

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

RE: 210436 Lot 91 MN

liTek

Site Information:

Customer: Project Name: 210436 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: ASCE716LowRise Roof Load: 45.0 psf

Design Program: MiTek 20/20 8.4 Wind Speed: 115 mph Floor Load: N/A psf

This package includes 92 individual, dated Truss Design Drawings and 0 Additional Drawings.

No. 1	Seal# I46224224	Truss Name A1	Date 5/21/2021	No. 21	Seal# I46224244	Truss Name D2	Date 5/21/2021
2	146224225	A2	5/21/2021	22	146224245	D3	5/21/2021
3	146224226	A3	5/21/2021	23	146224246	E1	5/21/2021
4	146224227	A4	5/21/2021	24	146224247	E2	5/21/2021
5	146224228	B1	5/21/2021	25	146224248	E3	5/21/2021
6	146224229	B2	5/21/2021	26	146224249	G1	5/21/2021
7	146224230	B3	5/21/2021	27	146224250	G2	5/21/2021
8	146224231	B4	5/21/2021	28	l46224251	G3	5/21/2021
9	146224232	B5	5/21/2021	29	146224252	G4	5/21/2021
10	146224233	B6	5/21/2021	30	146224253	G5	5/21/2021
11	146224234	B7	5/21/2021	31	146224254	G6	5/21/2021
12	146224235	B8	5/21/2021	32	146224255	H1	5/21/2021
13	146224236	B9	5/21/2021	33	146224256	H2	5/21/2021
14	146224237	B10	5/21/2021	34	146224257	H3	5/21/2021
15	146224238	B11	5/21/2021	35	146224258	H4	5/21/2021
16	146224239	C1	5/21/2021	36	146224259	J1	5/21/2021
17	146224240	C2	5/21/2021	37	146224260	J2	5/21/2021
18	146224241	C3	5/21/2021	38	I46224261	J3	5/21/2021
19	146224242	C4	5/21/2021	39	146224262	J4	5/21/2021
20	146224243	D1	5/21/2021	40	146224263	J5	5/21/2021

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



RE: 210436 - Lot 91 MN

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Lot/Block:	-	
Address:		
City, County:		

Subdivision:

State:

No.	Seal#	Truss Name	Date
41	146224264	J6	5/21/2021
42	146224265	J7	5/21/2021
43	146224266	J8	5/21/2021
44	146224267	J9	5/21/2021
45	146224268	.110	5/21/2021
46	146224269	.111	5/21/2021
47	146224270	.112	5/21/2021
48	146224271	.113	5/21/2021
49	146224272	.114	5/21/2021
50	146224273	.115	5/21/2021
51	146224274	.116	5/21/2021
52	146224275	.117	5/21/2021
53	146224276	.118	5/21/2021
54	146224277	.119	5/21/2021
55	146224278	.120	5/21/2021
56	146224279	.121	5/21/2021
57	146224280	.122	5/21/2021
58	146224281	.123	5/21/2021
59	146224201	124	5/21/2021
60	146224202	125	5/21/2021
61	146224200	126	5/21/2021
62	146224204	127	5/21/2021
63	146224200	128	5/21/2021
64	146224200	129	5/21/2021
65	146224207	130	5/21/2021
66	146224200	131	5/21/2021
67	146224200	132	5/21/2021
68	140224290	133	5/21/2021
60	146224231	134	5/21/2021
70	146224292	135	5/21/2021
70	146224235	136	5/21/2021
72	146224234	137	5/21/2021
73	146224235		5/21/2021
7/	146224230		5/21/2021
75	140224237		5/21/2021
76	140224290		5/21/2021
70	140224233		5/21/2021
70	140224300		5/21/2021
70	140224301		5/21/2021
19	140224302		5/21/2021
00 01	140224303	V I \/2	5/21/2021
01	140224304	v∠ \/2	5/21/2021
02 02	140224303	V S V/A	5/21/2021
03	140224300	V4 \/5	5/21/2021
04	140224307	vo	J/Z1/ZUZ1

Seal#	Truss Name	Date
146224308	V6	5/21/2021
146224309	V7	5/21/2021
l46224310	V8	5/21/2021
l46224311	V9	5/21/2021
l46224312	V10	5/21/2021
l46224313	V11	5/21/2021
l46224314	V12	5/21/2021
146224315	V13	5/21/2021



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

Design Code: IRC2018/TPI2014 Wind Code: ASCE716LowRise Roof Load: 45.0 psf Design Program: MiTek 20/20 8.4 Wind Speed: 115 mph Floor Load: N/A psf

This package includes 92 individual, dated Truss Design Drawings and 0 Additional Drawings.

No. 1 2 3 4 5 6 7 8	Seal# 146224224 146224225 146224226 146224227 146224228 146224229 146224230 146224231	Truss Name A1 A2 A3 A4 B1 B2 B3 B4	Date 5/21/2021 5/21/2021 5/21/2021 5/21/2021 5/21/2021 5/21/2021 5/21/2021	No. 21 22 23 24 25 26 27 28	Seal# 146224244 146224245 146224246 146224247 146224247 146224248 146224249 146224250 146224251	Truss Name D2 D3 E1 E2 E3 G1 G2 G3	Date 5/21/2021 5/21/2021 5/21/2021 5/21/2021 5/21/2021 5/21/2021 5/21/2021
2	146224225	A2	5/21/2021	22	146224245	D3	5/21/2021
3	146224226	A3	5/21/2021	23	146224246	E1	5/21/2021
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20	146224243	D1	5/21/2021	40	146224263	J5	5/21/2021

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.





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42	146224265	J7	5/21/2021
43	146224266	J8	5/21/2021
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46	146224269	.111	5/21/2021
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66	146224200	131	5/21/2021
67	146224200	132	5/21/2021
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70	146224235	136	5/21/2021
72	146224234	137	5/21/2021
73	146224235		5/21/2021
7/	146224230		5/21/2021
75	140224237		5/21/2021
76	140224290		5/21/2021
70	140224233		5/21/2021
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l46224313	V11	5/21/2021
l46224314	V12	5/21/2021
146224315	V13	5/21/2021



Scale = 1:22.8



	1	2-3-6	1			9-8-10					12-0-0	1
	Γ	2-3-6				7-5-4					2-3-6	
Plate Off	sets (X,Y)	[3:0-4-8,0-1-11], [4:0-4-8	,0-1-11], [7:0-	4-13,0-2-0]								
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	0.71	Vert(LL)	-0.11	8-9	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.62	Vert(CT)	-0.25	8-9	>558	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.07	Horz(CT)	0.01	7	n/a	n/a		
BCDL	10.0	Code IRC2018/T	PI2014	Matrix	x-S	Wind(LL)	0.07	8-9	>999	240	Weight: 40 lb	FT = 10%
	२ -					BRACING-						

TOP CHORD	2x4 SPF No.2 *Except*
	3-4: 2x4 SPF 2100F 1.8E
BOT CHORD	2x4 SPF No.2
WEBS	2x3 SPF No.2 *Except*
	2-10,5-7: 2x6 SPF No.2

TOP CHORD

BOT CHORD

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

REACTIONS. (size) 10=0-3-8, 7=0-3-8 Max Horz 10=45(LC 28)

Max Uplift 10=-123(LC 8), 7=-123(LC 9) Max Grav 10=634(LC 1), 7=634(LC 1)

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

TOP CHORD 2-3=-824/150, 3-4=-682/159, 4-5=-815/148, 2-10=-534/82, 5-7=-539/83

BOT CHORD 9-10=-140/698, 8-9=-149/695, 7-8=-120/683

NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 10=123, 7=123.
- 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) 73 lb down and 58 lb up at 2-3-6, 68 lb down and 48 lb up at 4-0-0, 68 lb down and 48 lb up at 6-0-0, and 68 lb down and 48 lb up at 8-0-0, and 73 lb down and 58 lb up at 9-8-10 on top chord, and 20 lb down at 2-3-6, 17 lb down at 4-0-0, 17 lb down at 6-0-0, and 17 lb down at 8-0-0, and 20 lb down at 9-8-10 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) Standard

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

Vert: 1-2=-70, 2-3=-70, 3-4=-70, 4-5=-70, 5-6=-70, 7-10=-20

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 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITER REFERENCE PAGE MIT-74/3 rev. 5/19/2020 BEFORE USE. Design valid for use only with MITER® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



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						RELEASE FOR CONSTRUCTION
Job	Truss	Truss Type	Qty	Ply	Lot 91 MN	AS NOTED FOR PLAN REVIEW
						DEVELOPMENT SERVECT
210436	A1	Hip Girder	1	1		
M/haalaa M/a				100 - 4	Job Reference (optional)	
wheeler Lumber, way	/eriy, KS - 66871,	ID:::///OO	٥ م0202-1/10	.430 S Apr		
		ID.wwQ0	CVU39098	GecLife	INZUMING-COS4WIOTZJJUURZ	

LOAD CASE(S) Standard Concentrated Loads (Ib)

Vert: 3=-2(F) 4=-2(F) 9=-6(F) 8=-6(F) 11=-10(F) 12=-10(F) 13=-10(F) 14=-9(F) 15=-9(F) 16=-9(F)

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSUTPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601





	3-11-6	8-0-10		12-0-0	
	3-11-6	4-1-4		3-11-6	I
Plate Offsets (X,Y)	- [2:0-0-12,0-1-8], [5:0-0-12,0-1-8]				
LOADING (psf) TCLL 25.0 TCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15	CSI. DEFL. TC 0.45 Vert(LL) BC 0.38 Vert(CT)	in (loc) l/defl -0.05 8-9 >999 -0.09 8-9 >999	L/d PLATES 360 MT20 240	GRIP 197/144
BCLL 0.0 * BCDL 10.0	Rep Stress Incr YES Code IRC2018/TPI2014	WB 0.04 Horz(CT) Matrix-S Wind(LL)	0.01 7 n/a 0.03 8-9 >999	n/a 240 Weight: 40 lb	FT = 10%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

- TOP CHORD 2x4 SPF No.2 BOT CHORD 2x4 SPF No.2 WEBS 2x3 SPF No.2 *Except* 2-10,5-7: 2x6 SPF No.2
- REACTIONS. (size) 10=0-3-8, 7=0-3-8 Max Horz 10=55(LC 7) Max Uplift 10=-73(LC 8), 7=-73(LC 9) Max Grav 10=597(LC 1), 7=597(LC 1)

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

2-3=-664/61, 3-4=-521/72, 4-5=-664/60, 2-10=-522/97, 5-7=-523/97 9-10=-43/522, 8-9=-45/520, 7-8=-17/522 TOP CHORD

BOT CHORD

NOTES-

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

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

3) Provide adequate drainage to prevent water ponding.

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

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

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

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

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



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

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

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



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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.

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

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



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						RELEASE FOR CONSTRUCTION
Job	Truss	Truss Type	Qty	Ply	Lot 91 MN	AS NOTED FOR PLAN REVIEW
						DEVELOPMENT SERVER
210436	B1	Half Hip Girder	1	2	Job Reference (optional)	LEE'S SUMMIT, MISSOURI
Wheeler Lumber, Wav	erly, KS - 66871,		8.	430 s Apr	20 2021 MiTek Industries, Inc	Thu May 2014 57 43 2021 Page 2
NOTEO		ID:wWQ0cV	uS969af?G	GecLrtCNz	dMNG-zPfzZNScosMmaCSPF	

NOTES-

- 12) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 13) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- (14) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 111 lb down and 74 lb up at 9-0-0, 111 lb down and 74 lb up at 11-0-0, 111 lb down and 74 lb up at 13-0-0, 111 lb down and 74 lb up at 15-0-0, 111 lb down and 74 lb up at 12-0-0, 111 lb down and 74 lb up at 13-0-0, 111 lb down and 74 lb up at 23-0-0, 110 lb down and 74 lb up at 21-0-0, 111 lb down and 74 lb up at 23-0-0, 110 lb down and 74 lb up at 25-0-0, 110 lb down and 74 lb up at 27-0-0, 110 lb down and 74 lb up at 23-0-0, and 110 lb down and 74 lb up at 31-0-0, and 111 lb down and 74 lb up at 33-0-0 on top chord, and 645 lb down and 221 lb up at 7-3-14, 68 lb down at 9-0-0, 68 lb down at 17-0-0, 68 lb down at 23-1-12, 69 lb down at 25-0-0, 69 lb down at 27-0-0, 69 lb down at 23-0-0, and 69 lb down at 31-0-0, and 68 lb down at 33-0-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

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

- Uniform Loads (plf)
- Vert: 1-3=-70, 3-9=-70, 1-18=-20, 15-18=-20, 12-14=-20, 10-11=-20 Concentrated Loads (lb)

Vert: 6=-111(F) 17=-645(F) 16=-51(F) 4=-111(F) 15=-51(F) 19=-111(F) 20=-111(F) 21=-111(F) 22=-111(F) 23=-111(F) 24=-111(F) 25=-110(F) 26=-110(F) 27=-110(F) 28=-110(F) 29=-111(F) 30=-51(F) 31=-51(F) 32=-51(F) 33=-51(F) 34=-51(F) 35=-51(F) 36=-52(F) 37=-52(F) 38=-52(F) 39=-52(F) 40=-51(F) 32=-51(F) 35=-51(F) 35=-51(F) 36=-52(F) 36=-52(F

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	3-3-8	9-8-11	17-2-8	24-	9-8		32-3-5	34-8	5-0
	3-3-8	6-5-3	7-5-13	7-7	7-1		7-5-13	3 2-4-	11
Plate Offse	ts (X,Y)	[5:0-2-8,0-1-8], [8:0-2-0,0-1-8], [9:Edge,	<u>0-1-8], [10:0-2-8,0-3-0], [1</u>	11:0-2-8,0-2-0], [14:0)-2-8,0-1-8],	15:0-7-8,0-	4-0]		
LOADING	(psf)	SPACING- 2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL 1.15	TC 0.88	Vert(LL) -	0.41 13-14	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL 1.15	BC 0.93	Vert(CT) -	0.73 13-14	>567	240	M18SHS	197/144
BCLL	0.0 *	Rep Stress Incr YES	WB 0.88	Horz(CT)	0.29 9	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014	Matrix-S	Wind(LL)	0.23 13-14	>999	240	Weight: 151 lb	FT = 10%
				PRACINC					
LUNDER-					Christen	المام معيد المع	ممناهم مانحم		a nurlina
	D 2X4 3P			TOP CHORD	Siruciu			as purling (2.2.0 mg)	
	7-8:28				except	end vertica	is, and 2-0-0	oc punins (2-2-0 max	(.): 3-7.
BOICHOR	(D 2X4 SP		_	BOLCHORD	Rigia c	elling direct	iy applied or	10-0-0 oc bracing, E	Except:
	1-15: 2	x8 SP DSS, 12-15: 2x6 SPF 1650F 1.4E	=		2-2-0 o	c bracing: 1	14-15.		
WEBS	2x3 SP	F No.2 *Except*		WEBS	1 Row	at midpt	2-1	4	
	2-15,16	5-18,10-17,19-20,21-22: 2x4 SPF No.2							
DEACTION		\sim 1.0380 Machanical							
REACTION		$r_{1} = 0.3 - 0, 9 = We chanked$							111.
		DIZ I = 104(LC 3)						IN OF	Micle
	Max 0	p(111 = -11(10 4), 9 = -55(10 5)						NEOF	188
	Max G	rav = 1549(LC - 1), 9 = 1549(LC - 1)						101	
FORCES	(lb) Mov	Comp (May Tan All foreas 250 (lb) or	loss avaant when shown					SAL	. 0
TORCES.	(ID) - IVIAX.	Comp./Max. Ten All forces 250 (b) or						JU S	AN
TOP CHOR	(D 1-2=-	6392/187, 2-3=-3667/121, 3-4=-4113/17	9, 4-5=-4110/177, 5-7=-3	3340/167,				GAF	RCIA :
	7-8=-	1078/58, 8-9=-1568/44						- * :	:*=
BOT CHOR	2D 1-15=	-260/5815, 14-15=-244/5275, 13-14=-1	42/3332, 11-13=-167/334	0, 10-11=-53/1029				_ :	: =
WEBS	2-15=	-9/1618, 2-14=-1942/151, 3-14=0/544,	3-13=-71/1052, 4-13=-583	3/131,				- D: NILIN	
	5-13=	-27/849, 5-11=-929/143, 7-11=-124/255	53, 7-10=-1017/119, 8-10=	=-51/1528				-D: -0000	
NOTES								O. E-2000	162101
NUTES-		landa barra barra ana idana difan (bir da	-1					1 A	-
1) Unbalan	ced root live	loads have been considered for this de	sign.	0.0				1,00,	
2) Wind: As	SCE 7-16; V	ult=115mph (3-second gust) Vasd=91m	ph; TCDL=6.0psf; BCDL=	=6.0psf; h=25ft; Cat.	II; Exp C; Er	iclosed;		I, ON	ALEIN
MWERS	(envelope);	cantilever left and right exposed ; end \	vertical left and right expos	sed; Lumber DOL=1	.60 plate grip	DOL=1.60		111	in the second se
3) Provide a	adequate dr	ainage to prevent water ponding.							
All plates	s are MT20	plates unless otherwise indicated.							
5) All plates	s are 2x4 M	T20 unless otherwise indicated.						AL AN	GAR
6) This trus	s has been	designed for a 10.0 psf bottom chord liv	e load nonconcurrent with	n any other live loads	S.			NUAN	CIA
7) * This tru	iss has beer	n designed for a live load of 20.0psf on t	he bottom chord in all are	eas where a rectangl	e 3-6-0 tall b	y 2-0-0 wide	e	N CE	NSA
will fit be	tween the b	ottom chord and any other members.						S LIO.	SO
8) Refer to	girder(s) for	truss to truss connections.						2 / 2	1 2
9) Bearing	at joint(s) 1	considers parallel to grain value using A	NSI/TPI 1 angle to grain f	formula. Building de	signer shoul	d verify			
capacity	of bearing s	surface.						- 16	952
10) Provide	e mechanica	I connection (by others) of truss to bear	ing plate capable of withs	tanding 100 lb uplift	at joint(s) 1,	9.		$= \pi i + \gamma$	
11) This tru	iss is design	ed in accordance with the 2018 Internat	tional Residential Code se	ections R502.11.1 ar	nd R802.10.2	and		= = :	
referen	ced standar	d ANSI/TPI 1.						-0.	14.145
12) Graphic	cal purlin rep	presentation does not depict the size or	the orientation of the purli	in along the top and/	or bottom ch	ord.		1 A	NSA?
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								111	nnne.
								Ma	v 21.2021
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L	6-9-2	14-6-5	21-0-0		27-5	-11	30-3-8			
Plate Offcots (X V)		7-9-3	6-5-11		6-5-	-11	2-9-13			
	[12.0-2-8,0-1-6], [13.0-3-6,0-3-6]									
LOADING (psf) TCLL 25.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING-2-0-0Plate Grip DOL1.15Lumber DOL1.15Rep Stress IncrYESCodeIRC2018/TPI2014	CSI. TC 0.58 BC 0.82 WB 0.63 Matrix-S	DEFL. in Vert(LL) -0.29 Vert(CT) -0.49 Horz(CT) 0.06 Wind(LL) 0.08	(loc) l/defl 8-9 >999 8-9 >727 8 n/a 11-12 >999	L/d 360 240 n/a 240	PLATES MT20 Weight: 121 lb	GRIP 197/144 FT = 10%			
LUMBER- TOP CHORD 2x2 1-4 BOT CHORD 2x2 10- WEBS 2x3 2-1	LUMBER- TOP CHORD 2x4 SPF No.2 *Except* 1-4: 2x4 SPF 2100F 1.8E BRACING- TOP CHORD TOP CHORD Structural wood sheathing directly applied or 4-5-15 oc purlins, except end verticals, and 2-0-0 oc purlins (4-2-10 max.): 4-6. BOT CHORD 2x4 SPF No.2 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. NEBS BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. 3-11, 4-9, 6-8 WEBS 2x3 SPF No.2 *Except* 2-13: 2x6 SPF No.2 SPE No.2 WEBS 1 Row at midpt 3-11, 4-9, 6-8									
REACTIONS. (size) 13=0-3-8, 8=0-3-8 Max Horz 13=239(LC 5) Max Uplift 13=-192(LC 8), 8=-196(LC 5) Max Grav 13=1476(LC 2), 8=1452(LC 2)										
FORCES.(lb) - MTOP CHORD2BOT CHORD1WEBS36	FORCES. (lb) - Max. Comp./Max. Ten All forces 250 (lb) or less except when shown. TOP CHORD 2-3=-2596/299, 3-4=-1939/272, 4-5=-1518/277, 5-6=-1518/277, 2-13=-1366/224 BOT CHORD 12-13=-264/607, 11-12=-339/2329, 9-11=-277/1704, 8-9=-147/530 WEBS 3-11=-672/237, 4-11=-16/520, 4-9=-273/113, 5-9=-543/216, 6-9=-163/1398, 6-8=-1324/276, 2-12=-123/1728									
 NOTES- Unbalanced roof live loads have been considered for this design. Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60 Provide adequate drainage to prevent water ponding. This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads. * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf. Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 13=192, 8=196. 										
This truss is des	igned in accordance with the 2018 Interna	tional Residential Code section	ons R502.11.1 and R8	02.10.2 and		2 /	1 2			

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.

16952 May 21,2021

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	2-3-8	7-1-14	11-1-	0 12-1-8	18-0-15	24-1-9		30-3-8	
Plate Offsets	s (X,Y)	[4:0-4-0,0-3-5], [10:Edge,0-2	2-8], [12:0-2·	-8,0-2-0], [16:0-3-0,0-0-0]	5-11-7	0-0-11		0-1-15	
LOADING (TCLL 2 TCDL 1 BCLL BCDL 1	(psf) 25.0 10.0 0.0 * 10.0	SPACING- 2 Plate Grip DOL Lumber DOL Rep Stress Incr Code IRC2018/TPI2	2-0-0 1.15 1.15 YES 014	CSI. TC 0.64 BC 0.53 WB 0.94 Matrix-S	DEFL. Vert(LL) -(Vert(CT) -(Horz(CT) (Wind(LL) (in (loc) l/defl 0.20 17 >999 0.36 16-17 >990 0.22 10 n/a 0.16 17 >999	L/d PLA 360 MT2 240 n/a 240 Weig	TES GRIP 10 197/144 ght: 166 lb FT = 10	%
LUMBER- TOP CHORI BOT CHORI WEBS	D 2x8 SP 6-9: 2x D 2x4 SP 4-15: 2 2x3 SP 3-18: 2	P DSS *Except* 4 SPF No.2 F No.2 *Except* x8 SP DSS, 14-16: 2x3 SPF F No.2 *Except* x6 SPF No.2	No.2		BRACING- TOP CHORD BOT CHORD WEBS	Structural wood s except end vertic Rigid ceiling direc 6-0-0 oc bracing: 9-7-14 oc bracing 1 Row at midpt	sheathing directly applie als, and 2-0-0 oc purlins ctly applied or 10-0-0 oc 14-16 g: 11-12. 9-10, 7-11	d or 4-1-9 oc purlins, s (3-3-14 max.): 6-9. : bracing, Except:	
REACTION	S. (size Max H Max U Max G	e) 10=0-3-8, 2=0-3-8 orz 2=237(LC 5) plift 10=-241(LC 5), 2=-174(rav 10=1350(LC 1), 2=1420	LC 4) (LC 1)					E OF MISS	
FORCES. TOP CHORI	(lb) - Max. D 2-3=- 8-9=-	Comp./Max. Ten All forces 686/56, 4-5=-3751/455, 5-6= 1272/268, 9-10=-1296/265	s 250 (lb) or =-2597/383,	less except when shown. 6-7=-2317/372, 7-8=-127	2/268,		= 6 = *	JUAN GARCIA	· P
BOT CHORI WEBS	BOT CHORD 4-17=-608/3522, 16-17=-607/3523, 15-16=-582/3415, 11-12=-368/1866 WEBS 5-17=0/329, 5-15=-1303/283, 6-15=-24/630, 12-15=-353/1763, 7-11=-794/133, 8-11=-462/197, 9-11=-297/1685, 7-15=-102/551								EFR
NOTES- 1) Wind: AS MWFRS (grip DOL= 2) Provide a	CE 7-16; V (envelope) =1.60 adequate dr	ult=115mph (3-second gust) gable end zone; cantilever la ainage to prevent water pon) Vasd=91m eft and right ding.	ph; TCDL=6.0psf; BCDL= exposed ; end vertical lef	6.0psf; h=25ft; Cat. t and right exposed;	II; Exp C; Enclosed; Lumber DOL=1.60 pla	ıte	SS/ONALEN	ALL IN

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) 10=241, 2=174.

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

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



MiTek 16023 Swingley Ridge Rd Chesterfield, MO 63017

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Scale = 1:54.3



2.	-3-8 7-3-14	I	14-8-11	2	1-10-0		25-11-8	30-3-8	
2-	-3-8 5-0-6	I	7-4-13	-	7-1-5	1	4-1-8	4-4-0	1
Plate Offsets (X,Y	') [4:0-4-0,0-3-5], [5:0-6	-0,0-2-5], [9:0-3-8	,0-2-0], [14:0-8-8,0-6-8]						
LOADING (psf) TCLL 25.0 TCDL 10.0 BCLL 0.0	SPACING- Plate Grip DO Lumber DOL * Rep Stress In	2-0-0 - 1.15 1.15 xr NO	CSI. TC 0.95 BC 0.50 WB 0.72	DEFL. Vert(LL) - Vert(CT) - Horz(CT)	in (loc) 0.35 15 0.63 15 0.27 11	l/defl >999 >570 n/a	L/d 360 240 n/a	PLATES MT20	GRIP 197/144
BCDL 10.0	Code IRC201	8/TPI2014	Matrix-S	Wind(LL)	0.26 15	>999	240	Weight: 376 lb	FT = 10%
LUMBER- TOP CHORD 22 BOT CHORD 22 WEBS 22 WEBS 3-	x8 SP DSS *Except* -8: 2x4 SPF 2100F 1.8E, 8 k8 SP DSS *Except* -18,11-13: 2x6 SP 2400F 2 k4 SPF No.2 *Except* -18: 2x6 SPF No.2	.10: 2x4 SPF No.2 .0E, 7-13,19-20: 2	x4 SPF No.2	BRACING- TOP CHORD BOT CHORD	9 Struct excep Rigid	ural wood t end verti ceiling dire	sheathing dir cals, and 2-0- ctly applied o	ectly applied or 6-0-0 0 oc purlins (4-1-0 ma or 10-0-0 oc bracing.	oc purlins, ax.): 5-10.
REACTIONS. M M M	(size) 11=0-3-8, 2=0-3 Max Horz 2=149(LC 22) Max Uplift 11=-354(LC 5), 2 Max Grav 11=2628(LC 1),	8 =-395(LC 4) 2=2584(LC 1)						IN THE OF	MISSO
ORCES. (lb) - Max. Comp./Max. Ten All forces 250 (lb) or less except when shown. JUAN OP CHORD 2-3=-1331/188, 3-4=-254/34, 4-5=-7930/1222, 5-6=-9034/1275, 6-7=-9032/1276, 7-9=-8199/1144, 9-10=-2923/420, 10-11=-2509/381 JUAN									
BOT CHORD WEBS	4-17=-1240/7451, 15-17=- 3-18=-37/289, 5-17=-190/ 12-14=-361/2649, 9-14=-8	1253/7552, 14-15 535, 5-15=-97/15 66/5845, 9-12=-30	=-1261/8526, 7-14=-836/2 44, 6-15=-908/336, 7-15=- 62/560, 10-12=-484/3673	70, 12-13=-78/428 109/551,				PP. NUI PO. E-200	MBER 0162101
NOTES-								·	
 2-ply truss to b Top chords cor Bottom chords Webs connecte All loads are co ply connections Wind: ASCE 7- MWFRS (enve grip DOL=1.60 Provide adequa 5) This truss has * This truss has 	e connected together with nnected as follows: 2x8 - 2 connected as follows: 2x6 - 2 rows onsidered equally applied t s have been provided to di -16; Vult=115mph (3-secon lope) gable end zone; can ate drainage to prevent wa been designed for a 10.0 p s been designed for a live	10d (0.131"x3") na rows staggered at - 2 rows staggered staggered at 0-9-(0 o all plies, except i stribute only loads d gust) Vasd=91n ilever left and righ ter ponding. sf bottom chord livo bad of 20.0psf on	iils as follows: 0-9-0 oc, 2x4 - 1 row at 0- d at 0-9-0 oc, 2x8 - 2 rows 0 oc, 2x4 - 1 row at 0-9-0 o f noted as front (F) or back noted as (F) or (B), unless uph; TCDL=6.0psf; BCDL= exposed ; end vertical left re load nonconcurrent with the bottom chord in all are:	7-0 oc. staggered at 0-9-0 c. (B) face in the LO/, otherwise indicate 6.0psf; h=25ft; Cat. t and right exposed any other live load as where a rectang	oc, 2x4 - 1 r AD CASE(S d. II; Exp C; E ; Lumber DC s. le 3-6-0 tall l	ow at 0-9-) section. F nclosed; DL=1.60 pl	0 oc. 기y to ate ide	In Solon	GARCIA ENSEO
will fit between 7) Provide mecha 11=354, 2=395	will fit between the bottom chord and any other members. Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 11=354, 2=395.								
8) This truss is de referenced star9) Graphical purli	esigned in accordance with ndard ANSI/TPI 1. n representation does not	the 2018 Internati	onal Residential Code sec	tions R502.11.1 and along the top and/c	a K802.10.2 or bottom ch	and ord.		11,8510	NAL ENGILI
								M	ay 21,2021

Continued on page 2

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						RELEASE FOR CONSTRUCTION
Job	Truss	Truss Type	Qty	Ply	Lot 91 MN	AS NOTED FOR PLAN REVIEW
						DEVELOPMENT SERVECES
210436	C4	Half Hip Girder	1	2		
				_	Job Reference (optional)	LEE'S SUMIMIT, MISSOURI
Wheeler Lumber, Way	erly, KS - 66871,		8	3.430 s Apr	20 2021 MiTek Industries, Inc	Thu May 2014/58 01-2021 Rage 2
	-	ID:wW	Q0cVuS969	af?GecLrt	CNzdMNG-RtInLXgvYOdDkzq	TLiErWupR(YisObinCbi)/Hi7zLago

NOTES-

10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 112 lb down and 58 lb up at 9-0-0, 112 lb down and 58 lb up at 11-0-0, 116 lb down and 68 lb up at 13-0-0, 117 lb down and 69 lb up at 15-0-0, 117 lb down and 69 lb up at 17-0-0, 117 lb down and 69 lb up at 12-0-0, 116 lb down and 68 lb up at 23-0-0, 116 lb down and 68 lb up at 25-0-0, and 116 lb down and 68 lb up at 27-0-0, and 116 lb down and 68 lb up at 29-0-0 on top chord, and 657 lb down at 229 lb up at 7-3-14, 76 lb down at 9-0-0, 76 lb down at 11-0-0, 69 lb down at 13-0-0, 68 lb down at 15-0-0, 68 lb down at 25-0-0, and 69 lb down at 25-0-0, and 69 lb down at 23-0-0, 68 lb down at 29-0-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

11) Filler applied to ply: 1(Front)

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-5=-70, 5-10=-70, 2-18=-20, 4-14=-20, 11-13=-20

Concentrated Loads (lb)

Vert: 17=-657(B) 15=-51(B) 6=-111(B) 23=-97(B) 24=-97(B) 25=-110(B) 26=-111(B) 27=-111(B) 28=-111(B) 29=-110(B) 30=-110(B) 31=-110(B) 32=-110(B) 33=-71(B) 34=-71(B) 35=-52(B) 36=-51(B) 38=-51(B) 39=-52(B) 40=-52(B) 41=-52(B) 42=-52(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 preven tbuckling 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 sand 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





LOAD CASE(S) Standard

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 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITER REFERENCE PAGE MIT-74/3 rev. 5/19/2020 BEFORE USE. Design valid for use only with MITER® 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

May 21,2021



						RELEASE FOR CONSTRUCTION
Job	Truss	Truss Type	Qty	Ply	Lot 91 MN	AS NOTED FOR PLAN REVIEW
						DEVELOPMENT SHOP POPULATION
210436	D1	Hip Girder	1	1		
					Job Reference (optional)	LEE S SUMINIT, MISSOURI
Wheeler Lumber, Wav	erly, KS - 66871,		8.	.430 s Apr	20 2021 MiTek Industries, Inc	Thu May 2014/58 02 2021 Rage 2
		ID:wWQ	0cVuS969	af?GecLrt	CNzdMNG-v3J9YthXJhl4M7F	313DTOkFLERyse71?Lp IdFyzEaup

LOAD CASE(S) Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)
 - Vert: 1-2=-70, 2-3=-70, 3-4=-70, 4-5=-70, 8-9=-20, 7-8=-20, 6-7=-20 Concentrated Loads (lb)

Vert: 3=-78(F) 4=-78(F) 10=-78(F) 11=-258(F) 12=-37(F) 13=-274(F)

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601





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6-0-13, and 1529 lb down and 75 lb up at 8-0-0, and 1495 lb down and 72 lb up at 10-0-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

Continued on page 2 LOAD CASE(S) Standard

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

MiTek

						RELEASE FOR CONSTRUCTION
Job	Truss	Truss Type	Qty	Ply	Lot 91 MN	AS NOTED FOR PLAN REVIEW
						DEVELOPMENT SERVECTES
210436	D3	Roof Special Girder	1	2	Job Reference (optional)	LEE'S SUMMIT, MISSOURI
Wheeler Lumber, Wav	erly, KS - 66871,		8.	430 s Apr	20 2021 MiTek Industries, Inc	Thu May 2014/59 05 2021 Page 2
		ID:wWQ	0cVuS969	af?GecLrt0	CNzdMNG-Ke_HAujPcc7fDa7	eiBnA?N3L9nKKonVSVsF2Ea0n

LOAD CASE(S) Standard

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

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

Vert: 9=-2934(B) 11=-1529(B) 12=-1479(B)

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Scale = 1:19.2

16023 Swingley Ridge Rd Chesterfield, MO 63017



	0-2-0 1-4-2		6-11-14		8-1-8
Plate Offsets (X,Y)	0-2-0 1-2-2 [3:0-4-8.0-1-11]. [7:Edge.0-1-8]. [10:0-5	5-0.0-0-4]	5-7-12		1-1-10
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 0.51 BC 0.32 WB 0.05 Matrix-S	DEFL. ir Vert(LL) -0.03 Vert(CT) -0.08 Horz(CT) 0.00 Wind(LL) 0.02	n (loc) l/defl L/d 8-9 >999 360 8-9 >999 240 7 n/a n/a 8-9 >999 240	PLATES GRIP MT20 197/144 Weight: 29 lb FT = 10%
LUMBER- TOP CHORD 2x4 SP BOT CHORD 2x4 SP WEBS 2x3 SP 2-10,5- REACTIONS. (size Max He	F No.2 F No.2 F No.2 *Except* 7: 2x4 SPF No.2 10=0-3-8, 7=0-3-8 prz 10=40(LC 7)		BRACING- TOP CHORD BOT CHORD	Structural wood sheathing of except end verticals, and 2. Rigid ceiling directly applied	directly applied or 6-0-0 oc purlins, -0-0 oc purlins (6-0-0 max.): 3-4. d or 10-0-0 oc bracing.
Max U Max U Max G FORCES. (lb) - Max. TOP CHORD 2-3=- BOT CHORD 9-10= NOTES- 1) Unbalanced roof live 2) Wind: ASCE 7-16; V MWFRS (envelope) grip DOL=1.60 3) Provide adequate dr 4) This truss has been	 blift 10=-51(LC 5), 7=-57(LC 5) rav 10=414(LC 21), 7=431(LC 1) Comp./Max. Ten All forces 250 (lb) o 429/52, 3-4=-320/62, 4-5=-370/42, 2-10 -53/365, 8-9=-62/368, 7-8=-29/315 loads have been considered for this de ult=115mph (3-second gust) Vasd=91n gable end zone; cantilever left and righ ainage to prevent water ponding. designed for a 10.0 psf bottom chord liv 	r less except when shown)=-312/27, 5-7=-315/24 esign. hph; TCDL=6.0psf; BCDL t exposed ; end vertical le ve load nonconcurrent wit	ι. =6.0psf; h=25ft; Cat. II; Ε ft and right exposed; Lur h any other live loads.	xp C; Enclosed; nber DOL=1.60 plate	DE NUMBER E-2000162101
 5) * This truss has been will fit between the b 6) Provide mechanical 7) This truss is designer referenced standard 8) Graphical purlin repr 9) Hanger(s) or other c 1-4-2, 51 lb down and , and 10 lb down and up at 6-11-14 on bo 10) In the LOAD CASE 	n designed for a live load of 20.0psf on ottom chord and any other members. connection (by others) of truss to bearin d in accordance with the 2018 Internati ANSI/TPI 1. esentation does not depict the size or ti onnection device(s) shall be provided s d 28 lb up at 3-2-0, and 51 lb down an l 8 lb up at 1-4-2, 5 lb down and 2 lb up ttom chord. The design/selection of su (S) section, loads applied to the face of	the bottom chord in all are ng plate capable of withst onal Residential Code se ne orientation of the purlir ufficient to support concer d 28 lb up at 5-2-0, and 6 o at 3-2-0, and 5 lb down ch connection device(s) is the truss are noted as fro	eas where a rectangle 3- anding 100 lb uplift at joir ctions R502.11.1 and R8 n along the top and/or bo ntrated load(s) 65 lb dow 64 lb down and 22 lb up at and 2 lb up at 5-2-0, an s the responsibility of oth ont (F) or back (B).	6-0 tall by 2-0-0 wide ht(s) 10, 7. 02.10.2 and ttom chord. n and 22 lb up at at 6-11-14 on top chord d 10 lb down and 8 lb ers.	16952
LOAD CASE(S) Stand 1) Dead + Roof Live (b: Uniform Loads (plf) Vert: 1-2=-7 Concentrated Loads Vert: 9=8(F)	lard alanced): Lumber Increase=1.15, Plate 0, 2-3=-70, 3-4=-70, 4-5=-70, 5-6=-70, (lb) 8=8(F) 13=2(F) 14=2(F)	Increase=1.15 7-10=-20			May 21,2021
WARNING - Verify of Design valid for use or	lesign parameters and READ NOTES ON THIS AN Ily with MiTek® connectors. This design is based	D INCLUDED MITEK REFERENC only upon parameters shown, ar	CE PAGE MII-7473 rev. 5/19/202 nd is for an individual building co	0 BEFORE USE. omponent, not	

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



	Q <u>-2-</u> 8	3-0-2		5-3-14		8-1-8		
	d-2-8	2-9-10		2-3-12	I	2-9-10	I	
Plate Offsets (X,Y)	[10:0-5-9,0-1-8]							
LOADING (psf) TCLL 25.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr Code IRC2018/TF	2-0-0 1.15 1.15 YES Pl2014	CSI. TC 0.27 BC 0.23 WB 0.03 Matrix-S	DEFL. Vert(LL) Vert(CT) Horz(CT) Wind(LL)	in (loc) -0.02 8-9 -0.04 8-9 0.00 7 0.01 8-9	l/defl L/d >999 360 >999 240 n/a n/a >999 240	PLATES MT20 Weight: 28 lb	GRIP 197/144 FT = 10%

BRACING-TOP CHORD

BOT CHORD

LUMBER-

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

REACTIONS. (size) 10=0-3-8, 7=0-3-8 Max Horz 10=49(LC 7) Max Uplift 10=-59(LC 8), 7=-62(LC 9) Max Grav 10=422(LC 1), 7=441(LC 1)

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

2-3=-390/35, 3-4=-267/49, 4-5=-364/32, 2-10=-361/78, 5-7=-369/80 9-10=-20/294, 8-9=-22/293, 7-8=-1/268 TOP CHORD

BOT CHORD

NOTES-

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

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

3) Provide adequate drainage to prevent water ponding.

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

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) 10, 7.

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

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



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

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



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/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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H	2-10-1 7-9-10		12-10-6	17-9-15	20-8-0						
Plate Offsets (X V)	[3:0-3-4 Edge] [6:0-3-4 Edge] [7:Edge (D-5-13] [12·0-2-8 0-1-8]	5-0-13 [14:Edge 0-5-13]	4-11-9	2-10-1						
	[3:0-3-4,Euge], [0:0-3-4,Euge], [7:Euge,	<u></u>	[14.Luge,0-0-10]								
LOADING(psf)TCLL25.0TCDL10.0BCLL0.0	SPACING-2-0-0Plate Grip DOL1.15Lumber DOL1.15Rep Stress IncrNO	CSI. TC 0.77 BC 0.96 WB 0.61	DEFL. i Vert(LL) -0.19 Vert(CT) -0.30 Horz(CT) 0.09	n (loc) l/defl L/d 9 11-12 >999 360 5 11-12 >677 240 5 8 n/a n/a	PLATES GRIP MT20 197/144						
BCDL 10.0	Code IRC2018/TPI2014	Matrix-S	Wind(LL) 0.1	7 11-12 >999 240	Weight: 72 lb FT = 10%						
LUMBER- TOP CHORD 2x4 SP BOT CHORD 2x4 SP WEBS 2x3 SP 2-14,7- REACTIONS. (size Max Ho Max U Max O	F No.2 F No.2 F No.2 *Except* 8: 2x4 SPF No.2 9) 14=0-3-8, 8=Mechanical orz 14=49(LC 5) plift 14=-228(LC 5), 8=-220(LC 4) rov 14=1322(LC 1) 8=-1147(LC 1)		BRACING- TOP CHORD BOT CHORD	Structural wood sheathing d except end verticals, and 2- Rigid ceiling directly applied 7-0-4 oc bracing: 11-12.	irectly applied or 4-5-0 oc purlins, 0-0 oc purlins (2-7-12 max.): 3-6. or 10-0-0 oc bracing, Except:						
FORCES. (lb) - Max. TOP CHORD 2-3=- 2-14= BOT CHORD 12-13 WEBS 3-12= 7-9=-	FORCES. (lb) - Max. Comp./Max. Ten All forces 250 (lb) or less except when shown. TOP CHORD 2-3=-1695/356, 3-4=-3156/711, 4-5=-3156/708, 5-6=-3158/709, 6-7=-1707/356, 2-14=-1202/231, 7-8=-1126/224 BOT CHORD 12-13=-335/1500, 11-12=-706/3153, 9-11=-315/1516 WEBS 3-12=-412/1782, 4-12=-491/231, 5-11=-485/229, 6-11=-411/1772, 2-13=-292/1410, 7-9=-296/1420 NOTES- NUMBER										
 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) Refer to girder(s) for truss to truss connections. 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 14=228, 8=220. 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. 											
 10) Hanger(s) or other 2-10-1, 78 lb down up at 10-4-0, 78 lb 88 lb down and 74 at 8-4-0, 24 lb dow on bottom chord. T 11) In the LOAD CASE CARLIGASE(SbeStand) 	 16 Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord. (0) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 88 lb down and 74 lb up at 2-10-1, 78 lb down and 63 lb up at 4-4-0, 78 lb down and 63 lb up at 10-4-0, 78 lb down and 63 lb up at 12-4-0, 78 lb down and 63 lb up at 12-4-0, 78 lb down and 63 lb up at 14-4-0, and 78 lb down and 63 lb up at 16-4-0, and 88 lb down and 74 lb up at 17-9-15 on top chord, and 32 lb down at 2-10-1, 24 lb down at 16-4-0, and 28 lb down at 10-4-0, 24 lb down at 12-4-0, 24 lb down at 12-4-0, and 24 lb down at 16-4-0, and 32 lb down at 17-9-15 on bottom chord. The design/selection of such connection device(s) is the responsibility of others. 11) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B). 										

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

						RELEASE FOR CONSTRUCTION
Job	Truss	Truss Type	Qty	Ply	Lot 91 MN	AS NOTED FOR PLAN REVIEW
						DEVELOPMENT SERVER
210436	G1	HIP GIRDER	1	1	Job Reference (optional)	LEE'S SUMMIT, MISSOURI
Wheeler Lumber, Wav	ler Lumber, Waverly, KS - 66871, 8.430 s Apr 20 2021 MiTek Industries, ID:wWQ0cVuS969af?GecLrtCNzdMNG-CPEo0Gmwgrd4iC					Thu Mon 2014/59:09-2021 Rags 2 (1r6ACID310-9GEOKOUxi202Ea)

LOAD CASE(S) Standard

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

Uniform Loads (plf) Vert: 1-2=-70, 2-3=-70, 3-6=-70, 6-7=-70, 8-14=-20

Concentrated Loads (lb)

Vert: 3=-30(F) 6=-30(F) 13=-19(F) 9=-19(F) 15=-33(F) 16=-33(F) 17=-33(F) 18=-33(F) 19=-33(F) 20=-33(F) 21=-33(F) 22=-19(F) 23=-19(F) 25=-19(F) 26=-19(F) 27=-19(F) 28=-19(F) 28=-19(F) 26=-19(F) 26=

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




Scale = 1:36.5



I	4-6-1	<u>10-4-0</u> 5-9-15			<u>16-1-15</u> 5-9-15		20-8-0	
Plate Offsets (X,Y)	[6:Edge,0-5-8], [12:0-2-7,0-4-14]	0010			0010			
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 0.89 BC 0.84 WB 0.31 Matrix-S	DEFL. Vert(LL) - Vert(CT) - Horz(CT) Wind(LL)	in () -0.16 8 -0.32 8 0.03 0.12 8	(loc) l/defl 3-10 >999 3-10 >767 7 n/a 3-10 >999	L/d 360 240 n/a 240	PLATES MT20 Weight: 68 lb	GRIP 197/144 FT = 10%
LUMBER- TOP CHORD 2x4 SF BOT CHORD 2x4 SF 7-9: 2x WEBS 2x3 SF 2-12: 2 REACTIONS. (siz:	PF No.2 PF No.2 *Except* 4 SPF 2100F 1.8E PF No.2 *Except* tx8 SP DSS, 6-7: 2x6 SP DSS e) 12=0-3-8, 7=Mechanical		BRACING- TOP CHORE BOT CHORE	D St ex D Ri	tructural wood a xcept end vertic igid ceiling dire	sheathing dire cals, and 2-0- ctly applied o	ectly applied or 2-2-0 0 oc purlins (3-8-0 m r 10-0-0 oc bracing.) oc purlins, iax.): 3-5.
Max H Max U Max G	lorz 12=62(LC 5) plift 12=-102(LC 5), 7=-93(LC 4) rav 12=991(LC 1), 7=904(LC 1)						INTE OF	MISS
FORCES. (lb) - Max. TOP CHORD 2-3=- 6-7=-	Comp./Max. Ten All forces 250 (lb) or 1305/174, 3-4=-1846/295, 4-5=-1846/29 745/100	less except when shown 5, 5-6=-1305/171, 2-12=-	867/114,				1 S J	UAN
BOT CHORD 11-12 WEBS 3-10=	2=-154/1070, 10-11=-157/1071, 8-10=-1 =-183/903, 4-10=-533/204, 5-10=-182/88	17/1091, 7-8=-114/1089 87					= *	*
NOTES- 1) Unbalanced roof live 2) Wind: ASCE 7-16; V MWFRS (envelope) grip DOL=1.60 3) Provide adequate dr 4) This truss has been	e loads have been considered for this de /ult=115mph (3-second gust) Vasd=91m gable end zone; cantilever left and right rainage to prevent water ponding. designed for a 10.0 psf bottom chord liv	sign. ph; TCDL=6.0psf; BCDL= exposed ; end vertical lef e load nonconcurrent with	-6.0psf; h=25ft; Cat. t and right exposed any other live load	. II; Exp (; Lumbe	C; Enclosed; er DOL=1.60 pla	ate	PROFESSION	MBER 00162101
 5) * This truss has bee will fit between the b 6) Pefer to girder(a) for 	n designed for a live load of 20.0psf on t pottom chord and any other members.	he bottom chord in all are	as where a rectang	le 3-6-0	tall by 2-0-0 wi	de	1111	GARO
7) Provide mechanical12=102.	connection (by others) of truss to bearin	g plate capable of withsta	nding 100 lb uplift a	at joint(s)) 7 except (jt=lb))	1000 C	ENSED
 8) This truss is designer referenced standard 9) Graphical purlin repr 	ed in accordance with the 2018 Internation ANSI/TPI 1. resentation does not depict the size or the siz	onal Residential Code sec	tions R502.11.1 an along the top and/c	d R802. ⁻	10.2 and n chord.		1 PROFILE	6952
							1111	DNAL SIN



May 21,2021



L	6-2-1	1	14-5-15			20-8-0	
	6-2-1		8-3-15		1	6-2-1	
Plate Offsets (X,Y)	[5:Edge,0-7-4]						
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 0.73 BC 0.81 WB 0.29 Matrix-S	DEFL. in Vert(LL) -0.25 Vert(CT) -0.58 Horz(CT) 0.04 Wind(LL) 0.11	(loc) l/de 7-9 >95 7-9 >41 6 n 7-9 >99	fl L/d 1 360 6 240 ′a n/a 9 240	PLATES MT20 Weight: 66 lb	GRIP 197/144 FT = 10%
LUMBER- TOP CHORD 2x4 SP BOT CHORD 2x4 SP WEBS 2x3 SP 1-10,5-	F No.2 F No.2 F No.2 *Except* 6: 2x8 SP DSS		BRACING- TOP CHORD BOT CHORD	Structural w except end Rigid ceiling	ood sheathing di verticals, and 2-(directly applied	irectly applied or 3-11- D-0 oc purlins (5-5-14 i or 10-0-0 oc bracing.	8 oc purlins, max.): 2-4.
REACTIONS. (size Max H Max G	e) 10=0-3-8, 6=Mechanical orz 10=53(LC 5) rav 10=903(LC 1), 6=903(LC 1)						uun.
FORCES. (lb) - Max. TOP CHORD 1-2=- BOT CHORD 9-10= WEBS 2-9=0	Comp./Max. Ten All forces 250 (lb) or 1309/1, 2-3=-1063/19, 3-4=-1063/19, 4- 0/1068, 7-9=-26/1288, 6-7=0/1068 0/339, 3-9=-384/84, 3-7=-384/83, 4-7=0/	less except when shown 5=-1309/1, 1-10=-794/24 339	, 5-6=-794/24			NATE OF	UAN D
NOTES- 1) Unbalanced roof live 2) Wind: ASCE 7-16; V MWFRS (envelope); 3) Provide adequate dr 4) This truss has been 5) * This truss has been will fit between the b	loads have been considered for this de fult=115mph (3-second gust) Vasd=91m cantilever left and right exposed; end ainage to prevent water ponding. designed for a 10.0 psf bottom chord liv n designed for a live load of 20.0psf on 1 ottom chord and any other members.	isign. iph; TCDL=6.0psf; BCDL= vertical left and right expo e load nonconcurrent with the bottom chord in all are	=6.0psf; h=25ft; Cat. II; E sed; Lumber DOL=1.60 ; h any other live loads. bas where a rectangle 3-f	xp C; Enclose blate grip DOI 6-0 tall by 2-0-	d; =1.60 0 wide	A PPOCKSSSIO	MBER 100162101

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

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.







 	<u>7-10-1</u> 7-10-1		<u>12-9-15</u> 4-11-15				<u>20-8-0</u> 7-10-1	
Plate Offsets (X,Y)	[3:0-4-8,0-1-11], [4:Edge,0-7-4	4]						
LOADING (psf)	SPACING- 2-0)-0 CSI .	DEFL.	in (lo	c) l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL 1.	15 TC (0.75 Vert(LL)	-0.18 7	-8 >999	360	MT20	197/144
CDL 10.0	Lumber DOL 1.	15 BC (0.70 Vert(CT)	-0.33 7	-8 >737	240		
CLL 0.0 *	Rep Stress Incr YI	ES WB (0.17 Horz(CT)	0.03	5 n/a	n/a		
BCDL 10.0	Code IRC2018/TPI201	4 Matrix-S	-S Wind(LL)	0.07 7	-8 >999	240	Weight: 65 lb	FT = 10%
LUMBER-		·	BRACING	D 01		- h th in dia	a sthe anglia dian 0.0 d	0

BOT CHORD 2x4 SPF No.2 WEBS 2x3 SPF No.2 *Except* 1-9,4-5: 2x8 SP DSS

TOP CHORE

BOT CHORD

except end verticals, and 2-0-0 oc purlins (5-6-9 max.): 2-3. Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 9=0-3-8, 5=Mechanical Max Horz 9=-63(LC 4)

Max Grav 9=903(LC 1), 5=903(LC 1)

- FORCES. (Ib) Max. Comp./Max. Ten. All forces 250 (Ib) or less except when shown.
- 1-2=-1243/0, 2-3=-994/38, 3-4=-1243/0, 1-9=-792/51, 4-5=-792/51 TOP CHORD

BOT CHORD 8-9=0/996, 7-8=0/993, 5-7=0/996

NOTES-

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

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

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

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

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

7) This truss 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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	9-6-1		' 1-7-15 '		9-6	5-1	
Plate Offsets (X,Y)	[3:0-4-8,0-1-11], [6:Edge,0-7-4]						
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 1.00 BC 0.68 WB 0.21 Matrix-S	DEFL. in Vert(LL) -0.17 Vert(CT) -0.36 Horz(CT) 0.03 Wind(LL) 0.08	(loc) 9-10 7-9 7 9-10	l/defl L/d >999 360 >672 240 n/a n/a >999 240	PLATES MT20 Weight: 75 lb	GRIP 197/144 FT = 10%
			BBACING-			_	

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

WEBS 2x3 SPF No.2 *Except* 1-11,6-7: 2x8 SP DSS

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

REACTIONS. (size) 11=0-3-8, 7=Mechanical Max Horz 11=-72(LC 6) Max Uplift 11=-7(LC 8), 7=-7(LC 9) Max Grav 11=903(LC 1), 7=903(LC 1)

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

- 1-2=-1305/68, 2-3=-1062/16, 3-4=-894/39, 4-5=-1062/16, 5-6=-1304/68, 1-11=-789/55, TOP CHORD 6-7=-789/55
- BOT CHORD 10-11=-66/1064, 9-10=0/893, 7-9=-34/1064

NOTES-

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

3) Provide adequate drainage to prevent water ponding.

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

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

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

8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and

referenced standard ANSI/TPI 1.

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



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1	7-0-4		12-11-12	20-	6-0	
I	7-8-4		5-3-8	7-8	3-4	
Plate Offsets (X,Y)	[5:Edge,0-7-4]					
LOADING (psf) TCLL 25.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING-2-0-0Plate Grip DOL1.15Lumber DOL1.15Rep Stress IncrYESCode IRC2018/TPI2014	CSI. TC 0.79 BC 0.76 WB 0.12 Matrix-S	DEFL. in Vert(LL) -0.23 Vert(CT) -0.36 Horz(CT) 0.03 Wind(LL) 0.10	(loc) l/defl L/d 8-9 >999 360 8-9 >669 240 6 n/a n/a 8-9 >999 240	PLATES GRIP MT20 197/144 Weight: 70 lb FT = 10%	
LUMBER- TOP CHORD 2x4 SF BOT CHORD 2x4 SF WEBS 2x3 SF 1-10,5	PF No.2 PF No.2 PF No.2 *Except* -6: 2x8 SP DSS		BRACING- TOP CHORD BOT CHORD	Structural wood sheathing dire except end verticals. Rigid ceiling directly applied or	ectly applied or 3-3-3 oc purlins, r 10-0-0 oc bracing.	

REACTIONS. (size) 10=0-3-8, 6=Mechanical Max Horz 10=-77(LC 4) Max Uplift 10=-10(LC 8), 6=-10(LC 9) Max Grav 10=903(LC 1), 6=903(LC 1)

- FORCES. (lb) Max. Comp./Max. Ten. All forces 250 (lb) or less except when shown.
- TOP CHORD 1-2=-1318/57, 2-3=-1086/42, 3-4=-1086/42, 4-5=-1318/57, 1-10=-788/50, 5-6=-788/50
- BOT CHORD 9-10=-56/1079, 8-9=0/809, 6-8=-19/1079
- WEBS 3-8=-2/287, 4-8=-263/125, 3-9=-2/287, 2-9=-263/125

NOTES-

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

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

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

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

6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 10, 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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Scale = 1:37.1

May 21,2021

MiTek 16023 Swingley Ridge Rd Chesterfield, MO 63017



L	4-10-3	10-4-0		15-9-13	20-8-0				
1	4-10-3	5-5-13	1	5-5-13	4-10-3	1			
Plate Offsets (X,Y)	[8:Edge,0-5-11], [9:0-2-8,0-1-8], [12:0-2	-8,0-1-8], [13:Edge,0-5-11]						
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in	(loc) l/defl L/	d PLATES	GRIP			
TCU 25.0	Plate Grin DOI 115	TC 0.89	Vert(LL) -0.15	11 >999 36	0 MT20	197/144			
TCDI 10.0	Lumber DOL 115	BC 0.72	Vort(CT) 0.10	0.11 \$979 24	0	137/144			
	Lumber DOL 1.15	BC 0.72	Ven(CT) -0.26	9-11 >0/0 24	-0 /-				
BCLL 0.0	Rep Stress Incr NO	WB 0.60	Horz(C1) 0.05	8 n/a n/					
BCDL 10.0	Code IRC2018/TPI2014	Matrix-S	Wind(LL) 0.14	11 >999 24	0 Weight: 73 lb	FT = 10%			
LUMBER- TOP CHORD 2x4 SF BOT CHORD 2x4 SF WEBS 2x3 SF 2-13,6-	PF No.2 PF No.2 PF No.2 *Except* 8: 2x4 SPF No.2	·	BRACING- TOP CHORD BOT CHORD	Structural wood shea except end verticals, Rigid ceiling directly	athing directly applied or 3-4-1 and 2-0-0 oc purlins (2-6-5 m applied or 8-6-2 oc bracing.	13 oc purlins, nax.): 3-5.			
REACTIONS. (size Max H Max U Max G	e) 13=0-3-8, 8=0-3-8 orz 13=24(LC 12) plift 13=-310(LC 4), 8=-310(LC 5) rav 13=1400(LC 1), 8=1400(LC 1)					MISSIL			
FORCES. (lb) - Max. TOP CHORD 2-3=-	FORCES. (lb) - Max. Comp./Max. Ten All forces 250 (lb) or less except when shown. TOP CHORD 2-3=-2443/565, 3-4=-3110/784, 4-5=-3110/784, 5-6=-2443/565, 2-13=-1346/327, 6-8=-1346/327 6-8=-1346/327 0								
b-2=-1340/327 JUAN BOT CHORD 12-13150/457, 11-12=-472/2190, 9-11=-476/2190, 8-9=-128/457 WEBS 3-11=-270/1078, 4-11=-629/315, 5-11=-270/1078, 2-12=-395/1750, 6-9=-395/1750									
NOTES- 1) Unbalanced roof live 2) Wind: ASCE 7-16; V MWFRS (envelope) grip DOL=1.60 3) Provide adequate di 4) This truss has been b) * This truss has been will fit between the b 6) Provide mechanical 13=310, 8=310. 7) This truss is designer referenced standard 8) Graphical purlin repu 9) Hanger(s) or other co 6-4-0, 85 lb down ar and 75 lb up at 14-4 down at 10-4-0, 29 design/selection of s 10) In the LOAD CASE	e loads have been considered for this de fult=115mph (3-second gust) Vasd=91n gable end zone; cantilever left and righ rainage to prevent water ponding. designed for a 10.0 psf bottom chord lin n designed for a live load of 20.0psf on rottom chord and any other members. connection (by others) of truss to bearin ed in accordance with the 2018 Internati ANSI/TPI 1. resentation dees not depict the size or the connection device(s) shall be provided s d 75 lb up at 8-4-0, 85 lb down and 75 4-0 on top chord, and 249 lb down at 1 budown at 12-4-0, and 29 lb down at 1 such connection device(s) is the response	esign. hph; TCDL=6.0psf; BCDL= exposed ; end vertical left the load nonconcurrent with the bottom chord in all area and plate capable of withstar onal Residential Code sec the orientation of the purlin ufficient to support concen Ib up at 10-4-0, and 85 lb 05 lb up at 4-10-3, 29 lb of 4-4-0, and 249 lb down an sibility of others.	6.0psf; h=25ft; Cat. II; E t and right exposed; Lur any other live loads. as where a rectangle 3- nding 100 lb uplift at joir tions R502.11.1 and R8 along the top and/or boi trated load(s) 85 lb dow down and 75 lb up at 1 down at 6-4-0, 29 lb dow id 105 lb up at 15-9-13 at (E) or back (B)	txp C; Enclosed; nber DOL=1.60 plate 6-0 tall by 2-0-0 wide nt(s) except (jt=lb) 02.10.2 and ttom chord. n and 75 lb up at 2-4-0, and 85 lb down wn at 8-4-0, 29 lb on bottom chord. The	PROFILE-200	MBER DOI 162101			
LOAD CASE(S) Stan	dard				11551	ONAL ENGIN			
						ATT 1111			

Continued on page 2

						RELEASE FOR CONSTRUCTION
Job	Truss	Truss Type	Qty	Ply	Lot 91 MN	AS NOTED FOR PLAN REVIEW
						DEVELOPMENT SERVICES
210436	H1	HIP GIRDER	1	1		
					Job Reference (optional)	LEE S SUMINIT, MISSOURI
Wheeler Lumber, Wav	erly, KS - 66871,		8.	430 s Apr	20 2021 MiTek Industries, Inc	Thu Man 2014 59 16 2021 Page 2 4
		ID:wW	Q0cVuS96	9af?GecL	rtCNzdMNG-Vm9RUfsJ0?W5	HTIr?Tivh) ObjexPPIP1B8aleztia b

LOAD CASE(S) Standard

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

Vert: 1-2=-70, 2-3=-70, 3-5=-70, 5-6=-70, 6-7=-70, 8-13=-20

Concentrated Loads (lb)

Vert: 12=-249(B) 11=-23(B) 4=-42(B) 9=-249(B) 14=-42(B) 15=-42(B) 16=-42(B) 17=-42(B) 18=-23(B) 19=-23(B) 20=-23(B) 21=-23(B) 20=-23(B) 21=-23(B) 20=-23(B) 21=-23(B) 20=-23(B) 20=-23(B)





	7-3-0		13-5-0		20-8-0			
Plate Offsets (X,Y)	[4:0-4-8.0-1-15], [7:0-2-13.0-6-6], [11:0-	1-8.0-3-9]	0-2-0		7-3-0			
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 0.76 BC 0.58 WB 0.20 Matrix-S	DEFL. in Vert(LL) -0.13 Vert(CT) -0.26 Horz(CT) 0.04 Wind(LL) 0.08	(loc) l/defl L/d 9-10 >999 360 9-10 >916 240 7 n/a n/a 9-10 >999 240	PLATES GRIP MT20 197/144 Weight: 64 lb FT = 10%			
LUMBER- TOP CHORD 2x4 SF 3-4: 2x BOT CHORD 2x4 SF WEBS 2x3 SF 2-11,5-	PF 2100F 1.8E *Except* 4 SPF No.2 PF No.2 PF No.2 *Except* -7: 2x8 SP DSS		BRACING- TOP CHORD BOT CHORD	Structural wood sheathing except end verticals, and 2 Rigid ceiling directly applied	directly applied or 5-3-2 oc purlins, -0-0 oc purlins (3-8-0 max.): 3-4. d or 10-0-0 oc bracing.			
REACTIONS. (size) 11=0-3-8, 7=0-3-8 Max Horz 11=39(LC 8) Max Uplift 11=-123(LC 4), 7=-123(LC 5) Max Grav 11=985(LC 1), 7=985(LC 1) FORCES. (lb) - Max. Comp./Max. Ten All forces 250 (lb) or less except when shown. TOP CHORD 2-3=-1447/171, 3-4=-1228/185, 4-5=-1447/171, 2-11=-897/163, 5-7=-897/163 BOT CHORD 10-11=-84/1231, 9-10=-86/1227, 7-9=-88/1231 WEBS 3-10=0/254, 4-9=0/254								
 WEBS 3-10-5 NOTES- 1) Unbalanced roof live 2) Wind: ASCE 7-16; V MWFRS (envelope) grip DOL=1.60 3) Provide adequate dir 4) This truss has been 5) * This truss has been will fit between the b 6) Provide mechanical 11=123, 7=123. 7) This truss is designer referenced standard 	=0/254, 4-9=0/254 e loads have been considered for this de /ult=115mph (3-second gust) Vasd=91m gable end zone; cantilever left and right rainage to prevent water ponding. designed for a 10.0 psf bottom chord liv n designed for a 10.0 psf bottom chord liv n designed for a live load of 20.0psf on t bottom chord and any other members. connection (by others) of truss to bearin ed in accordance with the 2018 Internation (ANSI/TPI 1.	sign. ph; TCDL=6.0psf; BCDL= exposed ; end vertical le e load nonconcurrent with he bottom chord in all are g plate capable of withsta onal Residential Code sec	=6.0psf; h=25ft; Cat. II; Ex ft and right exposed; Lum n any other live loads. aas where a rectangle 3-6 anding 100 lb uplift at joint ctions R502.11.1 and R80	αp C; Enclosed; ber DOL=1.60 plate i-0 tall by 2-0-0 wide t(s) except (jt=lb) 02.10.2 and	NUMBER E-2000162101			

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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MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60

3) Provide adequate drainage to prevent water ponding.

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

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

6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 13=137, 9=137.

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

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

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

5) 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 6) 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) 6, 2.

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

9) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 884 lb down and 28 lb up at 1-0-0, 883 lb down and 30 lb up at 3-0-0, 883 lb down and 30 lb up at 5-0-0, 883 lb down and 30 lb up at 7-0-0, 883 lb down and 30 lb up at 9-0-0, 883 lb down and 27 lb up at 11-0-0, 883 lb down at 13-0-0, 883 lb down at 15-0-0, and 884 lb down and 113 lb up at 17-0-0, and 1127 lb down and 241 lb up at 19-0-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

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

Continued on page 2





						RELEASE FOR CONSTRUCTION
Job	Truss	Truss Type	Qty	Ply	Lot 91 MN	AS NOTED FOR PLAN REVIEW
						DEVELOPMENT SERVER
210436	H4		1	3	Job Reference (optional)	LEE'S SUMMIT, MISSOURI
Wheeler Lumber, Wav	erly, KS - 66871,	ID:wWQ0c	8. VuS969af	430 s Apr ?GecLrtCN	20 2021 MiTek Industries, Inc IzdMNG-vLqa6huBJwufukCK	Thu Man 2014/59 19 2021 Page 2 W71Sale1 009crWrj WEMBZEROV 2

LOAD CASE(S) Standard

Uniform Loads (plf) Vert: 1-4=-70, 4-6=-70, 2-6=-20 Concentrated Loads (lb) Vert: 8=-883(F) 10=-884(F) 11=-883(F) 12=-883(F) 13=-883(F) 14=-883(F) 15=-883(F) 16=-883(F) 17=-884(F) 18=-1127(F)





LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/de	efl L/d	PLATES GRIP
TCLL 25.0	Plate Grip DOL 1.15	TC 0.17	Vert(LL) -0.01 4-5 >99	9 360	MT20 197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.09	Vert(CT) -0.01 4-5 >99	9 240	
BCLL 0.0 *	Rep Stress Incr NO	WB 0.00	Horz(CT) 0.00 3 n	/a n/a	
BCDL 10.0	Code IRC2018/TPI2014	Matrix-R	Wind(LL) 0.00 4-5 >99	9 240	Weight: 10 lb FT = 10%

TOP CHORD

BOT CHORD

LUMBER-

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

2x4 SPF No.2

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

Max Horz 5=59(LC 4) Max Uplift 5=-91(LC 4), 3=-52(LC 8)

Max Grav 5=276(LC 1), 3=90(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.
- 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.

7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 60 lb down and 42 lb up at 2-11-11 on top chord, and 12 lb down at 2-11-11 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

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

LOAD CASE(S) Standard

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

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

Vert: 7=-2(B)



Structural wood sheathing directly applied or 3-5-4 oc purlins,

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

except end verticals.





			2-5-2	
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 0.07 BC 0.04 WB 0.00 Matrix-R	DEFL. in (loc) l/defl L/d PLATES GRIP Vert(LL) -0.00 4-5 >999 360 MT20 197/144 Vert(CT) -0.00 4-5 >999 240 MT20 197/144 Horz(CT) -0.00 3 n/a n/a Wind(LL) 0.00 4-5 >999 240	

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

BRACING-TOP CHORD

BOT CHORD

Structural wood sheathing directly applied or 2-5-2 oc purlins, except end verticals.

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

REACTIONS.

3=Mechanical, 5=0-3-8, 4=Mechanical (size) Max Horz 5=45(LC 8)

Max Uplift 3=-36(LC 8), 5=-31(LC 4) Max Grav 3=62(LC 1), 5=188(LC 1), 4=41(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) 3, 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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		I	2-11-4	
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d	PLATES GRIP
TCDL 10.0	Lumber DOL 1.15	BC 0.06	Vert(CT) -0.01 4-5 >999 240	197/144
BCLL 0.0 * BCDL 10.0	Rep Stress Incr YES Code IRC2018/TPI2014	WB 0.00 Matrix-R	Horz(CT) -0.00 3 n/a n/a Wind(LL) 0.00 4-5 >999 240	Weight: 8 lb FT = 10%

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

BRACING-TOP CHORD

BOT CHORD

Structural wood sheathing directly applied or 2-11-4 oc purlins, except end verticals. Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 3=Mechanical, 5=0-3-8, 4=Mechanical Max Horz 5=54(LC 8)

Max Hold 5=54(LC 8)Max Uplift 3=-44(LC 8), 5=-31(LC 8)

Max Grav 3=80(LC 1), 5=208(LC 1), 4=51(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) 3, 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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F	2-8-5	3-2-15		
LOADING (psf) SPACING- 2-0-0 TCLL 25.0 Plate Grip DOL 1.15 TCDL 10.0 Lumber DOL 1.15 BCLL 0.0 * Rep Stress Incr YES BCDL 10.0 Code IRC2018/TPI2014	CSI. TC 0.53 BC 0.29 WB 0.00 Matrix-R	3-2-15 DEFL. in (loc) Vert(LL) -0.05 4-5 Vert(CT) -0.12 4-5 Horz(CT) 0.05 3 Wind(LL) 0.04 5	l/defl L/d >999 360 >597 240 n/a n/a >999 240	PLATES GRIP MT20 197/144 Weight: 16 lb FT = 10%

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

BRACING-TOP CHORD

BOT CHORD

Structural wood sheathing directly applied or 5-11-4 oc purlins, except end verticals. Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. 6=0-3-8, 3=Mechanical, 4=Mechanical (size) Max Horz 6=88(LC 8) Max Uplift 3=-60(LC 8) Max Grav 6=336(LC 1), 3=181(LC 1), 4=108(LC 3)

FORCES. (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) or less except when shown. TOP CHORD 2-6=-292/44

NOTES-

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

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

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

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

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

6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3.

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



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Plate Offse	ts (X,Y)	[5:0-5-9,0-1-8]										
LOADING	(psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	тс	0.52	Vert(LL)	-0.05	4-5	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.31	Vert(CT)	-0.11	4-5	>609	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.05	3	n/a	n/a		
BCDL	10.0	Code IRC2018/TF	PI2014	Matri	x-R	Wind(LL)	0.04	4-5	>999	240	Weight: 16 lb	FT = 10%
LUMBER-						BRACING-					·	

TOP CHORD

BOT CHORD

LUMBER-

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

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

Max Horz 5=89(LC 8)

Max Uplift 3=-60(LC 8) Max Grav 5=336(LC 1), 3=180(LC 1), 4=109(LC 3)

FORCES. (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) or less except when shown. TOP CHORD 2-5=-293/45

NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

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

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

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



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

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

except end verticals.

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			3-3-8			2-7-12				
LOADING (psf) SPACI TCLL 25.0 Plate C TCDL 10.0 Lumbe BCLL 0.0 * Rep St BCDL 10.0 Code	NG- 2-0-0 rip DOL 1.15 · DOL 1.15 ·ess Incr YES RC2018/TPI2014	CSI. TC BC WB Matri:	0.53 0.30 0.00 x-R	DEFL. Vert(LL) Vert(CT) Horz(CT) Wind(LL)	in -0.05 -0.12 0.05 0.04	(loc) 5 5-6 3 5-6	l/defl >999 >594 n/a >999	L/d 360 240 n/a 240	PLATES MT20 Weight: 16 lb	GRIP 197/144 FT = 10%

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

BRACING-

BOT CHORD

Structural wood sheathing directly applied or 5-11-4 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=88(LC 8) Max Uplift 3=-60(LC 8) Max Grav 6=336(LC 1), 3=181(LC 1), 4=108(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-6=-292/44

NOTES-

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

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

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

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

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

6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3.

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



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NiTek* 16023 Swingley Ridge Rd Chesterfield, MO 63017



				3-3-8				1-7-12			
LOADING (p TCLL 25 TCDL 10 BCLL	psf) 25.0 0.0 0.0 *	SPACING- 2-0- Plate Grip DOL 1.1 Lumber DOL 1.1 Rep Stress Incr YE) CSI. 5 TC 5 BC 8 WB	0.34 0.19 0.00	DEFL. Vert(LL) Vert(CT) Horz(CT)	in -0.02 -0.05 0.02	(loc) 5-6 5-6 3	l/defl >999 >999 n/a	L/d 360 240 n/a	PLATES MT20	GRIP 197/144
BCDL 10	0.0	Code IRC2018/TPI2014	Matrix	(-R	Wind(LL)	0.03	5-6	>999	240	Weight: 14 lb	FT = 10%

BRACING-

LUMBER-

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

2x4 SPF No.2

REACTIONS. (size) 6=0-3-8, 3=Mechanical, 4=Mechanical Max Horz 6=88(LC 8) Max Uplift 6=-39(LC 8), 3=-76(LC 8)

Max Grav 6=292(LC 1), 3=148(LC 1), 4=89(LC 3)

FORCES. (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) or less except when shown. TOP CHORD 2-6=-254/84

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Bearing at joint(s) 6 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 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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TOP CHORD Structural wood sheathing directly applied or 4-11-4 oc purlins, except end verticals. BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.



	1	2-0-12	0-4-6	
LOADING (psf) SPACING- 2-0-0 TCLL 25.0 Plate Grip DOL 1.15 TCDL 10.0 Lumber DOL 1.15 BCLL 0.0 * Rep Stress Incr YES BCDL 10.0 Code IRC2018/TPI2014	CSI. TC 0.07 BC 0.04 WB 0.00 Matrix-R	DEFL. in Vert(LL) -0.00 Vert(CT) -0.00 Horz(CT) -0.00 Wind(LL) 0.00	(loc) l/defl L/d 5 >999 360 5-6 >999 240 3 n/a n/a 5 >999 240	PLATES GRIP MT20 197/144 Weight: 8 lb FT = 10%

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

BRACING-TOP CHORD

Structural wood sheathing directly applied or 2-5-2 oc purlins, except end verticals.

REACTIONS. (size) 6=0-3-8, 3=Mechanical, 4=Mechanical Max Horz 6=46(LC 5) Max Uplift 6=-31(LC 4), 3=-37(LC 8)

Max Grav 6=188(LC 1), 3=62(LC 1), 4=41(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.



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BOT CHORD

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



LOADING	(psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.07	Vert(LL)	-0.00	5	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.03	Vert(CT)	-0.00	4-5	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.00	3	n/a	n/a		
BCDL	10.0	Code IRC2018/TF	12014	Matri	x-R	Wind(LL)	0.00	4-5	>999	240	Weight: 7 lb	FT = 10%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

2x4 SPF No.2

REACTIONS. (size) 5=0-3-8, 3=Mechanical, 4=Mechanical Max Horz 5=50(LC 8)

Max Uplift 5=-21(LC 8), 3=-38(LC 8)

Max Grav 5=179(LC 1), 3=53(LC 1), 4=36(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) 5 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 3.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

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

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

except end verticals.

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Will & PROXIM JUAN GARCIA NUMBER E -2000162101 T GIT S E ONAL min 16952 May 21,2021 May 21,2021



LOADING	(psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.06	Vert(LL)	-0.00	4	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.04	Vert(CT)	-0.00	3-4	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.00	2	n/a	n/a		
BCDL	10.0	Code IRC2018/TP	12014	Matrix	ĸ-R	Wind(LL)	0.00	3-4	>999	240	Weight: 6 lb	FT = 10%

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

BRACING-

Structural wood sheathing directly applied or 2-2-6 oc purlins, except end verticals.

REACTIONS. 4=0-3-8, 2=Mechanical, 3=Mechanical (size)

Max Horz 4=39(LC 5) Max Uplift 2=-42(LC 8)

Max Grav 4=91(LC 1), 2=68(LC 1), 3=40(LC 3)

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

NOTES-

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



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TOP CHORD BOT CHORD

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



LOADING	(psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	тс	0.19	Vert(LL)	0.00	5	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.05	Vert(CT)	-0.00	5	>999	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.00	Horz(CT)	-0.00	3	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2	2014	Matrix	k-R	Wind(LL)	-0.00	5	>999	240	Weight: 7 lb	FT = 10%

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

BRACING-TOP CHORD BOT CHORD

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

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

Max Horz 5=41(LC 4) Max Uplift 5=-96(LC 4), 3=-21(LC 8)

Max Grav 5=238(LC 1), 3=33(LC 31), 4=30(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) 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) 51 lb down and 16 lb up at 1-5-12 on top chord, and 3 lb down and 4 lb up at 1-5-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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

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

Vert: 7=4(F)







Plate Offsets (X,Y)	[5:0-5-6,0-1-8]								
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 0.19 BC 0.05 WB 0.00	DEFL. in Vert(LL) 0.00 Vert(CT) -0.00 Horz(CT) -0.00	(loc) 5 5 3	l/defl >999 >999 n/a	L/d 360 240 n/a	PLATES MT20	GRIP 197/144	
BCDL 10.0	Code IRC2018/TPI2014	Matrix-R	Wind(LL) -0.00	5	>999	240	Weight: 7 lb	FT = 10%	
LUMBER-			BRACING-						

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

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

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

Max Horz 5=41(LC 4) Max Uplift 5=-96(LC 4), 3=-21(LC 8)

Max Grav 5=238(LC 1), 3=33(LC 31), 4=30(LC 3)

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

NOTES-

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

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

7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 51 lb down and 16 lb up at 1-5-12 on top chord, and 3 lb down and 4 lb up at 1-5-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

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

LOAD CASE(S) Standard

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

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

Vert: 7=4(B)



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		0-:	2-0 1-1-5					
LOADING (psf) 9 TCLL 25.0 F TCDL 10.0 E BCLL 0.0 * F BCDL 10.0 C	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2018/TPI2014	CSI. TC 0.07 BC 0.02 WB 0.00 Matrix-R	DEFL. Vert(LL) 0.0 Vert(CT) -0.0 Horz(CT) -0.0 Wind(LL) 0.0	in (loc) 00 5 00 5 00 3 00 3	l/defl >999 >999 n/a >999	L/d 360 240 n/a 240	PLATES MT20 Weight: 5 lb	GRIP 197/144 FT = 10%

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

BRACING-

BOT CHORD

Structural wood sheathing directly applied or 1-3-5 oc purlins, except end verticals. Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 3=Mechanical, 4=Mechanical, 5=0-3-8 Max Horz 5=33(LC 5)

Max Uplift 3=-16(LC 8), 5=-37(LC 4) Max Grav 3=15(LC 1), 4=19(LC 3), 5=154(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) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 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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		0-2-0	1-7-12		-	
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 0.07 BC 0.02 WB 0.00 Matrix-R	DEFL. in Vert(LL) -0.00 Vert(CT) -0.00 Horz(CT) -0.00 Wind(LL) 0.00	(loc) l/defl 5 >999 5 >999 3 n/a 5 >999	L/d 360 240 n/a 240	PLATES GRIP MT20 197/144 Weight: 6 lb FT = 10%

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

BRACING-TOP CHORD

Structural wood sheathing directly applied or 1-9-12 oc purlins, except end verticals. Rigid ceiling directly applied or 10-0-0 oc bracing.

BOT CHORD Rigid ceiling directly applied or 10-0-0 oc b

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

Max Horz 5=39(LC 5)

Max Uplift 3=-26(LC 8), 5=-33(LC 4) Max Grav 3=40(LC 1), 4=30(LC 3), 5=168(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) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 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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Plate Off	sets (X,Y)	[5:0-5-6,0-1-8]										
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	0.25	Vert(LL)	-0.01	4-5	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.16	Vert(CT)	-0.03	4-5	>999	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.00	Horz(CT)	0.01	3	n/a	n/a		
BCDL	10.0	Code IRC2018/TP	2014	Matri	ĸ-R	Wind(LL)	0.01	4-5	>999	240	Weight: 12 lb	FT = 10%

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

BRACING-TOP CHORD BOT CHORD

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

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

Max Horz 5=70(LC 4) Max Uplift 5=-98(LC 4), 3=-66(LC 8)

Max Grav 5=308(LC 1), 3=121(LC 1), 4=78(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-5=-272/128

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.

7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 64 lb down and 14 lb up at 1-9-6, and 71 lb down and 50 lb up at 3-5-14 on top chord, and 4 lb down and 9 lb up at 1-9-6, and 14 lb down at 3-5-14 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

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

LOAD CASE(S) Standard

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

Vert: 1-2=-70, 2-3=-70, 4-5=-20 Concentrated Loads (lb) Vert: 7=-0(F) 8=5(B) 9=-4(F)



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			2-9-14	
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 0.08 BC 0.06 WB 0.00 Matrix-R	DEFL. in (loc) l/defl L/d Vert(LL) -0.00 4-5 >999 360 Vert(CT) -0.00 4-5 >999 240 Horz(CT) -0.00 3 n/a n/a Wind(LL) 0.00 4-5 >999 240	PLATES GRIP MT20 197/144 Weight: 8 lb FT = 10%

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

BRACING-TOP CHORD

BOT CHORD

Structural wood sheathing directly applied or 2-9-14 oc purlins, except end verticals. Rigid ceiling directly applied or 10-0-0 oc bracing.

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

Max Horz 5=52(LC 8) Max Uplift 3=-43(LC 8), 5=-31(LC 8)

Max Grav 3=77(LC 1), 5=203(LC 1), 4=48(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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 5.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



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WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to preven tbuckling 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 sand 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

MITEK 16023 Swingley Ridge Rd Chesterfield, MO 63017



				3-7-4	
LOADING TCLL TCDL BCLL	G (psf) 25.0 10.0 0.0 *	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES	CSI. TC 0.16 BC 0.10 WB 0.00	DEFL. in (loc) l/defl L/d P Vert(LL) -0.01 4-5 >999 360 M Vert(CT) -0.01 4-5 >999 240 Horz(CT) 0.01 3 n/a n/a	YLATES GRIP 1T20 197/144
BCDL	10.0	Code IRC2018/TPI2014	Matrix-R	Wind(LL) 0.01 4-5 >999 240 V	Veight: 10 lb FT = 10%

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

BRACING-TOP CHORD

BOT CHORD

Structural wood sheathing directly applied or 3-7-4 oc purlins, except end verticals. Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. 3=Mechanical, 5=0-3-8, 4=Mechanical (size) Max Horz 5=65(LC 8)

Max Uplift 3=-55(LC 8), 5=-34(LC 8)

Max Grav 3=103(LC 1), 5=235(LC 1), 4=64(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) 3, 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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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 0.07 BC 0.02 WB 0.00 Matrix-R	DEFL. in Vert(LL) 0.00 Vert(CT) 0.00 Horz(CT) -0.00 Wind(LL) 0.00	(loc) 5 5 3 5	l/defl >999 >999 n/a >999	L/d 360 240 n/a 240	PLATES MT20 Weight: 4 lb	GRIP 197/144 FT = 10%
			DD 4 011/0					

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

BRACING-TOP CHORD BOT CHORD

Structural wood sheathing directly applied or 1-1-1 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=34(LC 5) Max Uplift 5=-23(LC 8), 3=-14(LC 8), 4=-3(LC 5)

Max Grav 5=153(LC 1), 3=6(LC 15), 4=15(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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 3, 4.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



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16023 Swingley Ridge Rd Chesterfield, MO 63017



Plate Offsets (X Y) [6:0-3-0 0-0-8] [8:0-5-9 0-1-8]												
1 1410 0110	.0.0 (7.,17)		<u></u>									
LOADING	(psf)	SPACING- 2	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.44	Vert(LL)	-0.06	5-6	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.43	Vert(CT)	-0.13	5-6	>530	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.06	5	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI20	014	Matrix	-R	Wind(LL)	0.05	5-6	>999	240	Weight: 18 lb	FT = 10%

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

BRACING-TOP CHORD Structural wood sheathing directly applied or 5-11-4 oc purlins, except end verticals. BOT CHORD

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

REACTIONS. (size) 8=0-3-8, 4=Mechanical, 5=Mechanical Max Horz 8=89(LC 8) Max Uplift 4=-49(LC 8) Max Grav 8=354(LC 1), 4=167(LC 1), 5=116(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-8=-345/13

NOTES-

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

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

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

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

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

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			3-	-0-3	1				9-1-0				
			3-	5-3					5-8-5				
Plate Offs	sets (X,Y)	[3:0-7-13,0-1-8], [5:Edge,0-	2-8]										
LOADING	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL	25.0	Plate Grip DOL	1.15	тс	0.69	Vert(LL)	-0.17	6	>610	360	MT20	197/144	
TCDL	10.0	Lumber DOL	1.15	BC	0.46	Vert(CT)	-0.34	6	>315	240			
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.03	Horz(CT)	0.12	5	n/a	n/a			
BCDL	10.0	Code IRC2018/TPI2	2014	Matrix	k-R	Wind(LL)	0.19	6	>553	240	Weight: 39 lb	FT = 10%	

BRACING-

LUMBER-

2x6 SPF No.2 TOP CHORD BOT CHORD 2x4 SPF No.2 *Except* 3-5: 2x6 SPF No.2 WEBS 2x3 SPF No.2 *Except* 2-7: 2x4 SPF No.2

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

REACTIONS. (size) 7=0-4-9, 5=Mechanical Max Horz 7=137(LC 5)

Max Uplift 7=-140(LC 4), 5=-198(LC 8) Max Grav 7=571(LC 1), 5=688(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-7=-541/163. 4-5=-296/122

NOTES-

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

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

- * This truss has been designed for a 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) except (jt=lb) 7=140. 5=198.
- 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) 76 lb down and 44 lb up at 2-11-11, 67 lb down and 42 lb up at 3-6-4, and 108 lb down and 68 lb up at 6-1-3, and 88 lb down and 59 lb up at 6-1-8 on top chord, and 5 lb down at 2-11-11, 47 lb down and 32 lb up at 6-1-3, and 39 lb down and 29 lb up at 6-1-8, and 215 lb down and 80 Ib up at 9-0-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others. 8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf) Vert: 1-2=-70, 2-4=-70, 6-7=-20, 3-5=-20
 - Concentrated Loads (lb)

Vert: 5=-215(B) 10=-27(F=-19, B=-9) 11=-1(F) 13=-85(F=-47, B=-38)

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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LUMBER-						В	RACING-								
BCDL	10.0	Code IRC2018/TPI	2014	Matrix	k-R	W	/ind(LL)	0.01	6	>999	240	W	/eight: 13 lb	FT = 10%	
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	H	orz(CT)	0.01	5	n/a	n/a				
TCDL	10.0	Lumber DOL	1.15	BC	0.15	V V	ert(CT)	-0.02	7	>999	240				
TCLL	25.0	Plate Grip DOL	1.15	TC	0.14	V	ert(LL)	-0.01	6	>999	360	M	T20	197/144	
LOADING	(psf)	SPACING-	2-0-0	CSI.		D	EFL.	in	(loc)	l/defl	L/d	PI PI	LATES	GRIP	

 LUMBER BRACING

 TOP CHORD
 2x4 SPF No.2
 TOP CHORD
 Structural wood sheathing directly applied or 3-10-7 oc purlins, except end verticals.

 BOT CHORD
 2x4 SPF No.2 *Except*
 except end verticals.

 6-7: 2x3 SPF No.2
 BOT CHORD
 BOT CHORD

 WEBS
 2x4 SPF No.2
 BOT CHORD

REACTIONS. (size) 8=0-3-8, 4=Mechanical, 5=Mechanical Max Horz 8=84(LC 8) Max Uplift 8=-17(LC 8), 4=-51(LC 8), 5=-3(LC 8) Max Grav 8=261(LC 1), 4=100(LC 1), 5=85(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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 8, 4, 5.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



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		2-3-0		4-9-1	,	1		
	F	2-3-8		2-6-7		1		
Plate Offsets (X,Y)	[6:0-2-0,0-0-8]							
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL.	n (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL 1.15	TC 0.24	Vert(LL) -0.0	3 6	>999	360	MT20	197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.27	Vert(CT) -0.0	5 5-6	>999	240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT) 0.0	35	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014	Matrix-R	Wind(LL) 0.0	36	>999	240	Weight: 15 lb	FT = 10%
LUMBER-	-		BRACING-					

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

TOP CHORD Structural wood sheathing directly applied or 4-9-15 oc purlins, except end verticals. BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=Mechanical, 8=0-3-8, 5=Mechanical Max Horz 8=86(LC 8) Max Uplift 4=-57(LC 8), 8=-33(LC 8), 5=-1(LC 8) Max Grav 4=128(LC 1), 8=298(LC 1), 5=94(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-8=-287/59

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 8, 5.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



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MiTek 16023 Swingley Ridge Rd Chesterfield, MO 63017



			1	2	-3-8	I	3-2-	15		1		
Plate Offs	sets (X,Y)	[6:0-2-0,0-0-8], [8:0-5-9,0-	1-8]									
LOADING TCLL TCDL BCLL	G (psf) 25.0 10.0 0.0 *	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr	2-0-0 1.15 1.15 YES	CSI. TC BC WB	0.30 0.31 0.00	DEFL. Vert(LL) Vert(CT) Horz(CT)	in -0.03 -0.07 0.04	(loc) 5-6 5-6 5	l/defl >999 >874 n/a	L/d 360 240 n/a	PLATES MT20	GRIP 197/144
BCDL	10.0	Code IRC2018/1P	12014	Matrix	K-K	vvind(LL)	0.04	5-6	>999	240	Weight: 19 lb	FI = 10%

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

4-5: 2x3 SPF No.2 REACTIONS. (size) 8=0-3-8, 5=Mechanical

Max Horz 8=126(LC 5) Max Uplift 8=-48(LC 8), 5=-64(LC 8) Max Grav 8=316(LC 1), 5=231(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-8=-305/76

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) 8, 5.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



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Plate OI	sets (X, Y)	[5:0-5-9,0-1-8]										
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	тс	0.07	Vert(LL)	-0.00	5	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.03	Vert(CT)	-0.00	4-5	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.00	3	n/a	n/a		
BCDL	10.0	Code IRC2018/TP	12014	Matri	ĸ-R	Wind(LL)	0.00	4-5	>999	240	Weight: 7 lb	FT = 10%
LUMBER	2-					BRACING						

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

2x4 SPF No.2

TOP CHORD BOT CHORD

Structural wood sheathing directly applied or 2-2-7 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=50(LC 8) Max Uplift 5=-22(LC 8), 3=-37(LC 8)

Max Grav 5=179(LC 1), 3=54(LC 1), 4=36(LC 3)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 3.
- 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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Plate Offsets (X,Y)	[5:0-5-6,0-1-8]			
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 0.48 BC 0.30 WB 0.00 Matrix-R	DEFL. in (loc) l/defl L/d Vert(LL) -0.04 4-5 >999 360 Vert(CT) -0.09 4-5 >769 240 Horz(CT) -0.00 4 n/a n/a Wind(LL) 0.02 4-5 >999 240	
LUMBER-			BRACING-	

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

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

TOP CHORD BOT CHORD

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

NO * PROM

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REACTIONS. (size) 5=0-4-9, 4=Mechanical Max Horz 5=113(LC 5) Max Uplift 5=-113(LC 4), 4=-74(LC 8) Max Grav 5=378(LC 1), 4=280(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-5=-333/155

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4 except (jt=lb) 5=113.
- 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) 64 lb down and 30 lb up at 2-7-13, and 75 lb down and 42 lb up at 2-10-8, and 74 lb down and 63 lb up at 5-3-1 on top chord, and 4 lb down and 2 lb up at 2-7-13, and 4 lb down at 2-10-8, and 23 lb down at 5-3-1 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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

Vert: 1-2=-70, 2-3=-70, 4-5=-20 Concentrated Loads (lb) Vert: 7=-29(B) 8=2(F=-0, B=2) 9=-16(B) ONALE ONALE UNAN GARCIA ICENSED 16952 May 21,2021

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	(nsf)	SPACING-	2-0-0	CSI		DEFI	in	(loc)	l/defl	l /d	PLATES	GRIP
	(poi)	Dists Oris DOI	200	TO.	0.40		0.00	(100)	000	200	MTOO	407/444
CLL	25.0	Plate Grip DOL	1.15		0.13	Vert(LL)	-0.00	4-5	>999	360	IVI I 20	197/144
CDL	10.0	Lumber DOL	1.15	BC	0.08	Vert(CT)	-0.01	4-5	>999	240		
CLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.01	3	n/a	n/a		
SCDL	10.0	Code IRC2018/T	PI2014	Matri	x-R	Wind(LL)	0.01	4-5	>999	240	Weight: 10 lb	FT = 10%

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

BRACING-TOP CHORD BOT CHORD

Structural wood sheathing directly applied or 3-3-12 oc purlins, except end verticals. Rigid ceiling directly applied or 10-0-0 oc bracing.

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

Max Horz 5=73(LC 8) Max Uplift 5=-24(LC 8), 3=-57(LC 8)

Max Grav 5=223(LC 1), 3=93(LC 1), 4=58(LC 3)

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

NOTES-

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



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LOADING (psf) SPACING- 2-0-0 CSI. DEFL. in (loc) I/defl L/d PLATES GRIF	IP
TCLL 25.0 Plate Grip DOL 1.15 TC 0.19 Vert(LL) -0.01 4-5 >999 360 MT20 197/	'/144
TCDL 10.0 Lumber DOL 1.15 BC 0.12 Vert(CT) -0.02 4-5 >999 240	
BCLL 0.0 * Rep Stress Incr YES WB 0.00 Horz(CT) -0.01 3 n/a n/a	
BCDL 10.0 Code IRC2018/TPI2014 Matrix-R Wind(LL) 0.01 4-5 >999 240 Weight: 11 lb F	FT = 10%

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

BRACING-TOP CHORD BOT CHORD

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

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

Max Horz 5=84(LC 8) Max Uplift 5=-26(LC 8), 3=-66(LC 8)

Max Grav 5=246(LC 1), 3=112(LC 1), 4=69(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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LOADING	(psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.07	Vert(LL)	-0.00	5	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.02	Vert(CT)	-0.00	5	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.00	3	n/a	n/a		
BCDL	10.0	Code IRC2018/TF	912014	Matri	x-R	Wind(LL)	0.00	5	>999	240	Weight: 6 lb	FT = 10%

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

BRACING-TOP CHORD BOT CHORD

Structural wood sheathing directly applied or 1-7-12 oc purlins, except end verticals. Rigid ceiling directly applied or 10-0-0 oc bracing.

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

Max Horz 5=41(LC 5) Max Uplift 5=-22(LC 8), 3=-27(LC 8)

Max Grav 5=163(LC 1), 3=33(LC 1), 4=26(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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			2-4-4	
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 IRC2018/TPI/014	CSI. TC 0.07 BC 0.03 WB 0.00	DEFL. in (loc) l/defl L/d Vert(LL) -0.00 5 >999 360 Vert(CT) -0.00 4-5 >999 240 Horz(CT) -0.00 3 n/a n/a Wind(LL) 0.00 4.5 >000 240	PLATES GRIP MT20 197/144
BCDL 10.0	Code IRC2018/1PI2014	Matrix-R	Wind(LL) 0.00 4-5 >999 240	vveight: 7 lb $FI = 10\%$

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

2x4 SPF No.2

BRACING-TOP CHORD

BOT CHORD

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

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

Max Horz 5=44(LC 8)

Max Uplift 3=-35(LC 8), 5=-32(LC 4) Max Grav 3=59(LC 1), 5=185(LC 1), 4=39(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) 3, 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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Vert: 1-4=-70, 2-6=-20, 5-6=-20 Concentrated Loads (lb)

Vert: 5=-215(F) 9=-61(F=-22, B=-39) 10=-4(B) 11=0(F) 12=-44(F=-16, B=-28)

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

MiTek

May 21,2021

16023 Swingley Ridge Rd Chesterfield, MO 63017



	2-8	I-5	1-2-2			
LOADING (psf) SPACING- 2-0-0 TCLL 25.0 Plate Grip DOL 1.15 TCDL 10.0 Lumber DOL 1.15 BCLL 0.0 * Rep Stress Incr YES BCDL 10.0 Code IRC2018/TPI2014	CSI. TC 0.19 BC 0.11 WB 0.00 Matrix-R	DEFL. i Vert(LL) -0.0 Vert(CT) -0.0 Horz(CT) -0.0 Wind(LL) 0.0	n (loc) l/defl 1 5-6 >999 2 5-6 >999 1 3 n/a 1 5-6 >999	L/d 360 240 n/a 240	PLATES MT20 Weight: 11 lb	GRIP 197/144 FT = 10%

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

BRACING-TOP CHORD

Structural wood sheathing directly applied or 3-10-7 oc purlins, except end verticals. Rigid ceiling directly applied or 6-0-0 oc bracing.

BOT CHORD

REACTIONS. (size) 6=0-3-8, 3=Mechanical, 4=Mechanical

Max Horz 6=83(LC 8) Max Uplift 6=-24(LC 8), 3=-67(LC 8)

Max Grav 6=246(LC 1), 3=113(LC 1), 4=69(LC 3)

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

NOTES-

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



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LOADING	i (psf)	SPACING- 2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL 1.15	TC 0.07	Vert(LL)	-0.00	5	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL 1.15	BC 0.03	Vert(CT)	-0.00	4-5	>999	240		
BCLL	0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT)	-0.00	3	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014	Matrix-R	Wind(LL)	0.00	4-5	>999	240	Weight: 7 lb	FT = 10%

BRACING-

LUMBER-

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

2x4 SPF No.2

TOP CHORD Structural wood sheathing directly applied or 2-2-7 oc purlins, except end verticals.

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

REACTIONS. (size) 5=0-3-8, 3=Mechanical, 4=Mechanical Max Horz 5=49(LC 8)

Max Uplift 5=-21(LC 8), 3=-38(LC 8) Max Grav 5=179(LC 1), 3=54(LC 1), 4=36(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) 5 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 3.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



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			3-3-8 3-3-8		4-9-15 1-6-7				
Plate Offsets (X,Y)	[1:0-3-9,0-2-4]								
LOADING (psf) TCLL 25.0	SPACING- Plate Grip DOL	2-0-0	CSI. TC 0.15	DEFL. Vert(LL) -	in (loc) l/defl 0.01 4 >999	L/d 360	PLATES MT20	GRIP 197/144	

TOP CHORD

BOT CHORD

LUMBER	?-			BRACING-					
BCDL	10.0	Code IRC2018/TPI2014	Matrix-P	Wind(LL) 0.01	4	>999	240	Weight: 18 lb	FT = 10%
BCLL	0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT) 0.01	3	n/a	n/a		
TCDL	10.0	Lumber DOL 1.15	BC 0.14	Vert(CT) -0.02	4	>999	240		
TCLL	25.0	Plate Grip DOL 1.15	TC 0.15	Vert(LL) -0.01	4	>999	360	MT20	197/144

LUMBER-

TOP CHORD 2x6 SPF No.2 BOT CHORD 2x6 SPF No.2 *Except* 3-4: 2x4 SPF No.2

REACTIONS.

Max Horz 1=94(LC 8)

Max Uplift 1=-16(LC 8), 2=-75(LC 8) Max Grav 1=208(LC 1), 2=148(LC 1), 3=85(LC 3)

(size) 1=0-3-8, 2=Mechanical, 3=Mechanical

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

NOTES-

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



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Structural wood sheathing directly applied or 4-9-15 oc purlins.

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





LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL.	in (loc)	l/defl L/d	PLATES GRIP
TCLL 25.0	Plate Grip DOL 1.15	TC 0.08	Vert(LL) -0).00 3-4	>999 360	MT20 197/144
BCLL 0.0 * BCDL 10.0	Lumber DOL 1.15 Rep Stress Incr YES Code IRC2018/TPI2014	BC 0.04 WB 0.00 Matrix-R	Vert(CT) -0 Horz(CT) -0 Wind(LL) 0	0.00 3-4 0.00 2 0.00 3-4	>999 240 n/a n/a >999 240	Weight: 6 lb FT = 10%

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

BRACING-

BOT CHORD

Structural wood sheathing directly applied or 2-5-2 oc purlins, except end verticals. Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) 4=0-3-8, 2=Mechanical, 3=Mechanical Max Horz 4=37(LC 5) Max Uplift 4=-3(LC 8), 2=-41(LC 8)

Max Grav 4=102(LC 1), 2=75(LC 1), 3=44(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) 4 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 2.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



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16023 Swingley Ridge Rd Chesterfield, MO 63017



		<u>2-8-5</u> 2-8-5	2	5-6-7 -10-2		
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 0.30 BC 0.22 WB 0.02 Matrix-R	DEFL. in Vert(LL) -0.06 Vert(CT) -0.10 Horz(CT) 0.04 Wind(LL) 0.07	(loc) l/defi 6 >999 6 >625 5 n/a 6 >951	l L/d 360 5 240 a n/a 240	PLATES GRIP MT20 197/144 Weight: 18 lb FT = 10%

BRACING-

BOT CHORD

LUMBER-

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

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

Max Horz 7=127(LC 5) Max Uplift 7=-47(LC 8), 5=-65(LC 8)

Max Grav 7=316(LC 1), 5=231(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-7=-270/54

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) 7 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.

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

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



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Structural wood sheathing directly applied or 5-6-7 oc purlins,

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

except end verticals.





Max Grav All reactions 250 lb or less at joint(s) 1, 5, 7, 8, 6

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, 5 except (jt=lb) 8=185. 6=185.

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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TOP CHORD2x4 SPF No.2BOT CHORD2x4 SPF No.2OTHERS2x4 SPF No.2

TOP CHORD BOT CHORD

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

REACTIONS. (size) 1=3-11-10, 3=3-11-10, 4=3-11-10 Max Horz 1=62(LC 5) Max Uplift 1=-29(LC 9), 3=-24(LC 8) Max Grav 1=98(LC 1), 3=98(LC 1), 4=107(LC 1)

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

NOTES-

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

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

3) Gable requires continuous bottom chord bearing.

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

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, 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} 15 14 13 12 11 10

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LOADING (ps TCLL 25 TCDL 10 BCLL 0 BCDL 10	osf) 5.0 0.0 0.0 * 0.0	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr Code IRC2018/TP	2-0-0 (1.15 1.15 YES 12014	ESI. C 0.07 C 0.03 VB 0.12 Matrix-S	DEFL. Vert(LL) Vert(CT) Horz(CT)	in n/a n/a -0.00	(loc) l, - - 9	/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20 Weight: 88 lb	GRIP 197/144 FT = 10%
LUMBER- TOP CHORD BOT CHORD WEBS OTHERS	2x4 SPF 2x4 SPF 2x4 SPF 2x4 SPF 2x4 SPF	= No.2 = No.2 = No.2 = No.2			BRACING- TOP CHORE BOT CHORE WEBS) S 6 0 F	Structural except en Rigid ceili 1 Row at	l wood s nd vertica ing direc midpt	heathing dir als. ctly applied o 8	ectly applied or 6-0-0 or 10-0-0 oc bracing. -9, 7-10, 6-11	oc purlins,

REACTIONS. All bearings 13-6-10.

(lb) - Max Horz 1=496(LC 8)

Max Uplift All uplift 100 lb or less at joint(s) 9, 15 except 1=-142(LC 6), 10=-107(LC 8), 11=-105(LC 8), 12=-104(LC 8), 13=-104(LC 8), 14=-107(LC 8)

Max Grav All reactions 250 lb or less at joint(s) 9, 10, 11, 12, 13, 14, 15 except 1=442(LC 8)

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

TOP CHORD 1-2=-658/247, 2-3=-574/218, 3-4=-467/179, 4-5=-364/142, 5-6=-260/107

NOTES-

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

2) All plates are 2x4 MT20 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) 9, 15 except (jt=lb) 1=142, 10=107, 11=105, 12=104, 13=104, 14=107.

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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						REL	EASE FOR CONSTRUCTION
Job	Truss	Truss Type	Qty	Ply	Lot 91 MN	AS	NOTED FOR PLAN REVIEW
210436	LAY4	GABLE	1	1	Job Reference (option	L la	LEE'S SUMMIT, MISSOURI
Wheeler Lumber, Wav	⊥ rerly, KS - 66871,) () () () () () () () () () () () () ()	3.430 s Ap	20 2021 MiTek Industr	ies, Inc Thu May 2	
		0 ₁ 10-9 9-3	-0 -0 -0		SNZOWING-SNK22ZIUY		
		0-10-9 8-4	-/				
		I		7			Scale = 1:73.2
		11 18 12	/				
		11.10 12	6				
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		3x6    3x4 =	10 9	0			
		9-3-0					
		9-3-0					
LOADING (psf)	SPACING- 2-0-0 Plate Grip DOI 1.15	CSI. DEFL	. i	n (loc)	l/defl L/d	PLATES	GRIP
TCDL 10.0	Lumber DOL 1.15	BC 0.08 Vert(C	CT) n/	a -	n/a 999	WI 20	137/144
BCDL 0.0 * BCDL 10.0	Code IRC2018/TPI2014	B WB 0.29 Horz( Matrix-S	CT) -0.0	0 8	n/a n/a	Weight: 81	lb FT = 10%
LUMBER-		BRAC	ING-				
TOP CHORD 2x4 SPF N BOT CHORD 2x4 SPF N	lo.2 lo.2	TOP C	HORD	Structu except	ral wood sheathing dir end verticals and 2-0	ectly applied or 6-0	)-0 oc purlins, ( max ): 1-2
WEBS 2x4 SPF N	lo.2 *Except*	BOT C	HORD	Rigid co	eiling directly applied	or 10-0-0 oc bracin	g.
OTHERS 2x4 SPF N	IO.2	WEBS	)	1 ROW	at midpt /	-8, 6-9, 5-10	
REACTIONS. All bearir	ngs 9-3-0.						
(lb) - Max Horz Max Holift	13=274(LC 5) All uplift 100 lb or less at ic	sint(s) 13, 8 except 9-101/LC 8), 10-117/LC	8) 1172				
Max Opint	12=-362(LC 6)		0), 11- 72	. T(LO 0),			E MILL
Max Grav	All reactions 250 lb or less	at joint(s) 13, 8, 9, 10 except 11=524(LC 6), 1	2=751(LC	8)		INTE.	F MISSO
FORCES. (lb) - Max. Cor TOP CHORD 3-4=-349	mp./Max. Ten All forces 25 //133, 4-5=-266/109	0 (lb) or less except when shown.				5	
BOT CHORD 12-13=-2 WEBS 3-12=-73	269/171, 11-12=-269/171 25/443_3-11=-445/702					E. C	GARCIA
NOTES						Ξ.	1^E
1) Wind: ASCE 7-16; Vult=	115mph (3-second gust) Va	sd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25	oft; Cat. II;	Exp C; En	closed;	PR. N	
MWERS (envelope) gab DOL=1.60	ble end zone; cantilever left a	nd right exposed ; end vertical left exposed; L	umber DO	L=1.60 pla	ite grip	0. E-2	000162101
<ol> <li>Provide adequate draina</li> <li>All plates are 2x4 MT20</li> </ol>	age to prevent water ponding unless otherwise indicated.	l.				1,SSI	ENGIN
<ul> <li>4) Gable requires continuo</li> <li>5) This trues has been deep</li> </ul>	bus bottom chord bearing.	word live lead papage urrent with any other live	va laada			111	IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII
6) * This truss has been de	esigned for a live load of 20.0	psf on the bottom chord in all areas where a r	ectangle 3	-6-0 tall by	/ 2-0-0 wide		MUIL.
will fit between the botto 7) Provide mechanical con	om chord and any other mem inection (by others) of truss to	bers. o bearing plate capable of withstanding 100 lb	uplift at jo	int(s) 13, 8	8 except	1110	AN GARCIN
(jt=lb) 9=101, 10=117, 1	1=721, 12=362.	nternational Residential Code sections R502 1	1 1 and R	R02 10 2 s	und	31 S	CENSE
referenced standard AN	ISI/TPI 1.				una	- E / `	$\sim 12$
9) Graphical purlin represe	entation does not depict the s	ize or the orientation of the purlin along the to	p and/or bo	DITOM CHOI	a.		6952
						P	



MI MiTek 16023 Swingley Ridge Rd Chesterfield, MO 63017



TOP CHORD2x4 SPF No.2BOT CHORD2x4 SPF No.2OTHERS2x4 SPF No.2

BRACING-TOP CHORD BOT CHORD

Structural wood sheathing directly applied or 5-6-2 oc purlins. Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 1=5-5-12, 3=5-5-12, 4=5-5-12 Max Horz 1=90(LC 5) Max Uplift 1=-43(LC 9), 3=-35(LC 8) Max Grav 1=143(LC 1), 3=143(LC 1), 4=157(LC 1)

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

### NOTES-

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

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

3) Gable requires continuous bottom chord bearing.

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

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, 3.

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



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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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NiTek° 16023 Swingley Ridge Rd Chesterfield, MO 63017



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 0.57 BC 0.31 WB 0.00 Matrix-P	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 Weight: 16 lb	<b>GRIP</b> 197/144 FT = 10%
LUMBER-			BRACING-					

TOP CHORD

BOT CHORD

LUMBER-

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

REACTIONS. 1=6-2-11, 3=6-2-11 (size) Max Horz 1=99(LC 5) Max Uplift 1=-36(LC 8), 3=-55(LC 8)

Max Grav 1=244(LC 1), 3=244(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 6-3-4 oc purlins,

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

except end verticals.





LOADING (psf) TCLL 25.0 TCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15	<b>CSI.</b> TC 0.23 BC 0.12	DEFL. in Vert(LL) n/a Vert(CT) n/a	(loc) - -	l/defl n/a n/a	L/d 999 999	PLATES MT20	<b>GRIP</b> 197/144
BCLL 0.0 * BCDL 10.0	Rep Stress Incr YES Code IRC2018/TPI2014	WB 0.00 Matrix-P	Horz(CT) -0.00	3	n/a	n/a	Weight: 10 lb	FT = 10%
LUMBER-			BRACING-					

TOP CHORD

BOT CHORD

LUMBER-

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

REACTIONS. 1=4-4-3, 3=4-4-3 (size) Max Horz 1=65(LC 5)

Max Uplift 1=-23(LC 8), 3=-36(LC 8) Max Grav 1=159(LC 1), 3=159(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 4-4-12 oc purlins,

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

except end verticals.











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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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.

 Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 4 except (jt=lb) 5=150.

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.



NITEK° 16023 Swingley Ridge Rd Chesterfield, MO 63017



BOLL 0.0 Rep Stress Incr FES WB 0.06 Hol2(CT	T) -0.00 4 n/a n/a
BCDL 10.0 Code IRC2018/TPI2014 Matrix-P	Weight: 22 lb $FI = 10\%$

TOP CHORD

BOT CHORD

# LUMBER-

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

REACTIONS. (size) 1=8-2-3, 4=8-2-3, 5=8-2-3 Max Horz 1=135(LC 5)

Max Uplift 4=-23(LC 8), 5=-110(LC 8) Max Grav 1=112(LC 1), 4=136(LC 1), 5=416(LC 1)

FORCES. (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) or less except when shown. 2-5=-323/166 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 except (jt=lb) 5 = 110

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.





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 0.48 BC 0.26 WB 0.00 Matrix-P	DEFL.         in         (loc)         l/defl         L/d         PLATES           Vert(LL)         n/a         -         n/a         999         MT20           Vert(CT)         n/a         -         n/a         999           Horz(CT)         -0.00         3         n/a         n/a           Weight:         14 lb	<b>GRIP</b> 197/144 FT = 10%
LUMBER-			BRACING-	

TOP CHORD

BOT CHORD

LUMBER-

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

REACTIONS. 1=5-9-6, 3=5-9-6 (size) Max Horz 1=91(LC 5)

Max Uplift 1=-33(LC 8), 3=-51(LC 8) Max Grav 1=224(LC 1), 3=224(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 5-10-0 oc purlins,

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

except end verticals.





2x4 💋

2x4 ||

except end verticals.

Structural wood sheathing directly applied or 3-5-3 oc purlins,

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

				•
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 0.11 BC 0.06 WB 0.00 Matrix-P	DEFL.         in         (loc)         l/defl         L/d           Vert(LL)         n/a         -         n/a         999           Vert(CT)         n/a         -         n/a         999           Horz(CT)         -0.00         3         n/a         n/a	PLATES         GRIP           MT20         197/144           Weight: 8 lb         FT = 10%
			BRACING-	

TOP CHORD

BOT CHORD

TOP CHORD

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

REACTIONS. 1=3-4-10, 3=3-4-10 (size) Max Horz 1=47(LC 5) Max Uplift 1=-17(LC 8), 3=-26(LC 8)

Max Grav 1=116(LC 1), 3=116(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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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 preven tbuckling 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 sand 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



May 21,2021







2x4 💋

 $2x4 \ge$ 

Structural wood sheathing directly applied or 5-10-6 oc purlins.

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

0-0 <u>-10</u> 0-0-10			5-10-6 5-9-13				
Plate Offsets (X,Y)	[2:0-2-0,Edge]						
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	<b>CSI.</b> TC 0.08 BC 0.20 WB 0.00 Matrix-P	DEFL. Vert(LL) Vert(CT) Horz(CT) C	in (loc) n/a - n/a - 0.00 3	l/defl n/a 9 n/a 9 n/a	L/d PLAT 2999 MT20 2999 n/a Weigl	<b>ES GRIP</b> 197/144 nt: 12 lb FT = 10%
			BRACING.				

TOP CHORD

BOT CHORD

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

REACTIONS. 1=5-9-3, 3=5-9-3 (size) Max Horz 1=16(LC 8) Max Uplift 1=-25(LC 8), 3=-25(LC 9) Max Grav 1=196(LC 1), 3=196(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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