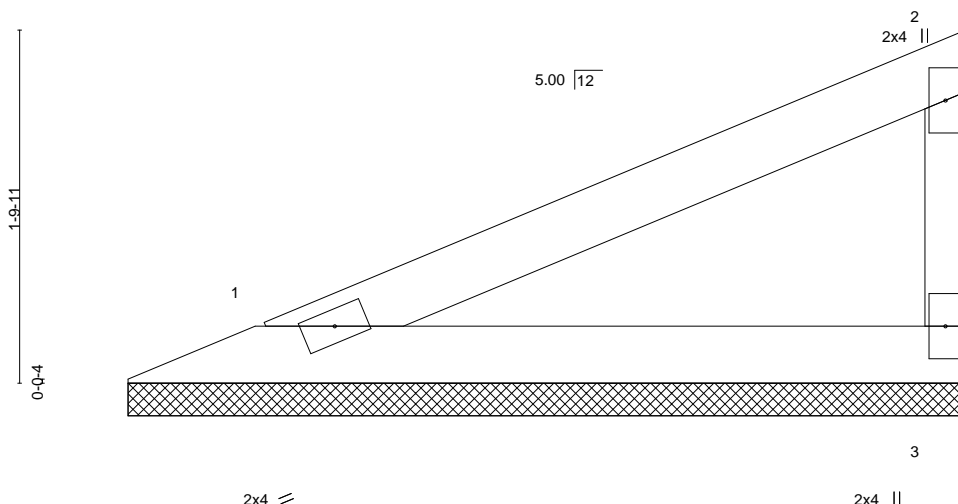
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

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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 4 H3
400156	V20	Valley	<div style="text-align: center;"> 05/29/2020 4-4-0 </div>		1	I39353203
Wheeler Lumber,		Waverly, KS 66871	ID:dwZTNcNXrqfJm8tRC5iY7DzSTnz-akR6oYgpsxylVUcz81o0j70s?QGDCsmZjzy5YvyHLt 14 2019 MiTek Industries, Inc. Wed Nov 20 07:56:22 2019 Page 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 0.12	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: 10 lb	FT = 10%

LUMBER-

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

BRACING-

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

REACTIONS. (lb/size) 1=156/4-3-6, 3=156/4-3-6
 Max Horz 1=64(LC 5)
 Max Uplift 1=-23(LC 8), 3=-36(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
- 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, 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.



November 20,2019

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16023 Swingley Ridge Rd
 Chesterfield, MO 63017

Symbols

PLATE LOCATION AND ORIENTATION

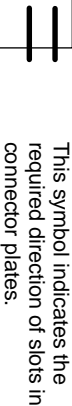
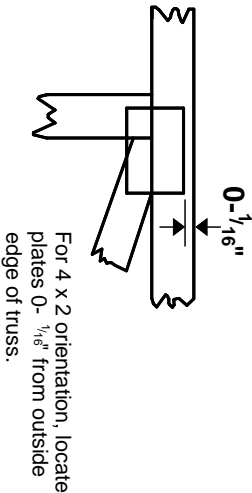
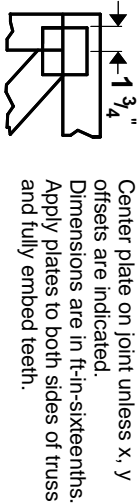
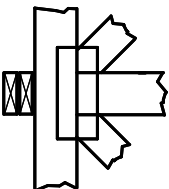
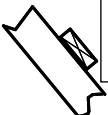


Plate location details available in **MiTek 20/20** software or upon request.

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
05/29/2020

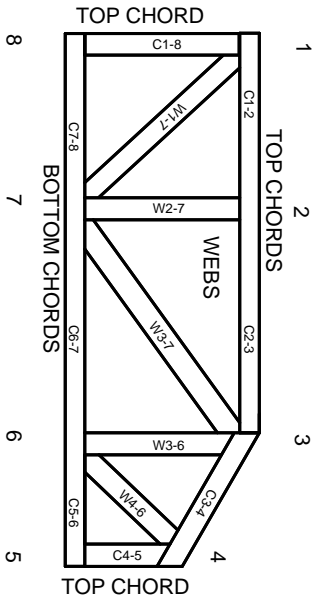
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING LOCATION



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

Numbering System



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

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

PRODUCT CODE APPROVALS

ICC-ES Reports:

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

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

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

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