





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

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

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

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

This package includes 80 individual, dated Truss Design Drawings and 0 Additional Drawings.

No. 1	Seal# I41005728	Truss Name A1	Date 7/23/2020	No. 27	Seal# I41005754	Truss Name D4	Date 7/23/2020
2	l41005729	A2	7/23/2020	28	l41005755	D5	7/23/2020
3	l41005730	A3	7/23/2020	29	l41005756	D6	7/23/2020
4	l41005731	A4	7/23/2020	30	l41005757	D7	7/23/2020
5	l41005732	B1	7/23/2020	31	l41005758	D8	7/23/2020
6	l41005733	B2	7/23/2020	32	l41005759	D9	7/23/2020
7	l41005734	B3	7/23/2020	33	l41005760	E1	7/23/2020
8	l41005735	B4	7/23/2020	34	l41005761	E2	7/23/2020
9	l41005736	B5	7/23/2020	35	l41005762	E3	7/23/2020
10	l41005737	B6	7/23/2020	36	l41005763	E4	7/23/2020
11	l41005738	B7	7/23/2020	37	l41005764	J1	7/23/2020
12	l41005739	B8	7/23/2020	38	l41005765	J2	7/23/2020
13	l41005740	B9	7/23/2020	39	l41005766	J3	7/23/2020
14	l41005741	B10	7/23/2020	40	l41005767	J4	7/23/2020
15	l41005742	B11	7/23/2020	41	l41005768	J5	7/23/2020
16	l41005743	B12	7/23/2020	42	l41005769	J6	7/23/2020
17	l41005744	B13	7/23/2020	43	l41005770	J7	7/23/2020
18	l41005745	B14	7/23/2020	44	l41005771	J8	7/23/2020
19	l41005746	C1	7/23/2020	45	l41005772	J9	7/23/2020
20	l41005747	C2	7/23/2020	46	l41005773	J10	7/23/2020
21	l41005748	C3	7/23/2020	47	l41005774	J11	7/23/2020
22	l41005749	C4	7/23/2020	48	l41005775	J12	7/23/2020
23	l41005750	C5	7/23/2020	49	l41005776	J13	7/23/2020
24	l41005751	D1	7/23/2020	50	l41005777	J14	7/23/2020
25	l41005752	D2	7/23/2020	51	l41005778	J15	7/23/2020
26	l41005753	D3	7/23/2020	52	141005779	J16	7/23/2020

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.





RE: 400432 - Lot 26 RT

Site Information:

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

No.	Seal#	Truss Name	Date
53	l41005780	J17	7/23/2020
54	l41005781	J18	7/23/2020
55	l41005782	J19	7/23/2020
56	l41005783	J20	7/23/2020
57	l41005784	J21	7/23/2020
58	l41005785	J22	7/23/2020
59	l41005786	J23	7/23/2020
60	l41005787	J24	7/23/2020
61	l41005788	J25	7/23/2020
62	l41005789	J26	7/23/2020
63	l41005790	J27	7/23/2020
64	l41005791	J28	7/23/2020
65	l41005792	J29	7/23/2020
66	l41005793	J30	7/23/2020
67	l41005794	LAY1	7/23/2020
68	l41005795	LAY2	7/23/2020
69	l41005796	LAY3	7/23/2020
70	l41005797	LAY4	7/23/2020
71	l41005798	LAY5	7/23/2020
72	l41005799	LAY6	7/23/2020
73	l41005800	LAY7	7/23/2020
74	l41005801	V1	7/23/2020
75	l41005802	V2	7/23/2020
76	l41005803	V3	7/23/2020
77	l41005804	V4	7/23/2020
78	l41005805	V5	7/23/2020
79	l41005806	V6	7/23/2020
80	l41005807	V7	7/23/2020

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Subdivision:

State:



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l41005731	A4	7/23/2020	30	l41005757	D7	7/23/2020
l41005732	B1	7/23/2020	31	l41005758	D8	7/23/2020
l41005733	B2	7/23/2020	32	l41005759	D9	7/23/2020
l41005734	B3	7/23/2020	33	l41005760	E1	7/23/2020
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l41005736	B5	7/23/2020	35	l41005762	E3	7/23/2020
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The truss drawing(s) referenced above have been prepared by

MiTek USA, Inc under my direct supervision

based on the parameters provided by Wheeler - Waverly.

Truss Design Engineer's Name: Garcia, Juan

My license renewal date for the state of Missouri is December 31, 2020. Missouri COA: 001193

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





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Subdivision:

State:



Scale = 1:22.8

Mitek° 16023 Swingley Ridge Rd Chesterfield, MO 63017



⊢ −−	2-4-7		9-7-9			12-0-0	
Plate Offsets (X,Y)	[3:0-3-8,0-1-14], [5:0-3-8,0-1-14]		1-3-2			2-4-1	
LOADING (psf) TCLL 25.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr NO Code IRC2018/TPI2014	CSI. TC 0.25 BC 0.63 WB 0.28 Matrix-S	DEFL. in Vert(LL) -0.09 Vert(CT) -0.20 Horz(CT) 0.01 Wind(LL) 0.02	(loc) l/defl 9-10 >999 9-10 >703 8 n/a 9-10 >999	L/d 360 240 n/a 240	PLATES MT20 Weight: 46 lb	GRIP 197/144 FT = 10%
LUMBER- TOP CHORD 2x4 SP BOT CHORD 2x4 SP WEBS 2x3 SP 2-11,6-1	PF No.2 PF No.2 PF No.2 *Except* 8: 2x4 SPF No.2		BRACING- TOP CHORD BOT CHORD	Structural wood s except end vertic Rigid ceiling direc	heathing directly als, and 2-0-0 oc tly applied or 6-0	y applied or 5-11-1 c purlins (6-0-0 ma 0-0 oc bracing.	5 oc purlins, ix.): 3-5.
REACTIONS. (size Max Ho Max U Max Go	e) 11=0-3-8, 8=0-3-8 orz 11=85(LC 28) plift 11=-195(LC 8), 8=-195(LC 9) rav 11=890(LC 1), 8=890(LC 1)					NUL OF	MIS
FORCES. (lb) Max. TOP CHORD 2-3=-1 6-8=-5 BOT CHORD 9-10= WEBS 3-10= 4-10=	Comp./Max. Ten All forces 250 (lb) or 959/177, 3-4=-757/160, 4-5=-757/160, 5 931/165 =-326/1124 =-29/315, 4-9=-445/225, 5-9=-28/315, 2-1 =-445/225	less except when shown. -6=-959/178, 2-11=-931/1 0=-125/818, 6-9=-128/81	65, 8,			GA	JAN RCIA
NOTES- 1) Unbalanced roof live 2) Wind: ASCE 7-16; V MWFRS (envelope) grip DOL=1.60 3) Provide adequate dra 4) This truss has been of	e loads have been considered for this des (ult=115mph (3-second gust) Vasd=91mj gable end zone; cantilever left and right ainage to prevent water ponding. designed for a 10.0 psf bottom chord live	sign. bh; TCDL=6.0psf; BCDL= exposed ; end vertical left e load nonconcurrent with	6.0psf; h=25ft; Cat. II; E t and right exposed; Lun any other live loads.	xp C; Enclosed; iber DOL=1.60 pla	te	PROFE-200	MBER 0162101
 This truss has been will fit between the b Provide mechanical 11=195, 8=195. This truss is designe referenced standard Combination provide provide the standard 	n designed for a live load of 20.0psf on the ottom chord and any other members. connection (by others) of truss to bearing ed in accordance with the 2018 Internatio ANSI/TPI 1.	e bottom chord in all area g plate capable of withstar nal Residential Code sect	as where a rectangle 3-6 nding 100 lb uplift at join tions R502.11.1 and R86	3-0 tall by 2-0-0 wic t(s) except (jt=lb) 02.10.2 and	le	AUGUNTES LIC	GARCIA
 6) Graphical purify the purify 9) Hanger(s) or other cordinates of the cordinates of the design of the design selection 10) In the LOAD CASE 	eseritation device(s) shall be provided su (n and 76 lb up at 6-0-0, and 90 lb down 4-0-0, 39 lb down at 6-0-0, and 39 lb do of such connection device(s) is the resp (S) section, loads applied to the face of the face o	fficient to support concern and 76 lb up at 8-0-0 on own at 8-0-0, and 157 lb o onsibility of others. he truss are noted as fror	trated load(s) 90 lb down top chord, and 157 lb di down and 87 lb up at 9- nt (F) or back (B).	n and 76 lb up at own and 87 lb up a 7-9 on bottom cho	t rd.	PROFE S	5952
LOAD CASE(S) Stand	dard					1111	April 16,2020

Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 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, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

Job	Truss	Truss Type	Qty	Ply	Lot 26 RT	
					14100572	28
400432	A1	Hip Girder	1	1		
					Job Reference (optional)	
Wheeler Lumber, Wave	erly, KS 66871			.240 s Ma	r 9 2020 MiTek Industries, Inc. Thu Apr 16 11:13:36 2020 Page 2	

8.240 s Mar 9 2020 Millek Industries, Inc. Thu Apr 16 11:13:36 2020 Page 2 ID:ell3htjhC3ucpFh1ifG0EczUTUF-urux_8juom9u5t9YM9KO1YnpZy4YjMXwa91Rb2zQ9bD

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, 8-11=-20

Concentrated Loads (lb)

Vert: 10=-157(B) 4=-60(B) 9=-157(B) 12=-60(B) 13=-60(B) 14=-30(B) 15=-30(B) 16=-30(B)

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		3-7-7		1		8-4-9					12-0-0	
		3-7-7		I		4-9-2			I		3-7-7	
Plate Off	sets (X,Y)	[2:0-1-3,0-1-12], [3:0-3-8,	,0-1-14], [4:0-3-8	,0-1-14], [5	5:0-1-3,0-1-	12], [7:0-3-8,Edge],	[7:0-0-0),0-1-12], [10:0-0	-0,0-1-12]		
LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.40	Vert(LL)	-0.05	8-9	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.38	Vert(CT)	-0.11	8-9	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.05	Horz(CT)	0.01	7	n/a	n/a		
BCDL	10.0	Code IRC2018/TF	PI2014	Matrix	k-S	Wind(LL)	0.03	8-9	>999	240	Weight: 42 lb	FT = 10%
LUMBER	₹-		•			BRACING-						

TOP CHORD

BOT CHORD

LUMBER-

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

REACTIONS. (size) 10=0-3-8, 7=0-3-8 Max Horz 10=-106(LC 6) Max Uplift 10=-65(LC 8), 7=-65(LC 9) Max Grav 10=598(LC 1), 7=598(LC 1)

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

9-10=-69/421, 8-9=-70/420, 7-8=-20/421 TOP CHORD

BOT CHORD

NOTES-

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

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

3) Provide adequate drainage to prevent water ponding.

4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

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

6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 10, 7. 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and

referenced standard ANSI/TPI 1.

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



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

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

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

🛦 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE Design valid for use only with MiTeK® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPH Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601





		1	4-10-7		1	7-1-9	1			12-0-0	1	
		Γ	4-10-7		1	2-3-2	1			4-10-7	1	
Plate Offset	ts (X,Y)	[2:0-1-3,0-1-12], [3:0-3-8	,0-1-14], [4:0-	3-8,0-1-14], [5	:0-1-3,0-1-	12], [7:0-3-8,Edge],	[7:0-0-0),0-1-12	:], [10:0-0	-0,0-1-12]		
LOADING	(psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.41	Vert(LL)	-0.03	8-9	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.26	Vert(CT)	-0.06	8-9	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.04	Horz(CT)	0.01	7	n/a	n/a		
BCDL	10.0	Code IRC2018/TF	PI2014	Matrix	(-S	Wind(LL)	0.01	8	>999	240	Weight: 43 lb	FT = 10%
						PRACINC						

TOP CHORD

BOT CHORD

TOP CHORD

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

REACTIONS. (size) 10=0-3-8, 7=0-3-8 Max Horz 10=128(LC 7) Max Uplift 10=-75(LC 8), 7=-75(LC 9) Max Grav 10=598(LC 1), 7=598(LC 1)

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

 TOP CHORD
 2-3=-568/63, 3-4=-378/104, 4-5=-568/63, 2-10=-529/115, 5-7=-529/115

 BOT CHORD
 9-10=-38/379, 8-9=-39/378, 7-8=0/379

NOTES-

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

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

3) Provide adequate drainage to prevent water ponding.

4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

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

6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 10, 7. 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and

referenced standard ANSI/TPI 1.

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



11111 MIS

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

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

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



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BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

2x4 SPF No.2 *Except* 3-7: 2x3 SPF No.2 REACTIONS.

(size) 8=0-3-8, 6=0-3-8 Max Horz 8=149(LC 7) Max Uplift 8=-81(LC 8), 6=-81(LC 9) Max Grav 8=598(LC 1), 6=598(LC 1)

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

TOP CHORD 2-3=-551/100, 3-4=-551/100, 2-8=-537/128, 4-6=-537/128

BOT CHORD 7-8=0/361, 6-7=0/361

NOTES-

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

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

3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.

5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 8, 6.

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



11 1111 MIS

JUAN

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

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

except end verticals.

April 16,2020



MiTek 16023 Swingley Ridge Rd Chesterfield, MO 63017



 2-ply truss to be connected together with 10d (0.131"x3") halls as follows: Top chords connected as follows: 2x4 - 1 row at 0-4-0 oc.

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

2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.

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

 4) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 5) Provide adequate drainage to prevent water ponding.

All plates are MT20 plates unless otherwise indicated.

7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.

- 9) Refer to girder(s) for truss to truss connections.
- 10) 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.

11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=480, 9=547.

Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 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, 2670 Crain Highway, Suite 203 Waldorf, MD 20601 16952 April 16,2020



Job	Truss	Truss Type	Qty	Ply	Lot 26 RT	
400432	B1	Half Hip Girder	1			l41005732
400432			1	2	Job Reference (optional)	
Wheeler Lumber. Way	erlv. KS 66871		8	3.240 s Ma	r 9 2020 MiTek Industries, Inc. Thu Apr 16 11:13:41 2020	Page 2

ID:eII3htjhC3ucpFh1ifG0EczUTUF-Fpiq1sn1dIoBBe2W9iwZkcUVQzmoOZBfkRkCGGzQ9b8

NOTES-

- 12) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 13) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- (a) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 114 lb down and 78 lb up at 10-5-7, 116 lb down and 78 lb up at 12-5-7, 116 lb down and 78 lb up at 14-5-7, 116 lb down and 78 lb up at 14-5-7, 116 lb down and 78 lb up at 14-5-7, 116 lb down and 78 lb up at 14-5-7, 116 lb down and 78 lb up at 14-5-7, 116 lb down and 78 lb up at 12-5-7, 116 lb down and 78 lb up at 12-5-7, 116 lb down and 78 lb up at 12-5-7, 116 lb down and 78 lb up at 12-5-7, 116 lb down and 78 lb up at 12-5-7, 116 lb down and 78 lb up at 12-5-7, 116 lb down and 78 lb up at 22-5-7, 116 lb down and 24 lb up at 24-5-7, 76 lb down and 24 lb up at 26-5-7, 124 lb down and 94 lb up at 28-5-7, and 124 lb down and 94 lb up at 30-5-7, and 129 lb down and 91 lb up at 12-5-7, 71 lb down and 21 lb up at 12-5-7, 71 lb down and 21 lb up at 12-5-7, 71 lb down and 21 lb up at 12-5-7, 116 lb down and 73 lb up at 24-5-7, 142 lb down and 73 lb up at 24-5-7, 142 lb down and 73 lb up at 22-5-7, and 71 lb down at 32-5-7 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

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

- Uniform Loads (plf)
- Vert: 1-3=-70, 3-8=-70, 1-16=-20, 11-16=-20, 9-10=-20 Concentrated Loads (lb)
 - Vert: 15=-711(F) 17=-93(F) 18=-93(F) 19=-93(F) 20=-93(F) 21=-93(F) 22=-93(F) 23=-100(F) 24=-24(F) 25=-24(F) 26=-114(F) 27=-114(F) 28=-125(F) 29=-71(F) 30=-71(F) 31=-71(F) 32=-71(F) 33=-71(F) 35=-75(F) 36=-142(F) 37=-142(F) 38=-50(F) 39=-50(F) 40=-53(F)

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 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 **ANSITPTI Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601







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16023 Swingley Ridge Rd Chesterfield, MO 63017

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Plate Offsets (X,Y)	[9:Edge,0-1-8], [13:0-2-8,0-1-8], [14:0-2-	8,0-1-8]				
LOADING (psf) TCLL 25.0 TCDL 10.0 BCLL 0.0 BCDL 10.0	SPACING-2-0-0Plate Grip DOL1.15Lumber DOL1.15Rep Stress IncrYESCodeIRC2018/TPI2014	CSI. TC 0.75 BC 0.81 WB 0.79 Matrix-S	DEFL. in Vert(LL) -0.35 Vert(CT) -0.62 Horz(CT) 0.26 Wind(LL) 0.18	(loc) l/defl 14-15 >999 14-15 >643 9 n/a 14-15 >999	L/d 360 240 n/a 240	PLATES GRIP MT20 197/144 MT18H OF MS7/1544 Weight: 146 lb FT = 10%
LUMBER- TOP CHORD 2x4 SP 1-4: 2x4 BOT CHORD 2x4 SP 1-15: 2: WEBS 2x3 SP 8-9: 2x4	F No.2 *Except* 4 SPF 2100F 1.8E F No.2 *Except* x8 SP DSS, 12-15: 2x4 SPF 2100F 1.8E F No.2 *Except* 4 SPF No.2, 2-15: 2x6 SPF No.2		BRACING- TOP CHORD BOT CHORD WEBS	Structural wood except end verti Rigid ceiling dire 1 Row at midpt	sheathing dired cals, and 2-0-0 ectly applied or 8-9	JUAN cty applied or 2-64 foc purlins, oc purlins (4-7-7 max.): 6-8. 10-0-0 oc bracing. 0, 2-14, 3-13, 5-11, 64 BER 0. E-2000162101
REACTIONS. (size Max He Max U Max G	 9=Mechanical, 1=0-3-8 1=270(LC 5) plift 9=-66(LC 5), 1=-30(LC 8) rav 9=1606(LC 2), 1=1547(LC 2) 					ONAL ENT
FORCES. (lb) - Max. TOP CHORD 1-2=- 7-8=- 7-8=- BOT CHORD 1-15= WEBS 2-15= 5-11= 5-11=	Comp./Max. Ten All forces 250 (lb) or 6571/255, 2-3=-3559/98, 3-5=-2361/73, 1197/85, 8-9=-1469/95 -335/6001, 14-15=-304/5218, 13-14=-1 -48/1952, 2-14=-1976/184, 3-14=0/549, -887/102, 6-11=-36/997, 6-10=-729/50,	less except when shown. 5-6=-1862/84, 6-7=-1199/ 50/3267, 11-13=-119/2099 3-13=-1283/118, 5-13=0/ 7-10=-562/136, 8-10=-72/	/87, 9, 10-11=-111/1677 686, /1760			IN GARO
NOTES- 1) Unbalanced roof live 2) Wind: ASCE 7-16; V MWFRS (envelope); 3) Provide adequate dr 4) All plates are MT20 j 5) This truss has been 6) * This truss has been will fit between the b 7) Refer to girder(s) for 8) Bearing at joint(s) 1 capacity of bearing s 9) Provide mechanical Continued on page 2	loads have been considered for this de- ult=115mph (3-second gust) Vasd=91m cantilever left and right exposed ; end v ainage to prevent water ponding. plates unless otherwise indicated. designed for a 10.0 psf bottom chord live n designed for a live load of 20.0psf on th ottom chord and any other members, wi truss to truss connections. considers parallel to grain value using A surface. connection (by others) of truss to bearing	sign. bh; TCDL=6.0psf; BCDL= ertical left and right expos e load nonconcurrent with he bottom chord in all area th BCDL = 10.0psf. NSI/TPI 1 angle to grain for g plate capable of withstag	6.0psf; h=25ft; Cat. II; E ed; Lumber DOL=1.60 p any other live loads. as where a rectangle 3-6 ormula. Building design nding 100 lb uplift at join	xp C; Enclosed; blate grip DOL=1.0 6-0 tall by 2-0-0 wi er should verify nt(s) 9, 1.	60 ide	16952 BORNSAS ONAL ENGINE April 16,2020
WARNING - Verify c	design parameters and READ NOTES ON THIS AND	INCLUDED MITEK REFERENCE	E PAGE MII-7473 rev. 5/19/2020	0 BEFORE USE.		
Design valid for use or	nly with Mi I ek® connectors. This design is based o	nly upon parameters shown, and	i is tor an individual building co	omponent, not		

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 property 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 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 **ANSUTPTI Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job	Truss	Truss Type	Qty	Ply	Lot 26 RT
					14100573
400432	B4	Half Hip	1	1	
					Job Reference (optional)
Wheeler Lumber, Wa	verly, KS 66871			8.240 s Ma	r 9 2020 MiTek Industries, Inc. Thu Apr 16 11:13:51 2020 Page 2

ID:ell3htjhC3ucpFh1ifG0EczUTUF-yklc7HulGN2mOBpRkp6w8jvFx?8Hk0M81_9kdhzQ9b_

NOTES-

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

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

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 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, 2670 Crain Highway, Suite 203 Waldorf, MD 20601





Plate Offsets (X,Y)	[14:0-2-8,0-1-8], [15:0-2-8,0-1-8]						
LOADING (psf) TCLL 25.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING-2-0-0Plate Grip DOL1.15Lumber DOL1.15Rep Stress IncrYESCode IRC2018/TPI2014	CSI. TC 0.79 BC 0.81 WB 0.91 Matrix-S	DEFL. in Vert(LL) -0.36 Vert(CT) -0.63 Horz(CT) 0.26 Wind(LL) 0.19	(loc) l/defl 15-16 >999 15-16 >632 10 n/a 15-16 >999	L/d 360 1 240 1 n/a 240	PLATES MT20 MT18H Weight: 153 lb	GRIP 197/144 197/144 FT = 10%
LUMBER- TOP CHORD 2x4 S 1-5: 2	SPF No.2 *Except* 2x4 SPF 2100F 1.8E		BRACING- TOP CHORD	Structural wood s except end vertic	sheathing directly ap als, and 2-0-0 oc pu	oplied or 2-6-7 o urlins (6-0-0 ma:	oc purlins, x.): 7-9.

BOT CHORD

WEBS

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

9-10, 3-15, 4-14, 6-12, 7-11, 8-11

1 Row at midpt

1-5: 2x4 SPF 2100F 1.8E BOT CHORD 2x4 SPF No.2 *Except* 2-16: 2x8 SP DSS, 13-16: 2x4 SPF 2100F 1.8E WFBS 2x3 SPF No.2 *Except* 9-10: 2x4 SPF No.2, 3-16: 2x6 SPF No.2

REACTIONS. (size) 10=Mechanical, 2=0-3-8 Max Horz 2=315(LC 5) Max Uplift 10=-63(LC 5), 2=-48(LC 8) Max Grav 10=1620(LC 2), 2=1618(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-3=-6600/305, 3-4=-3572/122, 4-6=-2412/96, 6-7=-1482/91, 7-8=-830/85, 8-9=-827/84, 9-10 = -1510/80BOT CHORD 2-16=-398/6025, 15-16=-360/5235, 14-15=-162/3277, 12-14=-117/2152, 11-12=-101/1287 WEBS 3-16=-66/1968, 3-15=-1982/200, 4-15=0/533, 4-14=-1236/117, 6-14=0/781,

6-12=-1188/121, 7-12=-15/1065, 7-11=-949/57, 8-11=-425/108, 9-11=-62/1603

NOTES-

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

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

MWFRS (envelope); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60 3) Provide adequate drainage to prevent water ponding.

4) All plates are MT20 plates unless otherwise indicated.

5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

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

7) Refer to girder(s) for truss to truss connections.

8) Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.

9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 10, 2. Continued on page 2

🛦 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MiTeK® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPH Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



April 16,2020



Job	Truss	Truss Type	Qty	Ply	Lot 26 RT	
400422	D.5		1	1	1	41005736
400432	DU		1	· ·	Job Reference (optional)	
Wheeler Lumber, Way	verly, KS 66871		6	3.240 s Ma	r 9 2020 MiTek Industries, Inc. Thu Apr 16 11:13:52 2020 F	Page 2
		ID:ell3	ntjhC3ucp	Fh1ifG0Ec	zUTUF-Qws Ldvx1hAd0KOdIWd9hwSP4PUVTRiHGevH87z	zQ9az

NOTES-

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

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

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 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, 2670 Crain Highway, Suite 203 Waldorf, MD 20601







👠 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE Design valid for use only with MiTeK® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPH Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Plate Offsets (X,Y)	[8:0-4-11,0-2-8], [14:0-2-8,0-1-8], [15:0-2	2-8,0-1-8]						
LOADING (psf) TCLL 25.0 TCDL 10.0 BCLL 0.0 BCDL 10.0	SPACING-2-0-0Plate Grip DOL1.15Lumber DOL1.15Rep Stress IncrYESCode IRC2018/TPI2014	CSI. TC 0.81 BC 0.79 WB 0.73 Matrix-S	DEFL. in Vert(LL) -0.34 Vert(CT) -0.61 Horz(CT) 0.27 Wind(LL) 0.29	(loc) l/defl 15-16 >999 15-16 >653 10 n/a 15-16 >999	L/d 360 240 n/a 240	PLATES MT20 MT18H Weight: 179 lb	GRIP 197/144 197/144 FT = 10%	
LUMBER- TOP CHORD 2x4 S 8-9: 2 BOT CHORD 2x4 S 2-16: 1 WEBS 2x3 S 3-16: 1	BRACING- TOP CHORD BOT CHORD WEBS	Structural wood except end vertic Rigid ceiling dire 1 Row at midpt 1 Row at midpt	sheathing direct cals. ctly applied or 6 7-13 3-15	tly applied or 2-7-4 o 3-7-0 oc bracing. Ex 3 5, 6-13, 8-13, 9-10, 4	oc purlins, cept: I-14, 8-11			
REACTIONS. (siz Max H Max U Max 0	te) 2=0-3-8, 10=0-3-8 Horz 2=458(LC 8) Jplift 2=-246(LC 8), 10=-272(LC 8) Grav 2=1663(LC 2), 10=1579(LC 2)							
FORCES. (lb) - Max TOP CHORD 2-3= 8-9= 8-9= BOT CHORD 2-16 WEBS 3-16 9-11 9-11	FORCES. (lb) - Max. Comp./Max. Ten All forces 250 (lb) or less except when shown. TOP CHORD 2-3=-6414/1292, 3-4=-3510/538, 4-6=-2355/335, 6-7=-1541/251, 7-8=-1555/370, 8-9=-631/147, 9-10=-1497/289 BOT CHORD 2-16=-1601/5848, 15-16=-1422/5090, 14-15=-816/3221, 13-14=-505/2096, 7-13=-447/228 WEBS 3-16=-422/1892, 3-15=-1892/613, 6-13=-1103/273, 11-13=-106/475, 8-13=-447/1668, 9-11=-231/1231, 4-15=-6/521, 4-14=-1235/342, 6-14=-56/776, 8-11=-996/309							
NOTES- 1) Unbalanced roof liv 2) Wind: ASCE 7-16; MWFRS (envelope DOL=1.60 3) All plates are MT2C 4) This truss has beer will fit between the 6) Bearing at joint(s) 2 capacity of bearing 7) Provide mechanica 2=246, 10=272. Continued on page 2	e loads have been considered for this de: Vult=115mph (3-second gust) Vasd=91m) gable end zone; cantilever left and right plates unless otherwise indicated. I designed for a 10.0 psf bottom chord live en designed for a live load of 20.0psf on t bottom chord and any other members, wi c considers parallel to grain value using A surface. I connection (by others) of truss to bearin	sign. ph; TCDL=6.0psf; BCDL= exposed ; end vertical left e load nonconcurrent with he bottom chord in all area th BCDL = 10.0psf. NSI/TPI 1 angle to grain fo g plate capable of withstar	6.0psf; h=25ft; Cat. II; E exposed; Lumber DOL any other live loads. as where a rectangle 3-6 prmula. Building design nding 100 lb uplift at join	xp C; Enclosed; =1.60 plate grip 6-0 tall by 2-0-0 wi er should verify ht(s) except (jt=lb)	de	PROTOSO	April 16,2020	
WARNING - Verify Design valid for use	design parameters and READ NOTES ON THIS AND only with MITek® connectors. This design is based o	INCLUDED MITEK REFERENCE	PAGE MII-7473 rev. 5/19/2020 is for an individual building co	D BEFORE USE.				

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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, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

Job	Truss	Truss Type	Qty	Ply	Lot 26 RT	
					14	1005738
400432	B7	Roof Special	2	1		
					Job Reference (optional)	
Wheeler Lumber, Wa	verly, KS 66871		6	8.240 s Ma	r 9 2020 MiTek Industries, Inc. Thu Apr 16 11:13:55 2020 Pa	age 2
		IC	D:ell3htjhC	3ucpFh1if	G0EczUTUF-rVY7zexpKcZCto6CzfAsJZ4wycWXgrHjyc7xlSz0	Q9aw

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. 5/19/2020 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, 2670 Crain Highway, Suite 203 Waldorf, MD 20601





Plate Offsets (X,Y)	[8:0-4-11,0-2-8], [14:0-2-8,0-1-8], [15:0-2	2-8,0-1-8]				
LOADING (psf) TCLL 25.0 TCDL 10.0 BCLL 0.0 BCDL 10.0	SPACING-2-0-0Plate Grip DOL1.15Lumber DOL1.15Rep Stress IncrYESCodeIRC2018/TPI2014	CSI. TC 0.78 BC 0.80 WB 0.74 Matrix-S	DEFL. ir Vert(LL) -0.35 Vert(CT) -0.62 Horz(CT) 0.28 Wind(LL) 0.30	n (loc) l/defl 5 15-16 >999 2 15-16 >641 3 10 n/a 0 15-16 >999	L/d 360 240 n/a 240	PLATES GRIP MT20 197/144 MT18P OF M97/144 Weight 178 Ib FT = 10%
LUMBER- TOP CHORD 2x4 SP 1-5: 2x BOT CHORD 2x4 SP 2-16: 2 WEBS 2x3 SP 3-16: 2	PF No.2 *Except* 4 SPF 2100F 1.8E PF No.2 *Except* x8 SP DSS, 13-16: 2x4 SPF 2100F 1.8E PF No.2 *Except* x6 SPF No.2, 8-13,8-11,9-10,9-11: 2x4 \$:, 7-12: 2x3 SPF No.2 SPF No.2	BRACING- TOP CHORD BOT CHORD WEBS	Structural wood except end verti Rigid ceiling dire 1 Row at midpt 1 Row at midpt	sheathing dire cals. ectly applied o 7- 3-	JUAN ectry applied or 2-6-10-86-p0rlins, or 6-5-15 oc bracing. Except: -13 -15, 2-14, 6-13-821308-1629-001
REACTIONS. (size Max H Max U Max G	e) 2=0-3-8, 10=0-3-8 orz 2=444(LC 8) plift 2=-222(LC 8), 10=-274(LC 8) rav 2=1603(LC 2), 10=1582(LC 2)					ONAL ENT
FORCES. (lb) - Max. TOP CHORD 2-3=- 8-9=- BOT CHORD 2-16= WEBS 3-16= 6-13=	Comp./Max. Ten All forces 250 (lb) or 6527/1341, 3-4=-3533/548, 4-6=-2362/3 632/147, 9-10=-1500/290 1651/5957, 15-16=-1459/5175, 14-15= 446/1948, 3-15=-1957/641, 4-15=-10/5 1106/274, 11-13=-107/475, 8-13=-449/	less except when shown. 38, 6-7=-1544/252, 7-8=- -826/3243, 13-14=-507/2 31, 4-14=-1252/350, 6-14 1673, 8-11=-999/311, 9-1	1560/372, 102, 7-13=-449/229 I=-59/783, 11=-233/1234			IN GARO
NOTES- 1) Unbalanced roof live 2) Wind: ASCE 7-16; V MWFRS (envelope) DOL=1.60 3) All plates are MT20 4) This truss has been 5) * This truss has been will fit between the b 6) Bearing at joint(s) 2 capacity of bearing s 7) Provide mechanical 2=222, 10=274. Continued on page 2	e loads have been considered for this de 'ult=115mph (3-second gust) Vasd=91m gable end zone; cantilever left and right plates unless otherwise indicated. designed for a 10.0 psf bottom chord live n designed for a live load of 20.0psf on t ottom chord and any other members, wi considers parallel to grain value using A surface. connection (by others) of truss to bearin	sign. ph; TCDL=6.0psf; BCDL= exposed ; end vertical lef e load nonconcurrent with ne bottom chord in all are th BCDL = 10.0psf. NSI/TPI 1 angle to grain f g plate capable of withsta	6.0psf; h=25ft; Cat. II; E t exposed; Lumber DOL any other live loads. as where a rectangle 3- ormula. Building desigr nding 100 lb uplift at join	Exp C; Enclosed; .=1.60 plate grip 6-0 tall by 2-0-0 w her should verify ht(s) except (jt=lb)	ide	16952 BORNAL ENOTIONAL ENOTION April 16,2020
WARNING - Verify of Design valid for use on a truss system. Before building design Brack	design parameters and READ NOTES ON THIS AND nly with MiTek® connectors. This design is based o use, the building designer must verify the applicat no indicated is to prevent buckling of individual true	INCLUDED MITEK REFERENC nly upon parameters shown, ani ility of design parameters and pi s web and/or chord members or	E PAGE MII-7473 rev. 5/19/202 d is for an individual building cr operly incorporate this design ly. Additional temporary and	20 BEFORE USE. component, not into the overall		Mile

billing design. Bilandig indicates to be prevent buckning of individual duss web and/of viola infinite only. Additional employed and a billing and permanent blanding 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 **ANS//TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

IVITIEK 16023 Swingley Ridge Rd Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Lot 26 RT		
400.400	50				14100	5739	
400432	B8	Roof Special	1	1			
					Job Reference (optional)		
Wheeler Lumber,	Waverly, KS 66871			8.240 s Ma	ar 9 2020 MiTek Industries, Inc. Thu Apr 16 11:13:56 2020 Page	2	
		ID:ell3htjhC3ucpFh1ifG0EczUTUF-Ji6VA_yR5vh3UyhOXMh5rmc5C0sZPINtBGtVHuzQ9av					

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. 5/19/2020 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, 2670 Crain Highway, Suite 203 Waldorf, MD 20601





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 Satisfies
 Ansi/TPH Qu

 Safety Information
 available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

April 16,2020





Plate Offsets (X,Y)	[12:0-5-8,0-2-8], [18:0-2-8,0-2-8], [19:0-	2-9,0-1-1], [19:0-3-8,0-3-0	0]			
LOADING (psf) TCLL 25.0 TCDL 10.0 BCLL 0.0 BCDL 10.0	SPACING-2-0-0Plate Grip DOL1.15Lumber DOL1.15Rep Stress IncrYESCode IRC2018/TPI2014	CSI. TC 0.66 BC 0.83 WB 0.91 Matrix-S	DEFL. in Vert(LL) -0.20 Vert(CT) -0.38 Horz(CT) 0.11 Wind(LL) 0.13	(loc) I/defl 17-18 >999 17-18 >999 11 n/a 17-18 >999	L/d 360 240 n/a 240	PLATES GRIP MT20 197/144 E OF MISS Weight 181 Ib- FT = 10%
LUMBER- TOP CHORD 2x4 SP BOT CHORD 2x4 SP 6-16,7- WEBS 2x3 SP 10-11,8	PF No.2 PF No.2 *Except* 13: 2x3 SPF No.2 PF No.2 *Except* 3-12,10-12: 2x4 SPF No.2, 2-19: 2x6 SF	F No.2	BRACING- TOP CHORD BOT CHORD WEBS	Structural wood except end vert Rigid ceiling dir 1 Row at midpt	I sheathing diri icals, and 2-0- ectly applied o 10	JUAN ectry applied or 2-10-9-86-pdrlins, 0 cc purlins (6-0-0 max.): 8-10. or 755-3 oc bracing. 0-14: 614, 8-12, 9112MBER 0 E-2000162101
REACTIONS. (size Max H Max U Max G	e) 11=0-3-8, 19=0-3-8 orz 19=388(LC 8) plift 11=-230(LC 4), 19=-214(LC 8) rav 11=1566(LC 2), 19=1589(LC 2)					SS/ONAL ENGIN
FORCES. (lb) - Max. TOP CHORD 2-3=- 8-9=- 8-9=- BOT CHORD 18-19 WEBS 3-17= 8-12= 8-12	Comp./Max. Ten All forces 250 (lb) or 2823/340, 3-4=-2245/276, 4-6=-2088/3 716/102, 9-10=-718/103, 10-11=-1460/2 9=-496/648, 17-18=-628/2536, 6-15=-18 =-590/200, 15-17=-444/2050, 6-14=-107 =-1059/263, 9-12=-416/173, 10-12=-217	less except when shown 19, 6-7=-1482/229, 7-8=- 253, 2-19=-1488/248 0/956, 14-15=-395/1882 4/281, 12-14=-215/1143, /1512, 2-18=-132/1894	1363/256, 8-14=-277/1111,			ANUUL.
NOTES- 1) Unbalanced roof live 2) Wind: ASCE 7-16; V MWFRS (envelope) DOL=1.60 3) Provide adequate dr 4) This truss has been 5) * This truss has been will fit between the b 6) Provide mechanical 11=230, 19=214. 7) This truss is designer referenced standard	a loads have been considered for this de fult=115mph (3-second gust) Vasd=91m gable end zone; cantilever left and right rainage to prevent water ponding. designed for a 10.0 psf bottom chord liv n designed for a 10.0 psf bottom chord liv n designed for a live load of 20.0psf on t tottom chord and any other members, w connection (by others) of truss to bearin ed in accordance with the 2018 Internation (ANSI/TPI 1.	sign. ph; TCDL=6.0psf; BCDL= exposed ; end vertical le e load nonconcurrent with he bottom chord in all are ith BCDL = 10.0psf. Ig plate capable of withsta onal Residential Code sec	=6.0psf; h=25ft; Cat. II; E ft exposed; Lumber DOL n any other live loads. pas where a rectangle 3-6 anding 100 lb uplift at join ctions R502.11.1 and R80	xp C; Enclosed; =1.60 plate grip 6-0 tall by 2-0-0 v t(s) except (jt=lb) 02.10.2 and	vide)	16952 BORNSAS
8) Graphical purlin rep	resentation does not depict the size or the	ne orientation of the purlin	along the top and/or bot	tom chord.		April 16,2020
WARNING - Verify Design valid for use o a truss system. Before building design. Braci is always required for fabrication, storage, d Safety Information	design parameters and READ NOTES ON THIS ANI nly with MiTek® connectors. This design is based a suse, the building designer must verify the applical ing indicated is to prevent buckling of individual tru stability and to prevent collapse with possible pers elivery, erection and bracing of trusses and truss s available from Truss Plate Institute, 2670 Crain Hig	D INCLUDED MITEK REFERENC only upon parameters shown, ar olitiy of design parameters and p ss web and/or chord members o onal injury and property damage ystems, see ANS/JTPI /way, Suite 203 Waldorf, MD 20	E PAGE MII-7473 rev. 5/19/2020 d is for an individual building co roperly incorporate this design i nly. Additional temporary and p . For general guidance regardin Quality Criteria, DSB-89 and 601	D BEFORE USE. mponent, not nto the overall ermanent bracing ng the BCSI Building Com	ponent	16023 Swingley Ridge Rd Chesterfield, MO 63017

Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Plate Offsets (X,Y)	[3:0-1-13,0-0-3], [3:0-0-3,0-0-0], [5:0-4-0),Edge]							
LOADING (psf) TCLL 25.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2018/TPI2014	CSI. TC 0.79 BC 0.65 WB 0.90 Matrix-S	DEFL. Vert(LL) -0.: Vert(CT) -0.(Horz(CT) 0.: Wind(LL) 0.:	in (loc) 35 3-16 32 3-16 33 11 25 3-16	l/defl >999 >636 n/a >999	L/d 360 240 n/a 240	PLATES MT20 Weight: 193 lb	GRIP 197/144 FT = 10%	
			BRACING-						

LUWDER-		DRACING-				
TOP CHORD	2x6 SPF No.2 *Except*	TOP CHORD	Structural wood sheat	neathing directly applied or 2-9-3 oc purlins,		
	7-10: 2x4 SPF No.2, 1-5: 2x8 SP DSS		except end verticals, a	s, and 2-0-0 oc purlins (4-5-11 max.): 7-10.		
BOT CHORD	2x4 SPF No.2 *Except*	BOT CHORD	Rigid ceiling directly a	pplied or 10-0-0 oc bracing, Except:		
	3-17,8-13: 2x3 SPF No.2, 3-14: 2x4 SPF 2100F 1.8E		6-0-0 oc bracing: 2-17			
WEBS	2x3 SPF No.2 *Except*		1 Row at midpt	8-14		
	10-11,18-20,19-21,22-23: 2x4 SPF No.2	WEBS	1 Row at midpt	10-11, 4-15, 9-12		
REACTIONS.	(size) 11=0-3-8, 2=0-3-8					
	Max Horz 2=374(LC 5)					
	Max Uplift 11=-245(LC 5), 2=-228(LC 8)					
	Max Grav 11=1592(LC 2), 2=1608(LC 2)					
		- h				
	b) - Max. Comp./Max. Ten All forces 250 (ID) of less except when	SNOWN.				
TOP CHORD	2-3=-928/20, 3-4=-3744/519, 4-6=-2412/326, 6-7=-2306/405, 7-	-8=-1559/272,				
	8-9=-1555/272, 9-10=-904/212, 10-11=-1474/262	0// 00				
BOLCHORD	3-16=-574/3552, 15-16=-572/3551, 14-15=-319/1646, 8-14=-30	12/129				
WEBS	4-16=0/281, 4-15=-1568/382, 7-15=-262/1143, 7-14=-314/129,	12-14=-200/882,				
	9-14=-169/1097, 9-12=-1286/334, 10-12=-245/1606			N GARO		
NOTES-				N' JUN		
1) Unbalanced	I reaf live loads have been considered for this design			CENSE		
2) Wind: ASC	= 7 16: Vult-115mpb (2 second gust) Vasd-01mpb; TCDI -6 0psf:	RCDI -6 Opef: h-25ft: Cat II:	Eve C: Enclosed:			
2) WIND. AGOL	- 7-10, Vult=11511pt1 (5-second gust) Vasu=9111pt1, TODE=0.0ps1,	tical left and right avpaged: L	mbor DOL -1.60 ploto	27 \ 5		
	co	nical len and light exposed, Lu	Inder DOL=1.60 plate	16050		
2) Drovido ada	.00			10952		
s) FIOVIDE ade	equate dramage to prevent water ponding.			- 11		

4) All plates are 2x4 MT20 unless otherwise indicated.

5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide

will fit between the bottom chord and any other members, with BCDL = 10.0psf.

7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 11=245, 2=228.

8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and Contraficient condpatige dard ANSI/TPI 1.

🛦 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 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, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



April 16,2020



Job	Truss	Truss Type	Qty	Ply	Lot 26 RT	
					4	1005742
400432	B11	Half Hip	1	1		
					Job Reference (optional)	
Wheeler Lumber, Wa	verly, KS 66871			8.240 s Ma	r 9 2020 MiTek Industries, Inc. Thu Apr 16 11:13:44 2020 Pa	age 2
		ID:ell3	3htjhC3uci	Fh1ifG0E	czUTUF-fONzfupvwDAm26m5grUHME627An8bgu6QOzstbzC	Q9b5

NOTES-

9) 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. 5/19/2020 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/TP11 Quality Criteria**, **DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601





<u> </u>	2-3-8	9-1-13 16-6-0			25-5-8	33-3-8	
Plate Offsets (X	<u>2-3-8</u> (,Y) [[3:0-0-3,0-0-0], [3:0-1-9,0-0-3]	/-4-4		8-11-8	7-10-0	
LOADING (psf) TCLL 25.0 TCDL 10.0 BCLL 0.0 BCDL 10.0)))) *)	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2018/TPI2014	CSI. TC 0.79 BC 0.72 WB 0.92 Matrix-S	DEFL. in Vert(LL) -0.36 Vert(CT) -0.63 Horz(CT) 0.33 Wind(LL) 0.23	n (loc) l/defl L/d 6 11-12 >999 360 3 3-14 >632 240 3 9 n/a n/a 3 3-14 >999 240	PLATES GRIP MT20 197/144 Weight: 173 lb FT = 10%	
LUMBER- TOP CHORD BOT CHORD WEBS	JMBER- DP CHORD 2x8 SP DSS *Except* 5-8: 2x4 SPF 2100F 1.8E DT CHORD 2x4 SPF No.2 *Except* 3-13,11-13: 2x4 SPF 2100F 1.8E, 7-10: 2x3 SPF No.2 EBS 2x3 SPF No.2 *Except* 8-9,16-18,17-19: 2x4 SPF No.2				Structural wood sheathin except end verticals, an Rigid ceiling directly app 6-0-0 oc bracing: 9-10. 1 Row at midpt	ng directly applied or 2-9-3 oc purlins, d 2-0-0 oc purlins (5-2-3 max.): 5-8. vlied or 10-0-0 oc bracing, Except: 8-9, 4-12	
REACTIONS.	(size Max Ho Max Up Max Gr	e) 9=0-3-8, 2=0-3-8 prz 2=316(LC 5) plift 9=-255(LC 5), 2=-210(LC 8) rav 9=1557(LC 2), 2=1607(LC 2)				OF MISSOU	
TOP CHORD	2-3=-8 - 1 2-3=-8	Comp./wax. Ten All forces 250 (lb) o 899/38, 3-4=-3729/453, 4-5=-2422/318 1537/293_8-91429/304	r less except when shown. , 5-6=-2142/318, 6-7=-1540/29	0,		JUAN GARCIA	
BOT CHORD WEBS	3-14= 4-14= 8-11=	-556/3537, 12-14=-555/3536, 11-12=- 0/262, 4-12=-1519/385, 5-12=0/616, 6 -339/1952	385/1916, 7-11=-505/218 12=-69/385, 6-11=-641/120,			PP. NUMBER	11111

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 arip DOL=1.60

2) Provide adequate drainage to prevent water ponding.

3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

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

5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 9=255, 2=210.

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

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



April 16,2020



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L	2-3-8	6-9-1	13-3-10)	19-5-13	1	25-5-8		33-3-8	
	2-3-8	4-5-9	6-6-9	1	6-2-3		5-11-11	1	7-10-0	
Plate Offsets ((X,Y)	[3:0-1-9,0-0-1], [3:0-7-15,	0-0-0], [5:0-6-0	,0-2-13], [13:0-2-8,0-1-8]						
LOADING (per TCLL 25 TCDL 10 BCLL 0 BCDL 10	sf) 5.0 9.0 9.0 * 9.0	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr Code IRC2018/TF	2-0-0 1.15 1.15 YES 12014	CSI. TC 0.88 BC 0.58 WB 0.85 Matrix-S	DEFL. Vert(LL) - Vert(CT) - Horz(CT) Wind(LL)	in (lc -0.27 13- -0.51 13- 0.30 0.21 13-	oc) I/defl 15 >999 15 >776 9 n/a 15 >999	L/d 360 240 n/a 240	PLATES MT20 Weight: 163 lb	GRIP 197/144 FT = 10%
LUMBER- TOP CHORD BOT CHORD WEBS OTHERS	2x8 SP 5-8: 2x4 2x4 SP 3-14,11 2x3 SP 17-19,1 2x3 SP	DSS *Except* 4 SPF 2100F 1.8E F No.2 *Except* -14: 2x4 SPF 2100F 1.8E F No.2 *Except* 8-20: 2x4 SPF No.2 F No.2	E, 7-10: 2x3 SP	F No.2	BRACING- TOP CHORD BOT CHORD WEBS	D Str exc D Rig 1 R	ructural wood cept end verti gid ceiling dire Row at midpt	sheathing dir cals, and 2-0- ctly applied c 8	ectly applied or 3-3-5 0 oc purlins (4-4-14 m or 9-9-9 oc bracing. -9, 4-13	oc purlins, ax.): 5-8.
REACTIONS.	REACTIONS. (size) 9=0-3-8, 2=0-3-8 Max Horz 2=258(LC 5) Max Uplift 9=-264(LC 5), 2=-184(LC 4) Max Grav 9=1486(LC 1), 2=1561(LC 1)									
FORCES. (III TOP CHORD	b) - Max. 2-3=- 7-8=-	Comp./Max. Ten All for 768/59, 3-4=-4023/473, 4 1932/381, 8-9=-1406/314	ces 250 (lb) or -5=-2765/405,	less except when shown 5-6=-2508/443, 6-7=-250	17/443,				GA GA	RCIA
BOT CHORD WEBS	3-15= 4-13=	-646/3861, 13-15=-644/3 -1461/338, 5-13=-26/575	859, 12-13=-45 , 6-12=-408/17	9/2478, 11-12=-415/193 3, 7-12=-94/738, 8-11=-4	3, 7-11=-1002/289 33/2248				PP. NUM	MBER 0162101
NOTES- 1) Wind: ASCI MWFRS (e grip DOL=1 2) Provide ade	E 7-16; V invelope) 1.60 equate dra	ult=115mph (3-second gu gable end zone; cantileve ainage to prevent water p	ust) Vasd=91mp er left and right onding.	oh; TCDL=6.0psf; BCDL= exposed ; end vertical lef	=6.0psf; h=25ft; Cat. t and right exposed	. II; Exp C I; Lumber	; Enclosed; DOL=1.60 pla	ate	ESSION	ALENGINI
 3) This truss h 4) * This truss will fit between 	has been has beer een the b	designed for a 10.0 psf bo designed for a live load ottom chord and any othe	ottom chord live of 20.0psf on the members.	e load nonconcurrent with ne bottom chord in all are	any other live load as where a rectang	ls. Ile 3-6-0 ta	all by 2-0-0 w	de	IN IAN	GARCI
5) Provide me 9=264, 2=1 6) This truss is	echanical 84.	connection (by others) of	truss to bearing	plate capable of withsta	nding 100 lb uplift a	at joint(s)	except (jt=lb)		2111	ENSED
referenced	standard	ANSI/TPI 1.				G NU02. N	0.2 010		E /	1 E
7) Graphical p	ourlin repr	esentation does not depic	ot the size or the	e orientation of the purlin	along the top and/c	or bottom	chord.		P 16	5952 <u>#</u>





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F	2-3-8	10-1-3		17-11-2 7-9-14			25-5-8		<u>33-3-8</u> 7-10-0	
Plate Offsets	(X,Y)	[2:0-0-12,0-0-3], [3:0-2-3,0-0	0-0], [3:0-10-10,Edge], [3	3:0-6-10,0-2-12], [4:	0-6-0,0-2-4],	[15:0-2-	-9,0-1-1], [1	5:1-6-2,0-2-3], [1	5:0-10-7,0-4-6]	
LOADING (p TCLL 25 TCDL 10 BCLL 0 BCDL 10	osf) 5.0 0.0 0.0 * 0.0 *	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr Code IRC2018/TPI2	2-0-0 CSI. 1.15 TC 1.15 BC NO WB 014 Matri	0.76 0.49 0.72 x-S	DEFL. Vert(LL) Vert(CT) Horz(CT) Wind(LL)	in -0.28 1 -0.50 1 0.27 0.23 1	(loc) l/d 12-14 >9 12-14 >7 9 r 12-14 >9	efl L/d 99 360 86 240 n/a n/a 99 240	PLATES MT20 Weight: 394 lb	GRIP 197/144 FT = 10%
LUMBER- TOP CHORD BOT CHORD WEBS	 2x4 SP 1-4: 2x4 2x6 SP 3-15: 2: 2x4 SP 	F 2100F 1.8E *Except* 8 SP DSS 2400F 2.0E *Except* x6 SPF No.2, 7-10,16-17: 2) F No.2	x4 SPF No.2		BRACING- TOP CHORI BOT CHORI		Structural w end vertical Rigid ceiling	vood sheathing di ls, and 2-0-0 oc p g directly applied o	rectly applied or 6-0-0 o urlins (5-3-11 max.): 4-8 or 10-0-0 oc bracing.	c purlins, except }.
REACTIONS	5. (size Max He Max U Max G	e) 9=0-3-8, 2=0-3-8 orz 2=153(LC 5) plift 9=-534(LC 5), 2=-444(L rav 9=2945(LC 1), 2=2690(.C 8) LC 1)						NIL OF	MISS
FORCES. (I TOP CHORD	lb) - Max. 2-3=- 22-23 25-26 7-28= 8-31=	Comp./Max. Ten All force: 1458/238, 3-4=-6956/1382,)=-7166/1427, 5-23=-7165/1)=-7167/1427, 6-26=-7167/1 :-5438/1086, 28-29=-5438/1 -5438/1086, 8-9=-2749/631	s 250 (lb) or less except 4-20=-7169/1427, 20-21 427, 5-24=-7167/1427, 2 427, 6-27=-7167/1427, 7 086, 29-30=-5438/1086,	when shown. =-7169/1427, 21-2 24-25=-7167/1427, 7-27=-7167/1427, 30-31=-5438/1086	2=-7167/1427 5,	,			GAR	
BOT CHORD) 3-15= 12-33 36-37	54/339, 3-14=-1384/6491, 3=-1393/6541, 12-34=-1112 /=-1113/5479, 11-37=-1113/	13-14=-1393/6541, 13-3 /5468, 34-35=-1112/547 /5483, 10-11=0/298, 7-1	2=-1393/6541, 32- 3, 35-36=-1112/54 1=-1744/506	33=-1393/654 76,	1,			P. NUME E-20001	3ER 44
WEBS	4-14=	-214/1170, 4-12=-122/733,	5-12=-823/248, 7-12=-4	03/1859, 8-11=-117	72/5835					GIN
NOTES- 1) 2-ply truss Top chords Bottom che Webs conr 2) All loads an ply connec 3) Wind: ASC MWFRS (c 4) Provide ad 5) This truss (6) * This truss will fit betw 7) All bearing 8) Provide me joint 2. 9) This truss i standard A 10) Graphica Continued on	to be con s connecte ords connu- nected as ire conside ctions have CE 7-16; V dequate dr has been s has been s has been s has been s are assis- echanical is designe ANSI/TPI 1 al purlin rep page 2	nected together with 10d (0. ad as follows: 2x8 - 2 rows s ected as follows: 2x6 - 2 row follows: 2x4 - 1 row at 0-9-0 red equally applied to all pli b been provided to distribute ult=115mph (3-second gust) cantilever left and right exp ainage to prevent water pon designed for a 10.0 psf botto n designed for a 10.0 p	131"x3") nails as follows taggered at 0-9-0 oc, 2x is staggered at 0-9-0 oc, oc. es, except if noted as fro only loads noted as (F)) Vasd=91mph; TCDL=6 osed ; end vertical left ar iding. om chord live load noncc 20.0psf on the bottom ch nembers. ing capacity of 425 psi. iss to bearing plate capa 18 International Residen the size or the orientatio	5: 4 - 1 row at 0-9-0 o 2x4 - 1 row at 0-9- ont (F) or back (B) for or (B), unless othe .0psf; BCDL=6.0ps ind right exposed; L oncurrent with any of hord in all areas when ble of withstanding tial Code sections on of the purlin alon	c. 0 oc. wise indicate f; h=25ft; Cat. umber DOL=1 other live load ere a rectangi 534 lb uplift a R502.11.1 and g the top and	AD CAS d. . II; Exp 1.60 pla s. le 3-6-0 at joint 9 d R802. /or botto	SE(S) section C; Enclose the grip DOI D) tall by 2-0 D) and 444 lt .10.2 and re om chord.	on. Ply to ed; L=1.60 -0 wide o uplift at eferenced	PROFILESSION	April 16,2020
WARNIN Design vali a truss syst building de is always rr fabrication, Safety Info	NG - Verify de id for use onl stem. Before u esign. Bracin required for st , storage, del prmation av	sign parameters and READ NOTES y with MiTek® connectors. This des use, the building designer must veri g indicated is to preven toucking of tability and to prevent collapse with ivery, erection and bracing of trusse ailable from Truss Plate Institute, 21	ON THIS AND INCLUDED MIT sign is based only upon parame by the applicability of design par- individual truss web and/or chr possible personal injury and pr as and truss systems, see 670 Crain Highway, Suite 203 ¹	EK REFERENCE PAGE aters shown, and is for au rameters and properly in ord members only. Addi operty damage. For ger ANS/JTPI1 Quality Waldorf, MD 20601	MII-7473 rev. 5/19 n individual buildin icorporate this de tional temporary a teral guidance reg Criteria, DSB-89	9/2020 BE ng compo sign into t and perma garding th and BCS	FORE USE. onent, not the overall anent bracing he SI Building Co	omponent	MiTek* 16023 Swingley F Chesterfield, MO	Nidge Rd 63017

Job	Truss	Truss Type	Qty	Ply	Lot 26 RT
					141005745
400432	B14	Half Hip Girder	1	2	Internet (antional)
				-	Job Reference (optional)
Wheeler Lumber, Waverly, KS 66871					8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Apr 16 15:44:46 2020 Page 2

8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Apr 16 15:44:46 2020 Page 2 ID:ell3htjhC3ucpFh1ifG0EczUTUF-NtsJ38e1AO8W33mF7VV?w3e7dU18pfZksRENe0zQ5d?

NOTES-

11) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 115 lb down and 81 lb up at 10-5-7, 111 lb down and 63 lb up at 12-5-7, 111 lb down and 63 lb up at 14-5-7, 111 lb down and 63 lb up at 16-5-7, 111 lb down and 63 lb up at 12-5-7, 111 lb down and 63 lb up at 24-5-7, 111 lb down and 63 lb up at 24-5-7, 111 lb down and 63 lb up at 24-5-7, 111 lb down and 63 lb up at 24-5-7, 111 lb down and 63 lb up at 24-5-7, 124 lb down and 94 lb up at 26-5-7, 124 lb down and 94 lb up at 28-5-7, and 124 lb down and 94 lb up at 30-5-7, and 129 lb down and 91 lb up at 32-5-7 on top chord, and 703 lb down and 311 lb up at 10-1-3, 82 lb down at 10-5-7, 80 lb down and 34 lb up at 14-5-7, 80 lb down and 34 lb up at 16-5-7, 80 lb down and 34 lb up at 22-5-7, 111 lb down and 34 lb up at 24-5-7, 71 lb down and 34 lb up at 22-5-7, 80 lb down and 34 lb up at 24-5-7, 71 lb down at 32-5-7, nd 71 lb down at 30-5-7, and 77 lb down at 32-5-7 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

12) Filler applied to ply: 1(Front)

LOAD CASE(S) Standard

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

Uniform Loads (plf) Vert: 1-3=-70, 3-4=-70, 4-8=-70, 2-15=-20, 3-11=-20, 9-10=-20

Concentrated Loads (lb)

Vert: 14=-772(B) 20=-102(B) 21=-81(B) 22=-81(B) 23=-81(B) 24=-81(B) 25=-81(B) 26=-81(B) 27=-81(B) 28=-114(B) 29=-114(B) 30=-114(B) 31=-125(B) 32=-80(B) 33=-80(B) 34=-80(B) 35=-80(B) 35=-80(B) 38=-50(B) 39=-50(B) 40=-50(B) 41=-53(B)

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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 BOT CHORD

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

REACTIONS. All bearings 22-4-0.

Max Horz 29=239(LC 7) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 16, 24, 25, 26, 27, 22, 21, 19, 18 except 29=-151(LC 4), 28=-163(LC 8), 17=-146(LC 9)

Max Grav All reactions 250 lb or less at joint(s) 29, 16, 23, 24, 25, 26, 27, 28, 22, 21, 19, 18, 17

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

NOTES-

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

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

3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1. 4) All plates are 2x4 MT20 unless otherwise indicated.

- 5) Gable requires continuous bottom chord bearing.
- 6) 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.
- 8) 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 9) will fit between the bottom chord and any other members.

10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 16, 24, 25, 26, 27, 22, 21, 19, 18 except (jt=lb) 29=151, 28=163, 17=146.

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



April 16,2020



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16952 BOTTOSSIONALE April 16,2020

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Job	Truss	Truss Type	Qty	Ply	Lot 26 RT
400422	D 1	Poof Special Cirder	1	1	I41005751
400432			1	1	Job Reference (optional)
Wheeler Lumber, V	/averly, KS 66871			3.240 s Ma	r 9 2020 MiTek Industries, Inc. Thu Apr 16 11:14:04 2020 Page 2
		ID:ell3	htjhC3ucp	Fh1ifG0Ec	zUTUF-4EbXsj2SCNhwSBIx?2gzASxSjEewHwD20WpwZRzQ9an

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, 5-7=-70, 7-9=-70, 10-19=-20

Concentrated Loads (lb) Vert: 3=-18(F) 18=-16(F) 4=-32(F) 21=-32(F) 22=-32(F) 23=-32(F) 24=-17(F) 25=-17(F) 26=-17(F) 27=-17(F)

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 Satisfies
 Ansi/TPH Qu

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16023 Swingley Ridge Rd Chesterfield, MO 63017

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Job	Truss	Truss Type	Qty	Ply	Lot 26 RT	
					14	1005759
400432	D9	HALF HIP GIRDER	1	2		
				J	Job Reference (optional)	
Wheeler Lumber, Wav	erly, KS 66871			8.240 s Ma	r 9 2020 MiTek Industries, Inc. Thu Apr 16 11:14:14 2020 Pa	age 2

ID:ell3htjhC3ucpFh1ifG0EczUTUF-n9BJy8AksRyVej3sa80JaZMHzG3kdTsWK3ESwrzQ9ad

LOAD CASE(S) Standard

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

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

Concentrated Loads (lb)

Vert: 10=-2970(B) 12=-1467(B) 13=-1465(B) 14=-1465(B) 16=-1464(B) 18=-1464(B)

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11

3x10 =

10 21

3x6 =

9

3x6 =

20



LOAD CASE(S) Standard

Continued on page 2

0-7-0 3-5-12

0-10-0

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13

8x8 💋

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 Satisfies
 Ansi/TPH Qu

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18

12

3x6 =

19

April 16,2020

3-5-

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8

8x8 📚



[Job	Truss	Truss Type	Qty	Ply	Lot 26 RT
						141005760
ŀ	400432	E1	Hip Girder	1	1	
						Job Reference (optional)
	Wheeler Lumber, Wave	erly, KS 66871		8	.240 s Ma	r 9 2020 MiTek Industries, Inc. Thu Apr 16 11:14:15 2020 Page 2

8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Apr 16 11:14:15 2020 Page 2 ID:eII3htjhC3ucpFh1ifG0EczUTUF-FMIhAUBMcI4MGte28rXY6nvP?gPcMywgYjz?SIzQ9ac

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, 8-13=-20

Concentrated Loads (lb) Vert: 12=-235(B) 11=-22(B) 4=-46(B) 9=-235(B) 14=-46(B) 15=-46(B) 16=-46(B) 17=-46(B) 18=-22(B) 19=-22(B) 20=-22(B) 21=-22(B) 20=-22(B) 21=-22(B) 20=-22(B) 21=-22(B) 20=-22(B) 21=-22(B) 20=-22(B) 21=-22(B) 20=-22(B) 21=-22(B) 20=-22(B) 20=-22

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



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LOAD CASE(S) Standard

Continued on page 2

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April 16,2020



Job	Truss	Truss Type	Qty	Ply	Lot 26 RT	
					4	41005763
400432	E4	COMMON GIRDER	1	2		
				3	Job Reference (optional)	
Wheeler Lumber, Wave	erly, KS 66871			.240 s Ma	r 9 2020 MiTek Industries, Inc. Thu Apr 16 11:14:19 2020 P	age 2
		ID:e	ell3htjhC3	ucpFh1ifG	EczUTUF-87?B?rEsg aolUypNhcUHd38rHn1loUFTLxDb3z	Q9aY

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: 17=-882(F) 18=-901(F) 19=-876(F) 20=-872(F) 21=-882(F) 22=-975(F) 23=-942(F) 24=-946(F) 25=-973(F) 26=-973(F) 27=-971(F)

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				4-4-0		——————————
LOADING	i (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc	c) I/defl L/d	PLATES GRIP
TCLL	25.0	Plate Grip DOL 1.15	TC 0.24	Vert(LL) -0.01 4-	-5 >999 360	MT20 197/144
TCDL	10.0	Lumber DOL 1.15	BC 0.15	Vert(CT) -0.03 4-	-5 >999 240	
BCLL	0.0 *	Rep Stress Incr NO	WB 0.00	Horz(CT) -0.00	4 n/a n/a	
BCDL	10.0	Code IRC2018/TPI2014	Matrix-R	Wind(LL) 0.01 4-	-5 >999 240	Weight: 14 lb FT = 10%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

- WEBS 2x3 SPF No.2
- REACTIONS. 5=0-5-6, 4=Mechanical (size) Max Horz 5=107(LC 7) Max Uplift 5=-124(LC 4), 4=-64(LC 5) Max Grav 5=338(LC 1), 4=181(LC 1)
- FORCES. (lb) Max. Comp./Max. Ten. All forces 250 (lb) or less except when shown. TOP CHORD 2-5=-298/146

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4 except (jt=lb) 5=124.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 68 lb down and 19 lb up at 2-0-9, and 86 lb down and 62 lb up at 3-6-14 on top chord, and 11 lb down and 14 lb up at 2-0-9, and 21 lb down at 3-6-14 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

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

LOAD CASE(S) Standard

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

Vert: 1-2=-70, 2-3=-70, 4-5=-20 Concentrated Loads (lb) Vert: 7=-14(B) 8=2(F) 9=-13(B)



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

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

except end verticals.

April 16,2020



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OADING	(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
CDL	10.0	Lumber DOL	1.15	BC	0.10	Vert(CT)	-0.01	4-5	>999	240		
CLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.01	3	n/a	n/a		
BCDL	10.0	Code IRC2018/TI	PI2014	Matri	x-R	Wind(LL)	0.01	4-5	>999	240	Weight: 10 lb	FT = 10%

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

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

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

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

Max Horz 5=65(LC 8) Max Uplift 5=-34(LC 8), 3=-54(LC 8)

Max Grav 5=234(LC 1), 3=103(LC 1), 4=63(LC 3)

NOTES-

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

4) Refer to girder(s) for truss to truss connections.

- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 3.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



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



OADING	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
CLL	25.0	Plate Grip DOL	1.15	TC	0.26	Vert(LL)	-0.01	4-5	>999	360	MT20	197/144
CDL	10.0	Lumber DOL	1.15	BC	0.16	Vert(CT)	-0.03	4-5	>999	240		
CLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.01	3	n/a	n/a		
3CDL	10.0	Code IRC2018/TF	912014	Matri	x-R	Wind(LL)	0.02	4-5	>999	240	Weight: 12 lb	FT = 10%

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

2x4 SPF No.2

BRACING-TOP CHORD BOT CHORD

Structural wood sheathing directly applied or 4-4-11 oc purlins, except end verticals. Rigid ceiling directly applied or 10-0-0 oc bracing

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

Max Horz 5=79(LC 8) Max Uplift 5=-37(LC 8), 3=-67(LC 8)

Max Grav 5=268(LC 1), 3=130(LC 1), 4=79(LC 3)

NOTES-

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

4) Refer to girder(s) for truss to truss connections.

- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 3.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



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MiTek 16023 Swingley Ridge Rd Chesterfield, MO 63017

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



LOADING	(psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.07	Vert(LL)	-0.00	5	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.02	Vert(CT)	-0.00	5	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.00	3	n/a	n/a		
BCDL	10.0	Code IRC2018/TF	912014	Matri	x-R						Weight: 4 lb	FT = 10%

TOP CHORD2x4 SPF No.2BOT CHORD2x4 SPF No.2WEBS2x3 SPF No.2

BRACING-TOP CHORD

BOT CHORD

Structural wood sheathing directly applied or 1-0-9 oc purlins, except end verticals. Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 5=0-3-8, 3=Mechanical, 4=Mechanical Max Horz 5=42(LC 5) Max Uplift 5=-7(LC 8), 3=-21(LC 8), 4=-10(LC 8) Max Grav 5=146(LC 1), 3=13(LC 6), 4=19(LC 6)

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

NOTES-

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



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NITEK 16023 Swingley Ridge Rd Chesterfield, MO 63017



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Continued on page 2

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Job	Truss	Truss Type	Qty	Ply	Lot 26 RT	
					1410	J05768
400432	J5	Diagonal Hip Girder	1	1		
					Job Reference (optional)	
Wheeler Lumber, Wave	erly, KS 66871		8	.240 s Ma	9 2020 MiTek Industries, Inc. Thu Apr 16 11:14:37 2020 Pag	je 2
		ID:ell3	htjhC3ucp	Fh1ifG0Ec	zUTUF-ca4?n?S9RWrEvFKHRTwi0Qp4XYt8WpNvc8IAE0zQ9a	aG

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, 6-7=-20, 5-6=-20

Concentrated Loads (lb)

Vert: 6=-7(B) 10=-23(F) 11=-44(F) 12=2(F) 13=-0(F) 14=-13(F) 15=-256(B) 16=-51(F)

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.OADING (psf)	SPACING- 2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
CLL 25.0	Plate Grip DOL 1.15	TC 0.19	Vert(LL)	-0.01	4-5	>999	360	MT20	197/144
CDL 10.0	Lumber DOL 1.15	BC 0.11	Vert(CT)	-0.02	4-5	>999	240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT)	0.01	2	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014	Matrix-R	Wind(LL)	0.01	4-5	>999	240	Weight: 9 lb	FT = 10%
UMBER-			BRACING-						

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

TOP CHORD BOT CHORD

Structural wood sheathing directly applied or 3-7-0 oc purlins, except end verticals. Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) 5=0-3-8, 2=Mechanical, 3=Mechanical

Max Horz 5=50(LC 8) Max Uplift 5=-8(LC 8), 2=-59(LC 8)

Max Grav 5=154(LC 1), 2=113(LC 1), 3=66(LC 3)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Bearing at joint(s) 5 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 2. 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and
- referenced standard ANSI/TPI 1.



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3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.

Refer to girder(s) for truss to truss connections.

5) Bearing at joint(s) 6 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.

6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6, 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.



April 16,2020

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BOT CHORD

except end verticals.

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

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

5=0-3-8, 3=Mechanical, 4=Mechanical REACTIONS. (size) Max Horz 5=44(LC 5) Max Uplift 5=-4(LC 8), 3=-23(LC 8), 4=-11(LC 8) Max Grav 5=146(LC 1), 3=15(LC 6), 4=21(LC 6)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections. 5) Bearing at joint(s) 5 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify
- capacity of bearing surface.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 3, 4. 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



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			2-0-1	0-3-8		
LOADING (psf) TCLL 25.0	SPACING- 2-0-0 Plate Grip DOL 1.15	CSI. TC 0.09	DEFL. Vert(LL) -	in (loc) 0.00 5	l/defl L/d >999 360	PLATES GRIP MT20 197/144
TCDL 10.0 BCLL 0.0 * BCDL 10.0	Lumber DOL 1.15 Rep Stress Incr YES Code IRC2018/TPI2014	BC 0.05 WB 0.00 Matrix-R	Vert(CT) Horz(CT) Wind(LL)	0.00 5-6 0.01 3 0.00 5-6	>999 240 n/a n/a >999 240	Weight: 8 lb FT = 10%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

2x3 SPF No.2

REACTIONS. 6=0-3-8, 3=Mechanical, 4=Mechanical (size) Max Horz 6=69(LC 8) Max Uplift 3=-55(LC 8), 4=-3(LC 8) Max Grav 6=180(LC 1), 3=69(LC 15), 4=41(LC 3)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections. 5) Bearing at joint(s) 6 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify
- capacity of bearing surface.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 4.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

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Structural wood sheathing directly applied or 2-3-9 oc purlins,

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

except end verticals.

April 16,2020

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

BRACING-TOP CHORD

BOT CHORD

Structural wood sheathing directly applied or 3-6-9 oc purlins, except end verticals. Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. 6=0-3-8, 3=Mechanical, 4=Mechanical (size) Max Horz 6=103(LC 8) Max Uplift 3=-82(LC 8)

Max Grav 6=231(LC 1), 3=115(LC 15), 4=65(LC 3)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Bearing at joint(s) 6 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



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BCLL 0.0 * Rep Stress Incr YES WB 0.02 Horz(CT) -0.05 4 n/a n/a BCDL 10.0 Code IRC2018/TPI2014 Matrix-P Wind(LL) 0.06 6 >919 240 Weight: 15 lb FT = 10%	LOADING TCLL TCDL BCLL BCDL	(psf) 25.0 10.0 0.0 * 10.0	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr Code IRC2018/TF	2-0-0 1.15 1.15 YES Pl2014	CSI. TC BC WB Matri	0.23 0.27 0.02 x-P	DEFL. Vert(LL) Vert(CT) Horz(CT) Wind(LL)	in -0.03 -0.06 -0.05 0.06	(loc) 6 5-6 4 6	l/defl >999 >894 n/a >919	L/d 360 240 n/a 240	PLATES MT20 Weight: 15 lb	GRIP 197/144 FT = 10%	
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TOP CHORD 2x4 SPF No.2 BOT CHORD 2x4 SPF No.2 WEBS 2x3 SPF No.2 BRACING-TOP CHORD BOT CHORD

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

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

Max Horz 7=137(LC 8) Max Uplift 4=-83(LC 8), 5=-19(LC 8)

Max Grav 7=284(LC 1), 4=137(LC 15), 5=81(LC 15)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Bearing at joint(s) 7 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 5. 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and
- referenced standard ANSI/TPI 1.



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	LOADING (psf) TCLL 25.0 TCDL 10.0 BCLL 0.0 BCDL 10.0	SPACING-2-0-0Plate Grip DOL1.15Lumber DOL1.15Rep Stress IncrYESCode IRC2018/TPI2014	CSI. TC 0.41 BC 0.44 WB 0.02 Matrix-P	DEFL. in Vert(LL) -0.08 Vert(CT) -0.15 Horz(CT) 0.08 Wind(LL) 0.09	(loc) 5-6 5-6 5 5-6	l/defl >857 >462 n/a >739	L/d 360 240 n/a 240	PLATES MT20 Weight: 18 lb	GRIP 197/144 FT = 10%	
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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 5-11-4 oc purlins, except end verticals. BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

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

Max Horz 7=118(LC 8) Max Uplift 4=-64(LC 8), 5=-1(LC 8)

Max Grav 7=334(LC 1), 4=170(LC 13), 5=103(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); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.

4) Refer to girder(s) for truss to truss connections.

5) Bearing at joint(s) 7 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.

6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 5.

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



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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 0.47	Vert(LL) -0.06 5-6 >999 360 MT20 197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.43	Vert(CT) -0.14 5-6 >506 240
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT) 0.05 5 n/a n/a
BCDL 10.0	Code IRC2018/TPI2014	Matrix-R	Wind(LL) 0.06 5-6 >999 240 Weight: 20 lb FT = 10%

 TOP CHORD
 2x4 SPF No.2

 BOT CHORD
 2x4 SPF No.2 *Except*

 6-7: 2x3 SPF No.2

 WEBS
 2x3 SPF No.2

BRACING-TOP CHORD BOT CHORD

Structural wood sheathing directly applied or 5-11-4 oc purlins, except end verticals. Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 8=0-3-8, 4=Mechanical, 5=Mechanical Max Horz 8=119(LC 8) Max Uplift 4=-66(LC 8)

Max Grav 8=366(LC 1), 4=174(LC 13), 5=131(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-8=-343/0

NOTES-

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

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

4) Refer to girder(s) for truss to truss connections.

5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4.

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



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April 16,2020

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Horz(CT)

Wind(LL)

BRACING-

TOP CHORD

BOT CHORD

-0.03

0.03

n/a

>999

except end verticals.

4

6

n/a

240

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

Structural wood sheathing directly applied or 5-11-4 oc purlins,

REACTIONS.	(size)	8=0-3-8, 4=Mechanical, 5=Mechanical	
	Max Horz	8=119(LC 8)	
		4 400 00 5 500 00	

YES

Max Uplift 4=-10(LC 8), 5=-53(LC 8) Max Grav 8=334(LC 1), 4=92(LC 13), 5=172(LC 13)

Rep Stress Incr

Code IRC2018/TPI2014

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-8=-290/11

NOTES-

BCLL

BCDL

WEBS

LUMBER-

BOT CHORD

0.0 *

TOP CHORD 2x4 SPF No.2

10.0

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

WВ

Matrix-R

0.00

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

4) Refer to girder(s) for truss to truss connections.

2x4 SPF No.2 *Except*

3-7: 2x3 SPF No.2

2x3 SPF No.2

5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 5.

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



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FT = 10%

Weight: 20 lb

April 16,2020



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LOADING	i (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d PLATES GRIP
TCLL	25.0	Plate Grip DOL 1.15	TC 0.56	Vert(LL) -0.05 4-5 >999 360 MT20 197/144
TCDL	10.0	Lumber DOL 1.15	BC 0.33	Vert(CT) -0.12 4-5 >569 240
BCLL	0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT) 0.06 3 n/a n/a
BCDL	10.0	Code IRC2018/TPI2014	Matrix-R	Wind(LL) 0.05 4-5 >999 240 Weight: 17 lb FT = 10%

TOP CHORD2x4 SPF No.2BOT CHORD2x4 SPF No.2WEBS2x3 SPF No.2

BRACING-TOP CHORD BOT CHORD

Structural wood sheathing directly applied or 5-11-4 oc purlins, except end verticals. Rigid ceiling directly applied or 10-0-0 oc bracing.

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

Max Horz 5=119(LC 8) Max Uplift 3=-80(LC 8)

Max Grav 5=334(LC 1), 3=191(LC 13), 4=111(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-5=-288/25

NOTES-

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

3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.

4) Refer to girder(s) for truss to truss connections.

- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



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April 10,2020

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 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 **ANSITPTI Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601





			3-9-3					
LOADING (psf) TCLL 25.0 TCDL 10.0 BCLL 0.0 BCDL 10.0	SPACING-2-0-0Plate Grip DOL1.15Lumber DOL1.15Rep Stress IncrNOCodeIRC2018/TPI2014	CSI. TC 0.19 BC 0.13 WB 0.00 Matrix-R	DEFL. in Vert(LL) -0.01 Vert(CT) -0.02 Horz(CT) -0.01 Wind(LL) 0.01	(loc) 4-5 4-5 3 4-5	l/defl >999 >999 n/a >999	L/d 360 240 n/a 240	PLATES MT20 Weight: 11 lb	GRIP 197/144 FT = 10%

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

2x3 SPF No.2

REACTIONS. 5=0-4-13, 3=Mechanical, 4=Mechanical (size) Max Horz 5=71(LC 8) Max Uplift 5=-64(LC 4), 3=-73(LC 8) Max Grav 5=298(LC 1), 3=105(LC 1), 4=73(LC 3)

FORCES. (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) or less except when shown. TOP CHORD 2-5=-260/95

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 3.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPL1
- 7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 73 lb down and 57 lb up at 3-2-0 on top chord, and 15 lb down at 3-2-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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

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

- Concentrated Loads (lb) Vert: 6=-1(F) 7=-5(F)



April 16,2020



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BRACING-TOP CHORD

BOT CHORD

Structural wood sheathing directly applied or 3-9-11 oc purlins, except end verticals.

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



	C (ncf)	SPACING	200	190		DEEL	in	(loc)	l/dofl	L /d		CRIP
	a (bai)	JFACING-	2-0-0	USI.		DEFL.	111	(100)	vuen	L/u	FLATES	GNIF
TCLL	25.0	Plate Grip DOL	1.15	TC	0.09	Vert(LL)	-0.00	4-5	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.06	Vert(CT)	-0.01	4-5	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.00	3	n/a	n/a		
BCDL	10.0	Code IRC2018/TP	12014	Matri	x-R	Wind(LL)	0.00	4-5	>999	240	Weight: 8 lb	FT = 10%

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

BRACING-TOP CHORD BOT CHORD

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

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

Max Horz 5=63(LC 8) Max Uplift 5=-22(LC 8), 3=-50(LC 8)

Max Grav 5=200(LC 1), 3=79(LC 1), 4=50(LC 3)

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

NOTES-

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

4) Refer to girder(s) for truss to truss connections.

- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 3.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



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LOADING (psf) TCLL 25.0 TCDL 10.0 BCLL 0.0 BCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2018/TPI2014	CSI. TC 0.15 BC 0.10 WB 0.00 Matrix-R	DEFL. ir Vert(LL) -0.01 Vert(CT) -0.01 Horz(CT) -0.01 Wind(LL) 0.01	i (loc) 4-5 4-5 3 4-5	l/defl >999 >999 n/a >999	L/d 360 240 n/a 240	PLATES MT20 Weight: 10 lb	GRIP 197/144 FT = 10%
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TOP CHORD2x4 SPF No.2BOT CHORD2x4 SPF No.2WEBS2x3 SPF No.2

BRACING-TOP CHORD

 TOP CHORD
 Structural wood sheathing directly applied or 3-5-13 oc purlins, except end verticals.

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

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

Max Horz 5=77(LC 8) Max Uplift 5=-24(LC 8), 3=-62(LC 8)

Max Grav 5=228(LC 1), 3=102(LC 1), 4=63(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
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.

4) Refer to girder(s) for truss to truss connections.

- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 3.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



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MITEK[®] 16023 Swingley Ridge Rd Chesterfield, MO 63017



BOT CHORD

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

REACTIONS. (size) 5=0-4-13, 4=Mechanical

Max Horz 5=149(LC 5) Max Uplift 5=-98(LC 4), 4=-100(LC 5)

Max Grav 5=399(LC 1), 4=268(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-5=-348/134

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.

Refer to girder(s) for truss to truss connections.

5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5 except (jt=lb) 4 = 100

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

7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 73 lb down and 36 lb up at 2-6-15, and 87 lb down and 57 lb up at 3-0-12, and 93 lb down and 73 lb up at 5-0-15 on top chord, and 9 lb down and 14 lb up at 2-6-15, and 8 lb down at 3-0-12, and 21 lb down at 5-0-15 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

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

LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.15. Plate Increase=1.15 Uniform Loads (plf) Vert: 1-2=-70, 2-3=-70, 4-5=-20 Concentrated Loads (lb) Vert: 8=-3(F) 9=1(F) 10=-2(B) 11=-7(F)



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

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

except end verticals.

April 16,2020



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 Satisfies
 Ansi/TPH Qu

 Safety Information
 available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601


LOADING	(psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	тс	0.13	Vert(LL)	-0.00	4-5	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.07	Vert(CT)	-0.01	4-5	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.01	3	n/a	n/a		
BCDL	10.0	Code IRC2018/TP	12014	Matri	x-R	Wind(LL)	0.01	4-5	>999	240	Weight: 9 lb	FT = 10%

LUMBER-

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

2x3 SPF No.2

BRACING-TOP CHORD BOT CHORD

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

REACTIONS. 5=0-3-8, 3=Mechanical, 4=Mechanical (size) Max Horz 5=89(LC 8) Max Uplift 5=-2(LC 8), 3=-68(LC 8)

Max Grav 5=208(LC 1), 3=94(LC 15), 4=54(LC 3)

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

NOTES-

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



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LOADING TCLL TCDL	(psf) 25.0 10.0	SPACING- Plate Grip DOL Lumber DOL	2-0-0 1.15 1.15	CSI. TC BC	0.20 0.13	DEFL. Vert(LL) Vert(CT)	in -0.01 -0.02	(loc) 4-5 4-5	l/defl >999 >999	L/d 360 240	PLATES MT20	GRIP 197/144
BCLL BCDL	0.0 * 10.0	Rep Stress Incr Code IRC2018/TF	YES Pl2014	WB Matrix	0.00 <-R	Horz(CT) Wind(LL)	-0.02 0.01	3 4-5	n/a >999	n/a 240	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

BOT CHORD

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

REACTIONS. 5=0-3-8, 3=Mechanical, 4=Mechanical (size) Max Horz 5=80(LC 8)

Max Uplift 3=-54(LC 8)

Max Grav 5=244(LC 1), 3=122(LC 13), 4=71(LC 3)

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

NOTES-

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

4) Refer to girder(s) for truss to truss connections.

- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

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MiTek 16023 Swingley Ridge Rd Chesterfield, MO 63017



					_
LOADING	G (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d PLATES GRIP	
TCLL	25.0	Plate Grip DOL 1.15	TC 0.07	Vert(LL) -0.00 5 >999 240 MT20 197/144	
TCDL	10.0	Lumber DOL 1.15	BC 0.03	Vert(CT) -0.00 5 >999 180	
BCLL	0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT) -0.00 3 n/a n/a	
BCDL	10.0	Code IRC2018/TPI2014	Matrix-R	Weight: 6 lb FT = 10%	

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

WEBS 2x3 SPF No.2

REACTIONS. 5=0-3-8, 3=Mechanical, 4=Mechanical (size) Max Horz 5=50(LC 8) Max Uplift 5=-5(LC 8), 3=-35(LC 8), 4=-6(LC 8) Max Grav 5=155(LC 1), 3=36(LC 15), 4=26(LC 3)

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

NOTES-

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



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Structural wood sheathing directly applied or 1-6-0 oc purlins,

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

except end verticals.

April 16,2020

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DADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
CLL	25.0	Plate Grip DOL	1.15	TC	0.08	Vert(LL)	-0.00	4-5	>999	360	MT20	197/144
CDL	10.0	Lumber DOL	1.15	BC	0.06	Vert(CT)	-0.00	4-5	>999	240		
CLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.00	3	n/a	n/a		
CDL	10.0	Code IRC2018/TF	PI2014	Matri	x-R	Wind(LL)	0.00	4-5	>999	240	Weight: 8 lb	FT = 10%

LUMBER-

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

BRACING-TOP CHORD

Structural wood sheathing directly applied or 2-8-12 oc purlins, except end verticals. BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing

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

Max Horz 5=61(LC 8) Max Uplift 5=-22(LC 8), 3=-48(LC 8)

Max Grav 5=197(LC 1), 3=76(LC 1), 4=49(LC 3)

NOTES-

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

4) Refer to girder(s) for truss to truss connections.

- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 3.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



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MiTek 16023 Swingley Ridge Rd Chesterfield, MO 63017

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



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

Max Horz 8=118(LC 8)

Max Uplift 4=-49(LC 8), 5=-14(LC 8)

Max Grav 8=336(LC 1), 4=156(LC 13), 5=106(LC 13)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-8=-304/7

NOTES-

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

3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.

4) Refer to girder(s) for truss to truss connections.

- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 5.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



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WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 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 **ANSITPTI Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601





	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.48	Vert(LL)	-0.06	5-6	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.42	Vert(CT)	-0.13	5-6	>519	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.06	5	n/a	n/a		
BCDL	10.0	Code IRC2018/TF	PI2014	Matri	x-R	Wind(LL)	0.07	5-6	>999	240	Weight: 19 lb	FT = 10%

LUMBER-

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

BRACING-TOP CHORD BOT CHORD

Structural wood sheathing directly applied or 5-11-4 oc purlins, except end verticals. Rigid ceiling directly applied or 10-0-0 oc bracing

REACTIONS. (size) 8=0-3-8, 4=Mechanical, 5=Mechanical Max Horz 8=119(LC 8) Max Uplift 4=-67(LC 8)

Max Grav 8=360(LC 1), 4=176(LC 13), 5=122(LC 3)

FORCES. (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) or less except when shown. TOP CHORD 2-8=-342/0

NOTES-

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

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

4) Refer to girder(s) for truss to truss connections.

5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4.

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



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April 16,2020

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Continued on page 2

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Job	Truss	Truss Type	Qty	Ply	Lot 26 RT	
					141005)5789
400432	J26	Diagonal Hip Girder	1	1		
					Job Reference (optional)	
Wheeler Lumber, Wave	erly, KS 66871			3.240 s Ma	r 9 2020 MiTek Industries, Inc. Thu Apr 16 11:14:32 2020 Page 2	2

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LOAD CASE(S) Standard

Concentrated Loads (lb) Vert: 7=-6(F) 9=-4(B) 10=-9(B) 11=-48(B) 12=-31(B) 13=-251(F) 14=-44(B)

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Max Horz 8=138(LC 8) Max Uplift 8=-1(LC 8), 4=-81(LC 8), 5=-19(LC 8)

Max Grav 8=286(LC 1), 4=140(LC 15), 5=76(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. 2-8=-262/38

TOP CHORD

NOTES-

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

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

4) Refer to girder(s) for truss to truss connections.

- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 8, 4, 5.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



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TOP CHORD

BOT CHORD

LUMBER-

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

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

Max Horz 8=104(LC 8) Max Uplift 8=-2(LC 8), 4=-48(LC 8), 5=-30(LC 8)

Max Grav 8=233(LC 1), 4=90(LC 15), 5=64(LC 15)

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

NOTES-

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

4) Refer to girder(s) for truss to truss connections.

- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 8, 4, 5.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



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April 16,2020



Structural wood sheathing directly applied or 3-6-9 oc purlins,

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

except end verticals.

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 Satisfies
 Ansi/TPH Qu

 Safety Information
 available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



			I	2-3-9 '	
LOADIN	G (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d PLATES GRIP	
TCLL	25.0	Plate Grip DOL 1.15	TC 0.16	Vert(LL) -0.05 6 >552 360 MT20 197/144	
TCDL	10.0	Lumber DOL 1.15	BC 0.17	Vert(CT) -0.09 6 >278 240	
BCLL	0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT) 0.02 5 n/a n/a	
BCDL	10.0	Code IRC2018/TPI2014	Matrix-R	Wind(LL) 0.03 6 >933 240 Weight: 10 lb FT = 10%	

3x4 Ш

LUMBER-

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

BRACING-TOP CHORD

2-3-9

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

REACTIONS. 7=0-3-8, 4=Mechanical, 5=Mechanical (size) Max Horz 7=70(LC 8) Max Uplift 4=-39(LC 8), 5=-3(LC 8) Max Grav 7=197(LC 1), 4=71(LC 15), 5=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) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 5.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



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BOT CHORD

6



TOP CHORD 2-8=-359/86. 2-3=-284/36

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.

- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide 3) will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 8, 5.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



JUAN GARCIA

NUMBER

April 16,2020

🗼 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE Design valid for use only with MiTeK® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPH Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601





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REACTIONS. All bearings 9-8-15.

Max Horz 1=106(LC 5) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 1 except 8=-138(LC 8), 6=-137(LC 9)

All reactions 250 lb or less at joint(s) 1, 5, 7 except 8=268(LC 15), 6=268(LC 16) Max Grav

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

NOTES-

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

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

3) Gable requires continuous bottom chord bearing.

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

6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1 except (jt=lb) 8=138.6=137.

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



April 16,2020









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 Satisfies
 Ansi/TPH Qu

 Safety Information
 available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

Job	Truss	Truss Type	Qty	Ply	Lot 26 RT	144005707
400432	LAY4	GABLE	1		1	141005797
	N/ 1 1/0 00074				Job Reference (option	
Wheeler Lumber,	Waverly, KS 66871	F	ID:ell3htjhC3u 4-9-9 4-9-9	8.240 s f cpFh1ifG0	Mar 9 2020 Millek Indus EczUTUF-RkRG23Xw0M	tries, Inc. Thu Apr 16 11:14:43 2020 Page 1 IcOdAnQnk16Fh3HQy4gwYIo_4lURgzQ9aA
		10.82 12 2x4 3x6 / 2x4 II 1 2 1 2x4 II 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1				Scale = 1:72.1
		8 7	6 5			
		2x4 	$6x6 = 2x4 \parallel$			
LOADING (psf) TCLL 25.0 TCDL 10.0 BCLL 0.0 BCDL 10.0	SPACING- 2-0- Plate Grip DOL 1.1 Lumber DOL 1.1 Rep Stress Incr YE Code IRC2018/TPI2014	0 CSI. 2x4 5 TC 0.13 BC 0.03 5 WB 0.72 Matrix-P	DEFL. Vert(LL) r Vert(CT) r Horz(CT) -0.0	in (loc) /a - /a - 00 5	l/defl L/d n/a 999 n/a 999 n/a n/a	PLATES GRIP MT20 197/144 Weight: 70 lb FT = 10%
LUMBER- TOP CHORD 2x4 S BOT CHORD 2x4 S WEBS 2x4 S 2-6: 2 OTHERS 2x4 S	PF No.2 PF No.2 PF No.2 *Except* x3 SPF No.2 PF No.2		BRACING- TOP CHORD BOT CHORD WEBS	Struct excep Rigid 1 Row	ural wood sheathing dir t end verticals. ceiling directly applied o r at midpt 1	ectly applied or 4-9-9 oc purlins, or 6-0-0 oc bracing. -8, 4-5, 2-7, 3-6

REACTIONS. All bearings 4-9-9.

(lb) - Max Horz 8=166(LC 8)

Max Uplift All uplift 100 lb or less at joint(s) 8, 5 except 7=-150(LC 6), 6=-821(LC 8) Max Grav All reactions 250 lb or less at joint(s) 8, 5 except 7=633(LC 8), 6=408(LC 15)

FORCES. (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) or less except when shown. WEBS 2-7=-613/183, 2-6=-289/808

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 ; Lumber DOL=1.60 plate grip DOL=1.60

2) Gable requires continuous bottom chord bearing.

3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.

5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 8, 5 except (jt=lb) 7=150.6=821.

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



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April 16,2020



Job	Truss	Truss Type	Qty	Ply	Lot 26 RT	141005798
400432	LAY5	GABLE	1		1	(optional)
Wheeler Lumber, W	averly, KS 66871			8.240 s	Mar 9 2020 MiTek	Industries, Inc. Thu Apr 16 11:14:44 2020 Page 1
		0 ₁ 7-5 4-5	ID:ell3htjhC	3ucpFh1i	fG0EczUTUF-vx?el	-PXYntkFFKMdLRYLoubUIMQvf0jxDkV1_6zQ9a9
		0-7-5 4-2	2-3			
		10.82 12	2x4 4			Scale = 1:72.1
		2x4	P			
		5x12 = 3				
		I with		Ι		
		2-1 4				
		ظ // ۲				
		-10- -10-		9-10-6		
		8 7	6 5			
		2x4 4.9x	gi = 2x4			
		4-9-	-9			
LOADING (psf)	SPACING- 2-0-0 Plate Grip DOI 1.15	CSI. 2x4 D)EFL.	in (loc)	l/defl L/d	PLATES GRIP
TCDL 10.0	Lumber DOL 1.15	BC 0.03	/ert(CT) n	/a -	n/a 999	W120 13/144
BCLL 0.0 * BCDL 10.0	Rep Stress Incr YES Code IRC2018/TPI2014	6 WB 0.64 H Matrix-P	lorz(CT) -0.0	0 5	6 n/a n/a	Weight: 70 lb FT = 10%
LUMBER-		B	RACING-			
TOP CHORD 2x4 SPF	No.2	T	OP CHORD	Struc	tural wood sheathi	ng directly applied or 4-9-9 oc purlins,
WEBS 2x4 SPF	No.2 *Except*	В	OT CHORD	Rigid	ceiling directly app	blied or 6-0-0 oc bracing.
2-6: 2x3 OTHERS 2x4 SPF	SPF No.2 No.2	W	/EBS	1 Rov	v at midpt	1-8, 4-5, 2-7, 3-6
REACTIONS. All bea	ırings 4-9-9.					
(lb) - Max Hol	rz 8=146(LC 8)	int(a) = 5 avaant 7 - 000/1 C 6) C = 04.4/1				
Max Opi Max Gra	av All reactions 250 lb or less	at joint(s) 8, 5 except 7=-232(LC 6), 6=-814(L at joint(s) 8, 5 except 7=791(LC 8), 6=41	3(LC 15)			MILLIN

FORCES. (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) or less except when shown. WEBS 2-7=-772/264, 2-6=-259/719

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 ; Lumber DOL=1.60 plate grip DOL=1.60

2) Provide adequate drainage to prevent water ponding.

3) Gable requires continuous bottom chord bearing.

4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

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

6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 8, 5 except (jt=lb) 7=232.6=814.

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

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



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16023 Swingley Ridge Rd Chesterfield, MO 63017





April 16,2020







BOT CHORD 2x4 SPF No.2 OTHERS

2x3 SPF No.2

REACTIONS. 1=7-0-8, 3=7-0-8, 4=7-0-8 (size) Max Horz 1=-53(LC 4) Max Uplift 1=-34(LC 8), 3=-41(LC 9) Max Grav 1=156(LC 1), 3=156(LC 1), 4=242(LC 1)

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

NOTES-

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

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

3) Gable requires continuous bottom chord bearing.

- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide 5) will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



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REACTIONS. 1=4-6-8, 3=4-6-8, 4=4-6-8 (size) Max Horz 1=-32(LC 4) Max Uplift 1=-20(LC 8), 3=-24(LC 9) Max Grav 1=92(LC 1), 3=92(LC 1), 4=143(LC 1)

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

NOTES-

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

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

3) Gable requires continuous bottom chord bearing.

- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide 5) will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



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Inclusion Lumber Dol Instruction Dol Output File Output File Output Ou

TOP CHORD

BOT CHORD

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

WEBS 2x3 SPF No.2

REACTIONS. 1=2-4-5, 3=2-4-5 (size) Max Horz 1=35(LC 5) Max Uplift 1=-10(LC 8), 3=-18(LC 8) Max Grav 1=75(LC 1), 3=75(LC 1)

FORCES. (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) 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.
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- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



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Structural wood sheathing directly applied or 2-4-13 oc purlins,

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

except end verticals.

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