

RE: 210212 Lot 65 RR

Site Information:

Customer: Project Name: 210212 Lot/Block: Address: City:

Model: Subdivision: State:

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

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

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

This package includes 90 individual, dated Truss Design Drawings and 0 Additional Drawings.

No. 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 7	Seal# 144289068 144289069 144289070 144289071 144289072 144289073 144289074 144289075 144289076 144289077 144289078 144289079 144289080 144289081 144289083 144289083 144289084	Truss Name A1 A2 A3 A4 B1 B2 B3 B4 B5 B6 C1 C2 D1 C2 D1 D2 D3 D4 D5	Date 1/8/2021 1/8/2021 1/8/2021 1/8/2021 1/8/2021 1/8/2021 1/8/2021 1/8/2021 1/8/2021 1/8/2021 1/8/2021 1/8/2021 1/8/2021 1/8/2021 1/8/2021 1/8/2021 1/8/2021	No. 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37	Seal# 144289088 144289089 144289090 144289091 144289092 144289093 144289094 144289095 144289096 144289097 144289098 144289099 144289100 144289101 144289103 144289104	Truss Name E3 E4 E5 E6 G1 G2 G3 H1 H2 H3 J1 J2 J3 J4 J5 J7A J8A	Date 1/8/2021 1/8/2021 1/8/2021 1/8/2021 1/8/2021 1/8/2021 1/8/2021 1/8/2021 1/8/2021 1/8/2021 1/8/2021 1/8/2021 1/8/2021 1/8/2021 1/8/2021 1/8/2021
16	144289083	D4	1/8/2021	36	I44289103	J7A	1/8/2021
17	144289084	D5	1/8/2021	37	I44289104	J8A	1/8/2021
18	144289085	D6	1/8/2021	38	I44289105	J9	1/8/2021
19	144289086	E1	1/8/2021	39	I44289106	J10	1/8/2021
20	144289087	E2	1/8/2021	40	I44289107	J11	1/8/2021

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

MiTek USA, Inc. 16023 Swinglev Ridge Rd Chesterfield, MO 63017

314-434-1200

RELEASE FOR CONSTRUCTION NOTED ON PLANS REVI LEE'S SUMMIT, I 01/26/2021



RE: 210212 - Lot 65 RR

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

Site Information:

Project Customer:	Project Name: 210212
Lot/Block:	
Address:	
City, County:	

No.	Seal#	Truss Name	Date
41	144289108	J12	1/8/2021
42	144289109	J13	1/8/2021
43	144289110	J14	1/8/2021
44	144289111	J16	1/8/2021
45	144289112	J17	1/8/2021
46	144289113	J18	1/8/2021
47	144289114	J21	1/8/2021
48	144289115	J22	1/8/2021
49	144289116	J23	1/8/2021
50	144289117	J24	1/8/2021
51	144289118	J25	1/8/2021
52	144289119	J26	1/8/2021
53	144289120	J27	1/8/2021
54	144289121	J28	1/8/2021
55	144289122	J29	1/8/2021
56	144289123	J30	1/8/2021
57	144289124	J31	1/8/2021
58	144289125	J32	1/8/2021
59	144289126	J33	1/8/2021
60	144289127	J34	1/8/2021
61	144289128	J35	1/8/2021
62	144289129	J36	1/8/2021
63	144289130	J37	1/8/2021
64	144289131	J38	1/8/2021
65	144289132	J39	1/8/2021
66	144289133	J41	1/8/2021
67	144289134	J42	1/8/2021
68	144289135	J43	1/8/2021
69	144289136	J44	1/8/2021
70	144289137	J45	1/8/2021
71	144289138	J46	1/8/2021
72	144289139	J47	1/8/2021
73	144289140	J48	1/8/2021
74	144289141	J49	1/8/2021
75	144289142	K1	1/8/2021
76	144289143	K2	1/8/2021
77	144289144	K3	1/8/2021
78	144289145	LAY1	1/8/2021
79	144289146	LAY2	1/8/2021
80	144289147	LAY3	1/8/2021
81	144289148	LAY4	1/8/2021
82	144289149	LAY5	1/8/2021
83	144289150	LAY6	1/8/2021
84	144289151	LAY7	1/8/2021

Seal#	Trus
144289152	LAY
144289153	LAY
144289154	R1
144289155	V1
144289156	V2
144289157	V3

Subdivision:

State:

No.

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Truss NameDateLAY81/8/2021LAY91/8/2021R11/8/2021V11/8/2021V21/8/2021V31/8/2021



RE: 210212 Lot 65 RR

Site Information:

Customer: Project Name: 210212 Lot/Block: Address: City:

Model: Subdivision: State:

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

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

This package includes 90 individual, dated Truss Design Drawings and 0 Additional Drawings.

No. 1 2 3 4 5 6 7 8 9 10 11 2 3 4 5 6 7 8 9 10 11 2 3 4 5 6 7 8 9 10 11 2 3 4 5 6 7 8 9 10 11 2 3 4 5 6 7 8 9 10 11 2 3 4 5 6 7 8 9 10 11 2 3 4 5 6 7 8 9 10 11 2 3 4 5 6 7 8 9 10 11 2 3 4 5 6 7 8 9 10 11 2 3 4 5 6 7 8 9 10 11 2 3 4 5 6 7 8 9 10 11 12 3 4 5 6 7 8 9 10 11 12 3 4 5 6 7 8 9 10 11 12 3 4 5 6 7 8 9 10 11 12 3 4 5 6 7 8 9 10 11 12 3 14 5 10 11 12 12 10 11 12 11 12 11 12 11 11 11 12 11 11 11	Seal# I44289068 I44289069 I44289070 I44289071 I44289072 I44289073 I44289073 I44289075 I44289076 I44289076 I44289077 I44289078 I44289079 I44289080 I44289081 I44289081 I44289083 I44289084 I44289084 I44289085	Truss Name A1 A2 A3 A4 B1 B2 B3 B4 B5 B6 C1 C2 D1 C2 D1 D2 D3 D4 D5 D6 C5	Date 1/8/2021 1/8/2021 1/8/2021 1/8/2021 1/8/2021 1/8/2021 1/8/2021 1/8/2021 1/8/2021 1/8/2021 1/8/2021 1/8/2021 1/8/2021 1/8/2021 1/8/2021 1/8/2021 1/8/2021 1/8/2021 1/8/2021	No. 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 29	Seal# 144289088 144289089 144289090 144289091 144289092 144289093 144289093 144289094 144289095 144289096 144289097 144289099 144289099 144289100 144289100 144289102 144289104 144289105	Truss Name E3 E4 E5 E6 G1 G2 G3 H1 H2 H3 J1 J2 J3 J4 J5 J7A J8A J9	Date 1/8/2021 1/8/2021 1/8/2021 1/8/2021 1/8/2021 1/8/2021 1/8/2021 1/8/2021 1/8/2021 1/8/2021 1/8/2021 1/8/2021 1/8/2021 1/8/2021 1/8/2021 1/8/2021
18 19 20	144289084 144289085 144289086 144289087	D5 D6 E1 E2	1/8/2021 1/8/2021 1/8/2021 1/8/2021	37 38 39 40	I44289104 I44289105 I44289106 I44289107	J9 J10 J11	1/8/2021 1/8/2021 1/8/2021 1/8/2021

The truss drawing(s) referenced above have been prepared by MiTek USA, Inc under my direct supervision

based on the parameters provided by Wheeler - Waverly.

Truss Design Engineer's Name: Garcia, Juan

My license renewal date for the state of Missouri is December 31, 2022. Missouri COA: 001193

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



Garcia, Juan

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



RE: 210212 - Lot 65 RR

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

Site Information:

Project Customer:	Project Name: 210212
Lot/Block:	
Address:	
City, County:	

No.	Seal#	Truss Name	Date
41	144289108	J12	1/8/2021
42	144289109	J13	1/8/2021
43	144289110	J14	1/8/2021
44	144289111	J16	1/8/2021
45	144289112	J17	1/8/2021
46	144289113	J18	1/8/2021
47	144289114	J21	1/8/2021
48	144289115	J22	1/8/2021
49	144289116	J23	1/8/2021
50	144289117	J24	1/8/2021
51	144289118	J25	1/8/2021
52	144289119	J26	1/8/2021
53	144289120	J27	1/8/2021
54	144289121	J28	1/8/2021
55	144289122	J29	1/8/2021
56	144289123	J30	1/8/2021
57	144289124	J31	1/8/2021
58	144289125	J32	1/8/2021
59	144289126	J33	1/8/2021
60	144289127	J34	1/8/2021
61	144289128	J35	1/8/2021
62	144289129	J36	1/8/2021
63	144289130	J37	1/8/2021
64	144289131	J38	1/8/2021
65	144289132	J39	1/8/2021
66	144289133	J41	1/8/2021
67	144289134	J42	1/8/2021
68	144289135	J43	1/8/2021
69	144289136	J44	1/8/2021
70	144289137	J45	1/8/2021
71	144289138	J46	1/8/2021
72	144289139	J47	1/8/2021
73	144289140	J48	1/8/2021
74	144289141	J49	1/8/2021
75	144289142	K1	1/8/2021
76	144289143	K2	1/8/2021
77	144289144	K3	1/8/2021
78	144289145	LAY1	1/8/2021
79	144289146	LAY2	1/8/2021
80	144289147	LAY3	1/8/2021
81	144289148	LAY4	1/8/2021
82	144289149	LAY5	1/8/2021
83	144289150	LAY6	1/8/2021
84	144289151	LAY7	1/8/2021

Seal#	Trus
144289152	LAY
144289153	LAY
144289154	R1
144289155	V1
144289156	V2
144289157	V3

Subdivision:

State:

No.

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Truss NameDateLAY81/8/2021LAY91/8/2021R11/8/2021V11/8/2021V21/8/2021V31/8/2021



Scale = 1:26.5



	2-0-0	4-0-0 2-0-0	7-0-0 3-0-0	10 3-	-0-0 0-0		12-0-0 2-0-0	14-0-0	
LOADING (psf) TCLL 25.0 TCDL 10.0 BCLL 0.0 BCDL 10.0	* Rep Stress Code IRC	- 2-0-0 DOL 1.15 DL 1.15 s Incr NO 2018/TPI2014	CSI. TC 0.66 BC 0.60 WB 0.18 Matrix-S	DEFL. Vert(LL) -0 Vert(CT) -0 Horz(CT) 0 Wind(LL) 0	in (loc .23 12 .41 12 .26 8 .18 12) l/defl 2 >720 2 >400 3 n/a 2 >913	L/d 360 240 n/a 240	PLATES MT20 Weight: 55 lb	GRIP 197/144 FT = 10%
LUMBER-				BRACING-					

TOP CHORD

BOT CHORD

LUMBER-

2x6 SP DSS *Except*
4-6: 2x4 SPF No.2
2x4 SPF No.2 *Except*
3-7: 2x4 SPF 2100F 1.8E
2x3 SPF No.2 *Except*
3-14,7-10: 2x4 SPF No.2

- .2 REACTIONS. (size) 2=0-3-8, 8=0-3-8 Max Horz 2=28(LC 33)
 - Max Uplift 2=-225(LC 4), 8=-225(LC 5) Max Grav 2=1046(LC 1), 8=1046(LC 1)
- FORCES. (Ib) Max. Comp./Max. Ten. All forces 250 (Ib) or less except when shown. 2-3=-466/106, 3-4=-3358/613, 4-5=-3809/678, 5-6=-3809/678, 6-7=-3358/601, TOP CHORD 7-8=-466/103
- BOT CHORD 3-13=-586/3368, 12-13=-580/3366, 11-12=-547/3366, 7-11=-553/3368 WEBS 4-12=-91/534, 6-12=-90/534
- 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) except (jt=lb) 2=225.8=225
- 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) 84 lb down and 54 lb up at 4-0-0, 84 lb down and 54 lb up at 6-0-0, and 84 lb down and 54 lb up at 8-0-0, and 84 lb down and 54 lb up at 10-0-0 on top chord, and 234 lb down and 70 lb up at 4-0-0, 38 lb down at 6-0-0, and 38 lb down at 8-0-0, and 234 lb down and 70 lb up at 9-11-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 10) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) 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 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



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

2-0-0 oc purlins (2-7-14 max.): 4-6.

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



January 8,2021

Job	Truss	Truss Type	Qty	Ply	Lot 65 RR	
						144289068
210212	A1	Hip Girder	1	1	Job Reference (ontional)	
Wheeler Lumber, Wa	verly, KS - 66871,			8.430 s N	ov 30 2020 MiTek Industries, Inc. Fri Jan 8 15:26:07 2021	Page 2

ID:XxAsF4MdGikvF3O7A2bzF0yH?NM-bB?dM?IBQ3ee?NgrM1XdkPpQHkznNJ0BmHS8B6zxNUE

LOAD CASE(S) Standard

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

Vert: 1-4=-70, 4-6=-70, 6-9=-70, 2-14=-20, 3-7=-20, 8-10=-20

Concentrated Loads (lb)

Vert: 4=-43(F) 6=-43(F) 13=-234(F) 11=-234(F) 15=-43(F) 16=-43(F) 17=-38(F) 18=-38(F)





10

3x4 =

	1	2-0-0		6-0-0	8-0-0	1		12-0-0		14-0-0	
		2-0-0		4-0-0	2-0-0			4-0-0		2-0-0	1
Plate Offsets (X	<,Y) [3:0-5-0,Edge], [6:0-	-5-0,Edge]								
LOADING (psf TCLL 25.0	i) D	SPACING- Plate Grip DC	2-0-0 DL 1.15	CSI. TC 0.72	DEFL. Vert(LL)	in -0.15	(loc) 6-10	l/defl >999	L/d 360	PLATES MT20	GRIP 197/144
TCDL 10.0 BCLL 0.0 BCDL 10.0	0 0 * 0	Lumber DOL Rep Stress Ir Code IRC20	. 1.15 ncr YES 18/TPI2014	BC 0.57 WB 0.05 Matrix-S	Vert(CT) Horz(CT) Wind(LL)	-0.27 0.23 0.11	3-11 7 3-11	>601 n/a >999	240 n/a 240	Weight: 50 lb	FT = 10%
LUMBER-					BRACING	}-					

TOP CHORD

BOT CHORD

11

2x4 ||

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

 \boxtimes 3x4 =

- WEBS 2x3 SPF No.2 *Except* 3-12,6-9: 2x4 SPF No.2
 - (size) 2=0-3-8, 7=0-3-8 Max Horz 2=-40(LC 9) Max Uplift 2=-141(LC 4), 7=-141(LC 5) Max Grav 2=688(LC 1), 7=688(LC 1)

3

βx10 =

12

2x4 ||

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

TOP CHORD 2-3=-295/69, 3-4=-1404/195, 4-5=-1353/196, 5-6=-1404/182, 6-7=-295/63

BOT CHORD 3-11=-152/1353, 10-11=-149/1352, 6-10=-121/1353

NOTES-

REACTIONS.

0-8-0.

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) 2=141, 7=141.

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.



8

K

3x4 =

0-8-0

6

3x10

9

Structural wood sheathing directly applied or 4-0-3 oc purlins, except

2-0-0 oc purlins (4-11-0 max.): 4-5.

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

2x4 ||

January 8,2021

MiTek 16023 Swingley Ridge Rd Chesterfield, MO 63017



1	2-0-0	5-0-0		5-0-0	2-0-0
Plate Offsets (X,Y)	[3:0-5-0,Edge], [5:0-5-0,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	CSI. TC 0.74 BC 0.57 WB 0.06 Matrix-S	DEFL. in Vert(LL) -0.16 Vert(CT) -0.30 Horz(CT) 0.25 Wind(LL) 0.12	(loc) l/defl L/d 3-9 >999 360 3-9 >548 240 6 n/a n/a 3-9 >999 240	PLATES GRIP MT20 197/144 Weight: 49 lb FT = 10%
LUMBER- TOP CHORD 2x6 SI BOT CHORD 2x4 SI WEBS 2x4 SI	PF No.2 PF No.2 PF No.2 *Except*		BRACING- TOP CHORD BOT CHORD	Structural wood sheathing dire Rigid ceiling directly applied or	ctly applied or 3-10-0 oc purlins. 10-0-0 oc bracing.

REACTIONS. (size) 2=0-3-8, 6=0-3-8 Max Horz 2=46(LC 8) Max Uplift 2=-134(LC 4), 6=-134(LC 5) Max Grav 2=688(LC 1), 6=688(LC 1)

4-9: 2x3 SPF No.2

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

 TOP CHORD
 2-3=-295/70, 3-4=-1337/145, 4-5=-1337/160, 5-6=-294/59

 BOT CHORD
 3-9=-100/1278, 5-9=-100/1278

NOTES-

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

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

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

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

5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=134. 6=134.

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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January 8,2021





		2-0-0		7-0-0					12-0	-0		13-11-8
		2-0-0 '		5-0-0					5-0-	0	1	1-11-8 '
Plate Offsets	(X,Y)	[3:0-5-0,Edge], [5:0-3-12	2,Edge]									
LOADING (ps TCLL 25	sf) 5.0	SPACING- Plate Grip DOL	2-0-0 1.15	CSI. TC	0.75	DEFL. Vert(LL)	in -0.16	(loc) 5-8	l/defl >999	L/d 360	PLATES MT20	GRIP 197/144
BCLL 0 BCDL 10).0 *).0 *	Rep Stress Incr Code IRC2018/T	YES PI2014	WB Matrix	0.06 c-S	Horz(CT) Wind(LL)	0.30 0.26 0.12	6 3-8	>948 n/a >999	n/a 240	Weight: 47 lb	FT = 10%
LUMBER-	276 50				I		חי	Structu	ralwood	sheathing di	rectly applied or 3-0-3	oc purling

BOT CHORD

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

BOT CHORD 2x4 SPF No.2 WEBS 2x4 SPF No.2 *Except* 4-8: 2x3 SPF No.2

REACTIONS. (size) 6=0-3-8, 2=0-3-8 Max Horz 2=46(LC 12) Max Uplift 6=-89(LC 5), 2=-134(LC 4) Max Grav 6=612(LC 1), 2=689(LC 1)

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

 TOP CHORD
 2-3=-295/70, 3-4=-1341/152, 4-5=-1340/161, 5-6=-299/59

 BOT CHORD
 3-8=-102/1281, 5-8=-102/1281

NOTES-

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

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

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

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

5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6 except (jt=lb) 2=134

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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January 8,2021





Scale = 1:70.8



	5-6-8 12-3-8 19-2-4 5-6-8 6-9-0 6-10-12		<u>26-6-12</u> 7-4-8	33-9-8 7-2-12	<u>39-4-0</u> 5-6-8						
LOADING (psf) TCLL 25.0 TCDL 10.0 BCLL 0.0 BCDL 10.0	SPACING-2-0-0Plate Grip DOL1.15Lumber DOL1.15Rep Stress IncrNOCode IRC2018/TPI2014	CSI. TC 0.76 BC 0.90 WB 0.96 Matrix-S	DEFL. in (loc) Vert(LL) -0.14 11-12 Vert(CT) -0.28 11-12 Horz(CT) 0.04 9 Wind(LL) 0.10 11-12	I/defl L/d >999 360 >868 240 n/a n/a >999 240	PLATES GRIP MT20 197/144 Weight: 193 lb FT = 10%						
LUMBER- TOP CHORD 2x6 SF BOT CHORD 2x6 SF 13-15: WEBS 2x4 SF 5-12,8	rectly applied or 4-2-5 oc purlins, except): 3-8. or 5-3-0 oc bracing.										
REACTIONS. (Siz Max H Max U Max G	e) 2=0-3-8, 14=0-3-8, 9=0-3-8 łorz 2=40(LC 8) Jplift 2=-252(LC 4), 14=-411(LC 4), 9=-2 śrav 2=1280(LC 21), 14=3729(LC 1), 9=	64(LC 5) 1370(LC 22)			OF MISSIN						
FORCES. (lb) - Max. TOP CHORD 2-3= 8-9= BOT CHORD 2-17 9-11 WEBS 3-17: 5-12:	Comp./Max. Ten All forces 250 (lb) or -2647/366, 3-4=-1820/256, 4-5=-1816/25 -2904/397 =-309/2396, 16-17=-311/2360, 14-16=-1 =-308/2636 =0/579, 3-16=-585/137, 4-16=-791/266, =-502/4316, 7-12=-872/290, 8-12=-392/1	less except when shown. 55, 5-7=-2236/309, 7-8=-224 934/265, 12-14=-1934/265, 7 5-16=-465/3896, 5-14=-3275 21, 8-11=0/597	0/311, 11-12=-310/2600, /545,		GARCIA						
 STILED TO SUBJECT SUB											
WARNING - Verify Design valid for use o a truss system. Befor building design. Brac is always required for fabrication, storage, d Safety Information	design parameters and READ NOTES ON THIS AND nonly with MiTek® connectors. This design is based of e use, the building designer must verify the applicat ing indicated is to prevent buckling of individual trus stability and to prevent collapse with possible perso- letivery, erection and bracing of trusses and truss s available from Truss Plate Institute, 2670 Crain Hig	D INCLUDED MITEK REFERENCE P. nily upon parameters shown, and is silify of design parameters and prope ss web and/or chord members only. nal injury and property damage. Fc rstems, see ANSI/TPH Qu hway, Suite 203 Waldorf, MD 20601	AGE MII-7473 rev. 5/19/2020 BEFORE for an individual building component, rly incorporate this design into the ov Additional temporary and permanent or general guidance regarding the ality Criteria, DSB-89 and BCSI Bui	EUSE. not rerall bracing Idding Component	16023 Swingley Ridge Rd Chesterfield, MO 63017						

Job	Truss	Truss Type	Qty	Ply	Lot 65 RR	
						144289072
210212	B1	Hip Girder	1	1	lob Reference (ontional)	
Wheeler Lumber, Wa	⊥ verly, KS - 66871,			8.430 s N	ov 30 2020 MiTek Industries, Inc. Fri Jan 8 15:26:11 2021	Page 2

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NOTES-

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: 1-3=-70, 3-8=-70, 8-10=-70, 2-9=-20

Concentrated Loads (lb) Vert: 3=-97(B) 6=-97(B) 17=-331(B) 8=-97(B) 11=-331(B) 18=-97(B) 19=-97(B) 20=-97(B) 21=-97(B) 22=-97(B) 23=-97(B) 24=-97(B) 25=-97(B) 26=-97(B) 27=-97(B) 28=-97(B) 28=-97(B) 30=-41(B) 31=-41(B) 32=-41(B) 33=-41(B) 35=-41(B) 35=-41(





	L	7-6-8	8-0-8	13-3-12		19-2-4		25	-6-8			31-9-8	39-4	-0	
	e (X V)	/-6-8 [11:0_3_1 0_2_8] [10	0-6-0 2-0-3-4 0-2-1	5-3-4		5-10-8		6	-4-4			6-3-0	/-6	-8	
Flate Oliseta	5 (7,1)	[11.0-3-4,0-2-0], [13	9.0-3-4,0-2-0												
LOADING (TCLL 2 TCDL 1 BCLL BCDL 1	(psf) 25.0 10.0 0.0 * 10.0	SPACING- Plate Grip D Lumber DOL Rep Stress I Code IRC20	2-0- OL 1.1 - 1.1 ncr YE 018/TPI2014	0 5 5 S	CSI. TC BC WB Matrix	0.71 0.44 0.60 S		DEFL. Vert(LL) Vert(CT) Horz(CT) Wind(LL)	in -0.07 -0.16 0.02 0.05	(loc) 11-12 11-12 11 12-13	l/defl >999 >999 n/a >999	L/d 360 240 n/a 240	PLATES MT20 Weight: 139	GR 197 Ib F	IP 7/144 T = 10%
								. ,							
LUMBER- TOP CHORI BOT CHORI WEBS	D 2x4 SP D 2x4 SP 2x3 SP 2-19,9-	F No.2 F No.2 F No.2 *Except* 11: 2x6 SPF No.2						BRACING- TOP CHOR BOT CHOR	D D	Structu except Rigid c	ral wood end vert eiling dire	sheathing d icals, and 2-(ectly applied	irectly applied or 4-2 0-0 oc purlins (5-11- or 6-0-0 oc bracing.	-9 oc pu 3 max.):	rlins, 3-8.
REACTION	S. (size Max He Max U Max G	e) 19=0-3-8, 15=0 brz 19=31(LC 12) blift 19=-206(LC 4), rav 19=830(LC 21))-3-8, 11=0- , 15=-350(L0 , 15=2025(L	3-8 C 4), 11=-2 .C 1), 11=8	17(LC 5) 880(LC 22)									E M	111
FORCES. TOP CHORI BOT CHORI	(lb) - Max. D 2-3=- 8-9=- D 18-19	Comp./Max. Ten 1135/212, 3-4=-624 1264/240, 2-19=-76 =-207/580, 17-18=-	All forces 29 1/185, 4-5=-1 62/247, 9-11 -145/990, 19	50 (lb) or le 622/183, 5 =-811/257 5-17=-824/	ess except -7=-792/22 175, 13-15	when shown. 3, 7-8=-794/2 =-824/175, 12	225, 2-13=	-146/1113,					IN ATE.	JUAN	SSOL P
WEBS	11-12 2-18= 5-15= 9-12=	=-180/588 0/474, 3-18=0/254, -1877/420, 5-13=-3 -5/586	, 3-17=-430/ 314/1749, 7-	56, 4-17=-/ 13=-478/19	431/175, 5 94, 8-13=-3	-17=-287/158 370/48, 8-12=	3, ⊧0/253	3,					PPC F-2		R
NOTES-													- A	00102	
1) Unbalanc 2) Wind: AS MWFRS (grip DOI =	ced roof live CE 7-16; V (envelope) =1.60	loads have been c ult=115mph (3-seco gable end zone; ca	onsidered fo ond gust) Va ntilever left	or this design asd=91mph and right e	gn. n; TCDL=6 xposed ; er	.0psf; BCDL= nd vertical left	6.0ps t and	f; h=25ft; Ca right expose	t. II; Ex d; Lum	kp C; Er Iber DO	iclosed; L=1.60 p	late	I SSIC	NAL	ENGLIN
3) Provide a	dequate dr	ainage to prevent w	ater pondin	q.											
4) This truss	s has been	designed for a 10.0	psf bottom	chord live	load nonco	ncurrent with	any o	other live loa	ds.					NGA	
5) * This true	ss has beer	designed for a live	e load of 20.	Opsf on the	e bottom ch	ord in all area	as wh	ere a rectan	gle 3-6	-0 tall b	y 2-0-0 w	vide	1110	IN CA	TCIA
6) Provide m	ween the be	ottom chord and an connection (by othe	y other mer ers) of truss	nbers. to bearing	plate capa	ble of withstar	ndina	100 lb uplift	at join	t(s) exce	ept (jt=lb)	1	St X	CENS	ED
19=206, 1	15=350, 11:	=217.	,				. 3		.,				- E / 1		1 1 2
7) This truss	s is designe	d in accordance wit	th the 2018	Internation	al Residen	tial Code sect	tions	R502.11.1 a	nd R80	02.10.2	and			601	- 1 =
reterence	ed standard	ANSI/TPL1.	t donict the	cizo or tho	oriontation	of the purlin	along	the ten and	or bott	tom cho	rd			.69	

8) 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



3-10-9

4-0-3



L	9-6-8	19-2-4	24-6-8	29-9-8	39-4-0	
	9-6-8	9-7-12	5-4-4	5-3-0	9-6-8	1
Plate Offsets (X,Y)	[2:Edge,0-3-4], [11:Edge,0-3-4]					
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 0.54 BC 0.74 WB 0.66 Matrix-S	DEFL. in Vert(LL) -0.20 Vert(CT) -0.41 Horz(CT) 0.04 Wind(LL) 0.04	(loc) I/defl L/d 12-13 >999 360 12-13 >588 240 12 n/a n/a 13 >999 240	PLATES MT20 Weight: 140 lb	GRIP 197/144 FT = 10%
LUMBER- TOP CHORD 2x4 SF BOT CHORD 2x4 SF WEBS 2x3 SF REACTIONS. (siz Max H Max U Max G	PF No.2 PF No.2 PF No.2 PF No.2 e) 16=0-3-8, 19=0-3-8, 12=0-3-8 orz 19=52(LC 12) plift 16=-371(LC 4), 19=-186(LC 4), 12= rav 16=2156(LC 1), 19=791(LC 21), 12	133(LC 5) =734(LC 22)	BRACING- TOP CHORD BOT CHORD WEBS	Structural wood sheathing except end verticals, and 2 Rigid ceiling directly applied 1 Row at midpt	directly applied or 5-7-13 o -0-0 oc purlins (5-11-3 ma d or 10-0-0 oc bracing. 5-16, 8-16	oc purlins, (x.): 4-9.
FORCES. (lb) - Max. TOP CHORD 2-3=- 8-9=- 8-9=- BOT CHORD 18-19 WEBS 3-18- 8-13- 8-13-	Comp./Max. Ten All forces 250 (lb) or 303/20, 3-4=-822/138, 4-5=-734/155, 5- 865/197, 9-10=-961/183, 10-11=-341/10 9=-230/1028, 14-16=-14/346, 13-14=-14 =-339/210, 5-18=-60/733, 5-16=-1326/30 =-81/671, 10-13=-344/212, 3-19=-873/25	less except when shown 6=-139/1001, 6-8=-139/1 0, 2-19=-342/128 /346, 12-13=-259/1166)3, 6-16=-365/146, 8-16= 53, 10-12=-976/304	001, -1490/310,		SALE OF	MISSOUT AN ICIA
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 5) * This truss has been will fit between the b	e loads have been considered for this de fult=115mph (3-second gust) Vasd=91m gable end zone; cantilever left and right rainage to prevent water ponding. designed for a 10.0 psf bottom chord liv n designed for a live load of 20.0psf on t	sign. ph; TCDL=6.0psf; BCDL= exposed ; end vertical le e load nonconcurrent witt he bottom chord in all are	=6.0psf; h=25ft; Cat. II; E) ft and right exposed; Lum n any other live loads. eas where a rectangle 3-6	κρ C; Enclosed; ber DOL=1.60 plate -0 tall by 2-0-0 wide	PROFE-2000	BER 162101
 will fit between the b 6) Provide mechanical 16=371, 19=186, 12 7) This truss is designe referenced standard 8) Graphical purlin rep 	ottom chord and any other members. connection (by others) of truss to bearin =133. d in accordance with the 2018 Internatio ANSI/TPI 1. resentation does not depict the size or th	g plate capable of withsta	anding 100 lb uplift at join ctions R502.11.1 and R80 along the top and/or bott	t(s) except (jt=lb) 12.10.2 and com chord.	PROTICE PROTICE	GARCIA NSEO 952

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

16023 Swingley Ridge Rd Chesterfield, MO 63017

January 8,2021



	5-2-6		6-4-2		4-5-8	
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 YES Code IRC2018/TPI2014	CSI. TC 0.86 BC 0.79 WB 0.72 Matrix-S	DEFL. in (k Vert(LL) -0.12 7 Vert(CT) -0.22 7 Horz(CT) 0.02 7 Wind(LL) 0.09 7	oc) l/defl L 7-8 >999 36 7-8 >840 24 6 n/a n 7-8 >999 24	/d PLATES GRII 50 MT20 197/ 40 /a 40 Weight: 58 lb F	5 144 T = 10%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

- TOP CHORD 2x4 SPF No 2 2x4 SPF No.2 BOT CHORD 2x3 SPF No.2 *Except* WEBS 2-9: 2x6 SP DSS
- REACTIONS. (size) 6=Mechanical, 9=0-3-8 Max Horz 9=197(LC 5) Max Uplift 6=-139(LC 4), 9=-192(LC 4) Max Grav 6=699(LC 1), 9=823(LC 1)
- FORCES. (Ib) Max. Comp./Max. Ten. All forces 250 (Ib) or less except when shown.
- TOP CHORD 2-3=-1179/202, 3-4=-661/136, 2-9=-713/205
- BOT CHORD 8-9=-205/1043, 7-8=-205/1043, 6-7=-104/558
- 3-7=-507/170, 4-7=0/371, 4-6=-778/153 WFBS

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) 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) 6=139, 9=192

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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Structural wood sheathing directly applied or 3-0-7 oc purlins,

except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 4-5.

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





	1-10	-8			8-5	5-8				1
Plate Offsets (X,Y)	[3:0-3-0,0-2-8]									
LOADING (psf) TCLL 25.0 TCDL 10.0 BCLL 0.0 BCDL 10.0	SPACING- 2 Plate Grip DOL Lumber DOL Rep Stress Incr Code IRC2018/TPI20	2-0-0 1.15 1.15 NO 014	CSI. TC 0.66 BC 0.65 WB 0.96 Matrix-S	DEFL. Vert(LL) Vert(CT) Horz(CT) Wind(LL)	in (I -0.15 -0.31 0.01 0.04	loc) 6-7 6-7 6 6-7	l/defl >812 >388 n/a >999	L/d 360 240 n/a 240	PLATES MT20 Weight: 36 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 8: 2x4 SPE No.2

2-8: 2x4 SPF No.2 **REACTIONS.** (size) 6=Mechanical, 8=0-3-8 Max Horz 8=153(LC 5)

Max Uplift 6=-97(LC 8), 8=-161(LC 4) Max Grav 6=444(LC 1), 8=561(LC 1)

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

- TOP CHORD 2-3=-585/44, 3-4=-509/45, 2-8=-513/118
- BOT CHORD 7-8=-82/481. 6-7=-239/919
- WEBS 3-7=-16/332, 4-7=-484/237, 4-6=-893/270

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) Provide adequate drainage to prevent water ponding.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6 except (jt=lb) 8=161.
- 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) 109 lb down and 78 lb up at 1-10-8 on top chord, and 14 lb down and 9 lb up at 1-10-8 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

- 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, 6-8=-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. 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



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.



Job	Truss	Truss Type	Qty	Ply	Lot 65 RR	
040040	DE	Reaf Special Circler	4	1		144289076
210212	DD	Rooi Special Girder	1		Job Reference (optional)	
Wheeler Lumber, Wave	erly, KS - 66871,			8.430 s No	ov 30 2020 MiTek Industries, Inc. Fri Jan 8 15:26:15 2021	Page 2

8.430 s Nov 30 2020 MiTek Industries, Inc. Fri Jan 8 15:26:15 2021 Page 2 ID:XxAsF4MdGikvF307A2bzF0yH?NM-MjUe1krCXWfVybHOqjgV358nHzh?FluMcXOZTezxNU6

LOAD CASE(S) Standard Concentrated Loads (lb) Vert: 7=9(F)





3) This truss has been designed for a 10.0 ps bottom chord live load honconcurrent 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) 6 except (jt=lb) 8=144.

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.







		0 _Γ 2-ρ	1-8-0	-		5-8-0				7-2-0	7 _Γ 4-0	
		0'-2-0	1-6-0			4-0-0				1-6-0	0-2-0	
Plate Of	rsets (X,Y)	[3:0-4-0,0-2-3], [4:0-3-0,0	0-2-8], [7:0-3-	8,Edgej								
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	0.32	Vert(LL)	-0.03	8-9	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.24	Vert(CT)	-0.05	8-9	>999	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.03	Horz(CT)	0.00	7	n/a	n/a		
BCDL	10.0	Code IRC2018/T	PI2014	Matri	k-S	Wind(LL)	0.02	8-9	>999	240	Weight: 25 lb	FT = 10%
LUMBER	R-			·		BRACING-					·	

TOP CHORD

BOT CHORD

12

8

3x4 =

3x10 ||

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.

LUMBER-

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

REACTIONS. (size) 10=0-3-8, 7=0-3-8 Max Horz 10=11(LC 47) Max Uplift 10=-142(LC 4), 7=-142(LC 5) Max Grav 10=413(LC 1), 7=413(LC 1)

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

10

3x10 ||

TOP CHORD 2-3=-347/83, 3-4=-287/75, 4-5=-348/82, 2-10=-335/132, 5-7=-335/131

BOT CHORD 9-10=-42/303, 8-9=-37/302, 7-8=-43/302

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

9

2x4 ||

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=142, 7=142.
- 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) 111 lb down and 54 lb up at 1-8-0, and 49 lb down and 12 lb up at 3-8-0, and 111 lb down and 54 lb up at 5-8-0 on top chord, and 11 lb down and 9 lb up at 1-8-0, and 3 lb down and 4 lb up at 3-8-0, and 11 lb down and 9 lb up at 5-7-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

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

LOAD CASE(S) 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 Concentrated Loads (lb) Vert: 9=9(F) 8=9(F) 12=4(F)

🗼 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 WITHS KRETERENCE PAGE MIL-74/3 fev. or 19/2/2/2 DEFORE 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 **ANS/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MIS 0 TIS * PROXIM JUAN GARCIA NUMBER F -2000162101 T GIT E ONAL min 16952 January 8,2021 January 8,2021

11111





		<u>0-2-0</u>			3-8-0						6-10-0	
		0-2-0			3-0-0	1					3-2-0	
LOADING ((psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES GRIP	
TCLL 2	25.0	Plate Grip DOL	1.15	TC	0.31	Vert(LL)	-0.02	6	>999	360	MT20 197/144	
TCDL '	10.0	Lumber DOL	1.15	BC	0.22	Vert(CT)	-0.04	6	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	5	n/a	n/a		
BCDL	10.0	Code IRC2018/TF	912014	Matrix	-R	Wind(LL)	0.01	6	>999	240	Weight: 20 lb FT = 10%	

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

- 2x3 SPF No.2
- REACTIONS. 7=0-3-8, 5=Mechanical (size) Max Horz 7=27(LC 5) Max Uplift 7=-113(LC 4), 5=-41(LC 5) Max Grav 7=413(LC 1), 5=287(LC 1)

FORCES. (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) or less except when shown. 2-3=-291/45, 3-4=-282/42, 2-7=-346/131 TOP 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) 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) 5 except (jt=lb) 7 = 113

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.



1111

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

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

except end verticals.





L	6-3-0	12-10)-9	19-7-7		26-3-0		32-0-0	
1	6-3-0	6-7-	-9 '	6-8-13	1	6-7-9	1	5-9-0	
Plate Offsets (X,Y)	[2:0-0-0,0-0-14], [9:0-3	-0,0-3-4], [13:0-3	-8,0-1-8]						
LOADING (psf) TCLL 25.0 TCDL 10.0	SPACING- Plate Grip DOL Lumber DOL	2-0-0 1.15 1.15	CSI. TC 0.88 BC 0.54	DEFL. Vert(LL) -0. Vert(CT) -0.	in (loc) 37 11-13 64 11-13	l/defl L/d >999 360 >591 240		PLATES MT20 M18SHS	GRIP 197/144 244/190
BCLL 0.0 * BCDL 10.0	Rep Stress Incr Code IRC2018/	NO TPI2014	WB 0.60 Matrix-S	Horz(CT) 0. Wind(LL) 0.	08 9 23 11-13	n/a n/a >999 240		Weight: 357 lb	FT = 10%
LUMBER- TOP CHORD 2x6 SP BOT CHORD 2x6 SP WEBS 2x4 SP 7-9: 2x' REACTIONS. (size Max H	F No.2 2400F 2.0E F No.2 *Except* 10 SP DSS e) 2=0-3-8, 9=0-5-8 orz 2=-21(LC 5)			BRACING- TOP CHORD BOT CHORD	Structur except Rigid ce	ral wood sheat end verticals, a eiling directly a	hing directly and 2-0-0 oc pplied or 10	/ applied or 5-5-10 ; purlins (4-3-7 ma: -0-0 oc bracing.	oc purlins, x.): 3-6.
Max U Max G	plift 2=-373(LC 4), 9=-3 rav 2=3156(LC 1), 9=3	393(LC 5) 3241(LC 1)						AND OF	MISSIL
FORCES. (lb) - Max. TOP CHORD 2-3=- 7-9=-	Comp./Max. Ten All 1 7795/859, 3-4=-11035/ 3131/411	forces 250 (lb) or 1173, 4-5=-1073	less except when shown 1/1123, 5-6=-10733/1124	, 6-7=-6748/718,			-	S. JU	AN
BOT CHORD 2-14= 9-10= WEBS 3-14=	=-759/7183, 13-14=-754 =-138/1451 =-93/1045, 3-13=-401/4	4/7119, 11-13=-1 267, 4-13=-479/1	113/11033, 10-11=-624/6 32, 4-11=-374/52, 5-11≕	·315, -556/123,			Ē	* GAF	AIDA
6-11= NOTES- 1) 2-ply truss to be con	468/4754, 6-10=-149/ nected together with 10	321, 7-10=-528/4 0d (0.131"x3") na	1917 ils as follows: 0-9-0 oc. 2x10 - 2 rows s	taggered at 0-9-0 oc			1111	PRO E-2000	ABER 162101
Bottom chords connected as Webs connected as 2) All loads are conside	ected as follows: 2x6 - 2 follows: 2x6 - 5 follows: 2x4 - 1 row at 6 equally applied to a	2 rows staggered at 2 rows staggered 0-9-0 oc. all plies, except if	i at 0-9-0 oc.	k (B) face in the LOAE	CASE(S) s	section. Ply to		SSION	ALENUI
 a) Unbalanced roof live b) Wind: ASCE 7-16; V MWFRS (envelope); 	loads have been cons ult=115mph (3-second cantilever left and righ	idered for this de gust) Vasd=91m t exposed ; end v	noted as (F) of (B), unless sign. ph; TCDL=6.0psf; BCDL= vertical left and right expos	=6.0psf; h=25ft; Cat. II sed; Lumber DOL=1.6	; Exp C; En 0 plate grip	closed; DOL=1.60		IN JUAN	GARCIA
5) Provide adequate dr6) All plates are MT207) This truss has been	ainage to prevent wate plates unless otherwise designed for a 10.0 psf	r ponding. indicated. bottom chord liv	e load nonconcurrent with	n any other live loads.					050
 8) * This truss has been will fit between the b 9) Provide mechanical 	n designed for a live loa ottom chord and any ot connection (by others)	ad of 20.0psf on t ther members. of truss to bearin	he bottom chord in all are g plate capable of withsta	as where a rectangle anding 100 lb uplift at j	3-6-0 tall by oint(s) exce	∕ 2-0-0 wide pt (jt=lb)		PR	952 E
 2=373, 9=393. 10) This truss is design referenced standar 11) Graphical purlin rep 	ed in accordance with d ANSI/TPI 1. presentation does not d	the 2018 Internat	ional Residential Code se the orientation of the purli	ections R502.11.1 and in along the top and/ol	R802.10.2	and ord.		A SIO	NSAS. ON
Continued on page 2								Janu	ary 8,2021



Job	Truss	Truss Type	Qty	Ply	Lot 65 RR
					144289080
210212	D1	Hip Girder	1	2	
				-	Job Reference (optional)
Wheeler Lumber, Wa	verly, KS - 66871,			8.430 s N	ov 30 2020 MiTek Industries, Inc. Fri Jan 8 15:26:19 2021 Page 2

ID:XxAsF4MdGikvF3O7A2bzF0yH?NM-FVk9t5ujbl9xRDb93ZIRDxJQsa4XBeQyX9MmcPzxNU2

NOTES-

12) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 610 lb down and 155 lb up at 6-3-0, 239 lb down and 38 lb up at 8-3-12, 239 lb down and 38 lb up at 10-3-12, 239 lb down and 38 lb up at 12-3-12, 239 lb down and 38 lb up at 14-3-12, 239 lb down and 38 lb up at 16-3-0, 239 lb down and 38 lb up at 18-2-4, 239 lb down and 38 lb up at 20-2-4, 239 lb down and 38 lb up at 20-2-4, 239 lb down and 38 lb up at 22-2-4, and 239 lb down and 38 lb up at 24-2-4, and 537 lb down and 132 lb up at 26-2-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-3=-70, 3-6=-70, 6-7=-70, 7-8=-70, 2-9=-20

Concentrated Loads (lb)

Vert: 12=-239(F) 14=-610(F) 10=-537(F) 15=-239(F) 16=-239(F) 17=-239(F) 18=-239(F) 19=-239(F) 20=-239(F) 21=-239(F) 22=-239(F) 21=-239(F) 22=-239(F) 21=-239(F) 21=-2





<u> </u>	8-3-0	16-3-0		24-3-0	32-0-0	
1	8-3-0	8-0-0	1	8-0-0	7-9-0	
Plate Offsets (X,Y)	[2:0-3-0,0-2-4], [7:0-4-15,0-2-8], [10:0-2	-8,0-2-0]				
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 0.95 BC 0.79 WB 0.70 Matrix-S	DEFL. in Vert(LL) -0.27 Vert(CT) -0.51 Horz(CT) 0.11 Wind(LL) 0.21	(loc) I/defl L/d 12 >999 360 10-12 >744 240 9 n/a n/a 12 >999 240	PLATES MT20 Weight: 113 lb	GRIP 197/144 FT = 10%
LUMBER- TOP CHORD 2x4 SP BOT CHORD 2x4 SP WEBS 2x3 SP 2-14,7-	F 2100F 1.8E F No.2 F No.2 *Except* 9: 2x6 SPF No.2		BRACING- TOP CHORD BOT CHORD WEBS	Structural wood sheathing except end verticals, and 2 Rigid ceiling directly applie 1 Row at midpt	directly applied or 3-10-1 2-0-0 oc purlins (2-2-0 ma d or 8-8-11 oc bracing. 3-14	1 oc purlins, x.): 4-6.
REACTIONS. (size Max H Max U Max G	e) 14=0-3-8, 9=0-5-8 orz 14=32(LC 8) plift 14=-320(LC 4), 9=-341(LC 5) rav 14=1530(LC 1), 9=1569(LC 1)				NULL OF	MIGH
FORCES. (lb) - Max. TOP CHORD 2-3=- 2-14= BOT CHORD 13-14 WEBS 3-13= 7-10=	Comp./Max. Ten All forces 250 (lb) of 564/75, 3-4=-2829/506, 4-5=-3671/685, -491/164, 7-9=-1494/379 I=-445/2470, 12-13=-406/2677, 10-12=- -6/407, 4-12=-260/1199, 5-12=-697/274 256/2037	less except when shown. 5-6=-3671/685, 6-7=-277 356/2554, 9-10=-133/527 4, 6-12=-282/1332, 3-14=-	8/468, 2221/456,		GA	JAN RCIA
 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 5) * This truss has been will fit between the b 6) Provide mechanical 14=320, 9=341. 7) This truss is designe referenced standard 8) Graphical purlin repr 	e loads have been considered for this de ult=115mph (3-second gust) Vasd=91m gable end zone; cantilever left and right ainage to prevent water ponding. designed for a 10.0 psf bottom chord liv 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 th	esign. hph; TCDL=6.0psf; BCDL= e exposed ; end vertical left the bottom chord in all area ng plate capable of withsta onal Residential Code sec ne orientation of the purlin	6.0psf; h=25ft; Cat. II; E t and right exposed; Lun any other live loads. as where a rectangle 3-f nding 100 lb uplift at joir tions R502.11.1 and R8 along the top and/or bot	xp C; Enclosed; hber DOL=1.60 plate 5-0 tall by 2-0-0 wide ht(s) except (jt=lb) 02.10.2 and tom chord.	PROFILE-2000	ABER D162101
					lanu	ary 8 2021

January 8,2021

MiTek 16023 Swingley Ridge Rd Chesterfield, MO 63017



L	5-2-4 10-3-0	16-3-0	22-3-0) 27-3-1	1 32-0-0
I	5-2-4 5-0-11	6-0-0	6-0-0	5-0-1	1 4-8-5
Plate Offsets (X,Y)	[8:0-3-0,0-2-0], [10:Edge,0-1-8], [11:0-2	-8,0-2-0], [16:0-2-8,0-2-0]	, [17:Edge,0-5-8]		
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 YES Code IRC2018/TPI2014	CSI. TC 0.73 BC 0.71 WB 0.78 Matrix-S	DEFL. in Vert(LL) -0.23 Vert(CT) -0.42 Horz(CT) 0.10 Wind(LL) 0.18	(loc) I/defl L/d 14 >999 360 14-15 >906 240 10 n/a n/a 14 >999 240	PLATES GRIP MT20 197/144 Weight: 118 lb FT = 10%
LUMBER- TOP CHORD 2x4 SF BOT CHORD 2x4 SF WEBS 2x3 SF 2-17,8-	PF No.2 PF No.2 PF No.2 *Except* 10: 2x4 SPF No.2		BRACING- TOP CHORD BOT CHORD	Structural wood sheathing except end verticals, and Rigid ceiling directly appli	g directly applied or 2-11-11 oc purlins, 2-0-0 oc purlins (2-8-3 max.): 4-6. ed or 8-10-12 oc bracing.
REACTIONS. (siz Max H Max U Max G	e) 17=0-3-8, 10=0-5-8 lorz 17=45(LC 12) plift 17=-310(LC 4), 10=-331(LC 5) rav 17=1531(LC 1), 10=1570(LC 1)				OF MISSIL
FORCES. (lb) - Max. TOP CHORD 2-3=- 7-8=- 7-8=- BOT CHORD 16-17 WEBS 4-15= 2-16= 2-16=	Comp./Max. Ten All forces 250 (lb) or 2877/491, 3-4=-2727/488, 4-5=-3001/54 2618/436, 2-17=-1458/333, 8-10=-1505 7=-90/436, 15-16=-438/2667, 14-15=-37 e0/266, 4-14=-150/698, 5-14=-530/206, =-359/2246, 8-11=-377/2275	less except when shown 16, 5-6=-3001/546, 6-7=-2 (351 0/2540, 12-14=-315/2465 6-14=-165/772, 7-11=-31	2645/465, 6, 11-12=-349/2428 0/126,		JUAN GARCIA
 NOTES- 1) Unbalanced roof live 2) Wind: ASCE 7-16; \ MWFRS (envelope) grip DOL=1.60 3) Provide adequate di 4) This truss has been 5) * This truss has been will fit between the b 6) Provide mechanical 17=310, 10=331. 7) This truss is designer referenced standard 8) Graphical purlin rep 	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 live load of 20.0psf on t bottom chord and any other members. connection (by others) of truss to bearin ad in accordance with the 2018 Internation I ANSI/TPI 1. resentation does not depict the size or th	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 ne orientation of the purlin	=6.0psf; h=25ft; Cat. II; E ft and right exposed; Lun n any other live loads. eas where a rectangle 3-f anding 100 lb uplift at joir ctions R502.11.1 and R8 along the top and/or bot	xp C; Enclosed; nber DOL=1.60 plate 6-0 tall by 2-0-0 wide nt(s) except (jt=lb) 02.10.2 and tom chord.	NUMBER E-2000162101
					Inclusion & 2021

January 8,2021

16023 Swingley Ridge Rd Chesterfield, MO 63017



12

4x9 =

11

3x10 =

10

4x9 =

13

3x4 =

L	8-2-5	12-3-0	20-3-0	24-3-10	32-0-0
I	8-2-5	4-0-10	8-0-0	4-0-10	7-8-6
Plate Offsets (X,Y)	[7:0-4-15,0-2-8], [10:0-2-8,0-2-0], [14:0	-2-8,0-2-0], [15:0-3-0,0-2-8]		
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 YES Code IRC2018/TPI2014	CSI. TC 1.00 BC 0.73 WB 0.68 Matrix-S	DEFL. in Vert(LL) -0.18 Vert(CT) -0.44 Horz(CT) 0.08 Wind(LL) 0.14	(loc) I/defi L/d 13 >999 360 11-13 >863 240 9 n/a n/a 13 >999 240	PLATES GRIP MT20 197/144 Weight: 119 lb FT = 10%
LUMBER- TOP CHORD 2x4 SP 4-5: 2x BOT CHORD 2x4 SP WEBS 2x3 SP 2-15,7-	PF No.2 *Except* 4 SPF 2100F 1.8E PF No.2 PF No.2 *Except* -9: 2x6 SPF No.2		BRACING- TOP CHORD BOT CHORD WEBS	Structural wood sheathing d 2-0-0 oc purlins (2-2-0 max. Rigid ceiling directly applied 1 Row at midpt	irectly applied, except end verticals, and): 4-5. or 9-3-2 oc bracing. 4-11
REACTIONS. (size Max H Max U Max G	e) 15=0-3-8, 9=0-5-8 lorz 15=56(LC 12) plift 15=-303(LC 4), 9=-323(LC 5) rav 15=1530(LC 1), 9=1569(LC 1)				E OF MISS
FORCES. (lb) - Max. TOP CHORD 2-3=- 2-15= BOT CHORD 14-15 WEBS 3-13-	Comp./Max. Ten All forces 250 (lb) o 2868/465, 3-4=-2514/443, 4-5=-2304/4 =-1440/348, 7-9=-1483/365 5=-238/855, 13-14=-393/2626, 11-13=-3 =-384/161_4-13=-30/396_4-11=-255/18	r less except when shown. 24, 5-6=-2468/426, 6-7=-2 301/2345, 10-11=-317/2490 2, 5-11=0/370, 6-11=-272/	720/432,), 9-10=-104/523 144		GARCIA

NOTES-

=

15

8x8 =

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

2-14=-175/1775, 7-10=-245/1978

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.

14

4x9 =

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) 15=303, 9=323.

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.

NUMBER F 2000162101 6 ONALE 16952 January 8,2021

3x4 =







TCLL 25.0 TCDL 10.0 BCLL 0.0 BCDL 10.0	0 Plate G 0 Lumber 0 * Rep Str 0 Code I	Grip DOL ir DOL iress Incr IRC2018/TPI	1.15 1.15 YES 2014	TC BC WB Matrix	0.89 0.79 0.84 -S	Vert(LL) Vert(CT) Horz(CT) Wind(LL)	-0.16 -0.29 0.07 0.08	9-10 9-10 13 9-10	>999 >905 n/a >999	360 240 n/a 240	MT20 Weight: 81 lb	197/144 FT = 10%	
LUMBER-	2x4 SPF No 2 *Excer	nt*				BRACING-	D	Structu	ral wood	sheathing di	irectly applied or 2-2-0	oc purlins	

BOT CHORD

TOP CHORD 2x4 SPF No.2 *Except* 1-4: 2x4 SPF 2100F 1.8E BOT CHORD 2x4 SPF No.2 2x3 SPF No.2 *Except* WEBS 2-11: 2x8 SP 2400F 2.0E 2x4 SPF No.2 OTHERS

REACTIONS. (size) 11=0-3-8, 13=0-2-8 Max Horz 11=110(LC 5) Max Uplift 11=-86(LC 4), 13=-34(LC 4) Max Grav 11=1092(LC 1), 13=939(LC 1)

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

- TOP CHORD 2-3=-1700/71, 3-4=-1069/62, 4-5=-954/74, 2-11=-979/132, 7-12=-16/815, 6-12=-16/815
- 10-11=-91/1504, 9-10=-91/1504, 7-9=-39/552 BOT CHORD
- WEBS 3-9=-635/98, 5-9=-17/678, 5-7=-882/66, 6-13=-947/35

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) Bearing at joint(s) 13 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 7) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 13.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 11, 13.
- 9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



except end verticals, and 2-0-0 oc purlins (5-10-6 max.): 4-5.

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

January 8,2021

MiTek 16023 Swingley Ridge Rd Chesterfield, MO 63017









L	8-2-4	16-3-0		24-3-12		33-0-0	
I	8-2-4	8-0-11	1	8-0-12	1	8-8-4	1
Plate Offsets (X,Y)	[8:0-3-0,0-2-0], [9:0-2-8,0-1-8], [12:0-2-8	3,0-2-0], [13:0-3-0,0-2-8]					
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 YES Code IRC2018/TPI2014	CSI. TC 0.60 BC 0.87 WB 0.71 Matrix-S	DEFL. Vert(LL) -C Vert(CT) -C Horz(CT) C Wind(LL) C	in (loc) l/def 0.20 9-11 >999 0.41 11-12 >960 0.10 8 n/a 0.14 11-12 >999	L/d 360 240 n/a 240	PLATES MT20 Weight: 118 lb	GRIP 197/144 FT = 10%
LUMBER- TOP CHORD 2x4 \$ BOT CHORD 2x4 \$ WEBS 2x3 \$ 2-13: 2-13:	SPF 2100F 1.8E SPF No.2 SPF No.2 *Except* 2x6 SPF No.2, 6-8: 2x8 SP DSS		BRACING- TOP CHORD BOT CHORD WEBS	Structural wo except end ve Rigid ceiling o 1 Row at mid	od sheathing di erticals. lirectly applied o ot 3	rectly applied or 3-8-7 c or 9-5-0 oc bracing. 3-11, 5-11	oc purlins,
REACTIONS. (si Max Max Max	ize) 13=0-3-8, 8=0-3-8 Horz 13=-86(LC 13) Uplift 13=-281(LC 4), 8=-265(LC 5) Grav 13=1575(LC 1), 8=1542(LC 1)						MIST
FORCES. (lb) - Mai TOP CHORD 2-3 6-8	x. Comp./Max. Ten All forces 250 (lb) or =-3039/425, 3-4=-2244/327, 4-5=-2244/32 =-1455/310	less except when shown. 22, 5-6=-3161/449, 2-13=-14	490/323,			IL ATE.	S OUT
BOT CHORD 12- WEBS 3-1 6-9	13=-232/772, 11-12=-383/2796, 9-11=-34 1=-903/258, 4-11=-31/830, 5-11=-1007/27 =-107/1728	2/2906, 8-9=-246/1180 ′6, 5-9=0/269, 2-12=-196/20	030,			GAF	
NOTES- 1) Unbalanced roof li 2) Wind: ASCE 7-16; MWFRS (envelope grip DOL=1.60 3) This truss has bee 4) * This truss has bee	ve loads have been considered for this de Vult=115mph (3-second gust) Vasd=91m e) gable end zone; cantilever left and right in designed for a 10.0 psf bottom chord liv en designed for a live load of 20 0psf on t	sign. ph; TCDL=6.0psf; BCDL=6. exposed ; end vertical left a e load nonconcurrent with a he bottom chord in all areas	.0psf; h=25ft; Cat. and right exposed; iny other live loads s where a rectangle	II; Exp C; Enclosed Lumber DOL=1.60 	; plate wide	PROCE-2000	ALENO

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)

13=281, 8=265.6) 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.







L	8-2-4	15-1-8	17-4-8	24-3-10		33-0-0	
Plate Offsets (X Y)	8-2-4 [9:0-3-0 0-2-0] [10:0-2-8 0-1-8] [14:0-:	6-11-4 2-8 0-2-01 [15:0-3-0 0-2-8]	2-3-0	6-11-2		8-8-6	
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL.	in (loc) l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL 1.15	TC 0.62	Vert(LL) -	0.19 13-14 >999	360	MT20	197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.79	Vert(CT) -	0.38 13-14 >999	240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.68	Horz(CT)	0.10 9 n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014	Matrix-S	Wind(LL)	0.14 13-14 >999	240	Weight: 124 lb	FT = 10%
LUMBER-			BRACING-				
TOP CHORD 2x4 S	PF 2100F 1.8E *Except*		TOP CHORD	Structural wood	sheathing dire	ectly applied or 3-8-0 o	oc purlins,
4-5: 2	4 SPF No.2			except end vert	cals, and 2-0-	0 oc purlins (3-9-8 ma	x.): 4-5.
BOT CHORD 2x4 S	PF No.2		BOT CHORD	Rigid ceiling dir	ectly applied o	or 9-4-1 oc bracing.	
WEBS 2x3 S	PF No.2 *Except*		WEBS	1 Row at midpt	3	-13, 6-11	
2-15:	2x6 SPF No.2, 7-9: 2x8 SP DSS						
REACTIONS (siz	re) 15=0-3-8 9=0-3-8						
Max H	forz = 15 = -78(LC 9)						
Max I	Jplift 15=-289(LC 4), 9=-273(LC 5)						1111
Max 0	Grav 15=1575(LC 1), 9=1542(LC 1)					OF	MISS
	o // = /// oro/// >					NYE	
FORCES. (Ib) - Max	. Comp./Max. Ten All forces 250 (lb) o	r less except when shown.	10/101			SXY	
TOP CHORD 2-3=	-3025/439, 3-4=-2353/357, 4-5=-2160/3	75, 5-6=-2364/364, 6-7=-31	46/464,			JU	AN
	=-1490/332, 7-9=-1455/319	208/2151 10 11- 254/2800	0 10 261/1217			GAF	RCIA :
WEBS 3-13	-746/217 4-13-44/410 5-11-37/415	6-11-847/234 6-10-0/26	1			- *:	× -
2-14	188/1982 7-1098/1676	, 0-11=-847/234, 0-10=0/20	ι,			F	
2 17	= 100/1002; / 10= 00/10/0					NUN	IBER :
NOTES-						F-2000	162101
1) Unbalanced roof liv	e loads have been considered for this d	esian.					. 2.
2) Wind: ASCE 7-16:	/ult=115mph (3-second gust) Vasd=91r	nph: TCDL=6.0psf: BCDL=6	0.0psf: h=25ft: Cat.	II: Exp C: Enclosed:		1.50	GAN
MWFRS (envelope	gable end zone; cantilever left and righ	t exposed ; end vertical left	and right exposed;	Lumber DOL=1.60 p	ate	1.S/ON	AL ENIN
grip DOL=1.60		•					ALIN
3) Provide adequate c	rainage to prevent water ponding.						
4) This truss has been	designed for a 10.0 psf bottom chord lin	ve load nonconcurrent with	any other live loads	S.			MILLER.
5) * This truss has been	en designed for a live load of 20.0psf on	the bottom chord in all area	s where a rectangl	e 3-6-0 tall by 2-0-0 w	ride	111	GAD
will fit between the	nottom chard and any other members						
	bollom choru anu any olher members.					Nº UP	······································

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.



MITEK 16023 Swingley Ridge Rd Chesterfield, MO 63017



L	8-2-4	13-1-8	19-4-8	24-3-10	28-11-0 33-0-0					
	8-2-4	4-11-3	6-3-0	4-11-2	4-7-6 4-1-0					
Plate Offsets (X,Y)	[14:0-2-8,0-2-0], [15:0-3-0,0-2-8]									
LOADING (psf) TCLL 25.0 TCDL 10.0 BCLL 0.0 BCDL 10.0	SPACING-2-0-0Plate Grip DOL1.15Lumber DOL1.15Rep Stress IncrYESCode IRC2018/TPI2014	CSI. TC 0.99 BC 0.94 WB 0.74 Matrix-S	DEFL. Vert(LL) -0.2 Vert(CT) -0.4 Horz(CT) 0.1 Wind(LL) 0.1	n (loc) l/defl L/d 2 10-11 >999 360 4 11-13 >889 240 2 9 n/a n/a 2 10-11 >999 240	PLATES GRIP MT20 197/144 Weight: 122 lb FT = 10%					
LUMBER- TOP CHORD 2x4 SPF No.2 *Except* 4-5: 2x4 SPF 2100F 1.8E BRACING- TOP CHORD BOT CHORD 2x4 SPF No.2 *Except* 2x3 SPF No.2 *Except* 8-9: 2x4 SPF No.2, 2-15: 2x6 SPF No.2 BOT CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (4-2-15 max.): 4-5, 7-8. BOT CHORD 2x3 SPF No.2 *Except* 8-9: 2x4 SPF No.2, 2-15: 2x6 SPF No.2 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 2-2-0 oc bracing: 9-10. VEBS 1 Row at midpt 7-9										
REACTIONS. (size) 9=Mechanical, 15=0-3-8 Max Horz 15=45(LC 8) Max Uplift 9=-52(LC 5), 15=-97(LC 4) Max Grav 9=1465(LC 1), 15=1583(LC 1)										
FORCES. (Ib) - Max. TOP CHORD 2-3= 2-15:	Comp./Max. Ten All forces 250 (lb) ol -3015/103, 3-4=-2570/110, 4-5=-2422/1 =-1494/143	less except when shown 22, 5-6=-2606/114, 6-7=-3	ı. 3094/100,		JUAN B					
BOT CHORD 14-1 WEBS 3-13 7-9=	5=-111/848, 13-14=-67/2767, 11-13=-21 =-497/80, 4-13=0/392, 4-11=-186/262, 5 -3129/178, 2-14=0/1925	/2382, 10-11=-84/2893, 9 -11=0/410, 6-11=-585/55	9-10=-156/2976 , 6-10=0/272,							
NOTES- 1) Unbalanced roof live 2) Wind: ASCE 7-16; V MWFRS (envelope) 3) Provide adequate d 4) This truss has been will fit between the the 6) Refer to girder(s) fo 7) Provide mechanical 8) This truss is design	e loads have been considered for this de /ult=115mph (3-second gust) Vasd=91n ; cantilever left and right exposed ; end rainage to prevent water ponding. designed for a 10.0 psf bottom chord liv en designed for a live load of 20.0psf on pottom chord and any other members. r truss to truss connections. connection (by others) of truss to bearin ed in accordance with the 2018 Internati	sign. ph; TCDL=6.0psf; BCDL: vertical left and right expo e load nonconcurrent with the bottom chord in all are ng plate capable of withsta onal Residential Code see	=6.0psf; h=25ft; Cat. II; used; Lumber DOL=1.60 h any other live loads. eas where a rectangle 3 anding 100 lb uplift at jo ctions R502.11.1 and R	Exp C; Enclosed; plate grip DOL=1.60 -6-0 tall by 2-0-0 wide int(s) 9, 15. 302.10.2 and	E-2000162101					

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

16952 January 8,2021

> 16023 Swingley Ridge Rd Chesterfield, MO 63017



Left: 2x3 SPF No.2

- REACTIONS. (lb/size) 10=1471/Mechanical, 2=1583/0-3-8 Max Horz 2=64(LC 5) Max Uplift 10=-60(LC 5), 2=-100(LC 4)
- FORCES. (Ib) Max. Comp./Max. Ten. All forces 250 (Ib) or less except when shown. 2-3=-661/12, 3-4=-4978/177, 4-5=-3826/144, 5-6=-3949/171, 6-7=-3943/173, TOP CHORD 7-8=-2900/118 BOT CHORD 3-16=-150/4867, 15-16=-149/4866, 14-15=-96/3605, 6-14=-387/94, 11-12=-136/3209, 10-11 = -132/3213WEBS 4-15=-1372/86. 5-15=0/674. 5-14=-61/593. 12-14=-105/2517. 7-14=-81/1443. 8-12=-578/54. 8-10=-3373/122

NOTES-

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

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

- MWFRS (envelope); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60 3) Provide adequate drainage to prevent water ponding.
- 4) All plates are MT20 plates unless otherwise indicated.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Refer to girder(s) for truss to truss connections.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 60 lb uplift at joint 10 and 100 lb uplift at joint 2.
- 9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



AUUU

OF MIS

MiTek 16023 Swingley Ridge Rd Chesterfield, MO 63017



16023 Swingley Ridge Rd Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Lot 65 RR	
						144289090
210212	E5	ROOF SPECIAL	1	2		
				_	Job Reference (optional)	
Wheeler Lumber, Wa	verly, KS - 66871,			8.430 s N	ov 30 2020 MiTek Industries, Inc. Fri Jan 8 15:26:29 2021	Page 2
		ID:XxAs	F4MdGikvF	-307A2bz	F0yH?NM-yQKxzW0 EpQWelM4efwnd2kDpcSqX9JQqinlyc	zxNTu

NOTES-

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

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







2	-9-8 7-1-8	11-3-12	15-6-0	19-4-4	-	23-2-8		29-8-	8 33-	-0-0	
<u> </u>	<u>-9-8 4-4-0</u>	<u>4-2-4</u>		3-10-4		3-10-4	1	6-6-0) '3-	3-8	
Plate Offsets (X,Y)-	- [3:0-1-15,Edge], [9:0-3-8,	0-2-0], [14:0-6	-0,0-3-0], [18:0-4-0,0-4-4]								
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 NO PI2014	CSI. TC 0.71 BC 0.51 WB 0.85 Matrix-S	DEFL. Vert(LL) Vert(CT) Horz(CT) Wind(LL)	in -0.55 -0.95 0.34 0.35	(loc) 18 18 12 18	l/defl >717 >412 n/a >999	L/d 360 240 n/a 240	PLATES MT20 Weight: 613 lb	GRIP 197/144 FT = 10%	
LUMBER- TOP CHORD 2x6 1-4: BOT CHORD 2x6 WEBS 2x4 3-2*	LUMBER- TOP CHORD 2x6 SPF No.2 *Except* 1-4: 2x8 SP DSS BRACING- TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (5-9-13 max.): 4-11. BOT CHORD 2x6 SP 2400F 2.0E BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. WEBS 2x4 SPF No.2 *Except* 3-21: 2x6 SPF No.2 SPF No.2										
REACTIONS. (size) 12=Mechanical, 2=0-3-8 Max Horz 2=92(LC 7) Max Uplift 12=-251(LC 4), 2=-434(LC 4) Max Grav 12=2692(LC 1), 2=3418(LC 1)											
FORCES. (lb) - Ma TOP CHORD 2- 7-	ax. Comp./Max. Ten All for 3=-1551/177, 3-4=-13303/16 9=-11088/1158. 9-10=-4536/	ces 250 (lb) or 34, 4-5=-1641 452, 10-11=-4	less except when shown 6/1893, 5-6=-18183/2010 490/444, 11-12=-2667/26	, 6-7=-17733/196 2	4,				50. JU	JAN	D
BOT CHORD 3-	20=-1599/12996, 19-20=-161 5-16=-75/748 13-14=-1199/1	15/13107, 18-1 1534	9=-1885/16416, 16-17=-8	36/804,					GAI	RCIA	*
WEBS 3- 5- 7- 16	15-16=-75/748, 13-14=-1199/11534 VEBS 3-21=-30/372, 17-18=-57/654, 9-14=-154/1918, 4-20=-184/1212, 4-19=-290/3699, 5-19=-1044/122, 5-18=-131/1979, 9-13=-7273/777, 10-13=-583/117, 11-13=-503/5205, 7-16=-3674/439, 14-16=-1098/10282, 7-14=-353/666, 7-18=-878/7484, 16-18=-1101/10368										
 16-18=-1101/10368 NOTES- 1) 3-pit truss to be connected together with 10d (0.131*X3") nails as follows: Top chords connected as follows: 2x8 - 2 rows staggered at 0-9-0 oc, 2x6 - 2 rows staggered at 0-9-0 oc. Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc, 2x4 - 1 row at 0-9-0 oc. 2) All loads are considered equally applied to all piles, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated. 3) Unbalanced roof live loads have been considered for this design. 4) Wind: ASCE 7-16; Vull=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60 5) Provide adequate drainage to prevent water ponding. 6) This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members. 8) Refer to girder(s) for truss to truss to truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 12=2251, 2=434. 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1. 2divis@restated ander ANSI/TPI 1. 											
WARNING - Ve Design valid for us a truss system. Be building design. E is always required fabrication, storag Safety Informatic	rify design parameters and READ NO se only with MITek® connectors. This fore use, the building designer must aracing indicated is to prevent bucklin I for stability and to prevent collapse to e, delivery, erection and bracing of tr m available from Truss Plate Institut	TES ON THIS AND a design is based of verify the applicating of individual trus with possible perso usses and truss sy te, 2670 Crain Higt	INCLUDED MITEK REFERENC ility upon parameters shown, an ility of design parameters and p is web and/or chord members or onal injury and property damage sterns, see <u>ANS/ITPI1</u> way, Suite 203 Waldorf, MD 20	E PAGE MII-7473 rev. d is for an individual be roperly incorporate this hly. Additional tempora . For general guidance Quality Criteria, DSE 601	5/19/2020 uilding cor design ir ary and pe regarding 3-89 and 1	BEFORE nponent, r ito the ove ermanent b g the BCSI Buil	USE. not arall pracing ding Compo	onent	16023 Swingle Chesterfield, M	y Ridge Rd IO 63017	

Starting of the starting of the starting and the prevent conlapse from the possible personal input and poperty damage. To general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

Job	Truss	Truss Type	Qty	Ply	Lot 65 RR
					144289091
210212	E6	HALF HIP GIRDER	1	2	
				3	Job Reference (optional)
Wheeler Lumber,	Naverly, KS - 66871,			8.430 s N	ov 30 2020 MiTek Industries, Inc. Fri Jan 8 15:26:30 2021 Page 2
	-	ID:XxAsF4	MdGikvF3O7	A2bzF0yH	NM-QcuJBs0c?7YNGvwGCNR0AFGKk0qYGYKZ3MWsUGzxNTt

NOTES-

12) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 799 lb down and 225 lb up at 7-1-8, 247 lb down and 40 lb up at 9-2-4, 247 lb down and 40 lb up at 13-2-4, 247 lb down and 40 lb up at 15-2-4, and 247 lb down and 39 lb up at 17-2-4, and 1030 lb down and 135 lb up at 17-10-7 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

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

Uniform Loads (plf) Vert: 1-4=-70, 4-11=-70, 2-21=-20, 3-18=-20, 15-17=-20, 13-14=-20, 12-13=-20

Concentrated Loads (lb)

Vert: 20=-799(B) 19=-247(B) 22=-247(B) 23=-247(B) 24=-247(B) 25=-247(B) 26=-1030(B)





	L	5-2-8			7-0-0	7-6-0	9-4-0		11-8-	8	15-0-0	
	1	5-2-8		-	1-9-8	0-6-0	1-10-0	-	2-4-8	3	3-3-8	I
LOADING (TCLL 2 TCDL 2 BCLL BCDL 2	(psf) 25.0 10.0 0.0 * 10.0	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr Code IRC2018/TPI	2-0-0 1.15 1.15 YES 2014	CSI. TC BC WB Matrix-	0.48 0.44 0.54 -S	DEFL. Vert(LL Vert(CT Horz(C Wind(L)	in) -0.08 ⁻) -0.14 T) 0.06 L) 0.04	(loc) 2 10-11 8 11	l/defl >999 >999 n/a >999	L/d 360 240 n/a 240	PLATES MT20 Weight: 62 lb	GRIP 197/144 FT = 10%
LUMBER- TOP CHOR	D 2x4 SP 2-3,4-5:	F No.2 *Except* : 2x6 SPF No.2				BRACII TOP CH	NG- Hord	Structu except	ral wood end vertig	sheathing o cals, and 2-	directly applied or 5-7-1 0-0 oc purlins (4-0-2 m	5 oc purlins, ax.): 1-2, 3-4, 5-7.

BOT CHORD

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

	2-3,4-5: 2x6 SPF No.2					
BOT CHORD	2x4 SPF No.2 *Except*					
	2-12: 2x3 SPF No.2					
WEBS	2x3 SPF No.2					

REACTIONS. (size) 13=Mechanical, 8=Mechanical Max Horz 13=61(LC 7) Max Uplift 13=-20(LC 4), 8=-22(LC 5) Max Grav 13=666(LC 1), 8=666(LC 1)

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

 TOP CHORD
 1-13=-600/44, 1-2=-1553/18, 2-3=-1705/31, 3-4=-1252/24, 4-5=-1311/21, 5-6=-1252/33, 6-7=-1251/33, 7-8=-630/42

- BOT CHORD 2-11=-778/76, 10-11=-35/1234, 9-10=-70/1611
- WEBS 1-11=-23/1565, 3-11=-43/525, 4-10=0/286, 5-10=-461/43, 5-9=-423/16, 7-9=-50/1339

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.

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.

Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 13, 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.



11111









	3-1-8	5-2-8		9-6-8		11-8-8	+	15-0-0	
Plate Offsets (X,Y)	[6:0-1-7,0-1-8], [10:0-2-	4,0-2-0]		440		2-2-0		3-5-6	
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/	2-0-0 1.15 1.15 YES TPI2014	CSI. TC 0.44 BC 0.83 WB 0.61 Matrix-S	DEFL. Vert(LL) -0. Vert(CT) -0. Horz(CT) 0. Wind(LL) 0.	in (loc) 12 8-9 26 8-9 11 6 06 8-9	l/defl I >999 3 >683 2 n/a 1 >999 2	_/d 60 40 n/a 40	PLATES MT20 Weight: 61 lb	GRIP 197/144 FT = 10%
LUMBER- TOP CHORD 2x4 SF 2-3: 2x BOT CHORD 2x4 SF 6-7: 2x WEBS 2x3 SF 2-12: 2	PF No.2 *Except* 6 SPF No.2 PF No.2 *Except* 8 SP DSS PF No.2 *Except* x4 SPF No.2	I		BRACING- TOP CHORD BOT CHORD	Struc excep Rigid	tural wood she ot end verticals ceiling directly	eathing dire s, and 2-0- / applied o	ectly applied or 3-4-6 0 oc purlins (3-11-14 r 10-0-0 oc bracing.	oc purlins, max.): 1-2, 3-4.
REACTIONS. (size Max H Max U Max G	e) 13=Mechanical, 6= lorz 13=-43(LC 6) lplift 13=-27(LC 4), 6=-2 irav 13=668(LC 1), 6=6	Mechanical 5(LC 5) 58(LC 1)						INTE OF	MISSO
FORCES. (lb) - Max. Comp./Max. Ten All forces 250 (lb) or less except when shown. TOP CHORD 1-13=-554/26, 1-2=-1769/10, 2-3=-2181/23, 3-4=-1771/49, 4-5=-1871/42, 5-6=-2577/96 BOT CHORD 12-13=0/304, 9-10=-37/1650, 8-9=-37/1650, 7-8=-62/2243, 6-7=-69/2381 WEBS 1-10=-15/1768, 2-10=-722/43, 3-8=-47/258, 4-8=0/295, 5-8=-487/77, 5-7=-8/510, 3-10=0/529, 10-13=-264/19 NUMBER Image: Max and the state of t									
NOTES- 1) Unbalanced roof live 2) Wind: ASCE 7-16; V MWFRS (envelope) 3) Provide adequate di 4) This truss has been will fit between the b 6) Refer to girder(s) for 7) Provide mechanical 8) This truss is designer referenced standard 9) Graphical purlin repu	e loads have been consi /ult=115mph (3-second i ; cantilever left and right rainage to prevent water designed for a 10.0 psf n designed for a live loa wottom chord and any ott truss to truss connectic connection (by others) of ad in accordance with th I ANSI/TPI 1. resentation does not dep	dered for this des gust) Vasd=91mg exposed ; end væ ponding. bottom chord lived d of 20.0psf on th her members. ns. of truss to bearing e 2018 Internation bict the size or the	ign. bh; TCDL=6.0psf; BCI ertical left and right ex- load nonconcurrent vi bottom chord in all g plate capable of with nal Residential Code : e orientation of the pu	DL=6.0psf; h=25ft; Cat. II; posed; Lumber DOL=1.6 vith any other live loads. areas where a rectangle standing 100 lb uplift at ju sections R502.11.1 and F rlin along the top and/or t	Exp C; E 0 plate gr 3-6-0 tall pint(s) 13 802.10.2	inclosed; ip DOL=1.60 by 2-0-0 wide 6. and ord.		PROFILESSION	A GARCIA ENSED



January 8,2021


Scale = 1:26.9



<u> </u>	-11-8 5	-2-8	8-4-8		11-11-	- <u>0</u>	1:	5-0-0 -1-0		
Plate Offsets (X,Y)	[5:0-6-0,0-4-1], [6:0-3-11,0-1	- <u>3-0</u> -4], [10:0-7-4,0-3-0]	5-2-0		5-0-0	,		-1-0		
LOADING (psf) TCLL 25.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING- 2 Plate Grip DOL Lumber DOL Rep Stress Incr Code IRC2018/TPI20	-0-0 C 1.15 T 1.15 B NO W 014 M	SI. C 0.63 C 0.42 /B 0.67 atrix-S	DEFL. Vert(LL) Vert(CT) Horz(CT) Wind(LL)	in (loc) -0.22 9 -0.42 9 0.15 6 0.23 9	l/defl L/d >790 360 >414 240 n/a n/a >759 240	PI M'	ATES T20 eight: 57 lb	GRIP 197/144 FT = 10 ⁶	%
LUMBER- TOP CHORD 2x4 SF BOT CHORD 2x4 SF 6-8: 2x WEBS 2x3 SF 3-11: 2	PF No.2 PF 2400F 2.0E *Except* 8 SP DSS PF No.2 *Except* x4 SPF No.2, 1-13: 2x6 SPF	No.2		BRACING- TOP CHOR BOT CHOR	D Struct excep D Rigid 6 8-9-15	ural wood sheath t end verticals, a ceiling directly ap 5 oc bracing: 9-10	ing directly app nd 2-0-0 oc purl plied or 10-0-0).	lied or 3-0-1 ins (2-9-12 r oc bracing,	1 oc purlins, nax.): 2-5. Except:	
REACTIONS. (size Max H Max U Max G	e) 13=Mechanical, 6=0-3-8 orz 13=-25(LC 34) plift 13=-182(LC 4), 6=-224(I rav 13=681(LC 1), 6=756(LC	_C 5) C 1)						VE OF	MISS	11
FORCES. (lb) - Max. TOP CHORD 1-2=- 1-13=	Comp./Max. Ten All forces 1149/325, 2-3=-2905/788, 3- =-632/189	250 (lb) or less exc 4=-3327/872, 4-5=-	ept when showr 3327/872, 5-6=-	ו. 3210/841,			110	JI		A
WEBS 2-12= 1-12	2=-113/425, 9-10=-891/3432, =-429/174, 10-12=-194/723, 2 =-258/938, 4-9=-253/123	8-9=-682/2505, 6-8 2-10=-475/1878, 5-9	=-778/3019 =-158/891, 5-8=	150/867,			* PF	NU	MBER	ж Ц.
NOTES- 1) Unbalanced roof live 2) Wind: ASCE 7-16; V MWFRS (envelope) grip DOL=1.60 3) Provide adequate di	e loads have been considered (ult=115mph (3-second gust) gable end zone; cantilever le rainage to prevent water pone	d for this design. Vasd=91mph; TCD oft and right exposed ding.	L=6.0psf; BCDL I ; end vertical le	=6.0psf; h=25ft; Ca oft and right expose	t. II; Exp C; E d; Lumber DC	nclosed; DL=1.60 plate	1111	E-200	0162101	ALL
 4) This truss has been 5) * This truss has bee will fit between the b 6) Refer to girder(s) for 	designed for a 10.0 psf botto n designed for a live load of 2 ottom chord and any other m truss to truss connections	m chord live load no 20.0psf on the botto nembers.	nconcurrent wit n chord in all ar	h any other live loa eas where a rectan	ds. gle 3-6-0 tall b	oy 2-0-0 wide		IL JUAN	GARCIA	1111
7) Bearing at joint(s) 6 capacity of bearing s8) Provide mechanical	considers parallel to grain va surface. connection (by others) of true	lue using ANSI/TPI	1 angle to grain apable of withst	formula. Building of anding 100 lb uplift	lesigner shou at joint(s) exc	ld verify cept (jt=lb)			ENSEO	
 13=182, 6=224. 9) This truss is designed referenced standard 10) Opencies and and and an an	ed in accordance with the 201 ANSI/TPI 1.	8 International Res	dential Code se	ctions R502.11.1 a	nd R802.10.2	and			952 h.	E
10) Graphical purilin re 11) Hanger(s) or other 2-11-8, 65 lb down 43 lb up at 9-3-0, a	connection does not depict connection device(s) shall be and 44 lb up at 3-3-4, 65 lb and 147 lb down and 171 lb u	the size of the orien e provided sufficient down and 43 lb up ip at 11-6-8 on top	to support conc at 5-3-4, 65 lb d chord, and 29 lb	entrated load(s) 82 own and 43 lb up a down at 2-11-8, 1	b/or bottom cr lb down and t 7-3-0, and 6 6 lb down at	hord. 126 lb up at 65 lb down and 3-3-4, 16 lb		RE SIC	ANSAS.	MILLIN
down at 5-0-12, 16 The design/selection	5 Ib down at 7-3-0, 16 Ib dow on of such connection device E(S) section, loads applied to	in at 9-3-0, and 16 (s) is the responsibi the face of the truss	b down at 11-3 ity of others. are noted as fro	-0, and 29 lb down ont (F) or back (B).	at 11-5-12 or	bottom chord.		Janu	uary 8,202	21
WARNING - Verify Design valid for use o a truss system. Before building design. Braci is always required for fabrication, storage, d Safety Information	design parameters and READ NOTES nly with MITek® connectors. This de- buse, the building designer must vering indicated is to prevent buckling of stability and to prevent collapse with elivery, erection and bracing of truss available from Truss Plate Institute, 2	ON THIS AND INCLUDE sign is based only upon p ify the applicability of des i individual truss web and possible personal injury es and truss systems, set 670 Crain Highway, Suite	D MITEK REFERENC arameters shown, ar gn parameters and p for chord members c and property damage ANSI/TPI 2 203 Waldorf, MD 20	CE PAGE MII-7473 rev. 5 nd is for an individual bui properly incorporate this nly. Additional tempora . For general guidance 1 Quality Criteria, DSB- 0601	(19/2020 BEFORE Iding component, design into the ov y and permanent regarding the 89 and BCSI Bu	E USE. not verall bracing ilding Component		Mitek 16023 Swingl Chesterfield,	ey Ridge Rd MO 63017	

Job	Truss	Truss Type	Qty	Ply	Lot 65 RR	
040040						144289094
210212	G3	Hip Girder	1	1	Job Reference (optional)	
Wheeler Lumber. Wa	verlv. KS - 66871.			8.430 s N	ov 30 2020 MiTek Industries, Inc. Fri Jan 8 15:26:34 2021	Page 2

ID:XxAsF4MdGikvF3O7A2bzF0yH?NM-JN8q0D373M2pkWE2RCWyK5R2_dEzCP69_U3d1zxNTp

LOAD CASE(S) Standard

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

Vert: 1-2=-70, 2-5=-70, 5-7=-70, 11-13=-20, 8-10=-20, 6-8=-20

Concentrated Loads (lb)

Vert: 2=-3(B) 5=-6(B) 11=-5(B) 3=-3(B) 12=-0(B) 14=-3(B) 15=-3(B) 16=-3(B) 17=-5(B) 18=-5(B) 19=-5(B) 20=-6(B)









	2-1-8 2-1-8		<u>5-11-0</u> 3-9-8			9-8-8 3-9-8			<u>11-10-0</u> 2-1-8	
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/TP	2-0-0 1.15 1.15 NO I2014	CSI. TC 0.19 BC 0.33 WB 0.28 Matrix-S	DEFL. Vert(LL) Vert(CT) Horz(CT) Wind(LL)	in -0.03 -0.06 0.03 0.03	(loc) 10 10 8 10	l/defl >999 >999 n/a >999	L/d 360 240 n/a 240	PLATES MT20 Weight: 46 lb	GRIP 197/144 FT = 10%

TOP CHORD

BOT CHORD

LUMBER-

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

REACTIONS. (size) 12=0-3-8, 8=0-3-8 Max Horz 12=-48(LC 6) Max Uplift 12=-267(LC 4), 8=-267(LC 5) Max Grav 12=620(LC 1), 8=620(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-12=-606/265, 2-3=-535/246, 3-4=-494/241, 4-5=-484/227, 5-6=-525/231, 6-8=-606/278

BOT CHORD 10-11=-390/1027, 9-10=-390/1027

WEBS 2-11=-226/577. 4-11=-598/203. 4-9=-598/205. 6-9=-219/572

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) Bearing at joint(s) 12, 8 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 12=267, 8=267.
- This truss 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.
 10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 117 lb down and 106 lb up at 2-0-0, 55 lb down and 27 lb up at 3-11-0, 55 lb down and 27 lb up at 5-11-0, and 55 lb down and 27 lb up at 7-11-0, and 117 lb down and 106 lb up at 9-10-0 on top chord, and 28 lb down and 37 lb up at 1-10-12, 18 lb down and 21 lb up at 3-11-0, 18 lb down and 21 lb up at 5-11-0, and 18 lb down and 12 lb up at 7-11-0, and 18 lb down and 21 lb up at 7-11-0, and 18 lb down and 21 lb up at 7-11-0, and 18 lb down and 21 lb up at 7-11-0, and 28 lb down and 37 lb up at 3-11-0. 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).

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. 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



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

except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 3-5.

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



Job	Truss	Truss Type	Qty	Ply	Lot 65 RR	
						144289095
210212	H1	Hip Girder	1	1		
					Job Reference (optional)	
Wheeler Lumber, Wav	erly, KS - 66871,			8.430 s No	ov 30 2020 MiTek Industries, Inc. Fri Jan 8 15:26:35 2021	Page 2

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LOAD CASE(S) Standard

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

Vert: 1-2=-70, 2-3=-70, 3-5=-70, 5-6=-70, 6-7=-70, 11-12=-20, 9-11=-20, 8-9=-20 Concentrated Loads (lb)

Vert: 11=5(F) 10=2(F) 9=5(F) 15=2(F) 16=2(F)





	3-3-8 3-3-8	8-6-8 5-3-0		+ <u>11-</u> 3-;	10-0 3-8	
LOADING (psf) TCLL 25.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING-2-0-0Plate Grip DOL1.15Lumber DOL1.15Rep Stress IncrYESCode IRC2018/TPI2014	CSI. DEFI TC 0.21 Vert(BC 0.30 Vert(WB 0.24 Horzt Matrix-S Wind	. in (loc) I L) -0.04 8-9 > CT) -0.08 8-9 > CT) 0.03 7 LL) 0.02 8-9 >	/defl L/d •999 360 •999 240 n/a n/a •999 240	PLATES MT20 Weight: 45 lb	GRIP 197/144 FT = 10%

TOP CHORD

BOT CHORD

LUMBER-

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

REACTIONS. (size) 10=0-3-8, 7=0-3-8 Max Horz 10=-40(LC 6) Max Uplift 10=-154(LC 4), 7=-154(LC 5) Max Grav 10=627(LC 1), 7=627(LC 1)

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

TOP CHORD 2-10=-602/162, 2-3=-794/114, 3-4=-726/159, 4-5=-793/121, 5-7=-602/172

BOT CHORD 8-9=-92/727 WEBS 2-9=-55/711, 5-8=-70/709

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) Bearing at joint(s) 10, 7 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.

 Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 10=154, 7=154.

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.



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.

16023 Swingley Ridge Rd Chesterfield, MO 63017



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January 8,2021





REACTIONS. (size) 8=0-4-9, 5=Mechanical Max Horz 8=64(LC 5) Max Uplift 8=-105(LC 4), 5=-46(LC 8)

Max Grav 8=347(LC 1), 5=225(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-8=-332/125

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 except (jt=lb) 8=105.
- 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) 67 lb down and 31 lb up at 2-9-8, and 67 lb down and 31 lb up at 2-9-8 on top chord, and 2 lb down and 0 lb up at 2-7-15, and 2 lb down and 0 lb up at 2-7-15 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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

Vert: 7=1(F=0, B=0)



ALL DI

16023 Swingley Ridge Rd Chesterfield, MO 63017



					2-0-0				2-0-0			
Plate Offse	ts (X,Y)	[3:0-5-12,0-1-13], [3:0-0-4,	0-1-0]									
LOADING	(psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL TCDL	25.0 10.0	Plate Grip DOL Lumber DOL	1.15 1.15	TC BC	0.18 0.17	Vert(L Vert(C	L) -0.02 T) -0.05	6 6	>999 >999	360 240	MT20	197/144
BCLL BCDL	0.0 * 10.0	Rep Stress Incr Code IRC2018/TPI	YES 2014	WB Matri	0.00 x-R	Horz(0 Wind(I	CT) 0.02 L) 0.03	5 6	n/a >999	n/a 240	Weight: 12 lb	FT = 10%

LUMBER-

2x4 SPF No.2 TOP CHORD BOT CHORD 2x4 SPF No.2 *Except* 3-6: 2x3 SPF No.2 WEBS 2x3 SPF No.2

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

REACTIONS. (size) 7=0-3-8, 4=Mechanical, 5=Mechanical Max Horz 7=63(LC 4) Max Uplift 7=-56(LC 4), 4=-46(LC 8)

Max Grav 7=263(LC 1), 4=113(LC 1), 5=75(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) 7, 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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	1-10-15									
LOADING TCLL TCDI	6 (psf) 25.0	SPACING- 2-0-0 Plate Grip DOL 1.15	CSI. TC 0.06 BC 0.02	DEFL. in Vert(LL) -0.00 Vert(CT) -0.00	(loc) 5 4-5	l/defl >999	L/d 360 240	PLATES MT20	GRIP 197/144	
BCLL BCDL	0.0 * 10.0	Rep Stress Incr YES Code IRC2018/TPI2014	WB 0.00 Matrix-R	Horz(CT) -0.00 Wind(LL) 0.00	35	n/a >999	n/a 240	Weight: 6 lb	FT = 10%	

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

BRACING-TOP CHORD

BOT CHORD

Structural wood sheathing directly applied or 1-10-15 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=35(LC 4) Max Uplift 5=-57(LC 4), 3=-26(LC 8)

Max Grav 5=168(LC 1), 3=46(LC 1), 4=33(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.



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LOADING TCLL TCDL BCLL	(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 0.06 BC 0.02 WB 0.00	DEFL. Vert(LL) Vert(CT) Horz(CT)	in 0.00 -0.00 -0.00	(loc) 1 1 4	l/defl n/r n/r n/a	L/d 120 120 n/a	PLATES MT20	GRIP 197/144
BCDL	10.0	Code IRC2018/TPI2014	Matrix-R						Weight: 7 lb	FT = 10%

TOP CHORD

BOT CHORD

LUMBER-

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

WEBS 2x3 SPF No.2 **REACTIONS.** (size) 5=2-0-0, 4=2-0-0

Max Horz 5=49(LC 5) Max Uplift 5=-63(LC 4), 4=-14(LC 5) Max Grav 5=168(LC 1), 4=62(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) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 3) Gable requires continuous bottom chord bearing.
- 4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 5) Gable studs spaced at 2-0-0 oc.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 4.
- 9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



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Structural wood sheathing directly applied or 2-0-0 oc purlins,

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

except end verticals.

16023 Swingley Ridge Rd Chesterfield, MO 63017



			2-0-0	
LOADING (psf) TCLL 25.0 TCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Pop Stross Lazr XES	CSI. TC 0.06 BC 0.02	DEFL. in (loc) l/defl L/d Vert(LL) -0.00 5 >999 360 Vert(CT) -0.00 5 >999 240 Horr(CT) 0.00 4 p/g p/g	PLATES GRIP MT20 197/144
BCDL 10.0	Code IRC2018/TPI2014	Matrix-R	Wind(LL) 0.00 5 >999 240	Weight: 7 lb FT = 10%

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

WEBS 2x3 SPF No.2

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

Max Uplift 5=-63(LC 4), 4=-14(LC 5) Max Grav 5=168(LC 1), 4=62(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) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide 3) will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 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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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



BRACING-TOP CHORD

Structural wood sheathing directly applied or 2-0-0 oc purlins, except end verticals.

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

Job	Truss	Truss Type	Qty	Ply	Lot 65 RR
210212	174	IACK-CLOSED SUPPORTE	2	1	14428910
210212	577	SACK-CEOSED SOFF ORTE	2		Job Reference (optional)
Wheeler Lumber, V	Vaverly, KS - 66871,	ID	:XxAsF4MdGikv 1-0-0	8.430 s N F3O7A2bzF	Vov 30 2020 MiTek Industries, Inc. Fri Jan 8 15:27:05 2021 Page 1 0yH?NM-vLWYXqRZmtyPyH6?IDZE5eDUW7vkyaEj6JVCDkzxNTK
		0-4-8	1-0-0		
		4.00 12	4x9 ==	3	Scale = 1:7
				4	

DEFL

Vert(LL)

Vert(CT)

Horz(CT)

BRACING-

TOP CHORD

BOT CHORD

(loc)

1

1

4

l/defl

n/r

n/r

n/a

except end verticals.

L/d

120

120

n/a

in

0.00

-0.00

-0.00

ł

0.03

0.00

0.00

CSI.

тс

BC

WB

Matrix-P

LUMBER-

TCLL

TCDL

BCLL

BCDL

Plate Offsets (X,Y)--

LOADING (psf)

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

25.0

10.0

0.0

10.0

REACTIONS. (size) 4=1-0-0, 2=1-0-0

Max Horz 2=21(LC 5) Max Uplift 4=-7(LC 16), 2=-50(LC 4) Max Grav 4=10(LC 4), 2=106(LC 1)

Plate Grip DOL

Rep Stress Incr

Code IRC2018/TPI2014

Lumber DOL

[3:0-2-13,0-1-12] SPACING-

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

3) Gable requires continuous bottom chord bearing.

- 4) Gable studs spaced at 2-0-0 oc.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

2-0-0

1.15

1.15

YES

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



PLATES

Weight: 3 lb

MT20

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

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

GRIP

197/144

FMIS

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FT = 10%



Job	Truss	Truss Type	Qty	Ply	Lot 65 RR
210212	J8A	JACK-CLOSED	2	1	144289104
Wheeler Lumber, W	/averly, KS - 66871,	ID:XxAsF4	//dGikvF30 1-0-0 1-0-0	8.430 s N 07A2bzF0yl] Job Reference (optional) lov 30 2020 MiTek Industries, Inc. Fri Jan 8 15:27:06 2021 Page 1 H?NM-NX4wkASBWB4GaRhBJw5TdrmfbWFvh1UtLzEmmBzxNTJ —
		4.00 12 4x9	1	3	Scale = 1:7.
				4	

	1-0-0	
	1-0-0	
Plate Offsets (X,Y) [3:0-2-13,0-1-12]		

LOADING (psf) TCLL 25.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING-2-0-0Plate Grip DOL1.15Lumber DOL1.15Rep Stress IncrYESCode IRC2018/TPI2014	CSI. TC 0.01 BC 0.01 WB 0.00 Matrix-P	DEFL. in Vert(LL) -0.00 Vert(CT) -0.00 Horz(CT) -0.00 Wind(LL) 0.00	(loc) 2 2 4 2	l/defl >999 >999 n/a	L/d 360 240 n/a 240	PLATES MT20 Weight: 3 lb	GRIP 197/144 FT = 10%	
LUMBER-		Mali IX-F	BRACING-	2		240	Weight. 5 lb	FT = 1076	

TOP CHORD

BOT CHORD

LUMBER-

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

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

Max Horz 2=21(LC 5) Max Uplift 4=-8(LC 8), 2=-26(LC 4) Max Grav 4=32(LC 1), 2=74(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) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 2.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

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

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

except end verticals.

MiTek 16023 Swingley Ridge Rd Chesterfield, MO 63017



			0-2-1		2-0-11		
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 0.04 WB 0.00	DEFL. Vert(LL) -(Vert(CT) -(Horz(CT) -(in (loc) 0.00 5 0.00 4-5	l/defl L/d >999 360 >999 240	PLATES MT20	GRIP 197/144
BCDL 10.0	Code IRC2018/TPI2014	Matrix-R	Wind(LL) -	0.00 5	>999 240	Weight: 8 lb	FT = 10%

TOP CHORD

BOT CHORD

LUMBER-

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

2x4 SPF No.2

REACTIONS. 5=0-4-15, 3=Mechanical, 4=Mechanical (size) Max Horz 5=43(LC 7)

Max Uplift 5=-141(LC 6), 3=-15(LC 12) Max Grav 5=133(LC 1), 3=8(LC 4), 4=27(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 except (it=lb) 5=141.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 22 lb down and 8 lb up at -1-11-5, and 22 lb down and 8 lb up at -1-11-5 on top chord. The design/selection of such connection device(s) is the responsibility of others
- 8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
- Concentrated Loads (lb)
 - Vert: 1=-35(F=-18, B=-18)
- Trapezoidal Loads (plf)
 - Vert: 1=-0(F=35, B=35)-to-6=-24(F=23, B=23), 6=0(F=35, B=35)-to-2=-13(F=29, B=29), 2=-13(F=29, B=29)-to-3=-49(F=10, B=20)-to-3=-49(F=10, B=20)-to-3=-40+to-3=-40-to-3=-40+to-3=-40-to-3=-40+to-3=-40-to-3=-40-to-3=-40+to-3=-40-to-3=-40+to-3=-40-to-3=-40+to-3=-40-to-3=-40-to-3=-40+to-3=-40-to-3=-40+to-3=-40-to-3=-40-to-3=-40+to-3=-40-to-3=-40+to-3=-40-to-3=-40+to-3=-40-to-3=-40+to-3=-40-to-3=-40+to-3=-40-to-3=-40+to-3=-40-to-3=-40+to-3=-40-to-3=-40+to-3=-40-to-3=-40+to-3=-40-to-3=-40+to-3=-40-to-3=-40+to B=10), 5=-4(F=8, B=8)-to-4=-14(F=3, B=3)



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

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

except end verticals.



January 8,2021



				0-2-0	1-6-0	1	
LOADING TCLL	(psf) 25.0	SPACING- 2-0-0 Plate Grip DOL 1.15	CSI. TC 0.14	DEFL. Vert(LL)	in (loc) -0.00 5	l/defl L/d >999 360	PLATES GRIP MT20 197/144
TCDL	10.0	Lumber DOL 1.15 Rep Stress Incr. VES	BC 0.02	Vert(CT)	-0.00 5	>999 240	
BCDL	10.0	Code IRC2018/TPI2014	Matrix-R	Wind(LL)	0.00 5	>999 240	Weight: 6 lb FT = 10%

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

2x3 SPF No.2

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

Max Horz 5=38(LC 4) Max Uplift 5=-90(LC 4), 3=-15(LC 8)

Max Grav 5=223(LC 1), 3=13(LC 1), 4=27(LC 3)

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

NOTES-

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



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BRACING-TOP CHORD BOT CHORD

Structural wood sheathing directly applied or 1-8-0 oc purlins, except end verticals.

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



				6-0-1
LOADING	(psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d PLATES GRIP Vert(LL) -0.05 4-5 >999 360 MT20 197/144
TCLL	25.0	Plate Grip DOL 1.15	TC 0.43	
TCDL	10.0	Lumber DOL 1.15	BC 0.30	Vert(CT) -0.09 4-5 >766 240
BCLL	0.0 *	Rep Stress Incr NO	WB 0.00	Horz(CT) 0.00 4 n/a n/a
BCDL	10.0	Code IRC2018/TPI2014	Matrix-R	Wind(LL) 0.01 4-5 >999 240 Weight: 18 lb FT = 10%

TOP CHORD

BOT CHORD

LUMBER-

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

WEBS 2x3 SPF No.2 REACTIONS. (size) 5=0-4-9, 4=Mechanical

Max Horz 5=90(LC 5) Max Uplift 5=-145(LC 4), 4=-47(LC 8)

Max Grav 5=427(LC 1), 4=233(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-5=-378/183

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) 4 except (jt=lb) 5=145.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 68 lb down and 30 lb up at 3-3-2, and 68 lb down and 30 lb up at 3-3-2 on top chord, and 4 lb down and 2 lb up at 3-3-2, and 4 lb down and 2 lb up at 3-3-2 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=5(F=2, B=2)



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

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

except end verticals.





				2-2-15
LOADING TCLL	G (psf) 25.0	SPACING- 2-0-0 Plate Grip DOL 1.15	CSI. TC 0.14	DEFL. in (loc) I/defl L/d PLATES GRIP 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 5 >999 240 Weight: 7 lb FT = 10%

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

2x3 SPF No.2

BRACING-TOP CHORD

BOT CHORD

Structural wood sheathing directly applied or 2-2-15 oc purlins, except end verticals. Rigid ceiling directly applied or 10-0-0 oc bracing.

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

Max Uplift 5=-87(LC 4), 3=-27(LC 8)

Max Grav 5=234(LC 1), 3=42(LC 1), 4=38(LC 3)

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

NOTES-

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



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MiTek 16023 Swingley Ridge Rd Chesterfield, MO 63017



				4-4-0	
LOADIN 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 0.19 BC 0.13 WB 0.00	DEFL. in (loc) l/defl L/d PLATES GRIP Vert(LL) -0.01 4-5 >999 360 MT20 197/144 Vert(CT) -0.02 4-5 >999 240 197/144 Horz(CT) -0.00 4 n/a n/a 197/144	
BCDL	10.0	Code IRC2018/TPI2014	Matrix-R	Wind(LL) 0.00 4-5 >999 240 Weight: 14 lb FT = 10%	

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

- WEBS 2x3 SPF No.2
- REACTIONS. 5=0-3-8, 4=Mechanical (size) Max Horz 5=94(LC 5) Max Uplift 5=-100(LC 4), 4=-37(LC 8) Max Grav 5=308(LC 1), 4=167(LC 1)

FORCES. (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) or less except when shown. TOP CHORD 2-5=-271/129

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, 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.

Wint PROM JUAN GARCIA NUMBER E-2000162101 3 3 E ONAL 1111 16952 BORNAL ENGLAND MANULLI I JOIT January 8,2021

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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



BRACING-TOP CHORD BOT CHORD

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



			1				7-8-9					1
			Γ				7-8-3					1
Plate Offs	ets (X,Y)	[4:Edge,0-1-8]										
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	тс	0.77	Vert(LL)	-0.12	4-5	>774	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.50	Vert(CT)	-0.24	4-5	>378	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.00	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code IRC2018/TF	PI2014	Matri	x-R	Wind(LL)	0.02	4-5	>999	240	Weight: 23 lb	FT = 10%
											e e	

LUMBER-

2x4 SPF No.2 TOP CHORD BOT CHORD 2x4 SPF No.2 WEBS 2x3 SPF No.2 *Except* 3-4: 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 10-0-0 oc bracing.

REACTIONS. (size) 5=0-4-3, 4=Mechanical Max Horz 5=106(LC 5) Max Uplift 5=-158(LC 4), 4=-71(LC 8)

Max Grav 5=495(LC 1), 4=319(LC 1)

FORCES. (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) or less except when shown. TOP CHORD 2-5=-439/210

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=158
- 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) 70 lb down and 72 lb up at 2-1-12, 70 lb down and 72 lb up at 2-1-12, and 84 lb down and 57 lb up at 4-11-11, and 84 lb down and 57 lb up at 4-11-11 on top chord, and 3 lb down and 5 lb up at 2-1-12, 3 lb down and 5 lb up at 2-1-12, and 17 lb down at 4-11-11, and 17 lb down at 4-11-11 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: 8=10(F=5, B=5) 9=-8(F=-4, B=-4)



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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 0.44 BC 0.27 WB 0.00 Matrix-R	DEFL. in Vert(LL) -0.04 Vert(CT) -0.09 Horz(CT) 0.03 Wind(LL) 0.02	(loc) l/defl 4-5 >999 4-5 >740 3 n/a 4-5 >999	L/d 360 240 n/a 240	PLATES MT20 Weight: 15 lb	GRIP 197/144 FT = 10%

TOP CHORD

BOT CHORD

LUMBER-

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

REACTIONS. 5=0-3-8, 3=Mechanical, 4=Mechanical (size) Max Horz 5=65(LC 4) Max Uplift 5=-47(LC 4), 3=-46(LC 8)

Max Grav 5=360(LC 1), 3=167(LC 1), 4=102(LC 3)

FORCES. (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) or less except when shown. TOP CHORD 2-5=-313/88

NOTES-

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

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

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

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

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

WILL PROM JUAN GARCIA NUMBER E-2000162101 IGO JOIN 44000 January 8,2021

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Structural wood sheathing directly applied or 5-6-8 oc purlins,

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

except end verticals.





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 BCDI 10.0 Code IBC2018/TPI2014	CSI. DEFL TC 0.14 Vert(L BC 0.09 Vert(C WB 0.00 Horz(Matrix-R	in (loc) l/defl L/d L) -0.01 4-5 >999 360 T) -0.01 4-5 >999 240 CT) -0.00 3 n/a n/a L) 0.00 4-5 >999 240	PLATES GRIP MT20 197/144 Weight: 10 lb ET = 10%

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

BOT CHORD

Structural wood sheathing directly applied or 3-5-7 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=62(LC 4)

Max Uplift 5=-87(LC 4), 3=-48(LC 8)

Max Grav 5=275(LC 1), 3=92(LC 1), 4=61(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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				1-3-7
LOADIN	G (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d PLATES GRIP
TCLL	25.0	Plate Grip DOL 1.15	TC 0.14	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/TPI2014	Matrix-R	Wind(LL) 0.00 5 >999 240 Weight: 5 lb FT = 10%

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

BRACING-TOP CHORD

BOT CHORD

Structural wood sheathing directly applied or 1-5-7 oc purlins, except end verticals. Rigid ceiling directly applied or 10-0-0 oc bracing.

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

Max Horz 5=36(LC 4)

Max Uplift 5=-93(LC 4), 3=-10(LC 8) Max Grav 5=221(LC 1), 3=3(LC 19), 4=23(LC 3)

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

NOTES-

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



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				2-6-5	
	G (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d PLATES GRIP	
TCLL	25.0	Plate Grip DOL 1.15	IC 0.23	Vert(LL) -0.00 4-5 >999 360 M120 19//144	
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 >999 240 Weight: 8 lb FT = 10%	

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

BRACING-TOP CHORD

BOT CHORD

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

2-6-5

REACTIONS. 5=0-4-9, 3=Mechanical, 4=Mechanical (size) Max Horz 5=46(LC 7) Max Uplift 5=-128(LC 6), 3=-30(LC 12), 4=-1(LC 19)

Max Grav 5=148(LC 1), 3=6(LC 4), 4=31(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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 4 except (jt=lb) 5=128
- 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) 28 lb down and 10 lb up at -1-11-5, and 28 lb down and 10 lb up at -1-11-5 on top chord. The design/selection of such connection device(s) is the responsibility of others.
- 8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
- Concentrated Loads (lb)
 - Vert: 1=-44(F=-22, B=-22)
- Trapezoidal Loads (plf)
 - Vert: 1=-0(F=35, B=35)-to-6=-29(F=21, B=21), 6=0(F=35, B=35)-to-2=-7(F=31, B=31), 2=-7(F=31, B=31)-to-3=-50(F=10, B=10), 5=-2(F=9, B=9)-to-4=-14(F=3, B=3)



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				1-10-0	
LOADING	(psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d PLATES GRIP	
TCLL	25.0	Plate Grip DOL 1.15	TC 0.14	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/TPI2014	Matrix-R	Wind(LL) 0.00 5 >999 240 Weight: 6 lb FT = 10%	

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

BRACING-TOP CHORD

BOT CHORD

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

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

Max Horz 5=41(LC 4) Max Uplift 5=-89(LC 4), 3=-20(LC 8)

Max Grav 5=226(LC 1), 3=25(LC 1), 4=31(LC 3)

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

NOTES-

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



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	1			8-8-9					1
				8-8-9					
Plate Offsets (X,Y)	[3:0-3-0,Edge], [4:Edge,0-3-8], [5:0-5-5	,0-1-8]							
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL 1.15	TC 0.69	Vert(LL)	-0.18	4-5	>543	360	MT20	197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.67	Vert(CT)	-0.39	4-5	>260	240		
BCLL 0.0 *	Rep Stress Incr NO	WB 0.00	Horz(CT)	0.00	4	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014	Matrix-R	Wind(LL)	0.05	4-5	>999	240	Weight: 26 lb	FT = 10%
			PRACINIC						

TOP CHORD

BOT CHORD

LUMBER-

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

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

REACTIONS. (size) 5=0-4-9, 4=Mechanical Max Horz 5=117(LC 7) Max Uplift 5=-174(LC 4), 4=-88(LC 8) Max Grav 5=564(LC 1), 4=399(LC 1)

FORCES. (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) or less except when shown. TOP CHORD 2-5=-496/237, 3-4=-279/136

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=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) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 68 lb down and 28 lb up at 3-1-12, 68 lb down and 28 lb up at 3-1-12, and 95 lb down and 66 lb up at 5-11-11, and 95 lb down and 66 lb up at 5-11-11 on top chord, and 3 lb down and 3 lb up at 3-1-12, 3 lb down and 3 lb up at 3-1-12, and 24 lb down at 5-11-11, and 24 lb down at 5-11-11 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=-39(F=-20, B=-20) 8=5(F=3, B=3) 9=-27(F=-14, B=-14)



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			I				7-1	1-11				1
Plate Offse	ets (X,Y)	[2:0-2-8,0-1-4], [4:Edge,0-	-1-8]									
			•									
LOADING	(psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.76	Vert(LL)	-0.15	4-5	>641	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.57	Vert(CT)	-0.29	4-5	>322	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.00	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code IRC2018/TP	912014	Matrix	-R	Wind(LL)	-0.03	4-5	>999	240	Weight: 25 lb	FT = 10%

LUMBER-

TOP CHORD 2x4 SPF No.2 BOT CHORD 2x4 SPF No.2 WEBS 2x3 SPF No.2 *Except* 3-4: 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 10-0-0 oc bracing.

REACTIONS. (size) 5=0-7-0, 4=Mechanical Max Horz 5=119(LC 7) Max Uplift 5=-181(LC 4), 4=-65(LC 8)

Max Grav 5=559(LC 1), 4=326(LC 1)

FORCES. (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) or less except when shown. TOP CHORD 2-5=-492/233

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=181.
- 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) 66 lb down and 119 lb up at 2-5-4, 68 lb down and 28 lb up at 2-5-4, and 84 lb down and 56 lb up at 5-3-3, and 95 lb down and 66 lb up at 5-3-3 on top chord, and 4 lb down and 7 lb up at 2-5-4, 3 lb down and 3 lb up at 2-5-4, and 18 lb down at 5-3-3, and 24 lb down at 5-3-3 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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

Uniform Loads (plf) Vert: 1-2=-70, 2-3=-70, 4-5=-20

Concentrated Loads (lb)

Vert: 6=32(F) 7=-20(B) 8=10(F=7, B=3) 9=-16(F=-2, B=-14)



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			6-3-0	
LOADING (psf) TCLL 25.0	SPACING- 2-0-0 Plate Grip DOL 1.15	CSI. TC 0.49	DEFL. in (loc) I/defl L/d Vert(LL) -0.06 4-5 >999 360	PLATES GRIP MT20 197/144
TCDL 10.0 BCLL 0.0 * BCDL 10.0	Lumber DOL 1.15 Rep Stress Incr YES Code IRC2018/TPI2014	BC 0.31 WB 0.00 Matrix-R	Vert(CT) -0.11 4-5 >636 240 Horz(CT) 0.00 4 n/a n/a Wind(LL) 0.01 4-5 >999 240	Weight: 19 lb FT = 10%

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

WEBS 2x3 SPF No.2

BRACING-TOP CHORD

BOT CHORD

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

- REACTIONS. (size) 5=0-3-8, 4=Mechanical Max Horz 5=92(LC 7) Max Uplift 5=-57(LC 4), 4=-18(LC 8) Max Grav 5=388(LC 1), 4=259(LC 1)
- FORCES. (lb) Max. Comp./Max. Ten. All forces 250 (lb) or less except when shown. TOP CHORD 2-5=-340/98

NOTES-

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

- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 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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		4-1-15									
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 0.21 BC 0.14 WB 0.00 Matrix-R	DEFL. in Vert(LL) -0.01 Vert(CT) -0.03 Horz(CT) 0.01 Wind(LL) 0.01	(loc) 4-5 4-5 3 4-5	l/defl >999 >999 n/a >999	L/d 360 240 n/a 240	PLATES MT20 Weight: 12 lb	GRIP 197/144 FT = 10%			

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

2x3 SPF No.2

BRACING-TOP CHORD

BOT CHORD

Structural wood sheathing directly applied or 4-1-15 oc purlins, except end verticals. Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. 5=0-3-8, 3=Mechanical, 4=Mechanical (size) Max Horz 5=72(LC 4) Max Uplift 5=-90(LC 4), 3=-59(LC 8) Max Grav 5=302(LC 1), 3=119(LC 1), 4=75(LC 3)

FORCES. (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) or less except when shown. TOP CHORD 2-5=-265/122

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.
- 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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			1	2-1-15 '	
LOADING TCLL	(psf) 25.0	SPACING- 2-0-0 Plate Grip DOL 1.15	CSI. TC 0.14	DEFL. in (loc) l/defl L/d PLATES GRIP 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 BCDL	0.0 * 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 5 >999 240 Weight: 7 lb FT = 10%	

TOP CHORD

BOT CHORD

LUMBER-

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

WEBS 2x3 SPF No.2

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

Max Horz 5=44(LC 4)

Max Uplift 5=-87(LC 4), 3=-25(LC 8) Max Grav 5=232(LC 1), 3=38(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) 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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Structural wood sheathing directly applied or 2-1-15 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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			3-7-					
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 0.27 BC 0.10 WB 0.00 Matrix-R	DEFL. in Vert(LL) -0.01 Vert(CT) -0.01 Horz(CT) -0.01 Wind(LL) 0.00	(loc) 4-5 4-5 3 4-5	l/defl >999 >999 n/a >999	L/d 360 240 n/a 240	PLATES MT20 Weight: 11 lb	GRIP 197/144 FT = 10%

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

BRACING-TOP CHORD

BOT CHORD

Structural wood sheathing directly applied or 3-7-15 oc purlins, except end verticals. Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. 5=0-5-8, 3=Mechanical, 4=Mechanical (size) Max Horz 5=71(LC 4) Max Uplift 5=-116(LC 4), 3=-49(LC 8) Max Grav 5=335(LC 1), 3=88(LC 1), 4=65(LC 3)

FORCES. (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) or less except when shown. TOP CHORD 2-5=-295/143

NOTES-

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

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

- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3 except (jt=lb) 5 = 116
- 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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			1-7-15	
LOADING (psf) TCLL 25.0 TCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15	CSI. TC 0.27 BC 0.04	DEFL. in (loc) I/defl L/d PLATES GRIP Vert(LL) 0.00 5 >999 360 MT20 197/144 Vert(CT) 0.00 5 >999 240 MT20 197/144	
BCLL 0.0 * BCDL 10.0	Rep Stress Incr YES Code IRC2018/TPI2014	WB 0.00 Matrix-R	Horz(CT) -0.01 3 n/a n/a Wind(LL) 0.00 5 >999 240 Weight: 7 lb FT = 10%	

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

2x4 SPF No.2

BRACING-TOP CHORD

Structural wood sheathing directly applied or 1-7-15 oc purlins, except end verticals.

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

REACTIONS. 5=0-5-8, 3=Mechanical, 4=Mechanical (size) Max Horz 5=45(LC 5) Max Uplift 5=-130(LC 4), 3=-20(LC 1) Max Grav 5=297(LC 1), 3=14(LC 4), 4=26(LC 3)

FORCES. (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) or less except when shown. TOP CHORD 2-5=-267/142

NOTES-

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

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

- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3 except (jt=lb) 5=130.
- 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	0.28	Vert(LL)	0.00	4-5	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.07	Vert(CT)	-0.00	4-5	>999	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.00	Horz(CT)	-0.03	3	n/a	n/a		
BCDL	10.0	Code IRC2018/TP	12014	Matri	k-R						Weight: 10 lb	FT = 10%

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

BRACING-TOP CHORD

Structural wood sheathing directly applied or 2-8-7 oc purlins, except end verticals. Rigid ceiling directly applied or 6-0-0 oc bracing.

BOT CHORD

REACTIONS. (size) 5=0-4-3, 3=Mechanical, 4=Mechanical Max Horz 5=56(LC 7) Max Uplift 5=-106(LC 6), 3=-46(LC 12), 4=-5(LC 7)

Max Grav 5=165(LC 1), 3=7(LC 4), 4=34(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) 3, 4 except (jt=lb) 5 = 106
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 31 lb down and 11 lb up at -1-11-5, and 31 lb down and 11 lb up at -1-11-5 on top chord. The design/selection of such connection device(s) is the responsibility of others

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

LOAD CASE(S) Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.15. Plate Increase=1.15
 - Concentrated Loads (lb)
 - Vert: 1=-49(F=-24, B=-24)
 - Trapezoidal Loads (plf)
 - Vert: 1=-0(F=35, B=35)-to-2=-36(F=17, B=17), 2=-4(F=33, B=33)-to-3=-49(F=10, B=10), 5=-0(F=10, B=10)-to-4=-14(F=3, B=10)-to-4= B=3)



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Max Horz 5=63(LC 5) Max Uplift 5=-69(LC 4), 3=-31(LC 8), 4=-10(LC 5)

Max Grav 5=229(LC 1), 3=29(LC 1), 4=36(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) 5 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 3, 4.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



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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 0.39 BC 0.27 WB 0.00 Matrix-R	DEFL. ir Vert(LL) -0.04 Vert(CT) -0.07 Horz(CT) -0.00 Wind(LL) 0.03	(loc) 4-5 4-5 4 4-5	l/defl >999 >874 n/a >999	L/d 360 240 n/a 240	PLATES MT20 Weight: 18 lb	GRIP 197/144 FT = 10%
LUMBER- TOP CHORD 2x4 S	PF No.2		BRACING- TOP CHORD	Structu	ural wood	sheathing d	irectly applied or 5-7-13	3 oc purlins.

BOT CHORD

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

REACTIONS.

(size) 5=0-4-3, 4=Mechanical Max Horz 5=121(LC 5) Max Uplift 5=-158(LC 4), 4=-62(LC 8)

Max Grav 5=414(LC 1), 4=217(LC 1)

FORCES. (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) or less except when shown. TOP CHORD 2-5=-363/178

NOTES-

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

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

5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4 except (jt=lb) 5 = 158

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

7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 73 lb down and 39 lb up at 2-10-15, and 71 lb down and 29 lb up at 2-10-15 on top chord, and 12 lb down and 16 lb up at 2-10-15, and 11 lb down and 18 lb up at 2-10-15 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

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

LOAD CASE(S) Standard

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

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



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Structural wood sheathing directly applied or 5-7-13 oc purlins,

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

except end verticals.





		4-1-0									
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 0.20 BC 0.14 WB 0.00 Matrix-R	DEFL. in Vert(LL) -0.01 Vert(CT) -0.03 Horz(CT) -0.04 Wind(LL) 0.01	(loc) 4-5 4-5 3 4-5	l/defl >999 3 >999 2 n/a >999 2	L/d 360 240 n/a 240	PLATES MT20 Weight: 12 lb	GRIP 197/144 FT = 10%			

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

2x3 SPF No.2

BRACING-TOP CHORD BOT CHORD

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

REACTIONS. 5=0-3-8, 3=Mechanical, 4=Mechanical (size) Max Horz 5=79(LC 5) Max Uplift 5=-75(LC 4), 3=-67(LC 8) Max Grav 5=299(LC 1), 3=116(LC 1), 4=75(LC 3)

FORCES. (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) or less except when shown. TOP CHORD 2-5=-261/112

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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1-11-15 LOADING (psf) SPACING-2-0-0 CSI. DEFL. l/defl L/d PLATES GRIP in (loc) 25.0 Plate Grip DOL 1.15 тс Vert(LL) 0.00 240 197/144 TCLL 0.14 5 >999 MT20 TCDL 10.0 Lumber DOL 1.15 BC 0.05 Vert(CT) -0.00 4-5 >999 240 BCLL 0.0 Rep Stress Incr YES WB 0.00 Horz(CT) -0.01 3 n/a n/a Code IRC2018/TPI2014 BCDL 10.0 Matrix-R Weight: 7 lb FT = 10%

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

BRACING-TOP CHORD

Structural wood sheathing directly applied or 1-11-15 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=60(LC 5) Max Uplift 5=-71(LC 4), 3=-30(LC 8), 4=-8(LC 5)

Max Grav 5=229(LC 1), 3=29(LC 1), 4=36(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, 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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J	b	Truss	Truss Type		Qty	Ply	Lot 65 RR
						-	144289128
2	10212	J35	Jack-Open		2	1	
							Job Reference (optional)
-	Wheeler Lumber, Wave	erly, KS - 66871,				8.430 s N	ov 30 2020 MiTek Industries, Inc. Fri Jan 8 15:26:55 2021 Page 1
				ID:XxAsF4	MdGikvF3	O7A2bzF	DyH?NM-CQvmQPKI6phqmlL4A7OuhXomv5Uhd3mFpl4gtJzxNTU
			-1-1-8	2-2	-15		
			1-1-8	2-2	-15		
							Scale = 1:15.1
				4.00 12		3	
		Ţ				/	



			<u>2-2-15</u> 2-2-15	
LOADING (psf) TCLL 25.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2018/TPI2014	CSI. TC 0.10 BC 0.05 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) -0.01 3 n/a n/a Wind(LL) 0.00 4-5 >999 240	PLATES GRIP MT20 197/144 Weight: 8 lb FT = 10%

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

BRACING-TOP CHORD

BOT CHORD

Structural wood sheathing directly applied or 2-2-15 oc purlins, except end verticals. Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. 5=0-3-8, 3=Mechanical, 4=Mechanical (size) Max Horz 5=59(LC 5) Max Uplift 5=-56(LC 4), 3=-36(LC 8), 4=-4(LC 5) Max Grav 5=205(LC 1), 3=49(LC 1), 4=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.
- 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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				4-0-11 4-0-5				
LOADING (psf) TCLL 25.0 TCDL 10.0 BCLL 0.0 BCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr NO Code IRC2018/TPI2014	CSI. TC 0.38 BC 0.10 WB 0.00 Matrix-R	DEFL. in Vert(LL) -0.01 Vert(CT) -0.01 Horz(CT) -0.01 Wind(LL) 0.01	(loc) 4-5 4-5 3 4-5	l/defl >999 >999 n/a >999	L/d 360 240 n/a 240	PLATES MT20 Weight: 12 lb	GRIP 197/144 FT = 10%

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

BRACING-TOP CHORD

BOT CHORD

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

REACTIONS. (size) 5=0-4-3, 3=Mechanical, 4=Mechanical Max Horz 5=54(LC 12)

Max Uplift 5=-101(LC 4), 3=-51(LC 12)

Max Grav 5=216(LC 1), 3=59(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) 3 except (jt=lb) 5=101.
- 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) 47 lb down and 16 lb up at -1-11-5, and 47 lb down and 16 lb up at -1-11-5 on top chord. The design/selection of such connection device(s) is the responsibility of others.
- 8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
- Concentrated Loads (lb)
- Vert: 1=-73(F=-36, B=-36)
- Trapezoidal Loads (plf)
 - Vert: 1=-0(F=35, B=35)-to-2=-36(F=17, B=17), 2=-2(F=34, B=34)-to-3=-71(F=-1, B=-1), 5=-0(F=10, B=10)-to-4=-20(F=-0, B=-0)



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Plate Offsets (X,Y)	[5:0-5-0,Edge]							
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 0.38 BC 0.10 WB 0.00	DEFL. i Vert(LL) -0.0 Vert(CT) -0.0 Horz(CT) -0.0	n (loc) I 4-5 2 4-5 I 3	l/defl >999 >999 n/a	L/d 360 240 n/a	PLATES MT20	GRIP 197/144
	Code IRC2018/1PI2014	машх-к	BRACING-	4-5	>999	240		F1 = 10%

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

TOP CHORD Structural wood sheathing directly applied or 4-0-11 oc purlins, except end verticals. BOT CHORD

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

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

Max Horz 5=53(LC 7) Max Uplift 5=-101(LC 4), 3=-52(LC 12)

Max Grav 5=216(LC 1), 3=59(LC 1), 4=58(LC 3)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Bearing at joint(s) 5 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3 except (jt=lb) 5=101.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 47 lb down and 16 lb up at -1-11-5, and 47 lb down and 16 lb up at -1-11-5 on top chord. The design/selection of such connection device(s) is the responsibility of others.
- 9) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
- Concentrated Loads (lb)
- Vert: 1=-73(F=-36, B=-36)

Trapezoidal Loads (plf)

Vert: 1=-0(F=35, B=35)-to-2=-36(F=17, B=17), 2=-2(F=34, B=34)-to-3=-71(F=-1, B=-1), 5=-0(F=10, B=10)-to-4=-20(F=-0, B=10)-to-4=-20(F=-0 B=-0)



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			2-11-8					
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 YES Code IRC2018/TPI2014	CSI. TC 0.14 BC 0.06 WB 0.00 Matrix-R	DEFL. in Vert(LL) -0.00 Vert(CT) -0.01 Horz(CT) -0.00 Wind(LL) 0.00	(loc) 4-5 4-5 3 4-5	l/defl >999 >999 n/a >999	L/d 360 240 n/a 240	PLATES MT20 Weight: 9 lb	GRIP 197/144 FT = 10%

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

BRACING-TOP CHORD

BOT CHORD

Structural wood sheathing directly applied or 2-11-8 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=55(LC 4)

Max Uplift 5=-87(LC 4), 3=-40(LC 8) Max Grav 5=257(LC 1), 3=73(LC 1), 4=52(LC 3)

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

NOTES-

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



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LOADING TCLL TCDI	i (psf) 25.0 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15	CSI. TC 0.14 BC 0.06	DEFL. in (loc) l/defl L/d PLATES GRIP Vert(LL) -0.00 4-5 >999 360 MT20 197/144 Vert(CT) -0.01 4-5 >999 240 MT20 197/144	
BCLL	0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT) -0.00 3 n/a n/a	
BCDL	10.0	Code IRC2018/TPI2014	Matrix-R	Wind(LL) 0.00 4-5 >999 240 Weight: 9 lb FT = 10%	

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

2x3 SPF No.2

BRACING-TOP CHORD

BOT CHORD

Structural wood sheathing directly applied or 2-11-8 oc purlins, except end verticals. Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) 5=0-3-8, 3=Mechanical, 4=Mechanical Max Horz 5=55(LC 4)

Max Uplift 5=-86(LC 4), 3=-40(LC 8)

Max Grav 5=257(LC 1), 3=73(LC 1), 4=52(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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Plate Off	sets (A, f)	[3.Euge,0-3-6]		
	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 0.43	Vert(LL) -0.08 3-4 >963 360 MT20 197/144
TCDL	10.0	Lumber DOL 1.15	BC 0.76	Vert(CT) -0.14 3-4 >520 240
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) 0.05 3-4 >999 240 Weight: 55 lb FT = 10%
LUMBEF	۶-			BRACING-

2x6 SPF No.2 TOP CHORD BOT CHORD 2x6 SPF No.2 WEBS 2x6 SPF No.2 *Except* 2-3: 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 10-0-0 oc bracing.

REACTIONS. (size) 4=0-3-8, 3=Mechanical Max Horz 4=116(LC 5) Max Uplift 4=-253(LC 4), 3=-115(LC 8) Max Grav 4=1473(LC 1), 3=1050(LC 1)

FORCES. (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) or less except when shown. TOP CHORD 1-2=-261/25

NOTES-

1) 2-ply truss to be connected together as follows:

- Top chords connected with 10d (0.131"x3") nails as follows: 2x6 2 rows staggered at 0-9-0 oc, 2x4 1 row at 0-9-0 oc. Bottom chords connected with 10d (0.131"x3") nails as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
- 2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- 3) 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

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) 4=253.3=115
- 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) 667 lb down and 197 lb up at 0-8-4, and 648 lb down and 47 lb up at 2-8-4, and 646 lb down and 40 lb up at 4-8-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf) Vert: 1-2=-70, 3-4=-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 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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Job	Truss	Truss Type	Qty	Ply	Lot 65 RR	
210212	J41	Jack-Closed Girder	1	•		144289133
-	-			Z	Job Reference (optional)	
Wheeler Lumber, Wave	erly, KS - 66871,			8.430 s No	ov 30 2020 MiTek Industries, Inc. Fri Jan 8 15:26:59 2021	Page 2

8.430 s Nov 30 2020 MiTek Industries, Inc. Fri Jan 8 15:26:59 2021 Page 2 ID:XxAsF4MdGikvF3O7A2bzF0yH?NM-4B8HGnNoA1CGEMerPyTqrNzMqihYZtlrkN2u05zxNTQ

LOAD CASE(S) Standard

Concentrated Loads (lb) Vert: 5=-667(B) 6=-648(B) 7=-646(B)





Plate Offsets (X,Y)	[10:0-3-6,0-1-0]						
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 0.68 BC 0.25 WB 0.50	DEFL. ir Vert(LL) -0.05 Vert(CT) -0.09 Horz(CT) 0.04	(loc) 7 7 6	I/defI L/d >999 360 >999 240 n/a n/a	PLATES C MT20 1	GRIP 97/144
BCDL 10.0	Code IRC2018/1PI2014	Matrix-S	Wind(LL) 0.05		>999 240	Weight: 46 lb	FI = 10%
LUMBER- TOP CHORD 2x4 S	BRACING-	Structura	al wood sheathing dir	rectly applied or 4-9-3 or	c purlins		

BOT CHORD 2x6 SPF No.2 *Except* 3-6: 2x6 SP DSS 2x3 SPF No.2 *Except* WEBS 2-10: 2x6 SPF No.2, 5-6: 2x4 SPF No.2

app except end verticals. BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 10=0-4-3, 6=Mechanical Max Horz 10=112(LC 5) Max Uplift 10=-217(LC 4), 6=-157(LC 8)

Max Grav 10=688(LC 1), 6=580(LC 1)

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

2-10=-647/225, 3-4=-1363/347

- BOT CHORD 3-8=-354/1305, 7-8=-354/1305, 6-7=-354/1305
- WEBS 4-6=-1262/358, 4-7=-46/272

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) 10=217, 6=157.

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) 77 lb down and 138 lb up at 0-10-3, and 78 lb down and 48 lb up at 3-8-2, and 70 lb down and 28 lb up at 3-8-2 on top chord, and 3 lb down and 8 lb up at 0-10-3, 12 lb down and 0 lb up at 3-8-10, 6 lb down and 5 lb up at 3-8-10, and 173 lb down and 75 lb up at 6-6-1, and 135 lb down and 67 lb up at 6-6-1 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, 2-5=-70, 9-10=-20, 6-8=-20

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	Job	Truss	Truss Type	Qty	Ply	Lot 65 RR	
	210212	140	Disgonal Llip Cirdor	4	1		144289134
	210212	J4Z		1		Job Reference (optional)	
ĺ	Wheeler Lumber, Wave	erly, KS - 66871,			8.430 s N	ov 30 2020 MiTek Industries, Inc. Fri Jan 8 15:27:00 2021	Page 2

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LOAD CASE(S) Standard

Concentrated Loads (lb) Vert: 9=5(F=0, B=5) 11=35(F) 14=-308(F=-173, B=-135)





Plate Offs	sets (X,Y)	[3:0-6-10,0-1-13], [3:0-4-12,0)-1-8]			1						
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	0.27	Vert(LL)	-0.01	6	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.13	Vert(CT)	-0.02	6	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.02	Horz(CT)	-0.02	5	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI20	014	Matrix	(-R	Wind(LL)	0.01	3-6	>999	240	Weight: 17 lb	FT = 10%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

REACTIONS.

(size) 8=0-3-8, 5=Mechanical Max Horz 8=90(LC 5) Max Uplift 8=-127(LC 4), 5=-38(LC 8)

Max Grav 8=365(LC 1), 5=163(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-8=-337/147

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 except (jt=lb) 8=127.

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.



Structural wood sheathing directly applied or 4-6-7 oc purlins,

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

except end verticals.

16023 Swingley Ridge Rd Chesterfield, MO 63017



				2-6-7
LOADING TCLL	6 (psf) 25.0	SPACING- 2-0-0 Plate Grip DOL 1.15	CSI. TC 0.27	DEFL. in (loc) I/defl L/d PLATES GRIP Vert(LL) -0.00 4-5 >999 360 MT20 197/144
TCDL	10.0	Lumber DOL 1.15	BC 0.04	Vert(CT) -0.00 4-5 >999 240
BCLL	10.0	Code IRC2018/TPI2014	Matrix-R	$\begin{aligned} \text{Horz}(CT) & -0.01 & 3 & n/a & n/a \\ \text{Wind}(LL) & 0.00 & 5 & >999 & 240 \\ \end{aligned}$

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

REACTIONS. 5=0-3-8, 3=Mechanical, 4=Mechanical (size) Max Horz 5=56(LC 4) Max Uplift 5=-119(LC 4), 3=-27(LC 8) Max Grav 5=303(LC 1), 3=35(LC 1), 4=42(LC 3)

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

TOP CHORD

NOTES-

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

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

2-5=-269/137

- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3 except (jt=lb) 5 = 119
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



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Structural wood sheathing directly applied or 2-6-7 oc purlins,

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

except end verticals.





					2-9-8	3	1		5-0-	7	I.	
			1	1	2-9-8	3	1		2-2-1	5	1	
Plate Off	sets (X,Y)	[3:0-6-13,0-1-6], [3:0-4-12,0-	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	0.23	Vert(LL)	-0.03	3-6	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.22	Vert(CT)	-0.05	3-6	>999	240		
BCLL	0.0 *	Rep Stress Incr	/ES	WB	0.02	Horz(CT)	0.03	5	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI20	14	Matri	x-R	Wind(LL)	0.03	3-6	>999	240	Weight: 17 lb	FT = 10%

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

REACTIONS.

(size) 8=0-3-8, 5=Mechanical Max Horz 8=88(LC 5) Max Uplift 8=-101(LC 4), 5=-47(LC 8)

Max Grav 8=337(LC 1), 5=201(LC 1)

FORCES. (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) or less except when shown. TOP CHORD 2-8=-315/123

NOTES-

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

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

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

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

5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5 except (jt=lb) 8=101

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

BRACING-

except end verticals.

TOP CHORD BOT CHORD

Structural wood sheathing directly applied or 5-0-7 oc purlins,



			3-0-7			—	
LOADING (psf) TCLL 25.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2018/TPI2014	CSI. TC 0.14 BC 0.07 WB 0.00 Matrix-R	DEFL. in Vert(LL) -0.00 Vert(CT) -0.01 Horz(CT) -0.00 Wind(LL) 0.00	(loc) l/defl 4-5 >999 4-5 >999 3 n/a 4-5 >999	L/d 360 240 n/a 240	PLATES MT20 Weight: 9 lb	GRIP 197/144 FT = 10%

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

2x3 SPF No.2

BRACING-TOP CHORD

BOT CHORD

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

REACTIONS. 5=0-3-8, 3=Mechanical, 4=Mechanical (size) Max Horz 5=56(LC 4)

Max Uplift 5=-87(LC 4), 3=-41(LC 8)

Max Grav 5=259(LC 1), 3=76(LC 1), 4=53(LC 3)

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

NOTES-

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



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				1-0-7	
LOADING	G (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d PLATES GRIP	
TCLL	25.0	Plate Grip DOL 1.15	TC 0.14	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/TPI2014	Matrix-R	Wind(LL) 0.00 5 >999 240 Weight: 4 lb FT = 10%	

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

BRACING-TOP CHORD

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

BOT CHORD

REACTIONS. (size) 5=0-3-8, 3=Mechanical, 4=Mechanical Max Horz 5=32(LC 5) Max Uplift 5=-104(LC 4), 3=-39(LC 1), 4=-3(LC 1) Max Grav 5=228(LC 1), 3=23(LC 4), 4=14(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, 4 except (jt=lb) 5=104.
- 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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GRIP
197/144
FT = 10%
Ik

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

REACTIONS.

(size) 8=0-3-8, 5=Mechanical Max Horz 8=92(LC 5) Max Uplift 8=-74(LC 4), 5=-20(LC 8)

Max Grav 8=449(LC 1), 5=267(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-8=-428/96

NOTES-

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

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

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

- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 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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Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals. Rigid ceiling directly applied or 10-0-0 oc bracing.



Plate Off	sets (X,Y)	[2:0-2-0,0-1-4], [4:Edge,0	-2-8]									
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	0.52	Vert(LL)	-0.07	4-5	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.35	Vert(CT)	-0.14	4-5	>534	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code IRC2018/TF	PI2014	Matri	ĸ-R	Wind(LL)	0.01	4-5	>999	240	Weight: 20 lb	FT = 10%
LUMBER	2-					BRACING						

TOP CHORD

BOT CHORD

LUMBER-

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

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

Max Horz 5=104(LC 7) Max Uplift 5=-76(LC 4), 4=-19(LC 8)

Max Grav 5=449(LC 1), 4=267(LC 1)

FORCES. (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) or less except when shown. TOP CHORD 2-5=-394/118

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) 5, 4.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

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

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

except end verticals.

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1	4-4-0		7-6-0	11-10-	-0
I	4-4-0		3-2-0	4-4-0	
Plate Offsets (X,Y)-	[2:0-2-0,0-1-8], [3:0-5-4,0-2-4], [4:0-3-0,0-2-	8], [5:0-2-0,0-1-8], [9:	:0-2-8,0-1-8]		
LOADING (psf) TCLL 25.0	SPACING- 2-0-0 Plate Grip DOL 1.15	CSI. TC 0.23	DEFL. in Vert(LL) -0.02	(loc) l/defl L/d 8-9 >999 360	PLATES GRIP MT20 197/144
TCDL 10.0 BCLL 0.0 * BCDL 10.0	Lumber DOL 1.15 Rep Stress Incr NO Code IRC2018/TPI2014	BC 0.28 WB 0.32 Matrix-S	Vert(CT) -0.04 Horz(CT) 0.01 Wind(LL) 0.02	8-9 >999 240 7 n/a n/a 8-9 >999 240	Weight: 46 lb FT = 10%

BRACING-TOP CHORD

BOT CHORD

LUMBER-

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

REACTIONS. (size) 10=0-3-8, 7=0-3-8 Max Horz 10=30(LC 28) Max Uplift 10=-262(LC 4), 7=-262(LC 5) Max Grav 10=898(LC 1), 7=898(LC 1)

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

TOP CHORD 2-3=-1049/299, 3-4=-947/300, 4-5=-1049/298, 2-10=-852/283, 5-7=-852/283

BOT CHORD 8-9=-234/947

WEBS 2-9=-239/944, 5-8=-239/944

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=262, 7=262.

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

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

9) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 85 lb down and 75 lb up at 4-4-0, and 85 lb down and 75 lb up at 5-11-0, and 85 lb down and 75 lb up at 7-6-0 on top chord, and 209 lb down and 88 lb up at 4-40, and 35 lb down at 5-11-0, and 209 lb down and 88 lb up at 7-5-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

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

LOAD CASE(S) Standard

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

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

Continued on page 2

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Structural wood sheathing directly applied or 5-5-14 oc purlins, except end verticals, and 2-0-0 oc purlins (5-9-11 max.): 3-4.

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



Job	Truss	Truss Type	Qty	Ply	Lot 65 RR	
						144289142
210212	K1	Hip Girder	1	1		
					Job Reference (optional)	
Wheeler Lumber, Wave	erly, KS - 66871,			8.430 s No	ov 30 2020 MiTek Industries, Inc. Fri Jan 8 15:27:08 2021	Page 2

ID:XxAsF4MdGikvF3O7A2bzF0yH?NM-JwBh9sUS2oK_plqaRL7xiGrydKs49sw9oHjsq3zxNTH

LOAD CASE(S) Standard Concentrated Loads (Ib)

Vert: 3=-46(F) 4=-46(F) 9=-209(F) 8=-209(F) 11=-46(F) 12=-20(F)





5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 8=134, 6=134.

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.







Continued on page 2

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Job	Truss	Truss Type	Qty	Ply	Lot 65 RR	
040040	1/0					144289144
210212	K3	Common Girder	1	2	Job Reference (optional)	
Wheeler Lumber, Wa	verly, KS - 66871,			8.430 s N	ov 30 2020 MiTek Industries, Inc. Fri Jan 8 15:27:09 2021	Page 2

ID:XxAsF4MdGikvF3O7A2bzF0yH?NM-n6l3MBV4p6SrRvPm_3eAFUO2DkBwuF5J1xTQMWzxNTG

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, 6-8=-20

Concentrated Loads (lb)

Vert: 7=-1446(B) 9=-1446(B) 10=-1451(B) 11=-2672(B) 12=-646(B) 13=-653(B)





BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

REACTIONS. All bearings 5-10-2.

(lb) - Max Horz 1=-72(LC 4)

Max Uplift All uplift 100 lb or less at joint(s) 7, 6

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

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

NOTES-

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

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) 7, 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 5-10-6 oc purlins.

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



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



	10-4-7	1	28-1-6
I	10-4-7	I	17-8-15
Plate Offsets (X,Y)	[5:0-1-7,Edge], [15:0-2-9,Edge]		
LOADING (psf) TCLL 25.0 TCDL 10.0 BCLL 0.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES	CSI. TC 0.06 BC 0.03 WB 0.12	DEFL. in (loc) l/defl L/d PLATES GRIP Vert(LL) n/a - n/a 999 MT20 197/144 Vert(CT) n/a - n/a 999 H072(CT) 0.01 17 n/a n/a
BCDL 10.0	Code IRC2018/TPI2014	Matrix-S	Weight: 127 lb FT = 10%
LUMBER- TOP CHORD 2x4 SI BOT CHORD 2x4 SI	PF No.2 PF No.2		BRACING- TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 5-7, 8-26,

BOT CHORD

8-15.

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

WEBS 2x4 SPF No.2 OTHERS 2x4 SPF No.2

REACTIONS. All bearings 28-1-6.

Max Horz 1=271(LC 8) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 1, 26, 17, 24, 25, 27, 23, 22, 21, 20, 19 except 28=-120(LC 8), 29=-127(LC 8), 30=-128(LC 8), 18=-140(LC 9)

All reactions 250 lb or less at joint(s) 26, 17, 24, 25, 27, 28, 29, 30, 23, 22, 21, 20, 19, 18 except Max Grav 1=279(LC 8)

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

TOP CHORD 1-2=-401/193, 2-3=-280/147

NOTES

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

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

3) Provide adequate drainage to prevent water ponding.

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

Gable requires continuous bottom chord bearing.

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

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

8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 26, 17, 24, 25, 27, 23, 22, 21, 20, 19 except (jt=lb) 28=120, 29=127, 30=128, 18=140.

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

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



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January 8,2021

MiTek 16023 Swingley Ridge Rd Chesterfield, MO 63017





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 buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing fabrication, storage, delivery, rection and bracing of trusses and truss systems, see **ANSUTPH1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

NITEK 16023 Swingley Ridge Rd Chesterfield, MO 63017



TOP CHORD

BOT CHORD

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

OTHERS 2x4 SPF No.2

REACTIONS. All bearings 7-8-6. (Ib) - Max Horz 1=98(LC 5)

Max Uplift All uplift 100 lb or less at joint(s) 1, 5 except 8=-139(LC 8), 6=-139(LC 9) Max Grav All reactions 250 lb or less at joint(s) 1, 5, 7, 8, 6

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

NOTES-

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

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

3) Gable requires continuous bottom chord bearing.

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

6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 5 except (jt=lb) 8=139, 6=139.

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



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

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

16023 Swingley Ridge Rd Chesterfield, MO 63017



LUMBER-

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

BRACING-TOP CHORD BOT CHORD

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

REACTIONS. All bearings 8-5-6. (Ib) - Max Horz 1=-109(LC 4)

Max Uplift All uplift 100 lb or less at joint(s) 1, 5 except 8=-151(LC 8), 6=-151(LC 9) Max Grav All reactions 250 lb or less at joint(s) 1, 5, 7, 8, 6

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

NOTES-

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

3) Gable requires continuous bottom chord bearing.

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

6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 5 except (jt=lb) 8=151, 6=151.

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.







Max Grav All reactions 250 lb or less at joint(s) 10, 5, 7, 9, 8, 6

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) Provide adequate drainage to prevent water ponding.

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

4) Gable requires continuous bottom chord bearing.

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) 10, 5, 7, 9, 8, 6. 8) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 5, 6.

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

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



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MiTek 16023 Swingley Ridge Rd Chesterfield, MO 63017



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) Provide adequate drainage to prevent water ponding.

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

4) Gable requires continuous bottom chord bearing.

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) 10, 5, 9, 8, 6
- except (it=lb) 7=115.
- 8) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 5, 6.

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

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



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				3-0-7	3-11-4	4		7		
LOADING TCLL TCDL BCLL BCDL	(psf) 25.0 10.0 0.0 * 10.0	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr Code IRC2018/TPI	2-0-0 1.15 1.15 YES 2014	CSI. TC 0.09 BC 0.04 WB 0.04 Matrix-P	DEFL. in Vert(LL) n/a Vert(CT) n/a Horz(CT) 0.00	(loc) - - 5	l/defl L n/a 9 n/a 9 n/a r	_/d 99 99 n/a	PLATES MT20 Weight: 31 lb	GRIP 197/144 FT = 10%
BUDL	10.0		2014	Maurix-P					weight: 31 lb	FI = 10%

BRACING-TOP CHORD

BOT CHORD

LUMBER-

 TOP CHORD
 2x4 SPF No.2

 BOT CHORD
 2x4 SPF No.2

 WEBS
 2x4 SPF No.2

 OTHERS
 2x4 SPF No.2

REACTIONS. All bearings 6-11-11.

(lb) - Max Horz 9=-110(LC 6) Max Uplift All uplift 100 lb or less at joint(s) 9, 5, 8, 7, 6

Max Grav All reactions 250 lb or less at joint(s) 9, 5, 8, 7, 6

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

NOTES-

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

Provide adequate drainage to prevent water ponding.

All plates are 2x4 MT20 unless otherwise indicated.

All plates are 2x4 in 20 unless otherwise indicated
 Gable requires continuous bottom chord bearing.

4) Gable requires continuous bottom chord bearing.

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

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

7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 9, 5, 8, 7, 6.

8) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 5, 6.

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

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



2-0-0 oc purlins (6-0-0 max.): 1-5, except end verticals.

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

16023 Swingley Ridge Rd Chesterfield, MO 63017



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- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6, 4. 9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 11) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 875 lb down and 23 lb up at 0-11-12, 869 lb down and 15 lb up at 2-11-12, 869 lb down and 15 lb up at 4-11-12, 869 lb down and 15 lb up at 6-11-12, and 869 Ib down and 15 lb up at 8-11-12, and 879 lb down and 16 lb up at 10-11-12 on top chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

Continued on page 2

Job	Truss	Truss Type	Qty	Ply	Lot 65 RR	
						144289154
210212	R1	FLAT GIRDER	1	2	lob Reference (optional)	
Wheeler Lumber Wa	verly KS - 66871			8 430 s N	ov 30 2020 MiTek Industries Inc. Fri Jan 8 15:27:18 2021	Page 2

ID:XxAsF4MdGikvF3O7A2bzF0yH?NM-0roTFGcjitbZ0HbV0SIH6NFarMGQVHKe5q8OBUzxNT7

LOAD CASE(S) Standard

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

Uniform Loads (plf) Vert: 1-3=-70, 4-6=-20

Concentrated Loads (lb)

Vert: 7=-875 8=-869 9=-869 10=-869 11=-869 12=-879





2x4 ⋍

2x4 ||

except end verticals.

Structural wood sheathing directly applied or 3-6-0 oc purlins,

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

OADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d	PLATES GRIP
CLL 25.0	Plate Grip DOL 1.15	TC 0.10	Vert(LL) n/a - n/a 999	MT20 197/144
CDL 10.0	Lumber DOL 1.15	BC 0.06	Vert(CT) n/a - n/a 999	
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT) -0.00 3 n/a n/a	
BCDL 10.0	Code IRC2018/TPI2014	Matrix-P		Weight: 7 lb FT = 10%

TOP CHORD

BOT CHORD

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

WEBS 2x3 SPF No.2

REACTIONS. (size) 1=3-5-4, 3=3-5-4 Max Horz 1=37(LC 5) Max Uplift 1=-18(LC 4), 3=-24(LC 8) Max Grav 1=110(LC 1), 3=110(LC 1)

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

NOTES-

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

2) Gable requires continuous bottom chord bearing.

- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 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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2x4 ⋍

2x4 ||

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

except end verticals.

LOADING (psf) TCLL 25.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING-2-0-0Plate Grip DOL1.15Lumber DOL1.15Rep Stress IncrYESCode IRC2018/TPI2014	CSI. TC 0.11 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 Weight: 8 lb FT = 10%
LUMBER-			BRACING-
TOP CHORD 2x4 SPF No.2			TOP CHORD Structural wood sheathing directly applied or 3-7-8 oc purlins,

BOT CHORD

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

REACTIONS. 1=3-6-12, 3=3-6-12 (size) Max Horz 1=39(LC 7) Max Uplift 1=-19(LC 4), 3=-25(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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2x4 📁

2x4 ||

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

except end verticals.

LOADING (psf) TCLL 25.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING-2-0-0Plate Grip DOL1.15Lumber DOL1.15Rep Stress IncrYESCode IRC2018/TPI2014	CSI. TC 0.13 BC 0.07 WB 0.00 Matrix-P	DEFL. in (loc) I/defl L/d Vert(LL) n/a - n/a 999 Vert(CT) n/a - n/a 999 Horz(CT) -0.00 3 n/a n/a	PLATES GRIP MT20 197/144 Weight: 8 lb FT = 10%
LUMBER-			BRACING-	
TOP CHORD 2x4 SPF No.2			TOP CHORD Structural wood sheathing directly applied or 3-9-8 oc purlins.	

BOT CHORD

 IOP CHORD
 2x4 SPF No.2

 BOT CHORD
 2x4 SPF No.2

 WEBS
 2x3 SPF No.2

REACTIONS. (size) 1=3-8-12, 3=3-8-12 Max Horz 1=41(LC 5) Max Uplift 1=-20(LC 4), 3=-26(LC 8) Max Grav 1=124(LC 1), 3=124(LC 1)

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

NOTES-

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

2) Gable requires continuous bottom chord bearing.

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