DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI 04/06/2021

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

RE: 210322 Lot 89 MN

Site Information:

Customer: Project Name: 210322 Lot/Block: Address: City:

Model: Subdivision: State:

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 8.4 Wind Speed: 115 mph Floor Load: N/A psf

This package includes 62 individual, dated Truss Design Drawings and 0 Additional Drawings.

No.	Seal#	Truss Name	Date	No.	Seal#	Truss Name	Date
1	I45104177	A1	3/9/2021	21	I45104197	C4	3/9/2021
2	l45104178	A2	3/9/2021	22	l45104198	C5	3/9/2021
3	l45104179	A3	3/9/2021	23	l45104199	C6	3/9/2021
4	I45104180	A4	3/9/2021	24	145104200	D1	3/9/2021
5	I45104181	A5	3/9/2021	25	I45104201	D2	3/9/2021
6	I45104182	B1	3/9/2021	26	I45104202	D3	3/9/2021
7	I45104183	B2	3/9/2021	27	I45104203	D4	3/9/2021
8	l45104184	B3	3/9/2021	28	I45104204	D5	3/9/2021
9	I45104185	B4	3/9/2021	29	I45104205	D6	3/9/2021
10	I45104186	B5	3/9/2021	30	I45104206	D8	3/9/2021
11	I45104187	B6	3/9/2021	31	I45104207	E1	3/9/2021
12	l45104188	B7	3/9/2021	32	I45104208	E2	3/9/2021
13	I45104189	B8	3/9/2021	33	I45104209	E3	3/9/2021
14	I45104190	B9	3/9/2021	34	I45104210	J1	3/9/2021
15	I45104191	B10	3/9/2021	35	I45104211	J2	3/9/2021
16	I45104192	B11	3/9/2021	36	I45104212	J3	3/9/2021
17	I45104193	B12	3/9/2021	37	I45104213	J4	3/9/2021
18	I45104194	C1	3/9/2021	38	I45104214	LAY1	3/9/2021
19	I45104195	C2	3/9/2021	39	I45104215	LAY2	3/9/2021
20	I45104196	C3	3/9/2021	40	I45104216	LAY3	3/9/2021

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.



Garcia, Juan



RELEASE FOR CONSTRUCTION **AS NOTED ON PLANS REVIEW**

RE: 210322 - Lot 89 MN

Site Information:

62

I45104238

Proje Lot/E	ect Customer: Block:	Project Name: 21	Subdivision:	
City,	County:			State:
No.	Seal#	Truss Name	Date	
41	145104217	LAY4	3/9/2021	
42	145104218	V1	3/9/2021	
43	145104219	V2	3/9/2021	
44	145104220	V3	3/9/2021	
45	145104221	V4	3/9/2021	
46	145104222	V4A	3/9/2021	
47	145104223	V5	3/9/2021	
48	145104224	V6	3/9/2021	
49	145104225	V7	3/9/2021	
50	I45104226	V8	3/9/2021	
51	l45104227	V9	3/9/2021	
52	145104228	V10	3/9/2021	
53	145104229	V11	3/9/2021	
54	I45104230	V12	3/9/2021	
55	I45104231	V13	3/9/2021	
56	I45104232	V14	3/9/2021	
57	I45104233	V15	3/9/2021	
58	I45104234	V16	3/9/2021	
59	I45104235	V17	3/9/2021	
60	I45104236	V18	3/9/2021	
61	145104237	V19	3/9/2021	

V20

3/9/2021

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

04/06/2021

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

March 09, 2021

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

04/06/2021

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

RE: 210322 Lot 89 MN

Site Information:

Customer: Project Name: 210322 Lot/Block: Address: City:

Model: Subdivision: State:

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 8.4 Wind Speed: 115 mph Floor Load: N/A psf

This package includes 62 individual, dated Truss Design Drawings and 0 Additional Drawings.

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5	l45104181	A5	3/9/2021	25	l45104201	D2	3/9/2021
6	l45104182	B1	3/9/2021	26	l45104202	D3	3/9/2021
7	l45104183	B2	3/9/2021	27	I45104203	D4	3/9/2021
8	l45104184	B3	3/9/2021	28	l45104204	D5	3/9/2021
9	l45104185	B4	3/9/2021	29	l45104205	D6	3/9/2021
10	l45104186	B5	3/9/2021	30	I45104206	D8	3/9/2021
11	l45104187	B6	3/9/2021	31	l45104207	E1	3/9/2021
12	l45104188	B7	3/9/2021	32	l45104208	E2	3/9/2021
13	l45104189	B8	3/9/2021	33	I45104209	E3	3/9/2021
14	I45104190	B9	3/9/2021	34	l45104210	J1	3/9/2021
15	l45104191	B10	3/9/2021	35	l45104211	J2	3/9/2021
16	l45104192	B11	3/9/2021	36	l45104212	J3	3/9/2021
17	l45104193	B12	3/9/2021	37	l45104213	J4	3/9/2021
18	l45104194	C1	3/9/2021	38	l45104214	LAY1	3/9/2021
19	l45104195	C2	3/9/2021	39	l45104215	LAY2	3/9/2021
20	l45104196	C3	3/9/2021	40	l45104216	LAY3	3/9/2021

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, 2022. 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.



Garcia, Juan



RE: 210322 - Lot 89 MN

Site Information:

62

I45104238

Proje Lot/E	ect Customer: Block:	Project Name: 21	Subdivision:	
City,	County:			State:
No.	Seal#	Truss Name	Date	
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45	145104221	V4	3/9/2021	
46	145104222	V4A	3/9/2021	
47	145104223	V5	3/9/2021	
48	145104224	V6	3/9/2021	
49	145104225	V7	3/9/2021	
50	145104226	V8	3/9/2021	
51	l45104227	V9	3/9/2021	
52	145104228	V10	3/9/2021	
53	145104229	V11	3/9/2021	
54	I45104230	V12	3/9/2021	
55	I45104231	V13	3/9/2021	
56	I45104232	V14	3/9/2021	
57	I45104233	V15	3/9/2021	
58	I45104234	V16	3/9/2021	
59	I45104235	V17	3/9/2021	
60	I45104236	V18	3/9/2021	
61	145104237	V19	3/9/2021	

V20

3/9/2021

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

04/06/2021

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





⊢	3-0-0		11-0-0			14-0-0			
Plate Offsets (X,Y)	[3:0-4-8.0-1-11], [4:0-4-8.0-1-11], [7:Ed	pe.0-5-8]	8-0-0			3-0-0			
LOADING (psf) TCLL 25.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr NO Code IRC2018/TPI2014	CSI. TC 0.90 BC 0.68 WB 0.09 Matrix-S	DEFL. in Vert(LL) -0.15 Vert(CT) -0.33 Horz(CT) 0.02 Wind(LL) 0.10	(loc) l/defl 8-9 >999 8-9 >493 7 n/a 8-9 >999	L/d 360 240 n/a 240	PLATES MT20 Weight: 46 lb	GRIP 197/144 FT = 10%		
LUMBER- TOP CHORD 2x4 SF 3-4: 2x BOT CHORD 2x4 SF WEBS 2x3 SF 2-10,5	PF No.2 *Except* 44 SPF 2100F 1.8E PF No.2 PF No.2 *Except* -7: 2x6 SP DSS		BRACING- TOP CHORD BOT CHORD WEBS	Structural wood s except end vertic Rigid ceiling dire 1 Row at midpt	sheathing dire als, and 2-0-(ctly applied or 3-	ectly applied or 4-5-4 0 oc purlins (4-8-11 n r 10-0-0 oc bracing. 8	oc purlins, nax.): 3-4.		
REACTIONS. (siz Max H Max U Max C	e) 10=0-3-8, 7=0-3-8 Horz 10=43(LC 28) Iplift 10=-195(LC 8), 7=-195(LC 9) Grav 10=743(LC 1), 7=743(LC 1)					IN EOF	MISS		
FORCES. (lb) - Max. Comp./Max. Ten All forces 250 (lb) or less except when shown. TOP CHORD 2-3=-1113/294, 3-4=-931/284, 4-5=-1099/290, 2-10=-667/164, 5-7=-670/164 BOT CHORD 9-10=-261/954, 8-9=-269/949, 7-8=-240/934 WEBS 3-9=0/275, 4-8=0/282									
 NOTES- 1) Unbalanced roof live loads have been considered for this design. 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60 3) Provide adequate drainage to prevent water ponding. 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads. 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide 									
 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members. 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 10=195, 7=195. 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1. 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord. 9) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 85 lb down and 145 lb up at 3-0-0, 70 lb down and 53 lb up at 5-0-0, 70 lb down and 53 lb up at 7-0-0, and 70 lb down at 50-0, and 18 lb down at 9-0-0, and 88 lb down at 90-0, and 30 lb down at 10-11-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others. 10) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B). 									
LOAD CASE(S) Stan 1) Dead + Roof Live (b	dard palanced): Lumber Increase=1.15, Plate	Increase=1.15				11,0010	NALEN		

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



March 9,2021

						RELEASE FOR
Job Trus	s Truss	is Type	Qty P	ly	Lot 89 MN	CONSTRUCTION
210322	Hin Gi	Girder	1	1		AS NOTED ON PLANS REVIEW
210322		Gilder	'	'	Job Reference (opti	onal) DEVELOPMENT SERVICES
Wheeler Lumber, Waverly, H	KS - 66871,		8.43	30 s Feb	12 2021 MiTek Indu	stries, IncLEESSASUMENEIT371212504482
		ID:dwZT	NcNXrqfJm	n8tRCSiY	7DzSTnz-GWMwO	FIVAn8StAD4vbZkjudr76l67GoTsgRPaAzcxIK
						04/06/2021
LOAD CASE(S) Standard						
Uniform Loads (plf)						

Vert: 1-2=-70, 2-3=-70, 3-4=-70, 4-5=-70, 5-6=-70, 7-10=-20 Concentrated Loads (lb)

Vert: 3=-12(F) 4=-12(F) 9=-10(F) 8=-10(F) 11=-12(F) 12=-12(F) 13=-12(F) 14=-10(F) 15=-10(F) 16=-10(F)





1	5-0	-0			9-0-0		1		13-11-8		1
Г	5-0	-0	1		4-0-0		1		4-11-8		7
Plate Offsets (X,Y)	- [5:0-3-8,Edge]										
LOADING (psf)	SPACING-	2-0-0	CSI.		DEFL.	in (loc) l/defl	L/d	PLATES	GRIP	
TCLL 25.0	Plate Grip DOL	1.15	TC	0.48	Vert(LL)	-0.05 7-8	3 >999	360	MT20	197/144	
		4.45	D O	0.44	L Mario T	0.40 7		0.40			

TCDL 10. BCLL 0. BCDL 10.	.0 .0 * .0	Lumber DOL 1.15 Rep Stress Incr YES Code IRC2018/TPI2014	BC 0.41 WB 0.06 Matrix-S	Vert(CT) -0.10 Horz(CT) 0.01 Wind(LL) 0.03	7-8 >999 6 n/a 7-8 >999	240 n/a 240	Weight: 44 lb	FT = 10%
LUMBER- TOP CHORD BOT CHORD WEBS	2x4 SPF 2x4 SPF 2x3 SPF	= No.2 = No.2 = No.2 *Except*		BRACING- TOP CHORD BOT CHORD	Structural wood except end vert Rigid ceiling dir	l sheathing di icals, and 2-0 ectly applied	rectly applied or 5-8-5 o -0 oc purlins (6-0-0 ma or 10-0-0 oc bracing.	oc purlins, x.): 3-4.
REACTIONS.	2-9,5-6: (size) Max Ho	2x6 SPF No.2) 9=0-3-8, 6=0-3-8 vrz 9=59(LC 5)						

Max Uplift 9=-85(LC 8), 6=-58(LC 9) Max Grav 9=688(LC 1), 6=604(LC 1)

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

TOP CHORD 2-3=-849/64, 3-4=-672/95, 4-5=-835/63, 2-9=-623/120, 5-6=-523/90

BOT CHORD 8-9=-53/679, 7-8=-55/676, 6-7=-23/674

NOTES-

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

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

3) Provide adequate drainage to prevent water ponding.

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

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

6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 9, 6.

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

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



	7-0-0	13-9-12	13-11-8 16-4-5	18-3-12	22-11	-11 2	25-8-0			
Plate Offsets (X Y)	[4:0-2-10 Edge] [5:0-2-8 0-1-8] [7:0-4-	6-9-12 8 0-1-11] [8:0-1-13 0-1-8]	<u>0-1-12</u> 2-4-13 [13:0-4-4 0-2-12] [16:0	-3-8 Edgel	4-7-	15	2-8-5			
			<u>, [10.0 1 1,0 2 12], [10.0</u>	0 0,2090]						
LOADING(psf)TCLL25.0TCDL10.0BCLL0.0*PCDL	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr NO	CSI. TC 0.66 BC 0.67 WB 0.55	DEFL. in Vert(LL) -0.11 Vert(CT) -0.21 Horz(CT) 0.07	(loc) l/defl 10-11 >999 10-11 >661 8 n/a	L/d 360 240 n/a	PLATES MT20	GRIP 197/144			
BCDL 10.0	Code IRC2018/1FI2014	Iviatitx-5		10-11 >999	240	weight. 67 ib	FT = 10%			
LUMBER- TOP CHORD 2x4 SPF No.2 BCACING- 2x4 SPF No.2 *Except* 8-10: 2x6 SPF No.2 Structural wood sheathing directly applied or 4-3-1 oc purlins, except end verticals, and 2-0-0 oc purlins (5-10-6 max.): 4-7. WEBS 2x3 SPF No.2 *Except* 2-16: 2x6 SPF No.2 BOT CHORD BOT CHORD Rigid ceiling directly applied or 5-10-1 oc bracing.										
REACTIONS. (size) 16=0-3-8, 13=0-3-8, 8=0-3-8 Max Horz 16=-63(LC 13) Max Uplift 16=-148(LC 29), 13=-276(LC 9), 8=-167(LC 9) Max Grav 16=590(LC 1), 13=1428(LC 1), 8=520(LC 1)										
FORCES. (lb) - Max. TOP CHORD 2-3=- 7-8=-	Comp./Max. Ten All forces 250 (lb) o 579/164, 3-4=-506/197, 4-5=-118/750, 1817/562, 2-16=-541/102	r less except when shown 5-6=-830/331, 6-7=-830/3	31,			10:	JUAN			
BOT CHORD 15-16 8-10=	5=-105/432, 13-15=-331/310, 12-13=-85 =-497/1629	55/217, 11-12=-767/191, 1	0-11=-406/1198,			* ^G	ARCIA			
WEBS 4-15= 6-11=	WEBS 4-15=-54/380, 4-13=-993/151, 13-14=-532/206, 5-14=-594/220, 5-11=-455/1590, 6-11=-338/184, 7-11=-393/165, 7-10=-143/786									
NOTES- 1) Unbalanced roof live 2) Wind: ASCE 7-16; V MWFRS (envelope) grip DOL=1.60	e loads have been considered for this de fult=115mph (3-second gust) Vasd=91n gable end zone; cantilever left and righ	əsign. ıph; TCDL=6.0psf; BCDL= t exposed ; end vertical le	=6.0psf; h=25ft; Cat. II; E ft and right exposed; Lun	xp C; Enclosed; hber DOL=1.60 pl	ate	11885/0	NALENGILL			
 3) Provide adequate di 4) This truss has been 5) * This truss has bee 	ainage to prevent water ponding. designed for a 10.0 psf bottom chord liv n designed for a live load of 20.0psf on	ve load nonconcurrent with the bottom chord in all are	n any other live loads. eas where a rectangle 3-6	6-0 tall by 2-0-0 w	ide	111104	N GARCIA			
 6) Bearing at joint(s) 8 capacity of bearing s 	ottom chord and any other members. considers parallel to grain value using A surface.	ANSI/TPI 1 angle to grain	formula. Building design	er should verify		San Martin	CENSED			
7) Provide mechanical 16=148, 13=276, 8=	connection (by others) of truss to bearin	ng plate capable of withsta	anding 100 lb uplift at join	it(s) except (jt=lb)			6952			
 8) This truss is designed referenced standard 0) Crephical purity range 	ed in accordance with the 2018 Internati ANSI/TPI 1.	onal Residential Code sec	ctions R502.11.1 and R8	02.10.2 and		PA	6 5			
 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord. 10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 71 lb down and 54 lb up at 15-8-0, 71 lb down and 54 lb up at 12-8-0, and 71 lb down and 54 lb up at 21-8-0, and 118 lb down and 146 lb up at 22-8-0 on top chord, and 18 lb down at 15-8-0, 18 lb down at 19-8-0, and 18 lb down at 21-8-0, and 30 lb down at 22-7-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others. 										
Odntinuted by page ASE	(S) section, loads applied to the face of	the truss are noted as fro	ont (F) or back (B).							
WARNING - Verify Design valid for use o a truss system. Before building design. Brac	design parameters and READ NOTES ON THIS AN hly with MiTek® connectors. This design is based use, the building designer must verify the applica ng indicated is to prevent buckling of individual tru	D INCLUDED MITEK REFERENC only upon parameters shown, an bility of design parameters and p ss web and/or chord members or	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	D BEFORE USE. mponent, not nto the overall ermanent bracing						

billing design. Dialong indicates is 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

16023 Swingley Ridge Rd Chesterfield, MO 63017

						RELEASE FOR
Job	Truss	Truss Type	Qty	Ply	Lot 89 MN	CONSTRUCTION
210322	A3	Roof Special Girder	1	1		AS NOTED ON PLANS REVIEW
210022	10		1		Job Reference (opt	ional) DEVELOPMENT SERVICES
Wheeler Lumber, Wave	erly, KS - 66871,		8.	.430 s Feb	12 2021 MiTek Indu	stries, IncLEE, Sta LINEWSHT39V205504982
		ID:dw	ZTNcNXrqfJ	m8tRCSiY	7DzSTnz-CvUhp9nr	niOOA7TNS00cCoJjFMwzlb38mK_wWe2zcxII
						04/06/2021
1) Dead + Roof Live (balan						

Uniform Loads (pf) Vert: 1-2=-70, 2-3=-70, 3-4=-70, 4-7=-70, 7-9=-70, 13-16=-20, 12-13=-20, 10-12=-20, 8-10=-20

Concentrated Loads (lb)

Vert: 7=-13(F) 17=-13(F) 18=-13(F) 19=-13(F) 20=-13(F) 21=-10(F) 23=-10(F) 24=-10(F) 25=-10(F) 26=-10(F)







	7-0-0	13-11-8	16-4-5		22-11-11	25	5-8-0		
Plate Offsets (X,Y)	[8:0-1-13.0-1-8], [12:0-4-4.0-2-12], [14:0	0-11-8)-3-8.Edael	2-4-13		6-7-6	2	-8-5		
LOADING (psf) TCLL 25.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2018/TPI2014	CSI. TC 0.65 BC 0.51 WB 0.71 Matrix-S	DEFL. in Vert(LL) -0.08 Vert(CT) -0.16 Horz(CT) 0.05 Wind(LL) 0.03	(loc) l/defl 10-11 >999 10-11 >845 8 n/a 10-11 >999	L/d 360 240 n/a 240	PLATES MT20 Weight: 88 lb	GRIP 197/144 FT = 10%		
LUMBER- TOP CHORD 2x4 SPF No.2 *Except* 3-4: 2x6 SPF No.2 BRACING- TOP CHORD TOP CHORD Structural wood sheathing directly applied or 5-2-0 oc purlins, except end verticals, and 2-0-0 oc purlins (10-0-0 max.): 4-6. BOT CHORD 2x4 SPF No.2 *Except* 8-10: 2x6 SPF No.2 BOT CHORD BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 11-12. WEBS 2x3 SPF No.2 Except* 2-14: 2x6 SPF No.2 6-0-0 oc bracing: 11-12.									
REACTIONS. (size) 14=0-3-8, 12=0-3-8, 8=0-3-8 Max Horz 14=-62(LC 13) Max Uplift 14=-128(LC 8), 12=-187(LC 9), 8=-114(LC 9) Max Grav 14=581(LC 1), 12=1388(LC 1), 8=456(LC 1)									
FORCES. (lb) - Max. TOP CHORD 2-3= 2-14	. Comp./Max. Ten All forces 250 (lb) or -572/129, 3-4=-461/160, 4-5=0/521, 5-6= =-533/172	less except when shown =0/307, 6-7=-1007/221, 7-	8=-1201/182,			GA			
BOT CHORD 13-1 WEBS 4-12	4=-78/413, 12-13=-123/334, 11-12=-600 =-907/54, 5-12=-667/192, 5-11=0/311, 6	/71, 10-11=-101/478, 8-10 -11=-801/177, 6-10=-29/5	D=-115/1032 649			PT. NU	MBER		
NOTES- 1) Unbalanced roof live loads have been considered for this design. 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60 3) Provide adequate drainage to prevent water ponding.									
 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads. 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members. 									
 bearing at joint(s) 8 capacity of bearing Provide mechanical 14–128 12–187 8- 	() Bearing at joint(s) 6 considers parallel to grain value using ANSI/TPT1 angle to grain formula. Building designer should verify capacity of bearing surface. ?) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb)								
 8) This truss is design referenced standard 	ed in accordance with the 2018 Internation	onal Residential Code sec	ctions R502.11.1 and R8	02.10.2 and		16	5952 E		

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

6x6 =



Mitek* 16023 Swingley Ridge Rd Chesterfield, MO 63017



						RELEASE FOR		
Job	Truss	Truss Type	Qty	Ply	Lot 89 MN	CONSTRUCTION		
210222	A.F.		4	_		AS NOTED ON PLANS REVIEW ¹⁸¹		
210322	AD		1	2	Job Reference (o	ptional) DEVELOPMENT SERVICES		
Wheeler Lumber, Waverly, KS 66	Wheeler Lumber, Waverly, KS 66871, Mitek 8.430 e Nov 30 2020 Mi							
NOTES-	ID:dwZTNcNXrqtJm8tRCSiY7DzSTnz-TTqb80 NOTES-							
14) Use Simpson Strong-T back face of bottom ch	⁻ie HUS26 (14-10d Girder, 4- lord.	10-0-0 to connect truss(es) to 1						
15) Fill all nail holes where	hanger is in contact with lum							

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

Uniform Loads (plf)

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

Concentrated Loads (lb)

Vert: 10=-1218(B) 12=-1217(B) 13=-1217(B) 14=-1219(B) 15=-1217(B)





MiTek 16023 Swingley Ridge Rd Chesterfield, MO 63017

March 9,2021



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16952 March 9,2021 March 9.2021

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- 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).
- 7) 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.
- 9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide 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) 32, 18, 22, 23, 24, 25, 26, 27, 28, 29, 30, 21, 20, 19 except (it=lb) 31=140.
- 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.







LUMBER-	10.0		-12014	Matri	х-к	BRACING-					Weight: 88 lb	F1 = 10%	
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.10	Horz(CT)	0.00	14	n/a	n/a	Woight: 99 lb	ET - 10%	
TCDL	10.0	Lumber DOL	1.15	BC	0.04	Vert(CT)	-0.00	13	n/r	120			
TCLL	25.0	Plate Grip DOL	1.15	TC	0.07	Vert(LL)	-0.00	13	n/r	120	MT20	197/144	
LOADING	(psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP	

CHORL eathing directly applied or 6-0-0 oc purlins, BOT CHORD 2x4 SPF No.2 except end verticals. WEBS 2x4 SPF No.2 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. OTHERS 2x4 SPF No.2

REACTIONS. All bearings 20-0-0.

Max Horz 24=-186(LC 6) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 24, 14, 20, 21, 22, 23, 18, 17, 16, 15 Max Grav All reactions 250 lb or less at joint(s) 24, 14, 19, 20, 21, 22, 23, 18, 17, 16, 15

FORCES. (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) 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).
- 7) 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) 24, 14, 20, 21, 22, 23, 18, 17, 16, 15,
- 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.



MiTek 16023 Swingley Ridge Rd Chesterfield, MO 63017

March 9,2021





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						RELEASE FOR
Job	Truss	Truss Type	Qty	Ply	Lot 89 MN	CONSTRUCTION
210322	D4	CARLE	1	1		AS NOTED ON PLANS REVIEW
210322			1	· ·	Job Reference (opt	ional) DEVELOPMENT SERVICES
Wheeler Lumber, Way	erly, KS - 66871,		8	.430 s Feb	12 2021 MiTek Indu	stries, IncLEES State Webst of Miles Oug R b
	53aNgUETMSYT3IrnnjePpghjqbI1DuYYzcxHu					
NOTES-	04/06/2021					
13) Provide mechanical co	, 176 lb uplift at joint 11 and 210					
lb uplift at joint 16.						

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





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						RELEASE FOR
Job	Truss	Truss Type	Qty	Ply	Lot 89 MN	CONSTRUCTION
210322	D6	ROOF SPECIAL GIRDER	1	2	Job Reference (opt	AS NOTED ON PLANS REVIEWS
Wheeler Lumber, Way	verly, KS - 66871,	·	8	.430 s Feb	12 2021 MiTek Indu	stries, IncLEGE Statutes AUSS OLGE
		ID:dw	ZTNcNXrqfJ	lm8tRCSiY	7DzSTnz-NIAGhk7ł	6?wCUnWrfu6mwCt0XCVV9clumLi_dQzcxHs

11) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1281 lb down and 167 lb up at 2-0-0 4-0-0, 1255 lb down and 27 lb up at 6-0-0, 1260 lb down and 27 lb up at 8-0-0, 1219 lb down and 25 lb up at 10-0-0, 1279 lb down and 27 lb up at 12-0-0, 1267 lb down and 27 lb up at 14-0-0, and 1258 lb down and 27 lb up at 16-0-0, and 1283 lb down and 27 lb up at 18-0-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others. device(s) is the responsibility of others.

LOAD CASE(S) Standard

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

Uniform Loads (plf) Vert: 1-4=-70, 4-5=-70, 1-9=-20, 6-8=-20

Concentrated Loads (lb)

Vert: 12=-1217(B) 13=-1220(B) 14=-1217(B) 15=-1217(B) 16=-1219(B) 17=-1219(B) 19=-1219(B) 20=-1219(B) 22=-1219(B)







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

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	1					20-8-0						I
Plate Offse	ets (X,Y)	[2:Edge,0-1-6], [2:0-3-3,	Edge], [12:Ed	ge,0-1-6], [12:	0-3-3,Edge]	1						
LOADING	(psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.05	Vert(LL)	-0.00	<u></u> 12	n/r	120	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.03	Vert(CT)	0.00	12	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.04	Horz(CT)	0.00	12	n/a	n/a		
BCDL	10.0	Code IRC2018/TI	PI2014	Matrix	k-S						Weight: 78 lb	FT = 10%
LUMBER-		_				BRACING-					•	

BOT CHORD

LUMBER-

_

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

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

REACTIONS. All bearings 20-8-0.

Max Horz 2=-82(LC 13) (lb) -Max Uplift All uplift 100 lb or less at joint(s) 2, 20, 21, 22, 23, 18, 16, 15, 14, 12 Max Grav All reactions 250 lb or less at joint(s) 2, 19, 20, 21, 22, 23, 18, 16, 15, 14, 12

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.
- Gable studs spaced at 2-0-0 oc.
- 7) 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 8) will fit between the bottom chord and any other members.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 20, 21, 22, 23, 18, 16, 15, 14, 12.
- 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.



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

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





ŀ	7-9-1 7-9-1	<u>12-10-15</u> 5-1-14	<u>20-8-0</u> 7-9-1	
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. DEFL. in (TC 0.52 Vert(LL) -0.11 BC 0.60 Vert(CT) -0.25 WB 0.17 Horz(CT) 0.04 Matrix-S Wind(LL) 0.06 2	Ioc) I/defl L/d PLATES GRI 6-9 >999 360 MT20 197/ 6-9 >977 240 6 n/a n/a 2-10 >999 240 Weight: 65 lb F	P /144 FT = 10%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

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

REACTIONS. (size) 2=0-3-8, 6=0-3-8 Max Horz 2=-82(LC 9) Max Uplift 2=-141(LC 8), 6=-141(LC 9) Max Grav 2=988(LC 1), 6=988(LC 1)

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

- TOP CHORD 2-3=-1643/210, 3-4=-1437/214, 4-5=-1437/214, 5-6=-1643/211
- BOT CHORD 2-10=-199/1413, 9-10=-56/1021, 6-9=-117/1413
- WEBS 4-9=-107/507, 5-9=-339/190, 4-10=-107/507, 3-10=-339/190

NOTES-

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

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

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

5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=141, 6=141.

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



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nt 16023 Swingley Ridge Rd Chesterfield, MO 63017

Structural wood sheathing directly applied or 3-8-13 oc purlins.

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



L	7-9-1		12-10-15				20-8-0	
	7-9-1		5-1-14				7-9-1	I
Plate Offsets (X, Y)	[2:0-0-10,0-1-8], [6:0-0-10,0-1-8], [9:0-4	-0,0-4-8], [10:0-4-0,0-4-8]					1	
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 0.58 BC 0.57 WB 0.29 Matrix-S	DEFL. Vert(LL) Vert(CT) Horz(CT) Wind(LL)	in (loc) -0.14 6-9 -0.26 6-9 0.04 6 0.11 2-10	l/defl >999 >949 n/a >999	L/d 360 240 n/a 240	PLATES MT20 Weight: 282 II	GRIP 197/144 D FT = 10%
LUMBER- TOP CHORD 2x4 SF BOT CHORD 2x6 SF WEBS 2x4 SF REACTIONS. (siz Max H	PF No.2 P 2400F 2.0E PF No.2 e) 2=0-3-8, 6=0-3-8 lorz 2=-49(LC 28) b// 0.00 0.00 0.00 000		BRACING- TOP CHORE BOT CHORE	D Struct D Rigid	ural wood ceiling dire	sheathing dir ectly applied o	rectly applied or 6-0-0 or 10-0-0 oc bracing.) oc purlins.
Max L Max G FORCES. (lb) - Max. TOP CHORD 2-3= BOT CHORD 2-10:	Jplift 2=-849(LC 8), 6=-647(LC 9) Frav 2=5446(LC 1), 6=4872(LC 1) Comp./Max. Ten All forces 250 (lb) or -8457/1312, 3-4=-8286/1323, 4-5=-8330 =-1188/7646, 9-10=-817/5846, 6-9=-103	less except when shown /1215, 5-6=-8500/1204 9/7684					NAPE	MISSO
WEBS 4-9= NOTES- 1) 3-ply truss to be cor Top chords connect	-470/3594, 4-10=-670/3569 nnected together with 10d (0.131"x3") na ed as follows: 2x4 - 1 row at 0-7-0 oc.	ils as follows:					50. ★ ₽	
Bottom chords conn Webs connected as 2) All loads are consider ply connections hav 3) Unbalanced roof live 4) Wind: ASCE 7-16; V	 NUMBER NUMBER NUMBER All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated. Unbalanced roof live loads have been considered for this design. Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; 							
 5) This truss has been 6) * This truss has bee will fit between the b 7) Provide mechanical 2=849 6=647 	designed for a 10.0 psf bottom chord liv in designed for a live load of 20.0psf on to bottom chord and any other members. connection (by others) of truss to bearin	e load nonconcurrent with the bottom chord in all are ng plate capable of withsta	any other live load as where a rectang anding 100 lb uplift a	1.60 plate gr ds. gle 3-6-0 tall l at joint(s) exc	p DOL=1. oy 2-0-0 w cept (jt=lb)	ide	ALL	N GARCIA
 a) This truss is designed referenced standard a) Hanger(s) or other of 0-7-4, 834 lb down a and 171 lb up at 8- 	ed in accordance with the 2018 Internation I ANSI/TPI 1. connection device(s) shall be provided su and 171 lb up at 2-7-4, 834 lb down and 7-4, 812 lb down and 196 lb up at 10-7	onal Residential Code sec ufficient to support concer 171 lb up at 4-7-4, 834 l 4, 850 lb down and 123 lb	ctions R502.11.1 an ntrated load(s) 873 I b down and 171 Ib o up at 12-7-4, 850	nd R802.10.2 Ib down and up at 6-7-4, Ib down and	and 154 lb up : 834 lb dov 123 lb up	at vn at		6952 J
14-7-4, and 850 lb c of such connection of LOAD CASE(S) Stan	lown and 123 lb up at 16-7-4, and 850 ll device(s) is the responsibility of others. dard	b down and 123 lb up at	18-7-4 on bottom ch	hord. The de	sign/selec	ction	-OKESSI	NNSAS ING
							M	arch 9,2021

MiTek 16023 Swingley Ridge Rd Chesterfield, MO 63017

Continued on page 2

						RELEASE FOR
Job	Truss	Truss Type	Qty	Ply	Lot 89 MN	CONSTRUCTION
210322	F3		1			AS NOTED ON PLANS REVIEW
210322	23		'	3	Job Reference (opt	ional) DEVELOPMENT SERVICES
Wheeler Lumber, Waverly, KS - 66871, Wheeler Lumber, Waverly, KS - 66871,						
210322 E3 COMMON GIRDER 1 3 AS NOTED ON PLANS R ¹ Wheeler Lumber, Waverly, KS - 66871, 8.430 s Feb 12 2021 MiTek Industries, Inc L Indi Si a UMB/021 1/UISS G ID:dwZTNcNXrqfJm8tRCSiY7DzSTnz-G3QnX5Aq9DQeyQcukAi521kcqws5b?UhzgCmBz 04/06/2021					9DQeyOqcukAi521kcqws5b?UhzgCmBzcxHo	
						04/06/2021
LOAD CASE(S) Standard	1					
 Dead + Roof Live (balar 	nced): Lumber Increase=1.15	b, Plate Increase=1.15				

Uniform Loads (plf) Vert: 1-4=-70, 4-7=-70, 2-6=-20

Concentrated Loads (lb)

Vert: 11=-873(F) 12=-819(F) 13=-819(F) 14=-819(F) 15=-819(F) 16=-793(F) 17=-850(F) 18=-850(F) 19=-850(F) 20=-850(F)





	ł		4-1-7						
LOADING (psf) TCLL 25.0 TCDL 10.0 BCLL 0.0 *	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr NO	CSI. TC 0.15 BC 0.10 WB 0.00	DEFL. in (loc) l/defl L/d Vert(LL) -0.01 4-5 >999 360 Vert(CT) -0.02 4-5 >999 240 Horz(CT) -0.01 3 n/a n/a	PLATES GRIP MT20 197/144					
BCDL 10.0	Code IRC2018/TPI2014	Matrix-R	Wind(LL) 0.01 4-5 >999 240	Weight: 11 lb FT = 10%					

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

2x4 SPF No.2

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

Max Horz 5=81(LC 12) Max Uplift 5=-91(LC 6), 3=-51(LC 12)

Max Grav 5=144(LC 1), 3=80(LC 1), 4=60(LC 3)

FORCES. (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.
- * This truss has been designed for a 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) 5, 3.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and
- referenced standard ANSI/TPI 1.
- 7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 30 lb down and 11 lb up at -1-2-14, and 30 lb down and 11 lb up at -1-2-14 on top chord. The design/selection of such connection device(s) is the responsibility of others.
- 8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
- Concentrated Loads (lb)
- Vert: 1=-46(F=-23, B=-23)

Trapezoidal Loads (plf)

Vert: 1=0(F=35, B=35)-to-2=-24(F=23, B=23), 2=-3(F=34, B=34)-to-3=-72(F=-1, B=-1), 5=0(F=10, B=10)-to-4=-21(F=-0, B=-0)



March 9.2021



Structural wood sheathing directly applied or 4-1-7 oc purlins,

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

except end verticals.



			3-0-0					
LOADING (psf) TCLL 25.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2018/TPI2014	CSI. TC 0.10 BC 0.06 WB 0.00 Matrix-R	DEFL. Vert(LL) -0. Vert(CT) -0. Horz(CT) -0. Wind(LL) 0.	in (loc) .00 4-5 .01 4-5 .00 3 .00 4-5	l/defl >999 >999 n/a >999	L/d 360 240 n/a 240	PLATES MT20 Weight: 9 lb	GRIP 197/144 FT = 10%

LUMBER-

TOP CHORD2x4 SPF No.2BOT CHORD2x4 SPF No.2WEBS2x4 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. (size) 5=0-3-8, 3=Mechanical, 4=Mechanical Max Horz 5=69(LC 8)

Max Uplift 5=-27(LC 8), 3=-49(LC 8)

Max Grav 5=210(LC 1), 3=82(LC 1), 4=52(LC 3)

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

NOTES-

- Wind: ASCE 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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	F		3-8-3			<u>4-1-7</u> 0-5-4	
LOADING (psf) TCLL 25.0 TCDL 10.0 BCLL 0.0 BCDL 10.0	SPACING-2-0-0Plate Grip DOL1.15Lumber DOL1.15Rep Stress IncrNOCode IRC2018/TPI2014	CSI. TC 0.15 BC 0.10 WB 0.00 Matrix-R	DEFL. Vert(LL) - Vert(CT) - Horz(CT) - Wind(LL)	in (loc) -0.01 5-6 -0.02 5-6 -0.01 3 0.01 5-6	l/defl L/d >999 360 >999 240 n/a n/a >999 240	PLATES MT20 Weight: 12 lb	GRIP 197/144 FT = 10%

LUMBER-

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

BRACING-TOP CHORD

BOT CHORD

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

REACTIONS. (size) 6=0-3-7, 3=Mechanical, 4=Mechanical Max Horz 6=80(LC 12)

Max Uplift 6=-90(LC 6), 3=-51(LC 12)

Max Grav 6=144(LC 1), 3=80(LC 1), 4=60(LC 3)

FORCES. (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.
- * This truss has been designed for a 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) Bearing at joint(s) 6 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6, 3.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 30 lb down and 11 lb up at -1-2-14, and 30 lb down and 11 lb up at -1-2-14 on top chord. The design/selection of such connection device(s) is the responsibility of others.
- 9) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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



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				2-8-5	0-3-11	
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 0.10	Vert(LL) -0.00	5-6 >999 360	MT20 197/144
TCDL	10.0	Lumber DOL 1.15	BC 0.06	Vert(CT) -0.01	5-6 >999 240	
BCLL	0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT) -0.00	3 n/a n/a	
BCDL	10.0	Code IRC2018/TPI2014	Matrix-R	Wind(LL) 0.00	5-6 >999 240	Weight: 9 lb $FT = 10\%$

LUMBER-

TOP CHORD2x4 SPF No.2BOT CHORD2x4 SPF No.2WEBS2x4 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 6-0-0 oc bracing.

REACTIONS. (size) 6=0-3-8, 3=Mechanical, 4=Mechanical Max Horz 6=68(LC 8)

Max Uplift 6=-26(LC 8), 3=-50(LC 8) Max Grav 6=210(LC 1), 3=83(LC 1), 4=52(LC 3)

FORCES. (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) 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) Bearing at joint(s) 6 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6, 3.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



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REACTIONS. All bearings 7-9-15. (Ib) - Max Horz 1=-108(LC 4)

Max Uplift All uplift 100 lb or less at joint(s) 1, 5 except 8=-154(LC 8), 6=-154(LC 9) Max Grav All reactions 250 lb or less at joint(s) 1, 5, 7, 8, 6

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

NOTES-

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

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

3) Gable requires continuous bottom chord bearing.

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

6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 5 except (jt=lb) 8=154, 6=154.

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.



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

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Max Grav All reactions 250 lb or less at joint(s) 1, 8, 10, 15, 14, 13, 12, 11, 9

FORCES. (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) 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

Provide adequate drainage to prevent water ponding.

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.7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 8, 10, 15, 14, 13, 12, 11, 9.

8) Non Standard bearing condition. Review required.

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

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



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¹⁴3x4 // 16 15

3-10-0 12-7-13 3-10-0 8-9-13

Plate Offsets (X,Y)	[5:0-2-10,Edge], [9:0-0-10,0-1-8]		
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 0.09 BC 0.05 WB 0.13 Matrix-S	DEFL. in (loc) l/defl L/d PLATES GRIP Vert(LL) n/a - n/a 999 MT20 197/144 Vert(CT) n/a - n/a 999 MT20 197/144 Vert(CT) - 0.01 9 n/a n/a Weight: 67 lb FT = 10%
LUMBER- TOP CHORD 2x4 S	SPF No.2		BRACING- TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins,

except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 5-9. BOT CHORD 2x4 SPF No.2 WEBS 2x4 SPF No.2 BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing. OTHERS 2x4 SPF No.2

REACTIONS. All bearings 12-7-13.

Max Horz 17=281(LC 8) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 17, 12, 11, 10 except 9=-280(LC 8), 14=-136(LC 6), 16=-197(LC 8), 15=-139(LC 8), 13=-136(LC 8) Max Grav All reactions 250 lb or less at joint(s) 17, 9, 16, 15, 13, 12, 11, 10 except 14=306(LC 8)

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

- TOP CHORD 4-5=-186/337, 5-6=-129/261, 6-7=-129/261, 7-8=-129/261, 8-9=-129/263
- BOT CHORD 16-17=-263/127, 15-16=-263/127, 14-15=-263/127, 13-14=-407/208, 12-13=-403/207, 11-12=-403/206, 10-11=-404/206, 9-10=-401/196

NOTES-

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

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

- 3) Provide adequate drainage to prevent water ponding.
- 4) All plates are 2x4 MT20 unless otherwise indicated.
- 5) Gable requires continuous bottom chord bearing.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

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

- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 17, 12, 11, 10 except (jt=lb) 9=280, 14=136, 16=197, 15=139, 13=136.
- 9) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 9, 13, 12, 11, 10.
- 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.



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BCDL

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

10.0

BRACING-TOP CHORD BOT CHORD

Structural wood sheathing directly applied or 6-0-0 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 4-8. Rigid ceiling directly applied or 10-0-0 oc bracing.

Weight: 46 lb

REACTIONS. All bearings 10-11-8.

(lb) -Max Horz 1=225(LC 8)

Max Uplift All uplift 100 lb or less at joint(s) 1, 8, 11, 12, 10, 9 except 14=-117(LC 8), 13=-142(LC 8) Max Grav All reactions 250 lb or less at joint(s) 1, 8, 11, 14, 13, 12, 10, 9

Matrix-S

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

NOTES-

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

Provide adequate drainage to prevent water ponding.

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

5) Gable requires continuous bottom chord bearing.

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

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

8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 8, 11, 12, 10, 9 except (jt=lb) 14=117, 13=142.

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

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.



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



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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 0.06 BC 0.03 WB 0.00 Matrix-P	DEFL. in Vert(LL) n/a Vert(CT) n/a Horz(CT) -0.00	(loc) l/d - r - r 3 r	efl L/d n/a 999 n/a 999 n/a n/a	PLATES MT20 Weight: 6 lb	GRIP 197/144 FT = 10%
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LUMBER-

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

BRACING-TOP CHORD

Structural wood sheathing directly applied or 2-7-4 oc purlins, except end verticals. Rigid ceiling directly applied or 10-0-0 oc bracing.

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

FORCES. (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) 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) Gable requires continuous bottom chord bearing.

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



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	Ι		6-5-12						
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 0.54 BC 0.21 WB 0.05 Matrix-P	DEFL. in Vert(LL) n/a Vert(CT) n/a Horz(CT) -0.00	(loc) - - 4	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20 Weight: 19 lb	GRIP 197/144 FT = 10%	
LUMBER-			BRACING-						

BOT CHORD

LUMBER-

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

REACTIONS. (size) 1=6-5-4, 4=6-5-4, 5=6-5-4

Max Horz 1=102(LC 5) Max Uplift 1=-39(LC 8), 4=-236(LC 3)

Max Grav 1=224(LC 1), 5=448(LC 3)

FORCES. (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) 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) 4=236

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



Structural wood sheathing directly applied or 6-5-12 oc purlins,

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

except end verticals.

MiTek 16023 Swingley Ridge Rd Chesterfield, MO 63017



LOADING (psf) TCLL 25.0 TCDL 10.0 BCLL 0.0 *	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES	CSI. TC 0.26 BC 0.14 WB 0.00	DEFL. in Vert(LL) n/a Vert(CT) n/a Horz(CT) -0.00	(loc) - - 3	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20	GRIP 197/144
		IVIAUIX-F	BRACING-					FT = 1076

BOT CHORD

LUMBER-

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

REACTIONS. 1=4-5-4, 3=4-5-4 (size)

Max Horz 1=78(LC 5) Max Uplift 1=-22(LC 8), 3=-41(LC 8)

Max Grav 1=169(LC 1), 3=169(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.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



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

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

except end verticals.





LOADING (psf) TCLL 25.0 TCDL 10.0 BCLL 0.0 *	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IPC2019/TPI2014	CSI. TC 0.05 BC 0.03 WB 0.00 Matrix B	DEFL. in (loc) I/defl L/d Vert(LL) n/a - n/a 999 Vert(CT) n/a - n/a 999 Horz(CT) -0.00 3 n/a n/a	PLATES GRIP MT20 197/144 Woight: 6 lb FT = 10%
BCDL 10.0	Code IRC2018/TPI2014	Matrix-P	BRACING-	Weight: 6 lb FT = 10%

BOT CHORD

LUMBER-

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

REACTIONS. 1=2-5-4, 3=2-5-4 (size) Max Horz 1=37(LC 5)

Max Uplift 1=-10(LC 8), 3=-19(LC 8) Max Grav 1=79(LC 1), 3=79(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.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



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Structural wood sheathing directly applied or 2-5-12 oc purlins,

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

except end verticals.





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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 0.14 BC 0.06 WB 0.06 Matrix-S	DEFL. in Vert(LL) n/a Vert(CT) n/a Horz(CT) -0.00	(loc) - - 7	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES GRIP MT20 197/144 Weight: 47 lb FT = 10%
I UMBER-			BRACING-				

TOP CHORD

BOT CHORD

LUMBER-

 TOP CHORD
 2x4 SPF No.2

 BOT CHORD
 2x4 SPF No.2

 WEBS
 2x4 SPF No.2

 OTHERS
 2x4 SPF No.2

REACTIONS. All bearings 11-11-6.

(lb) - Max Horz 1=233(LC 5)

Max Uplift All uplift 100 lb or less at joint(s) 7, 11, 10, 9, 8

Max Grav All reactions 250 lb or less at joint(s) 1, 7, 10, 9, 8 except 11=283(LC 1)

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

NOTES-

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

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

All plates are 2x4 MT20 unless otherwise indicated.
 Gable requires continuous bottom chord bearing.

5) Gable studs spaced at 2-0-0 oc.

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

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

Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 7, 11, 10, 9, 8.
 This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and

referenced standard ANSI/TPI 1.



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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.

16023 Swingley Ridge Rd Chesterfield, MO 63017



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	0.33	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.17	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.09	Horz(CT)	-0.00	4	n/a	n/a		
BCDL	10.0	Code IRC2018/TI	PI2014	Matri	k-S						Weight: 28 lb	FT = 10%
	2_					BRACING						

BOT CHORD

LUMBER-

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

REACTIONS. (size) 1=9-7-12, 4=9-7-12, 5=9-7-12 Max Horz 1=187(LC 5)

Max Uplift 4=-28(LC 5), 5=-152(LC 8) Max Grav 1=183(LC 1), 4=117(LC 1), 5=506(LC 1)

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

NOTES-

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

2) Gable requires continuous bottom chord bearing.

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

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

5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4 except (jt=lb) 5 = 152

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 6-0-0 oc purlins,

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

except end verticals.





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LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (lo	oc) I/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL 1.15	TC 0.19	Vert(LL) n/a	- n/a	999	MT20	197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.10	Vert(CT) n/a	- n/a	999		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.05	Horz(CT) -0.00	4 n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014	Matrix-P				Weight: 20 lb	FT = 10%
		1	BRACINC				

BOT CHORD

LUMBER-

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

REACTIONS. (size) 1=7-3-12, 4=7-3-12, 5=7-3-12

Max Horz 1=138(LC 5) Max Uplift 4=-26(LC 8), 5=-115(LC 8)

Max Grav 1=87(LC 16), 4=141(LC 1), 5=382(LC 1)

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

NOTES-

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

2) Gable requires continuous bottom chord bearing.

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

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

5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4 except (jt=lb) 5 = 115

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 6-0-0 oc purlins,

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

except end verticals.

MiTek 16023 Swingley Ridge Rd Chesterfield, MO 63017



OADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d	PLATES GRIP
CLL 25.0	Plate Grip DOL 1.15	TC 0.35	Vert(LL) n/a - n/a 999	MT20 197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.19	Vert(CT) n/a - n/a 999	
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT) -0.00 3 n/a n/a	
BCDL 10.0	Code IRC2018/TPI2014	Matrix-P		Weight: 13 lb FT = 10%

BOT CHORD

LUMBER-

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

REACTIONS. (size)

1=4-11-12, 3=4-11-12 Max Horz 1=89(LC 7) Max Uplift 1=-25(LC 8), 3=-47(LC 8) Max Grav 1=193(LC 1), 3=193(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.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



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Structural wood sheathing directly applied or 5-0-4 oc purlins,

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

except end verticals.





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 0.06 BC 0.03 WB 0.00 Matrix-P	DEFL. in (loc) I/defl L/d Vert(LL) n/a - n/a 999 Vert(CT) n/a - n/a 999 Horz(CT) -0.00 3 n/a n/a	PLATES GRIP MT20 197/144 Weight: 6 lb FT = 10%
LUMBER-			BRACING-	

BOT CHORD

LUMBER-

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

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

Max Grav 1=88(LC 1), 3=88(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.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

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Structural wood sheathing directly applied or 2-8-4 oc purlins,

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

except end verticals.







16023 Swingley Ridge Rd Chesterfield, MO 63017



2x4 💋

2x4 📎

Structural wood sheathing directly applied or 3-11-11 oc purlins.

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

	0-0 _F 7				3-11-11						
0-0-7					3-11-5						
Plate Offsets (X,Y)	[2:0-2-0,Edge]										
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	0.03	Vert(LL)	n/a	-	n/a	999	MT20	197/144
CDL 10.0	Lumber DOL	1.15	BC	0.08	Vert(CT)	n/a	-	n/a	999		
BCLL 0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	3	n/a	n/a		
3CDL 10.0	Code IRC2018/TI	PI2014	Matri	x-P						Weight: 8 lb	FT = 10%

TOP CHORD

BOT CHORD

LUMBER-

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

REACTIONS. 1=3-10-14, 3=3-10-14 (size) Max Horz 1=-22(LC 4) Max Uplift 1=-16(LC 8), 3=-16(LC 9) Max Grav 1=130(LC 1), 3=130(LC 1)

FORCES. (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) 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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3x4 ||

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—			7-7-2	
Plate Offsets (X Y)	[3:0-3-3 Edge] [4:Edge 0-2-8]		7-7-2	
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 0.52	Vert(LL) n/a - n/a 999	MT20 197/144
CDL 10.0	Lumber DOL 1.15	BC 0.32	Vert(CT) n/a - n/a 999	
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT) 0.00 4 n/a n/a	
3CDL 10.0	Code IRC2018/TPI2014	Matrix-R		Weight: 17 lb FT = 10%
LUMBER-			BRACING-	
TOP CHORD 2x4 SI	PF No.2		TOP CHORD Structural wood sheathir	ng directly applied or 6-0-0 oc purlins,
	PE No 2		excent and verticals	

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

REACTIONS. (size) 1=7-6-0, 4=7-6-0

2x3 SPF No.2

(size) 1=7-6-6, 4=7-6-6Max Horz 1=60(LC 5)Max Uplift 1=-48(LC 4), 4=-54(LC 8)

Max Grav 1=272(LC 1), 4=272(LC 1)

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

NOTES-

WEBS

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

2) Gable requires continuous bottom chord bearing.

- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 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.







			9-4-13 9-4-13			
Plate Offsets (X,Y)	[2:0-6-2,Edge], [4:Edge,0-1-8]	1			1	
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in	(loc) l/defl L/	d PLATES	GRIP
TCLL 25.0	Plate Grip DOL 1.15	TC 0.86	Vert(LL) n/a	- n/a 99	9 MT20	197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.52	Vert(CT) n/a	- n/a 99	9 M18SHS	197/144
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT) 0.00	4 n/a n/	a	
BCDL 10.0	Code IRC2018/TPI2014	Matrix-R			Weight: 22 lb	FT = 10%
LUMBER-			BRACING-		·	
TOP CHORD 2x4 SPI	F No.2		TOP CHORD	Structural wood shea	thing directly applied or 2-4-4	oc purlins,

BOT CHORD

except end verticals.

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

TOP CHORD2x4 SPF No.2BOT CHORD2x4 SPF No.2WEBS2x4 SPF No.2

REACTIONS. (size) 1=9-3-10, 4=9-3-10 Max Horz 1=76(LC 5) May Unlift 1=-62(LC 4). 4=-70(LC 8

Max Uplift 1=-62(LC 4), 4=-70(LC 8) Max Grav 1=351(LC 1), 4=351(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 1-2=-269/43

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) All plates are MT20 plates unless otherwise indicated.

3) Gable requires continuous bottom chord bearing.

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

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

6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 4.

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



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16023 Swingley Ridge Rd Chesterfield, MO 63017



3x4 📁

2x4 ||

F			<u>3-11-13</u> 3-11-13	
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 0.08 BC 0.05 WB 0.00 Matrix-R	DEFL. in (loc) l/defl L/d Vert(LL) n/a - n/a 999 Vert(CT) n/a - n/a 999 Horz(CT) 0.00 4 n/a n/a	PLATES GRIP MT20 197/144 Weight: 8 lb FT = 10%
LUMBER- TOP CHORD 2x4 SP	F No.2		BRACING- TOP CHORD Structural wood sheathing dir	ectly applied or 3-11-13 oc purlins,

BOT CHORD

except end verticals.

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

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

WEBS 2x3 SPF No.2

REACTIONS. (size) 1=3-10-10, 4=3-10-10 Max Horz 1=27(LC 5) Max Uplift 1=-19(LC 4), 4=-22(LC 8) Max Grav 1=109(LC 1), 4=109(LC 1)

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

NOTES-

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

2) Gable requires continuous bottom chord bearing.

- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 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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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 0.14 BC 0.08 WB 0.00 Matrix-P	DEFL. in (loc) I/defl L/d Vert(LL) n/a - n/a 999 Vert(CT) n/a - n/a 999 Horz(CT) -0.00 3 n/a n/a	PLATES GRIP MT20 197/144 Weight: 9 lb FT = 10%
LUMBER-			BRACING-	

BOT CHORD

LUMBER-

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

2x3 SPF No.2 REACTIONS. 1=3-6-7, 3=3-6-7 (size)

Max Horz 1=59(LC 5) Max Uplift 1=-16(LC 8), 3=-31(LC 8) Max Grav 1=128(LC 1), 3=128(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.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



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Structural wood sheathing directly applied or 3-6-15 oc purlins,

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

except end verticals.







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 0.26 BC 0.14 WB 0.00 Matrix-P	DEFL. in Vert(LL) n/a Vert(CT) n/a Horz(CT) -0.00	(loc) // - - 3	/defl L/d n/a 999 n/a 999 n/a n/a	PLATES GRIP MT20 197/144 Weight: 11 lb FT = 10%
LUMBER-			BRACING-			

BOT CHORD

LUMBER-

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

REACTIONS. 1=4-5-10, 3=4-5-10 (size) Max Horz 1=79(LC 5)

Max Uplift 1=-22(LC 8), 3=-42(LC 8) Max Grav 1=170(LC 1), 3=170(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.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



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Structural wood sheathing directly applied or 4-6-2 oc purlins,

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

except end verticals.







LOADING (psf) TCLL 25.0 TCDL 10.0 BCLL 0.0 *	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code JPC/2018/TPI2014	CSI. TC 0.38 BC 0.20 WB 0.00 Matrix B	DEFL. Vert(LL) Vert(CT) Horz(CT) -C	in (lo n/a n/a).00	oc) I/defl - n/a - n/a 3 n/a	L/d 999 999 n/a	PLATES MT20	GRIP 197/144
LUMBER-			BRACING-					

BOT CHORD

LUMBER-

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

REACTIONS. 1=5-1-14, 3=5-1-14 (size) Max Horz 1=93(LC 5)

Max Uplift 1=-26(LC 8), 3=-49(LC 8)

Max Grav 1=201(LC 1), 3=201(LC 1)

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

NOTES-

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

2) Gable requires continuous bottom chord bearing.

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



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Structural wood sheathing directly applied or 5-2-6 oc purlins,

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

except end verticals.







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 0.52 BC 0.28 WB 0.00 Matrix-P	DEFL. in (loc) l/defl L/d PLATES GRIP Vert(LL) n/a - n/a 999 MT20 197/144 Vert(CT) n/a - n/a 999 Horz(CT) -0.00 3 n/a n/a Weight: 15 lb FT = 10%
LUMBER-			BRACING-

BOT CHORD

LUMBER-

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

REACTIONS. 1=5-10-2, 3=5-10-2 (size)

Max Horz 1=107(LC 5) Max Uplift 1=-30(LC 8), 3=-57(LC 8)

Max Grav 1=232(LC 1), 3=232(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.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



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Structural wood sheathing directly applied or 5-10-10 oc purlins,

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

except end verticals.





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 0.15 BC 0.07 WB 0.03 Matrix-P	DEFL. in (loc) I/defl L/d Vert(LL) n/a - n/a 999 Vert(CT) n/a - n/a 999 Horz(CT) -0.00 5 n/a n/a	PLATES GRIP MT20 197/144 Weight: 21 lb FT = 10%
LUMBER-	•		BRACING-	

BOT CHORD

LUMBER-

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

REACTIONS. (size) 1=6-3-14, 5=6-3-14, 6=6-3-14

Max Horz 1=117(LC 5) Max Uplift 5=-23(LC 5), 6=-94(LC 8) Max Grav 1=122(LC 1), 5=62(LC 1), 6=316(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) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.

3) Gable requires continuous bottom chord bearing.

4) Gable studs spaced at 2-0-0 oc.

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

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

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



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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.





OADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d	PLATES GRIP
CLL 25.0	Plate Grip DOL 1.15	TC 0.19	Vert(LL) n/a - n/a 999	MT20 197/144
CDL 10.0	Lumber DOL 1.15	BC 0.10	Vert(CT) n/a - n/a 999	
BCLL 0.0 *	Rep Stress Incr YES	WB 0.05	Horz(CT) -0.00 4 n/a n/a	
BCDL 10.0	Code IRC2018/TPI2014	Matrix-P		Weight: 18 lb FT = 10%

BOT CHORD

LUMBER-

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

REACTIONS. (size) 1=7-1-0, 4=7-1-0, 5=7-1-0

Max Horz 1=115(LC 5) Max Uplift 4=-27(LC 8), 5=-98(LC 8)

Max Grav 1=62(LC 16), 4=142(LC 1), 5=370(LC 1)

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

NOTES-

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

2) Gable requires continuous bottom chord bearing.

- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 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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Structural wood sheathing directly applied or 6-0-0 oc purlins,

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

except end verticals.





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except end verticals.

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

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

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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 0.22	Vert(LL) n/a - n/a 999	MT20 197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.12	Vert(CT) n/a - n/a 999	
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT) -0.00 3 n/a n/a	
BCDL 10.0	Code IRC2018/TPI2014	Matrix-P		Weight: 10 lb FT = 10%
			BRACINC	

TOP CHORD

BOT CHORD

LUMBER-

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

REACTIONS. 1=4-3-6, 3=4-3-6 (size) Max Horz 1=64(LC 5)

Max Uplift 1=-23(LC 8), 3=-36(LC 8) Max Grav 1=156(LC 1), 3=156(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.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



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