

RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW Development Services LEE'S SUMMIT, MISSOURI

RE: HT143 Lot 143 HT MiTek USA, Inc. 16023 Swingley Ridge Rd Chesterfield, MO 63017 314-434-1200

Site Information:

Customer: Project Name: HT143

Lot/Block: Model:
Address: Subdivision:
City: State:

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

Design Code: IRC2018/TPI2014 Design Program: MiTek 20/20 8.4

Wind Code: ASCE 7 - 16[Low Rise] Wind Speed: 115 mph Roof Load: 45.0 psf Floor Load: N/A psf

This package includes 111 individual, dated Truss Design Drawings and 0 Additional Drawings.

No.	Seal#	Truss Name	Date	No.	Seal#	Truss Name	Date
1	148735048	A1	11/10/2021	21	148735068	C10	11/10/2021
2	148735049	A2	11/10/2021	22	148735069	D1	11/10/2021
3	148735050	A3	11/10/2021	23	148735070	D2	11/10/2021
4	148735051	A4	11/10/2021	24	148735071	D3	11/10/2021
5	148735052	A5	11/10/2021	25	148735072	D4	11/10/2021
6	148735053	A6	11/10/2021	26	148735073	E1	11/10/2021
7	148735054	B1	11/10/2021	27	148735074	E2	11/10/2021
8	148735055	B2	11/10/2021	28	148735075	E3	11/10/2021
9	148735056	B3	11/10/2021	29	148735076	E4	11/10/2021
10	148735057	B4	11/10/2021	30	148735077	E5	11/10/2021
11	148735058	B5	11/10/2021	31	148735078	G1	11/10/2021
12	148735059	C1	11/10/2021	32	148735079	G2	11/10/2021
13	148735060	C2	11/10/2021	33	148735080	G3	11/10/2021
14	148735061	C3	11/10/2021	34	148735081	G4	11/10/2021
15	148735062	C4	11/10/2021	35	148735082	G5	11/10/2021
16	148735063	C5	11/10/2021	36	148735083	G6	11/10/2021
17	148735064	C6	11/10/2021	37	148735084	G 7	11/10/2021
18	148735065	C7	11/10/2021	38	148735085	G8	11/10/2021
19	148735066	C8	11/10/2021	39	148735086	G9	11/10/2021
20	148735067	C9	11/10/2021	40	148735087	G10	11/10/2021

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.





RE: HT143 - Lot 143 HT

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

Site Information:

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Oity,	County.			Otato.			
No.	Seal#	Truss Name	Date	No.	Seal#	Truss Name	Date
41	148735088	H1	11/10/2021	85	148735132	J41	11/10/2021
42	148735089	H2	11/10/2021	86	148735133	J42	11/10/2021
43	148735090	H3	11/10/2021	87	148735134	J43	11/10/2021
44	148735091	H4	11/10/2021	88	148735135	J44	11/10/2021
45	148735092	J1	11/10/2021	89	I48735136	J45	11/10/2021
46	148735093	J2	11/10/2021	90	148735137	J46	11/10/2021
47	148735094	J3	11/10/2021	91	I48735138	J47	11/10/2021
48	148735095	J4	11/10/2021	92	I48735139	J48	11/10/2021
49	148735096	J5	11/10/2021	93	148735140	LAY1	11/10/2021
50	148735097	J6	11/10/2021	94	I48735141	LAY2	11/10/2021
51	148735098	J7	11/10/2021	95	148735142	LAY3	11/10/2021
52	148735099	J8	11/10/2021	96	148735143	LAY4	11/10/2021
53	148735100	J9	11/10/2021	97	148735144	LAY5	11/10/2021
54	I48735101	J10	11/10/2021	98	I48735145	LAY6	11/10/2021
55	148735102	J11	11/10/2021	99	148735146	LAY7	11/10/2021
56	148735103	J12	11/10/2021	100	148735147	LAY8	11/10/2021
57	148735104	J13	11/10/2021	101	I48735148	LAY9	11/10/2021
58	I48735105	J14	11/10/2021	102	I48735149	R1	11/10/2021
59	148735106	J15	11/10/2021	103	I48735150	V1	11/10/2021
60	148735107	J16	11/10/2021	104	I48735151	V2	11/10/2021
61	148735108	J17	11/10/2021	105	I48735152	V3	11/10/2021
62	148735109	J18	11/10/2021	106	148735153	V4	11/10/2021
63	l48735110	J19	11/10/2021	107	148735154	V5	11/10/2021
64	l48735111	J20	11/10/2021	108	148735155	V6	11/10/2021
65	148735112	J21	11/10/2021	109	I48735156	V7	11/10/2021
66	148735113	J22	11/10/2021	110	148735157	V8	11/10/2021
67	148735114	J23	11/10/2021	111	I48735158	V9	11/10/2021
68	I48735115	J24	11/10/2021				
69	I48735116	J25	11/10/2021				
70	148735117	J26	11/10/2021				
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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

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November 10, 2021



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Job Truss Truss Type Qty Ply Lot 143 HT 148735048 HT143 A1 Half Hip Supported Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Nov 9 15:15:40 2021 Page 1

Wheeler Lumber,

Waverly, KS - 66871,

ID:Ej7EWovY_94Pzt7UVy1gWAz_t70-At5shDRY5OHJhsGLsTcomL?cxU2i?ZHgaC8wmoyKtU1

27-5-0 22-0-5 5-4-11

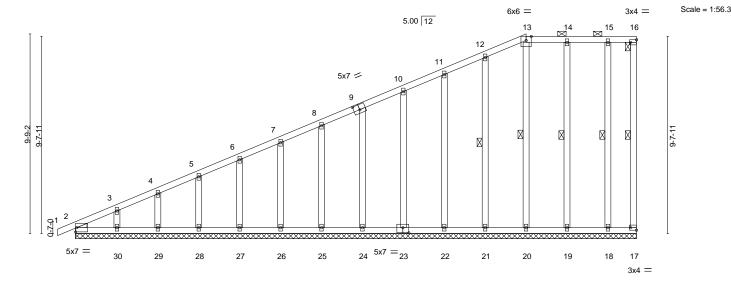


Plate Offsets (X,Y)--[9:0-3-8,0-3-0], [16:Edge,0-1-8], [17:Edge,0-1-8], [23:0-3-8,0-3-0]

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	TC	0.40	Vert(LL)	-0.00	1	n/r	120	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.17	Vert(CT)	-0.00	1	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.15	Horz(CT)	-0.01	17	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI	2014	Matri	x-S						Weight: 160 lb	FT = 10%

LUMBER-

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

WEDGE

Left: 2x3 SPF No.2

BRACING-TOP CHORD

WEBS

BOT 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.): 13-16. Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 23-24.

1 Row at midpt

16-17, 13-20, 12-21, 14-19, 15-18

REACTIONS. All bearings 27-5-0.

Max Horz 2=410(LC 5) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 17, 20, 21, 22, 23, 24, 25, 26, 27,

28, 29, 30, 19, 18

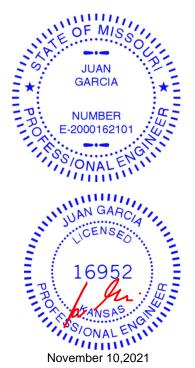
Max Grav All reactions 250 lb or less at joint(s) 17, 2, 20, 21, 22, 23, 24, 25, 26,

27, 28, 29, 30, 19, 18

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

TOP CHORD 2-3=-364/37, 3-4=-315/30, 4-5=-291/28, 5-6=-266/25

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) Provide adequate drainage to prevent water ponding.
- 5) All plates are 2x4 MT20 unless otherwise indicated.
- 6) Gable requires continuous bottom chord bearing.
- 7) Gable studs spaced at 2-0-0 oc.
- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 17, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 19, 18.
- This truss 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.





Job Truss Truss Type Qty Lot 143 HT 148735049 HT143 A2 Half Hip Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Nov 9 15:15:41 2021 Page 1 Wheeler Lumber, Waverly, KS - 66871, ID:Ej7EWovY_94Pzt7UVy1gWAz_t70-e3fFuZSAshPAJ0rXQB71JZXiPtGCkuoppsuUIEyKtU0 19-1-14 23-7-8 27-5-0 0-10-8 5-8-14 7-5-14 5-11-2 4-5-10 3-9-8 Scale = 1:59.9 6x6 = 3x4 = 5.00 12 2x4 || 6 3x6 = 3x6 = 10-3-9 X 2x4 💸 3 12 13 14 11 15 16 10 9 5x7 = 3x4 =3x6 = 4x5 = 6x8 = 8-10-10 19-1-14 8-10-10 Plate Offsets (X,Y)--[8:Edge,0-1-8] SPACING-L/d **PLATES GRIP** LOADING (psf) 2-0-0 CSI DEFL. in (loc) I/def TCLL 25.0 Plate Grip DOL 1.15 TC 0.74 Vert(LL) -0.25 10-12 >999 360 MT20 197/144 TCDL 10.0 Lumber DOL 1.15 BC 0.60 Vert(CT) -0.44 10-12 >737 240 **BCLL** 0.0 Rep Stress Incr YES WB 0.64 Horz(CT) 0.05 9 n/a n/a Code IRC2018/TPI2014 FT = 10% **BCDL** 10.0 Wind(LL) 0.08 12 >999 240 Weight: 124 lb Matrix-S LUMBER-**BRACING-**2x4 SPF No.2 TOP CHORD TOP CHORD Structural wood sheathing directly applied or 3-0-1 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 7-8.

BOT CHORD

WEBS

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

1 Row at midpt

8-9, 4-10, 6-10, 7-9

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

WEDGE Left: 2x4 SPF No.2

REACTIONS.

(size) 9=Mechanical, 2=0-3-8

Max Horz 2=438(LC 5)

Max Uplift 9=-206(LC 8), 2=-209(LC 8) Max Grav 9=1339(LC 2), 2=1351(LC 2)

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

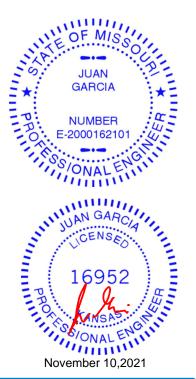
TOP CHORD 2-3=-2487/397, 3-4=-2228/319, 4-6=-1137/207, 6-7=-1098/296

BOT CHORD 2-12=-509/2212, 10-12=-296/1549, 9-10=-144/407

WEBS 3-12=-392/245, 4-12=-35/718, 4-10=-817/277, 6-10=-342/185, 7-10=-296/1386,

7-9=-1172/225

- 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 arip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 6) 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) 9=206, 2=209.
- 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/TPL1
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.





WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chorembers 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

AMSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job Truss Truss Type Qty Lot 143 HT 148735050 HT143 **A3** Half Hip Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Nov 9 15:15:42 2021 Page 1 Wheeler Lumber, Waverly, KS - 66871,

ID:Ej7EWovY_94Pzt7UVy1gWAz_t70-6GDd6vToc?X1xAQj_ueGrm4qjHb?TG9z2Wd1qgyKtU? 27-5-0 -0-10-8 2-3-8 0-10-8 2-3-8 19-1-13 25-2-11 4-10-5 6-2-4 5-9-13 6-0-15 2-2-5

5.00 12 8 5x7 / 5x7 = 2x4 || 56 Ø 3x4 / 0-0-1 13 14 7x12 = 2x4 || 16 17 10 15 12 11 3x10 = 2x4 || 2x4 || 6x8 = 2x4 | 13-4-0 19-1-13 25-2-11 4-10-5 6-0-15

Plate Offsets (X,Y)-- [3:0-1-6,Edge], [6:0-3-8,Edge], [9:Edge,0-3-8]

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 0.96	Vert(LL)	-0.36 3-14	>909 360	MT20 197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.69	Vert(CT)	-0.63 3-14	>518 240	
BCLL 0.0 *	Rep Stress Incr YES	WB 0.95	Horz(CT)	0.36 10	n/a n/a	
BCDL 10.0	Code IRC2018/TPI2014	Matrix-S	Wind(LL)	0.30 3-14	>999 240	Weight: 153 lb FT = 10%

BRACING-

TOP CHORD

BOT CHORD

WEBS

LUMBER-

BOT CHORD

2x4 SPF No.2 *Except* TOP CHORD

1-6: 2x6 SP 2400F 2.0E 2x4 SPF No.2 *Except*

3-13: 2x4 SPF 2100F 1.8E, 5-12: 2x3 SPF No.2

WEBS 2x3 SPF No.2 *Except*

9-10,3-15,8-11,8-10: 2x4 SPF No.2

REACTIONS. (size) 10=Mechanical, 2=0-3-8

Max Horz 2=470(LC 5)

Max Uplift 10=-237(LC 8), 2=-207(LC 8) Max Grav 10=1317(LC 2), 2=1324(LC 2)

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

TOP CHORD 2-3=-871/0, 3-4=-3439/567, 4-5=-2051/337, 5-7=-1994/441, 7-8=-1089/318

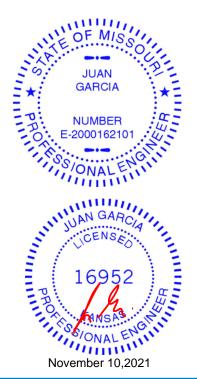
BOT CHORD 3-14=-695/3302, 13-14=-694/3302, 5-13=-335/193

WEBS 4-14=0/269, 4-13=-1586/384, 11-13=-149/919, 7-13=-349/1380, 7-11=-1145/407,

8-11=-350/1443, 8-10=-1144/247

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 arip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 6) 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) 10=237, 2=207.
- 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/TPL1
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



Scale = 1:65.0

6x6 =

Structural wood sheathing directly applied, except end verticals, and

9-10, 4-13, 7-11, 8-10

2-0-0 oc purlins (6-0-0 max.): 8-9.

1 Row at midpt

Rigid ceiling directly applied or 9-4-4 oc bracing.

4x5 ||



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

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Job Truss Truss Type Qty Lot 143 HT 148735051 HT143 A4 Half Hip Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Nov 9 15:15:43 2021 Page 1

Wheeler Lumber, Waverly, KS - 66871, ID:Ej7EWovY_94Pzt7UVy1gWAz_t70-aSn?JFTQNJfuZK?vXc9VO_d_OhwjCkH6GANaM6yKtU_

-0-10-8 2-3-8 0-10-8 2-3-8 19-1-14 26-9-14 4-10-5 6-2-4 5-9-14 7-8-1

> Scale = 1:69.6 3x4 =

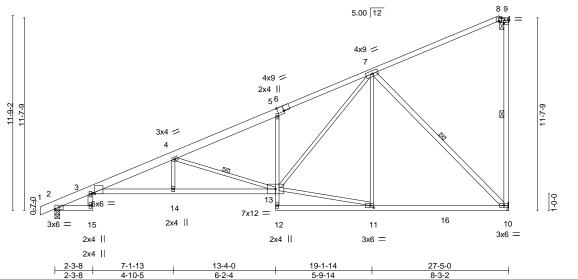


Plate Offsets (X,Y)-- [3:0-1-6,Edge], [6:0-4-6,Edge], [8:0-2-0,Edge], [9:Edge,0-1-8], [11:0-2-8,0-1-8]

LOADING	G (psf)	SPACING- 2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL 1.15	TC 0.96	Vert(LL) -	-0.35 3-14	>920	360	MT20	197/144
TCDL	10.0	Lumber DOL 1.15	BC 0.72	Vert(CT) -	-0.62 3-14	>525	240		
BCLL	0.0 *	Rep Stress Incr YES	WB 0.83	Horz(CT)	0.36 10	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014	Matrix-S	Wind(LL)	0.33 3-14	>986	240	Weight: 141 lb	FT = 10%

BRACING-

TOP CHORD

BOT CHORD

WEBS

LUMBER-

2x4 SPF No.2 *Except* TOP CHORD 1-6: 2x6 SP 2400F 2.0E

BOT CHORD 2x4 SPF No.2 *Except*

3-13: 2x4 SPF 2100F 1.8E, 5-12: 2x3 SPF No.2

WEBS 2x3 SPF No.2 *Except* 9-10,3-15,7-10: 2x4 SPF No.2

REACTIONS. (size) 10=Mechanical, 2=0-3-8

Max Horz 2=470(LC 8)

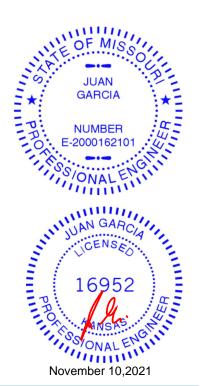
Max Uplift 10=-317(LC 8), 2=-155(LC 8) Max Grav 10=1304(LC 2), 2=1329(LC 2)

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

TOP CHORD 2-3=-708/0, 3-4=-3462/508, 4-5=-2057/232, 5-7=-1982/322 **BOT CHORD** 3-14=-893/3325, 13-14=-893/3325, 5-13=-277/161, 10-11=-243/964 WEBS 4-14=0/268, 4-13=-1608/446, 11-13=-220/950, 7-13=-366/1340, 7-11=0/302,

7-10=-1354/341

- 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 exposed; Lumber DOL=1.60 plate grip
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 6) 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) 10=317, 2=155.
- 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/TPL1
- 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, except end verticals, and

9-10, 4-13, 7-10

2-0-0 oc purlins (6-0-0 max.): 8-9.

1 Row at midpt

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



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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



Job Truss Truss Type Qty Lot 143 HT 148735052 HT143 A5 Monopitch

Wheeler Lumber, Waverly, KS - 66871, Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Nov 9 15:15:44 2021 Page 1

Structural wood sheathing directly applied, except end verticals.

8-9, 4-12, 7-9

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

1 Row at midpt

ID:Ej7EWovY_94Pzt7UVy1gWAz_t70-2eLNWbU38cnkAUa65JgkwB9985GuxBUFVq68uZyKtTz -0-10-8 2-3-8 0-10-8 2-3-8 19-1-13 4-10-5 6-2-4 5-9-13

Scale = 1:67.3

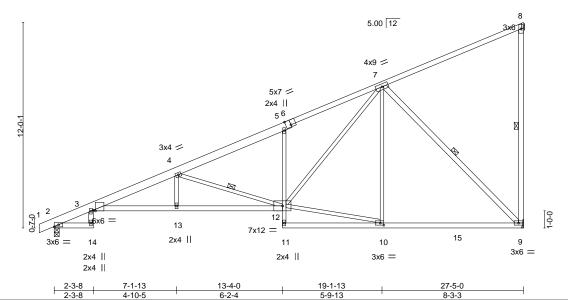


Plate Offsets (X,Y)-- [3:0-1-6,Edge], [6:0-3-8,Edge], [10:0-2-8,0-1-8]

LOADING	G (psf)	SPACING- 2-	0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL 1	.15	TC	0.96	Vert(LL)	-0.35	3-13	>920	360	MT20	197/144
TCDL	10.0	Lumber DOL 1	.15	BC	0.73	Vert(CT)	-0.62	3-13	>525	240		
BCLL	0.0 *	Rep Stress Incr Y	ΈS	WB	0.84	Horz(CT)	0.36	9	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI201	14	Matrix	<- S	Wind(LL)	0.33	3-13	>985	240	Weight: 142 lb	FT = 10%

BRACING-

WEBS

TOP CHORD

BOT CHORD

LUMBER-

2x4 SPF No.2 *Except* TOP CHORD 1-6: 2x6 SP 2400F 2.0E **BOT CHORD** 2x4 SPF No.2 *Except*

3-12: 2x4 SPF 2100F 1.8E, 5-11: 2x3 SPF No.2

2x3 SPF No.2 *Except* WEBS 8-9,3-14,7-9: 2x4 SPF No.2

REACTIONS. (size) 9=Mechanical, 2=0-3-8

Max Horz 2=481(LC 8)

Max Uplift 9=-329(LC 8), 2=-150(LC 8) Max Grav 9=1304(LC 2), 2=1329(LC 2)

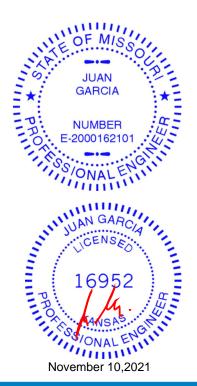
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 2-3=-714/0, 3-4=-3462/497, 4-5=-2057/220, 5-7=-1980/309 **BOT CHORD** 3-13=-895/3326, 12-13=-895/3325, 5-12=-273/159, 9-10=-245/966

WEBS 4-13=0/268, 4-12=-1610/448, 10-12=-221/952, 7-12=-364/1336, 7-10=0/302,

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 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, with BCDL = 10.0psf.
- 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)
- 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.



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

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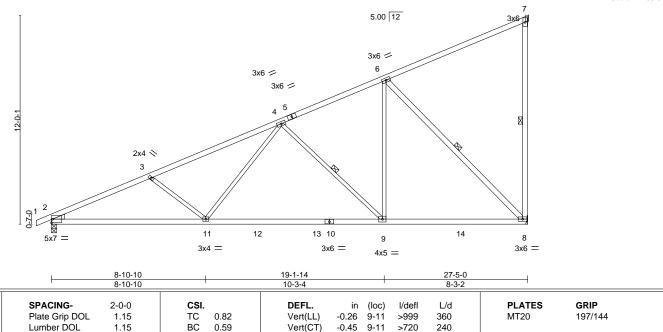


Job Truss Truss Type Qty Lot 143 HT 148735053 HT143 A6 Monopitch Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Nov 9 15:15:45 2021 Page 1 Wheeler Lumber, Waverly, KS - 66871,

7-5-14

ID:Ej7EWovY_94Pzt7UVy1gWAz_t70-WrulkxVhvwvboe9lf0CzTPiN8VeGgeEPkUshQ?yKtTy 19-1-14 5-11-2 8-3-2

Scale = 1:66.3



Horz(CT)

Wind(LL)

BRACING-

TOP CHORD

BOT CHORD

WEBS

0.06

0.08

8

9-11

n/a

>999

except end verticals.

1 Row at midpt

n/a

240

Rigid ceiling directly applied or 9-7-10 oc bracing.

Structural wood sheathing directly applied or 2-8-1 oc purlins,

7-8, 4-9, 6-8

Weight: 115 lb

FT = 10%

LUMBER-

TCLL

TCDL

BCLL

BCDL

LOADING (psf)

25.0

10.0

0.0

10.0

TOP CHORD 2x4 SPF No.2 2x4 SPF 2100F 1.8E 2x3 SPF No.2 *Except* BOT CHORD WEBS

7-8,6-8: 2x4 SPF No.2

WEDGE

Left: 2x4 SPF No.2

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

Max Horz 2=478(LC 8)

Max Uplift 8=-329(LC 8), 2=-150(LC 8) Max Grav 8=1329(LC 2), 2=1354(LC 2)

Rep Stress Incr

Code IRC2018/TPI2014

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

TOP CHORD 2-3=-2502/266, 3-4=-2238/181, 4-6=-1142/65 **BOT CHORD** 2-11=-656/2227, 9-11=-423/1549, 8-9=-239/1001

-0-10-8 0-10-8

5-8-14

WEBS 3-11=-407/260, 4-11=-51/728, 4-9=-766/256, 6-9=-56/968, 6-8=-1411/336

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 exposed; Lumber DOL=1.60 plate grip
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

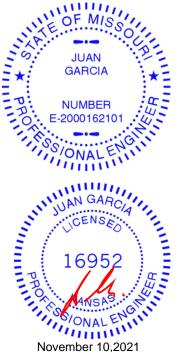
YES

WB

Matrix-S

0.87

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



November 10,2021



Job Truss Truss Type Qty Ply Lot 143 HT 148735054 HT143 **B1** Monopitch

Wheeler Lumber, Waverly, KS - 66871,

Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Nov 9 15:15:46 2021 Page 1 ID:Ej7EWovY_94Pzt7UVy1gWAz_t70-?1S8xHWJgE1SQnkUDkjC0cFaHu17P5EYy8bFyRyKtTx

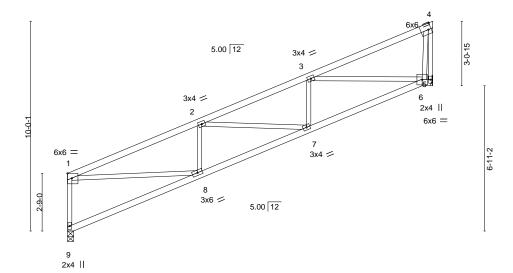
Structural wood sheathing directly applied or 3-7-5 oc purlins,

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

except end verticals.

6-3-9 6-3-9 5-2-7 5-11-0

Scale = 1:54.9



		6-3-9	11-6-1	16-11-0	17-5 ₁ 0
	I	6-3-9	5-2-7	5-5-0	0-6-0
Plate Offsets (X,Y)	[1:Edge,0-2-12], [4:0-1-	11.Edgel			

	10010 (71, 1)	[1.Lugo,o Z 12], [1.0 1 11,	= ugo]									
LOADIN	IG (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.60	Vert(LL)	-0.07	7-8	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.42	Vert(CT)	-0.13	8-9	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.88	Horz(CT)	0.03	5	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI	2014	Matri	x-S	Wind(LL)	0.05	7-8	>999	240	Weight: 66 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) 9=0-3-8, 5=Mechanical Max Horz 9=231(LC 5) Max Uplift 5=-89(LC 8)

Max Grav 9=774(LC 1), 5=774(LC 1)

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

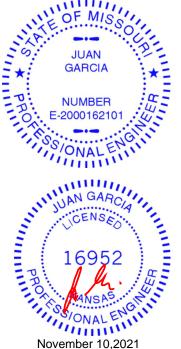
1-9=-732/83, 1-2=-1484/118, 2-3=-1430/133, 4-5=-702/54 TOP CHORD

BOT CHORD 7-8=-256/1428, 6-7=-196/1372

WFBS 1-8=-68/1258, 2-8=-402/105, 3-6=-1138/181, 4-6=-10/575

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Bearing at joint(s) 9 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.
- 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.





Job Truss Truss Type Qty Ply Lot 143 HT 148735055 HT143 B2 Half Hip

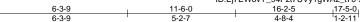
Wheeler Lumber, Waverly, KS - 66871,

Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Nov 9 15:15:48 2021 Page 1 ID:Ej7EWovY_94Pzt7UVy1gWAz_t70-xQauMyXZCrHAf5ttK9lg51Kxiii_t6lrQS4L1KyKtTv

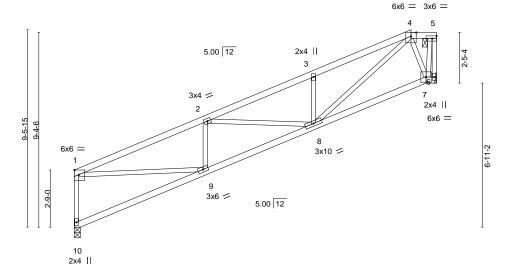
Structural wood sheathing directly applied or 3-9-12 oc purlins,

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.



Scale = 1:55.4



6-3-9	11-6-0	16-11-0	17-5 _t 0
6-3-9	5-2-7	5-5-0	0 ^l -6-b

				, , ,		0 = 1			0 0	0 0 0		
Plate Of	fsets (X,Y)	[1:Edge,0-2-12]										
LOADIN	IC (not)	SPACING-	2-0-0	CSI.		DEFL.	:	(100)	1/4.41	L/d	PLATES	GRIP
LOADIN	iG (psi)	SPACING-	2-0-0	COI.		DEFL.	in	(loc)	l/defl	L/U	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.54	Vert(LL)	-0.07	8-9	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.40	Vert(CT)	-0.13	9-10	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.44	Horz(CT)	0.02	6	n/a	n/a		
BCDL	10.0	Code IRC2018/T	PI2014	Matri	x-S	Wind(LL)	0.05	8-9	>999	240	Weight: 67 lb	FT = 10%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

REACTIONS. (size) 10=0-3-8, 6=Mechanical Max Horz 10=211(LC 5)

Max Uplift 6=-74(LC 8) Max Grav 10=774(LC 1), 6=774(LC 1)

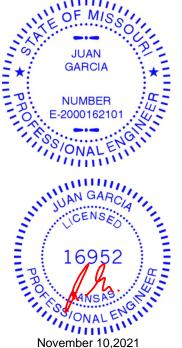
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. 1-10=-731/84, 1-2=-1490/121, 2-3=-1405/129, 3-4=-1386/188, 5-6=-750/43 TOP CHORD

BOT CHORD 8-9=-251/1435, 7-8=-54/393

WFBS 1-9=-71/1266, 2-9=-404/106, 3-8=-320/101, 4-8=-176/1213, 4-7=-606/110, 5-7=-52/766

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.
- Refer to girder(s) for truss to truss connections
- 7) Bearing at joint(s) 10 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 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.





Job Truss Truss Type Qty Lot 143 HT 148735056 HT143 **B**3 Half Hip Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Nov 9 15:15:49 2021 Page 1 Wheeler Lumber, Waverly, KS - 66871, ID:Ej7EWovY_94Pzt7UVy1gWAz_t70-Pc8GalYBz9P1HFS3usGvdFt6n62FcZz_f6qvZmyKtTu 14-7-2 6-3-9 5-2-7 3-1-1 2-9-14 Scale = 1:51.6 6x6 = 4x5 = 2x4 || 5.00 12

3x4 = 2x4 || 2 6x6 = 8-8-6 3x10 = 6x6 = 3x6 = 2-9-0 5.00 12 10 2x4 ||

11-6-1 16-11-0 Plate Offsets (X Y)-- [1:Edge 0-2-12]

1 1010 011	.0010 (71)	[= ago, o =]										
LOADIN	IG (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)	-0.06	8-9	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL 1	.15	BC	0.39	Vert(CT)	-0.13	9-10	>999	240		
BCLL	0.0 *	Rep Stress Incr Y	′ES	WB	0.44	Horz(CT)	0.03	6	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI20	14	Matri	k-S	Wind(LL)	0.06	8-9	>999	240	Weight: 65 lb	FT = 10%

BRACING-

TOP CHORD

BOT CHORD

2x4 SPF No.2 TOP CHORD

LUMBER-

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

REACTIONS. (size) 10=0-3-8, 6=Mechanical

Max Horz 10=239(LC 5)

Max Uplift 10=-79(LC 8), 6=-162(LC 8) Max Grav 10=774(LC 1), 6=774(LC 1)

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

TOP CHORD 1-10=-731/194, 1-2=-1492/325, 2-3=-1396/319, 3-4=-1352/384, 5-6=-747/117

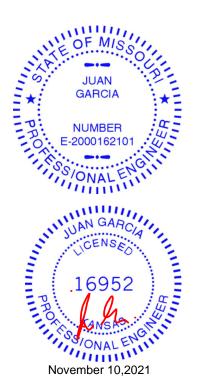
BOT CHORD 8-9=-503/1439, 7-8=-209/781

1-9=-248/1269, 2-9=-407/181, 3-8=-254/138, 4-8=-254/806, 4-7=-597/195, WFBS

5-7=-107/674

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a 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) Bearing at joint(s) 10 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 10 except (jt=lb) 6=162.
- 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.



Structural wood sheathing directly applied or 3-10-9 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, Except:

8-3-6 oc bracing: 8-9.



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 chorembers 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

AMSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job Truss Truss Type Qty Lot 143 HT 148735057 HT143 В4 Half Hip Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Nov 9 15:15:50 2021 Page 1 Wheeler Lumber, Waverly, KS - 66871, ID:Ej7EWovY_94Pzt7UVy1gWAz_t70-toieneZpkSXuuP1GSan8ASPHyWOeL?08tlZS5CyKtTt 6-3-10 6-3-10 6-8-5 4-5-2 Scale: 1/4"=1" 6x6 = 4x5 = 1-1-4 5.00 12 6 3x4 = 2x4 || 2 6x6 = 8-1-15 3x4 -6x6 = 6-11-2 3x6 = 5.00 12 2x4 || 6-3-10 12-11-14 16-11-0 Plate Offsets (X,Y)--[1:0-2-0,0-1-8] SPACING-**PLATES** LOADING (psf) 2-0-0 CSI DEFL. in (loc) I/def L/d GRIP TCLL 25.0 Plate Grip DOL 1.15 TC 0.56 Vert(LL) -0.07 7-8 >999 360 MT20 197/144 TCDL 10.0 Lumber DOL 1.15 BC 0.45 Vert(CT) -0.14 7-8 >999 240 BCLL 0.0 Rep Stress Incr YES WB 0.45 Horz(CT) 0.03 5 n/a n/a Code IRC2018/TPI2014 FT = 10% **BCDL** 10.0 Wind(LL) >999 240 Weight: 63 lb Matrix-S 0.06 7-8 LUMBER-**BRACING-**2x4 SPF No.2 TOP CHORD TOP CHORD Structural wood sheathing directly applied or 4-0-15 oc purlins, **BOT CHORD** 2x4 SPF No.2 except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 3-4. WEBS 2x3 SPF No.2 **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 8-4-12 oc bracing: 7-8. REACTIONS. (size) 9=0-3-8, 5=Mechanical Max Horz 9=211(LC 5)

Max Uplift 9=-80(LC 8), 5=-133(LC 8) Max Grav 9=774(LC 1), 5=774(LC 1)

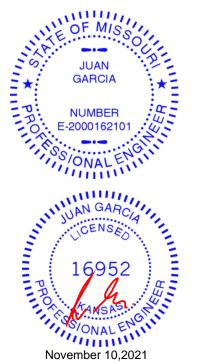
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 1-9=-732/187, 1-2=-1524/320, 2-3=-1282/242, 3-4=-377/67, 4-5=-703/116

BOT CHORD 7-8=-489/1480, 6-7=-275/1190

 $1\hbox{-}8\hbox{--}247/1308,\ 2\hbox{-}8\hbox{--}405/192,\ 3\hbox{-}7\hbox{--}8/290,\ 3\hbox{-}6\hbox{--}730/196,\ 4\hbox{-}6\hbox{--}114/630}$ 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 will fit between the bottom chord and any other members.
- 6) Refer to girder(s) for truss to truss connections.
- Bearing at joint(s) 9 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 9 except (jt=lb)
- 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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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



Job Truss Truss Type Qty Ply Lot 143 HT 148735058 HT143 **B**5 **GABLE Z** Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Nov 9 15:15:51 2021 Page 1 Wheeler Lumber, Waverly, KS - 66871, ID:Ej7EWovY_94Pzt7UVy1gWAz_t70-L_G1?_aSVmflWZcS?HINjgyWGvmd4SZH6PJ?efyKtTs 17-8-0 6-1-6 5-10-14 5-7-11 Scale = 1:50.1 6x6 =

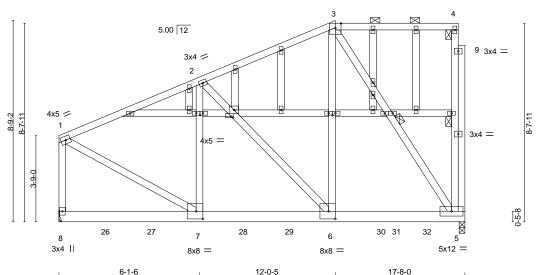


Plate Offsets (X,Y)--[6:0-3-8,0-4-0], [7:0-3-8,0-4-0], [11:0-1-8,0-1-0], [12:0-1-1,0-0-8], [13:0-1-8,0-1-0]SPACING-**PLATES GRIP** LOADING (psf) in (loc) I/def L/d Plate Grip DOL TC TCLL 25.0 1.15 0.26 Vert(LL) -0.05 7-8 >999 360 MT20 197/144 TCDL 10.0 Lumber DOL 1.15 BC 0.27 Vert(CT) -0.08 7-8 >999 240 **BCLL** 0.0 Rep Stress Incr NO WB 0.49 Horz(CT) 0.01 5 n/a n/a Code IRC2018/TPI2014 Weight: 296 lb FT = 10% **BCDL** 10.0 Matrix-S Wind(LL) 0.03 7-8 >999 240

5-10-14

LUMBER-

2x4 SPF No.2 TOP CHORD BOT CHORD 2x6 SP 2400F 2.0E WEBS 2x4 SPF No.2 **OTHERS** 2x4 SPF No.2

BRACING-

WEBS

TOP CHORD **BOT 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. 4-5, 3-5 1 Row at midpt

REACTIONS.

(size) 5=0-3-0, 8=Mechanical

Max Horz 8=342(LC 5)

Max Uplift 5=-393(LC 5), 8=-318(LC 8) Max Grav 5=3309(LC 1), 8=3182(LC 1)

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

1-2=-2764/287, 2-3=-1902/249, 1-8=-2603/299 TOP CHORD **BOT CHORD** 7-8=-324/90, 6-7=-395/2485, 5-6=-264/1632

2-7=-130/866, 2-6=-1152/209, 3-6=-262/2789, 3-5=-2946/341, 1-7=-248/2779

6-1-6

WEBS

1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:

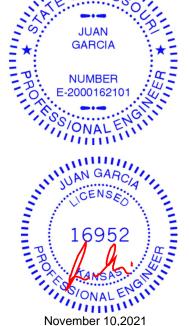
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.

Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.

Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.

- 2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- 3) Unbalanced roof live loads have been considered for this design.
- 4) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 5) 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.
- 6) Provide adequate drainage to prevent water ponding.
- 7) All plates are 2x4 MT20 unless otherwise indicated.
- 8) Gable studs spaced at 2-0-0 oc.
- 9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 10) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 11) Refer to girder(s) for truss to truss connections.
- 12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 5=393, 8=318.
- 13) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 14) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

Continued on page 2



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November 10,2021

👠 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE

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Job	Truss	Truss Type	Qty	Ply	Lot 143 HT	
LIT4 40	D.C.	CARLE				148735058
HT143	B5	GABLE	1	2	Job Reference (optional)	

Wheeler Lumber,

Waverly, KS - 66871,

8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Nov 9 15:15:51 2021 Page 2 ID:Ej7EWovY_94Pzt7UVy1gWAz_t70-L_G1?_aSVmflWZcS?HINjgyWGvmd4SZH6PJ?efyKtTs

NOTES-

15) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 619 lb down and 59 lb up at 2-0-0, 619 lb down and 63 lb up at 4-0-0, 619 lb down and 63 lb up at 14-0-0, and 619 lb down and 63 lb up at 16-0-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

16) Studding applied to ply: 1(Front)

LOAD CASE(S) Standard

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

Vert: 1-3=-70, 3-4=-70, 5-8=-20

Concentrated Loads (lb)

Vert: 7=-619(B) 6=-619(B) 26=-619(B) 27=-619(B) 28=-619(B) 29=-619(B) 30=-619(B) 32=-619(B)



Job Truss Truss Type Qty Ply Lot 143 HT 148735059 HT143 C1 HALF HIP GIRDER **Z** Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Nov 9 15:15:52 2021 Page 1 Wheeler Lumber, Waverly, KS - 66871, ID:Ej7EWovY_94Pzt7UVy1gWAz_t70-pBqPCKa4G4nc8iBeZ_qcFtUasJ_7pw7RL32ZA5yKtTr 16-0-0 13-8-8

4-8-0

2-4-8

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

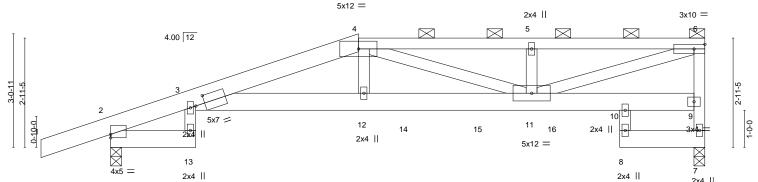
except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 4-6.

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

4-4-9

Scale = 1:31.0

2-3-8



	2-3-8		6-8-1		11-4-0	-	13-8-8	16-0-0
Plate Offsets (X,Y)-	2-3-8 [2:0-0-0,0-1-2], [3:0-3-1,0	7-2-91	4-4-9		4-8-0		2-4-8	2-3-8
Tiate Offsets (X, T)	[2.0 0 0,0 1 2], [0.0 0 1,0	J Z J]						
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	I/defl L/d	d PLAT	ES GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.72	Vert(LL)	-0.16 3-12	>999 360) MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.83	Vert(CT)	-0.28 3-12	>677 240)	
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.41	Horz(CT)	0.19 7	n/a n/a		
BCDL 10.0	Code IRC2018/TI	PI2014	Matrix-S	Wind(LL)	0.14 3-12	>999 240) Weigh	ht: 152 lb FT = 10%

BOT CHORD

LUMBER-BRACING-TOP CHORD

2x6 SPF 1650F 1.4E *Except* TOP CHORD 4-6: 2x4 SPF No.2

BOT CHORD 2x6 SPF No.2 *Except* 8-10: 2x4 SPF No.2

WEBS 2x4 SPF No.2

1-10-8

2-3-8

REACTIONS. (size) 7=0-3-8, 2=0-3-8

Max Horz 2=120(LC 5)

Max Uplift 7=-383(LC 4), 2=-384(LC 4) Max Grav 7=1518(LC 1), 2=1404(LC 1)

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

TOP CHORD 2-3=-680/133, 3-4=-4260/1051, 4-5=-3373/876, 5-6=-3373/876, 7-9=-1474/388,

6-9=-1264/343

BOT CHORD 3-12=-1017/4090, 11-12=-1035/4183

WEBS 4-12=-196/985, 4-11=-855/221, 5-11=-317/164, 6-11=-853/3349

- 1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
 - Top chords connected as follows: 2x6 2 rows staggered at 0-9-0 oc, 2x4 1 row 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 plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- 3) Unbalanced roof live loads have been considered for this design.
- 4) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate
- 5) Provide adequate drainage to prevent water ponding.
- 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 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) except (jt=lb) 7=383, 2=384
- 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) 449 lb down and 141 lb up at 6-8-1, 230 lb down and 81 lb up at 7-11-4, 230 lb down and 81 lb up at 9-11-4, and 230 lb down and 81 lb up at 11-11-4, and 230 lb down and 79 lb up at 13-10-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

AWARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

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

MiTek 16023 Swingley Ridge Rd Chesterfield, MO 63017

November 10,2021

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MNSA

November 10,2021

2x4 ||

Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.

Continued on page 2
LOAD CASE(S) Standard

Truss Type Job Truss Qty Ply Lot 143 HT 148735059 HALF HIP GIRDER HT143 C1

Wheeler Lumber,

Waverly, KS - 66871,

Z Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Nov 9 15:15:53 2021 Page 2 ID:Ej7EWovY_94Pzt7UVy1gWAz_t70-HNNnPgbi1NvTlsmq7iLro51lcjKMYNNaZjo6iXyKtTq

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, 2-13=-20, 3-10=-20, 7-8=-20

Concentrated Loads (lb)

Vert: 10=-230(F) 12=-449(F) 14=-230(F) 15=-230(F) 16=-230(F)



Job Truss Truss Type Qty Lot 143 HT 148735060 HT143 C2 Half Hip Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Nov 9 15:15:55 2021 Page 1 Wheeler Lumber, Waverly, KS - 66871, ID:Ej7EWovY_94Pzt7UVy1gWAz_t70-EmVXqMdyZ?AB?AwDE7NJtW652X0j0Evt11HDnQyKtTo

6-10-9

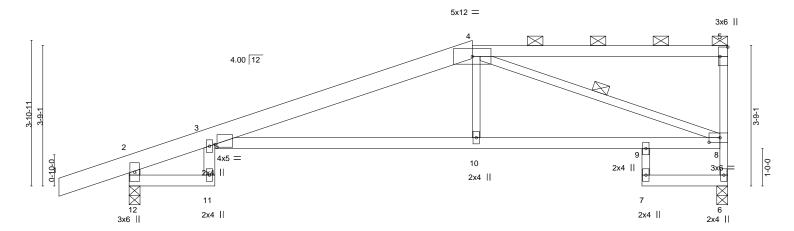
9-2-1

Scale = 1:30.8

16-0-0

2-3-8

16-0-0



	2-3-8	6-10-9		4-6-7	2-3-8
Plate Offsets (X,Y)	[3:0-0-11,0-0-15], [5:Edge,0-2-8], [8:0-	3-8,0-1-8]			
LOADING (psf) TCLL 25.0 TCDL 10.0 BCLL 0.0 *	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES	TC 0.72 BC 0.71 WB 0.60	Vert(CT) -(Horz(CT) (in (loc) I/defl L/d 0.28 3-10 >670 360 0.55 3-10 >342 240 0.32 6 n/a n/a	PLATES GRIP MT20 197/144
BCDL 10.0	Code IRC2018/TPI2014	Matrix-S	Wind(LL)	0.24 3-10 >789 240	Weight: 61 lb FT = 10%

LUMBER-2x6 SPF 1650F 1.4E *Except* TOP CHORD

2-3-8

1-10-8

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

7-9: 2x3 SPF No.2 **WEBS** 2x3 SPF No.2 *Except*

3-11,2-12: 2x4 SPF No.2

BRACING-

TOP CHORD **BOT CHORD** Structural wood sheathing directly applied or 4-7-1 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, Except:

6-0-0 oc bracing: 6-7.

13-8-8

4-6-7

13-8-8

WEBS 1 Row at midpt 4-8

REACTIONS. (size) 6=0-3-8, 12=0-3-8

Max Horz 12=166(LC 5)

Max Uplift 6=-134(LC 4), 12=-216(LC 4) Max Grav 6=700(LC 1), 12=859(LC 1)

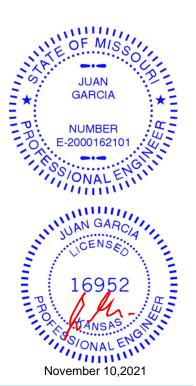
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 2-3=-263/11, 3-4=-1296/218, 6-8=-673/147, 2-12=-857/235

BOT CHORD 3-10=-212/1223, 9-10=-207/1229, 8-9=-215/1232

WEBS 4-10=0/317, 4-8=-1250/226

- 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 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) 6=134, 12=216.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



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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



Job Truss Truss Type Qty Ply Lot 143 HT 148735061 HT143 C3 Half Hip Girder Job Reference (optional) Wheeler Lumber, Waverly, KS - 66871, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Nov 9 15:15:57 2021 Page 1

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

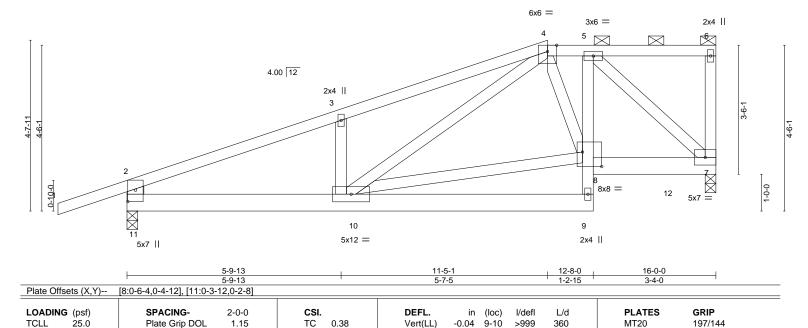
except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 4-6.

Rigid ceiling directly applied or 10-0-0 oc bracing, Except:

6-0-0 oc bracing: 9-10.

ID:Ej7EWovY_94Pzt7UVy1gWAz_t70-A8dIF1eC4cQuEU3cMYPnyxCXuKlkUEfAULmKrJyKtTm 12-8-0 16-0-0 1-10-8 5-9-13 5-7-5 1-2-15 3-4-0

Scale = 1:31.3



TCDL 10.0 Lumber DOL 1.15 BC 0.55 Vert(CT) -0.08 9-10 >999 240 **BCLL** 0.0 Rep Stress Incr NO WB 0.20 Horz(CT) 0.01 n/a n/a Code IRC2018/TPI2014 FT = 10% **BCDL** 10.0 Wind(LL) 9-10 >999 240 Weight: 183 lb Matrix-S 0.03 BRACING-

TOP CHORD

BOT CHORD

LUMBER-2x4 SPF No.2 TOP CHORD

2x6 SP 2400F 2.0E *Except* **BOT CHORD**

5-9: 2x4 SPF No.2 WEBS 2x4 SPF No.2 *Except*

2-11: 2x6 SPF No.2

(size) 7=0-3-8, 11=0-3-8

Max Horz 11=178(LC 5)

Max Uplift 7=-444(LC 4), 11=-238(LC 4) Max Grav 7=3641(LC 1), 11=1074(LC 1)

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

TOP CHORD 2-3=-1633/234, 3-4=-1560/283, 4-5=-1573/257, 2-11=-880/245

BOT CHORD 10-11=-253/1477, 5-8=-174/1327, 7-8=-233/1733

WEBS 3-10=-323/200, 4-10=-335/301, 8-10=-219/1518, 4-8=-124/472, 5-7=-2150/306

NOTES-

REACTIONS.

1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:

Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc, 2x6 - 2 rows staggered at 0-9-0 oc. Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-3-0 oc, 2x4 - 1 row at 0-9-0 oc. Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.

- 2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- 3) Unbalanced roof live loads have been considered for this design.
- 4) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; 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 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 7=444, 11=238
- 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) 3162 lb down and 338 lb up at 14-9-9 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

Continued on page 2

\Lambda WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE

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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

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PROMINENT 10,2021

November 10,2021

Job Truss Truss Type Qty Ply Lot 143 HT 148735061 HT143 СЗ Half Hip Girder

Wheeler Lumber,

Waverly, KS - 66871,

Job Reference (optional)

8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Nov 9 15:15:57 2021 Page 2
ID:Ej7EWovY_94Pzt7UVy1gWAz_t70-A8dIF1eC4cQuEU3cMYPnyxCXuKlkUEfAULmKrJyKtTm

LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf) Vert: 1-2=-70, 2-4=-70, 4-6=-70, 9-11=-20, 7-8=-20
Concentrated Loads (lb)

Vert: 12=-3162(B)



Job Truss Truss Type Qty Lot 143 HT 148735062 HT143 C4 Half Hip Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Nov 9 15:15:58 2021 Page 1 Wheeler Lumber, Waverly, KS - 66871, ID:Ej7EWovY_94Pzt7UVy1gWAz_t70-eLBgTNfrrwYlsdeowFw0V8ka3k4yDb0Jj?VtNlyKtTl 1-10-8 2-3-8 5-10-13 5-11-12 Scale = 1:34.3 5x7 = 2x4 || 5 6 4.00 12 3x4 = 5 5-5-1 bx6 =1-0-0 8 4x9 II Ш 2x4 || 9 10 2x4 II 3x6 || 5-10-13 Plate Offsets (X,Y)--[3:0-5-7,0-0-10] LOADING (psf) SPACING-2-0-0 CSI DEFL. in (loc) I/def L/d **PLATES** GRIP TCLL 25.0 Plate Grip DOL 1.15 TC 0.87 Vert(LL) -0.19 3-8 >888 360 MT20 197/144 TCDL 10.0 Lumber DOL 1.15 BC 0.61 Vert(CT) -0.38 3-8 >461 240 **BCLL** 0.0 Rep Stress Incr YES WB 0.58 Horz(CT) 0.21 n/a n/a Code IRC2018/TPI2014 FT = 10% **BCDL** 10.0 Wind(LL) >999 240 Weight: 62 lb Matrix-S 0.13 3-8

BRACING-

TOP CHORD

BOT CHORD

WEBS

LUMBER-

2x6 SPF No.2 *Except* TOP CHORD 5-6: 2x4 SPF No.2 **BOT CHORD** 2x4 SPF No.2

WEBS 2x3 SPF No.2 *Except* 3-9,2-10: 2x4 SPF No.2

REACTIONS. (size) 7=Mechanical, 10=0-3-8

Max Horz 10=168(LC 5)

Max Uplift 7=-39(LC 8), 10=-86(LC 4) Max Grav 7=639(LC 1), 10=800(LC 1)

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

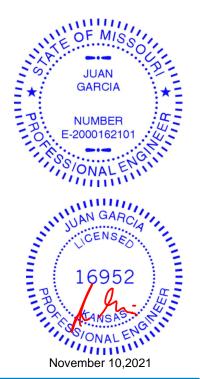
TOP CHORD 2-3=-266/0, 3-4=-1338/61, 2-10=-795/103

BOT CHORD 3-8=-76/1271, 7-8=-75/1270 4-8=0/287, 4-7=-1314/110

WEBS

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.
- * This truss has been designed for a 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) 7, 10.
- 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 2-2-0 oc purlins,

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

4-7

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

1 Row at midpt



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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



Job Truss Truss Type Qty Lot 143 HT 148735063 HT143 C5 Monopitch Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Nov 9 15:15:59 2021 Page 1 Wheeler Lumber, Waverly, KS - 66871, ID:Ej7EWovY_94Pzt7UVy1gWAz_t70-6Xl2gjgTcDgcTnD_TzSF1MHlo8QBy22TyfFRwByKtTk 2-3-8 1-10-8 5-10-13 Scale = 1:33.0 2x4 || 5 4.00 12 3x4 = 4-8-11 3х6 1-0-0 7 П 2x4 | 8 2x4 II 3x6 || 5-10-13 Plate Offsets (X,Y)--[3:0-5-7,0-0-10] SPACING-L/d **PLATES** GRIP LOADING (psf) 2-0-0 CSI. DEFL. in (loc) I/defI 25.0 Plate Grip DOL TCLL 1.15 TC 0.87 Vert(LL) -0.19 3-7 >894 360 MT20 197/144 TCDL 10.0 Lumber DOL 1.15 BC 0.61 Vert(CT) -0.37 3-7 >463 240 BCLL 0.0 Rep Stress Incr YES WB 0.59 Horz(CT) 0.21 6 n/a n/a Code IRC2018/TPI2014 FT = 10% **BCDL** 10.0 Matrix-S Wind(LL) 3-7 >999 240 Weight: 59 lb 0.13 LUMBER-**BRACING-**2x6 SPF No.2 TOP CHORD TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, 2x4 SPF No.2 **BOT CHORD** except end verticals. 2x3 SPF No.2 *Except* **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc bracing.

WEBS

1 Row at midpt

4-6

WEBS

3-8,2-9: 2x4 SPF No.2

REACTIONS. (size) 6=Mechanical, 9=0-3-8

Max Horz 9=174(LC 5)

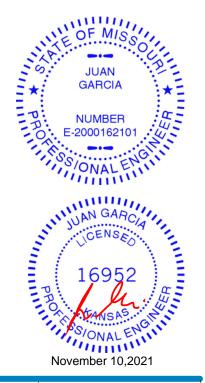
Max Uplift 6=-43(LC 8), 9=-86(LC 4) Max Grav 6=639(LC 1), 9=800(LC 1)

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

2-3=-271/0, 3-4=-1347/62, 2-9=-795/102 TOP CHORD

BOT CHORD 3-7=-79/1281 6-7=-78/1280 **WEBS** 4-7=0/287, 4-6=-1345/118

- 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 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) 6, 9.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.





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Job Truss Truss Type Qty Lot 143 HT 148735064 HT143 C6 Monopitch 3 Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Nov 9 15:15:59 2021 Page 1 Wheeler Lumber, Waverly, KS - 66871, ID:Ej7EWovY_94Pzt7UVy1gWAz_t70-6Xl2gjgTcDgcTnD_TzSF1MHlZ8Sby5bTyfFRwByKtTk 1-10-8 8-2-5 6-5-11 Scale = 1:33.1 3x4 || 4.00 12 3x4 = 7 6x8 || 6 2x4 || LOADING (psf) SPACING-CSI. DEFL. I/defI L/d **PLATES** GRIP 2-0-0 (loc) 25.0 Plate Grip DOL 1.15 TC Vert(LL) -0.09 >999 360 197/144 **TCLL** 0.88 6-7 MT20 **TCDL** 10.0 Lumber DOL 1.15 ВС 0.46 Vert(CT) -0.18 6-7 >934 240 **BCLL** 0.0 Rep Stress Incr YES WB 0.43 Horz(CT) 0.02 5 n/a n/a Code IRC2018/TPI2014 BCDL 10.0 Matrix-S Wind(LL) 0.03 5-6 >999 240 Weight: 50 lb FT = 10% LUMBER-BRACING-

TOP CHORD

BOT CHORD

WEBS

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

2x3 SPF No.2 *Except* **WEBS** 2-7: 2x6 SPF No.2

REACTIONS.

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

Max Horz 7=190(LC 5)

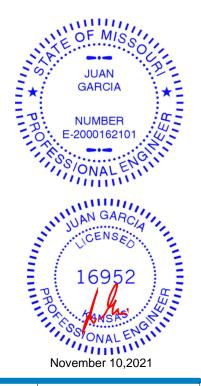
Max Uplift 5=-43(LC 8), 7=-89(LC 4) Max Grav 5=634(LC 1), 7=803(LC 1)

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

TOP CHORD 2-3=-928/38, 2-7=-715/134 **BOT CHORD** 6-7=-49/789, 5-6=-49/789 3-6=0/317, 3-5=-873/89 WFBS

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.
- 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, 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.



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

3-5

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

except end verticals.

1 Row at midpt



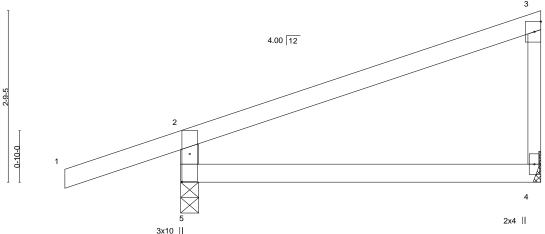
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

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Job Truss Truss Type Qty Lot 143 HT 148735065 HT143 C7 Monopitch 5 Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Nov 9 15:16:00 2021 Page 1 Wheeler Lumber, Waverly, KS - 66871, $ID: Ej7EWovY_94Pzt7UVy1gWAz_t70-ajJQt3h5NXoT5xoB1gzUaZq2YYr3hdWcBJ_SdyKtTj$ 1-10-8 5-10-0 Scale = 1:18.7 3x4 ||



5-10-0

except end verticals.

Plate Off	Plate Offsets (X,Y) [5:0-5-6,0-1-8]											
LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.36	Vert(LL)	-0.04	4-5	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.25	Vert(CT)	-0.08	4-5	>846	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/TP	12014	Matri	x-R	Wind(LL)	0.01	4-5	>999	240	Weight: 18 lb	FT = 10%

TOP CHORD

BOT CHORD

LUMBER-BRACING-

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

3-4: 2x3 SPF No.2

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

Max Horz 5=120(LC 5)

Max Uplift 4=-49(LC 8), 5=-138(LC 4) Max Grav 4=226(LC 1), 5=418(LC 1)

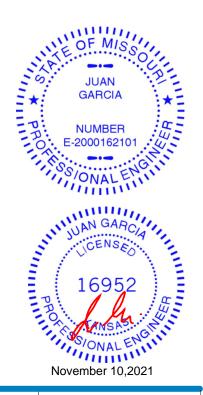
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 2-5=-370/176

NOTES-

REACTIONS.

- 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
- 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 = 138
- 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 5-10-0 oc purlins,

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



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

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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



Job Truss Truss Type Qty Lot 143 HT 148735066 HT143 C8 Half Hip Job Reference (optional)
8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Nov 9 15:16:01 2021 Page 1 Wheeler Lumber, Waverly, KS - 66871, ID:Ej7EWovY_94Pzt7UVy1gWAz_t70-2wso5Phj8rwKj5NNbNUj6nM5sx7_Q?FmPzkX_4yKtTi 12-11-1 1-10-8 8-2-5 4-8-12 1-8-15 Scale = 1:33.1 6x6 = 2x4 || 5 4.00 12 2x4 || 5-1-11

12-11-1

3x6 =

Plate Offsets	(X,Y)	[7:0-2-8,0-1-8]	

LOADING	(psf)	SPACING- 2	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.90	Vert(LL)	-0.09	7-8	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.46	Vert(CT)	-0.18	7-8	>933	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.35	Horz(CT)	0.01	6	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2	014	Matri	x-S	Wind(LL)	0.03	6-7	>999	240	Weight: 52 lb	FT = 10%

BOT CHORD

LUMBER-BRACING-TOP CHORD

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

2-8: 2x6 SPF No.2

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

Max Horz 8=220(LC 5)

Max Uplift 6=-129(LC 4), 8=-201(LC 4) Max Grav 6=634(LC 1), 8=803(LC 1)

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

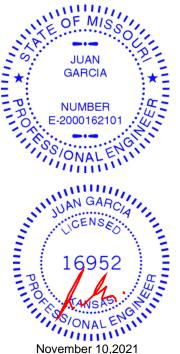
8 6x8 ||

2-3=-913/142, 3-4=-873/232, 2-8=-718/247 TOP CHORD

BOT CHORD 7-8=-141/772

WEBS 3-7=-439/240, 4-7=-210/826, 4-6=-573/133

- 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 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=129, 8=201
- 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.



6

3x4 =

Structural wood sheathing directly applied or 2-2-0 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.

Job Truss Truss Type Qty Lot 143 HT 148735067 HT143 C9 Roof Special Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Nov 9 15:16:02 2021 Page 1 Wheeler Lumber, Waverly, KS - 66871, ID:Ej7EWovY_94Pzt7UVy1gWAz_t70-X6QBIliLv82BKFyZ95?yf_vGlLQe9TLvedT5WWyKtTh 14-8-0 5-2-6 5-2-6

5-2-11

Scale = 1:30.7

1-2-15

14-8-0

3-0-0

13-5-3-0-0

Structural wood sheathing directly applied or 4-2-2 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.

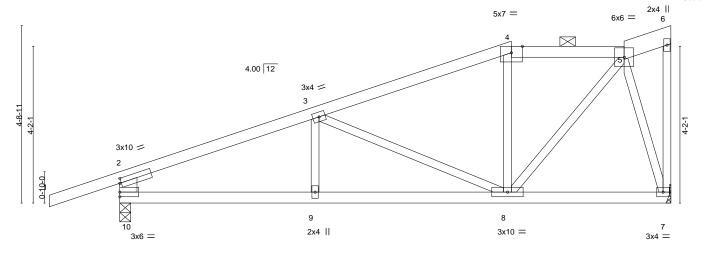


Plate Off	Sets (X,Y)	[2:0-0-8,0-1-8]			
LOADIN	G (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d PLATES GRIP	
TCLL	25.0	Plate Grip DOL 1.15	TC 0.82	Vert(LL) -0.09 8-9 >999 360 MT20 197/144	
TCDL	10.0	Lumber DOL 1.15	BC 0.69	Vert(CT) -0.16 8-9 >999 240	
BCLL	0.0 *	Rep Stress Incr YES	WB 0.30	Horz(CT) 0.02 7 n/a n/a	
BCDL	10.0	Code IRC2018/TPI2014	Matrix-S	Wind(LL) 0.07 8-9 >999 240 Weight: 58 lb FT = 10%	

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

2x4 SPF No.2 *Except* TOP CHORD 5-6: 2x6 SPF No.2

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

2-10: 2x6 SP DSS

1-10-8

REACTIONS. (size) 7=Mechanical, 10=0-3-8

Max Horz 10=203(LC 5)

Max Uplift 7=-130(LC 8), 10=-204(LC 4) Max Grav 7=634(LC 1), 10=803(LC 1)

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

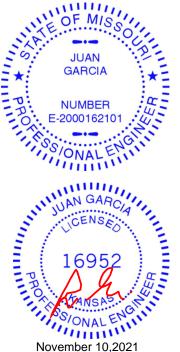
TOP CHORD 2-3=-998/169, 3-4=-584/119, 4-5=-522/138, 2-10=-697/219

BOT CHORD 9-10=-180/869, 8-9=-180/869

3-8=-385/126, 5-8=-110/563, 5-7=-600/144 **WEBS**

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate
- 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.
- * This truss has been designed for a 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) except (jt=lb) 7=130, 10=204.
- 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.



November 10,2021

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3-0-0

10-11-1

Structural wood sheathing directly applied or 3-8-6 oc purlins,

except end verticals, and 2-0-0 oc purlins (4-3-13 max.): 3-4.

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

7-11-1

Scale = 1:30.7

14-8-0

3-8-15

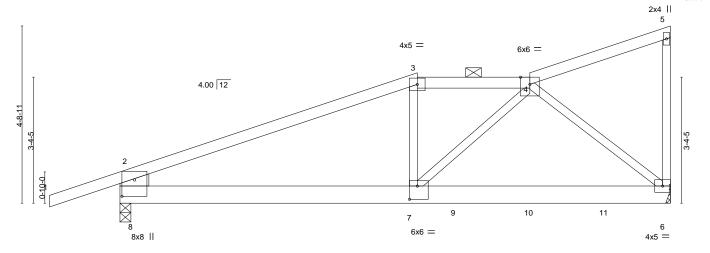


Plate Offsets (X,Y)	Plate Offsets (X,Y) [7:0-2-8,0-4-4], [8:0-5-4,0-4-0]										
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d	PLATES GRIP							
TCLL 25.0	Plate Grip DOL 1.15	TC 0.94	Vert(LL) -0.15 6-7 >999 360	MT20 197/144							
TCDL 10.0	Lumber DOL 1.15	BC 0.68	Vert(CT) -0.27 6-7 >629 240	Weight: 60 lb FT = 10%							
BCLL 0.0 *	Rep Stress Incr NO	WB 0.80	Horz(CT) 0.02 6 n/a n/a								
BCDL 10.0	Code IRC2018/TPI2014	Matrix-S	Wind(LL) 0.14 6-7 >999 240								

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x4 SPF No.2 *Except*

1-3: 2x4 SPF 2100F 1.8E BOT CHORD 2x6 SPF 1650F 1.4E WEBS 2x3 SPF No.2 *Except*

2-8: 2x10 SP DSS

1-10-8

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

Max Horz 8=204(LC 22)

Max Uplift 6=-381(LC 8), 8=-345(LC 4) Max Grav 6=1404(LC 1), 8=1219(LC 1)

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

TOP CHORD 2-3=-1995/494, 3-4=-1781/498, 2-8=-1098/378

BOT CHORD 7-8=-464/1791, 6-7=-284/1107

WEBS 3-7=-113/352, 4-7=-252/942, 4-6=-1415/419

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) except (jt=lb)
- 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) 503 lb down and 181 lb up at 7-11-1, 211 lb down and 76 lb up at 8-11-13, and 238 lb down and 83 lb up at 10-11-4, and 238 lb down and 83 lb up at 12-11-4 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

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

Vert: 1-2=-70, 2-3=-70, 3-4=-70, 4-5=-70, 6-8=-20

JUAN GARCIA NUMBER E-2000162101 SS/ONAL ENGINEER 16952 PROCENSES November 10,2021

Continued on page 2

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-	lob	Truss	Truss Type	Qty	Ply	Lot 143 HT	٦
Ι.	IT4 40	010	Don't Consider Cinder	_		148735068	j
'	HT143	C10	Roof Special Girder	1	1		
					1	Job Reference (optional)	

Wheeler Lumber,

Waverly, KS - 66871,

8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Nov 9 15:15:54 2021 Page 2 ID:Ej7EWovY_94Pzt7UVy1gWAz_t70-mZx9d0cKoh2KN0L1hPs4Klat?7h0HkakoNXgE_yKtTp

LOAD CASE(S) Standard

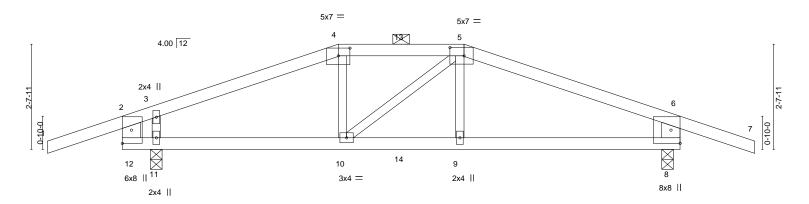
Concentrated Loads (lb) Vert: 7=-503(B) 9=-211(B) 10=-238(B) 11=-238(B)



Job Truss Truss Type Qty Lot 143 HT 148735069 HT143 D1 Hip Girder Job Reference (optional) Wheeler Lumber, Waverly, KS - 66871, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Nov 9 15:16:04 2021 Page 1 ID:Ej7EWovY_94Pzt7UVy1gWAz_t70-TVYxjRkbRmlvaY6yGW1QkP_dl92odQ_C5xyCbPyKtTf -1-10-8 1-10-8 0-10-4 0-10-4 15-10-8

Scale = 1:28.9

1-10-8



		0-8-8	5-5-1		1	8-6-15	1			13-10-0	14-0 _r	-0
		0-8-8	4-6-13			3-1-14				5-3-1	0121	0
		0-1-12										
Plate Offse	ets (X,Y)	[4:0-3-8,0-2-5], [5:0-4-4,0	-2-8]									
LOADING	(psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	I/defI	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.73	Vert(LL)	-0.15	9-10	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.90	Vert(CT)	-0.27	9-10	>570	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.10	Horz(CT)	0.02	8	n/a	n/a		
BCDL	10.0	Code IRC2018/TF	PI2014	Matrix	k-S	Wind(LL)	0.14	9-10	>999	240	Weight: 46 lb	FT = 10%

TOP CHORD

BOT CHORD

LUMBER-BRACING-

TOP CHORD 2x4 SPF 2100F 1.8E *Except*

4-5: 2x4 SPF No.2 **BOT CHORD** 2x4 SPF 2100F 1.8E WEBS 2x3 SPF No.2 *Except* 2-12,6-8: 2x6 SP DSS

REACTIONS. (size) 8=0-3-8, 11=0-3-8

Max Horz 11=22(LC 8)

0-10-4

Max Uplift 8=-269(LC 5), 11=-303(LC 4) Max Grav 8=927(LC 1), 11=1021(LC 1)

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

TOP CHORD 2-3=-982/207, 3-4=-1107/265, 4-5=-971/258, 5-6=-1259/292, 2-12=-370/71,

6-8=-813/284

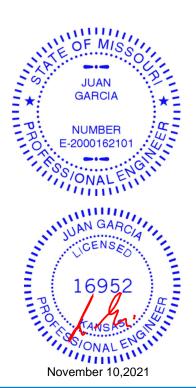
BOT CHORD 11-12=-181/963, 10-11=-165/963, 9-10=-196/1118, 8-9=-196/1105

WEBS 5-9=-23/307, 3-11=-432/212

- 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 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)
- 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) 79 lb down and 64 lb up at 7-0-0 on top chord, and 197 lb down and 86 lb up at 5-5-1, and 27 lb down at 7-0-0, and 197 lb down and 86 lb up at 8-6-15 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



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

except end verticals, and 2-0-0 oc purlins (5-4-8 max.): 4-5.

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



🗥 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE

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Job Truss Truss Type Qty Ply Lot 143 HT 148735069 HT143 D1 Hip Girder

Wheeler Lumber,

Waverly, KS - 66871,

Job Reference (optional)

8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Nov 9 15:16:04 2021 Page 2
ID:Ej7EWovY_94Pzt7UVy1gWAz_t70-TVYxjRkbRmlvaY6yGW1QkP_dl92odQ_C5xyCbPyKtTf

LOAD CASE(S) Standard

Uniform Loads (plf)
Vert: 1-2=-70, 2-4=-70, 4-5=-70, 5-6=-70, 6-7=-70, 8-12=-20

Concentrated Loads (lb)

Vert: 10=-197(F) 9=-197(F) 13=-28(F) 14=-12(F)



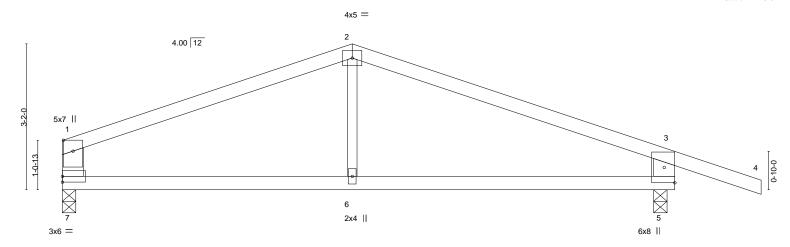
Job Truss Truss Type Qty Lot 143 HT 148735070 HT143 D2 Common Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Nov 9 15:16:04 2021 Page 1 Wheeler Lumber, Waverly, KS - 66871, ID:Ej7EWovY_94Pzt7UVy1gWAz_t70-TVYxjRkbRmlvaY6yGW1QkP_dV98NdQOC5xyCbPyKtTf

7-0-0

Scale = 1:25.0

15-2-0

1-10-8



		6-3-8			6-	0-2-0	
LOADING TCLL	(psf) 25.0	SPACING- 2-0 Plate Grip DOL 1.		DEFL. Vert(LL) -0.	in (loc) 10 5-6	I/defl L/d >999 360	PLATES GRIP MT20 197/144
TCDL	10.0	Lumber DOL 1.	15 BC 0.55	Vert(CT) -0.	20 5-6	>760 240	W120 137/144
BCLL BCDL	0.0 * 10.0	Rep Stress Incr YE Code IRC2018/TPI201		- (- /	01 5 06 5-6	n/a n/a >999 240	Weight: 38 lb FT = 10%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

2x4 SPF No 2 TOP CHORD 2x4 SPF No.2 **BOT CHORD** 2x6 SPF No.2 *Except* WEBS

2-6: 2x3 SPF No.2

REACTIONS. (size) 7=0-3-8, 5=0-3-8 Max Horz 7=-46(LC 5)

Max Uplift 7=-81(LC 4), 5=-181(LC 5) Max Grav 7=565(LC 1), 5=737(LC 1)

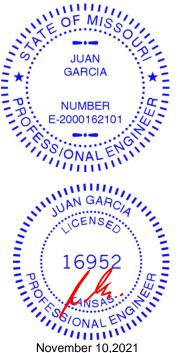
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

1-2=-744/98, 2-3=-756/104, 1-7=-462/113, 3-5=-646/220 TOP CHORD

BOT CHORD 6-7=-26/630, 5-6=-26/630

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
- 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) 7 except (jt=lb)
- 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.



12.2.0

Structural wood sheathing directly applied or 5-6-0 oc purlins,

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

except end verticals.



Job Truss Truss Type Qty Lot 143 HT 148735071 HT143 D3 Common Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Nov 9 15:16:05 2021 Page 1 Wheeler Lumber, Waverly, KS - 66871, ID:Ej7EWovY_94Pzt7UVy1gWAz_t70-xh6JxmkEC3QmBig8qDZfHdXpoZXmMuJLKbil7ryKtTe

6-3-8

Scale = 1:22.1

7-7-0 1-3-8

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

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

except end verticals.

4x5 = 5x7 || 4.00 12 3 3x4 || 1-0-13 5 2x4 || 2x4 Ш 5x7 ||

	That emote (A) [[all a 11] a a g											
LOADING	(psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.64	Vert(LL)	-0.07	5-6	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.34	Vert(CT)	-0.17	5-6	>529	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code IRC2018/TF	PI2014	Matri	x-R	Wind(LL)	0.06	5-6	>999	240	Weight: 23 lb	FT = 10%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

2x4 SPF No.2 TOP CHORD **BOT CHORD** 2x4 SPF No.2 WEBS 2x3 SPF No.2 *Except* 1-6: 2x4 SPF No.2

Plate Offsets (X Y)-- [3:0-3-11 0-0-0]

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

Max Horz 6=100(LC 5)

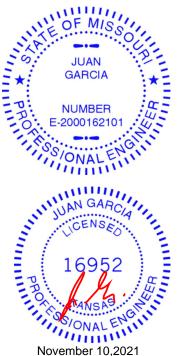
Max Uplift 6=-53(LC 4), 4=-55(LC 4) Max Grav 6=330(LC 1), 4=330(LC 1)

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

TOP CHORD 1-6=-257/90

NOTES-

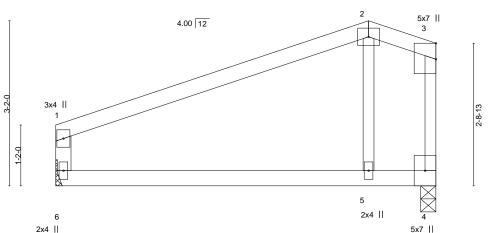
- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber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



November 10,2021



Job Truss Truss Type Qty Lot 143 HT 148735072 HT143 D4 Common Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Nov 9 15:16:06 2021 Page 1 Wheeler Lumber, Waverly, KS - 66871, ID:Ej7EWovY_94Pzt7UVy1gWAz_t70-Ptgh86lszNYdpsFKOx4upq4?RyuU5LaVZFRIfHyKtTd 6-0-0 1-3-8 Scale = 1:22.1 4x5 =



6-0-0 Plate Offsets (X V)-- [3:0-3-11 0-0-0]

1 late Offsets (7,1) [3.0-0-11,0-0-0]							
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 0.59	Vert(LL) -0.06 5-6 >999 360	MT20 197/144			
TCDL 10.0	Lumber DOL 1.15	BC 0.31	Vert(CT) -0.14 5-6 >594 240				
BCLL 0.0 *	Rep Stress Incr YES	WB 0.03	Horz(CT) 0.00 4 n/a n/a				
BCDL 10.0	Code IRC2018/TPI2014	Matrix-R	Wind(LL) 0.05 5-6 >999 240	Weight: 22 lb FT = 10%			

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

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

1-6: 2x4 SPF No.2

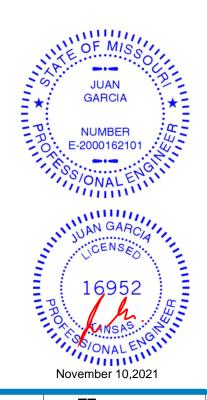
(size) 6=Mechanical, 4=0-3-8

Max Horz 6=99(LC 5)

Max Uplift 6=-51(LC 4), 4=-52(LC 4) Max Grav 6=317(LC 1), 4=317(LC 1)

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

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



Structural wood sheathing directly applied or 6-0-0 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 chorembers 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



Job Truss Truss Type Qty Ply Lot 143 HT 148735073 HT143 E1 Roof Special Girder Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Nov 9 15:16:08 2021 Page 1 Wheeler Lumber, Waverly, KS - 66871,

ID:Ej7EWovY_94Pzt7UVy1gWAz_t70-LGnSZon6V_oK2APjVM6MvF9IvmU8Z3Sn0ZwPkAyKtTb

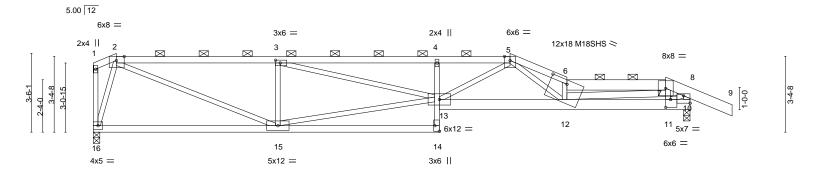
Structural wood sheathing directly applied or 2-0-5 oc purlins,

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

except end verticals, and 2-0-0 oc purlins (3-2-2 max.): 2-5, 6-7.

18-6-13 21-1-3 25-6-0 26-7-0 28-5-8 7-2-6 7-2-6 3-1-13 2-6-6 4-4-13 1-1-0 1-10-8

Scale = 1:51.3



	1-0-5	8-2-10			15-5-0	1	18-6-13	21-1	-3 _I	25-6-0 ₂ 26-7	<u>'-0</u>
1-0-5 7-2-6		7-2-6			3-1-13	2-6-	-6	4-4-13 1-1-	-0 1		
Plate Offsets (X,Y) [2:0-4-3,Edge], [3:0-2-8,0-1-8], [6:0-9-0,0-2-3], [10:Edge,0-4-0], [11:0-2-8,0-4-4], [14:Edge,0-2-8]											
LOADING	(psf)	SPACING-	2-0-0	CSI.		DEFL.	in (loc) I/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.78	Vert(LL)	-0.35 12-13	>907	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.62	Vert(CT)	-0.64 12-13	>496	240	M18SHS	197/144
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.77	Horz(CT)	0.09 10	n/a	n/a		
BCDL	10.0	Code IRC2018/TF	PI2014	Matrix	x-S	Wind(LL)	0.27 12-13	>999	240	Weight: 115 lb	FT = 10%

TOP CHORD

BOT CHORD

LUMBER-BRACING-

2x4 SPF No.2 *Except* TOP CHORD

2-5: 2x4 SPF 2100F 1.8E, 6-7,7-9: 2x6 SPF No.2

BOT CHORD 2x4 SPF No.2 *Except*

4-14: 2x3 SPF No.2, 10-13: 2x6 SPF 1650F 1.4E

WEBS 2x3 SPF No.2 *Except* 7-12,8-10: 2x4 SPF No.2

REACTIONS. (size) 10=0-3-8, 16=0-3-8

Max Horz 16=-120(LC 6)

Max Uplift 10=-295(LC 5), 16=-201(LC 5) Max Grav 10=1240(LC 1), 16=1176(LC 1)

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

TOP CHORD 2-3=-2284/438, 3-4=-3734/690, 4-5=-3769/688, 5-6=-4716/769, 6-7=-4536/725,

7-8=-1526/270, 8-10=-1507/320

BOT CHORD 15-16=-44/370, 4-13=-422/167, 12-13=-465/2964, 11-12=-227/1500

2-15=-353/2088, 3-15=-989/304, 13-15=-351/2108, 3-13=-264/1509, 5-13=-191/1036, WFBS

5-12=-242/1793, 6-12=-1861/352, 7-12=-497/3140, 7-11=-645/104, 2-16=-1242/324,

8-11=-247/1535

- 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 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.
- * This truss has been designed for a 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) except (jt=lb) 10=295 16=201
- 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.
- 10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 56 lb down and 51 lb up at 25-6-0 on top chord, and 105 lb down and 509 lb up at 25-4-15 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 11) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

GARCIA NUMBER -2000162101 ONALE 16952 November 10,2021 November 10,2021

COARIGASE(S)geStandard

MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE

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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



Γ,	Job	Truss	Truss Type	Qty	Ply	Lot 143 HT	٦
Ι.	IT4.40		Don't Consider Cinder			148735073	j
- ['	HT143	E1	Roof Special Girder	1	1	Lab Dafarana (antional)	
						Job Reference (optional)	

Wheeler Lumber,

Waverly, KS - 66871,

8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Nov 9 15:16:08 2021 Page 2 ID:Ej7EWovY_94Pzt7UVy1gWAz_t70-LGnSZon6V_oK2APjVM6MvF9IvmU8Z3Sn0ZwPkAyKtTb

LOAD CASE(S) Standard

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

Vert: 1-2=-70, 2-5=-70, 5-6=-70, 6-7=-70, 7-8=-70, 8-9=-70, 14-16=-20, 10-13=-20

Concentrated Loads (lb)

Vert: 7=51(F) 11=44(F)



Job Truss Truss Type Qty Ply Lot 143 HT 148735074 HT143 E2 Roof Special Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Nov 9 15:16:09 2021 Page 1 Wheeler Lumber, Waverly, KS - 66871, ID:Ej7EWovY_94Pzt7UVy1gWAz_t70-pSLqm8nkGlwBgK_v33dbRTiVOAohlYmxFDgyGcyKtTa

6-4-12

16-11-10

1-6-10

19-6-0

2-6-6

23-10-13

4-4-13

Structural wood sheathing directly applied or 3-8-7 oc purlins,

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

except end verticals, and 2-0-0 oc purlins (2-6-11 max.): 2-5, 6-7.

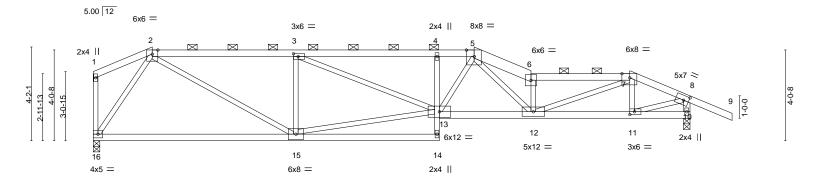
Scale = 1:51.3

28-5-8

1-10-8

26-7-0

2-8-3



2-7	'-8 9-0-4	15-5-0) ₁ 16-11-10	19-6-0	23-10-13	26-7-0	1
2-7	-8 6-4-12	6-4-12	1-6-10	2-6-6	4-4-13	2-8-3	1
Plate Offsets (X,Y) [3	3:0-2-8,0-1-8], [5:0-4-3,Edge], [7:0-4	-3,Edge], [8:0-2-12,0-2-8], [11:0-2-8,0-1-8]				
LOADING (psf) TCLL 25.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2018/TPI2014	CSI. TC 0.67 BC 0.73 WB 0.70 Matrix-S	DEFL. in Vert(LL) -0.22 Vert(CT) -0.45 Horz(CT) 0.08 Wind(LL) 0.17		99 360 99 240 /a n/a	PLATES MT20 Weight: 107 lb	GRIP 197/144 FT = 10%

BOT CHORD

LUMBER-BRACING-

6-4-12

2x4 SPF No.2 *Except* TOP CHORD TOP CHORD

5-6: 2x6 SPF No.2 **BOT CHORD** 2x4 SPF No.2 *Except* 4-14: 2x3 SPF No.2

WEBS 2x3 SPF No.2 *Except* 8-10: 2x4 SPF No.2

REACTIONS. (size) 10=0-3-8, 16=0-3-8

Max Horz 16=-120(LC 6)

Max Uplift 10=-236(LC 5), 16=-176(LC 5) Max Grav 10=1332(LC 1), 16=1180(LC 1)

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

TOP CHORD $2\text{-}3\text{--}1959/365,\ 3\text{-}4\text{--}2758/492,\ 4\text{-}5\text{--}2775/491,\ 5\text{-}6\text{--}3839/623,\ 6\text{-}7\text{--}3419/534,}$

7-8=-1653/240, 8-10=-1310/245

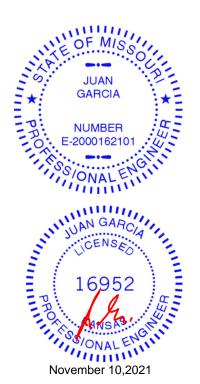
BOT CHORD 15-16=-100/706, 4-13=-350/144, 12-13=-358/2549, 11-12=-184/1525

2-15=-213/1470, 3-15=-867/263, 13-15=-271/1858, 3-13=-140/878, 5-13=-109/536, WFBS

5-12=-208/1410, 6-12=-1722/334, 7-12=-321/2044, 7-11=-388/111, 2-16=-1238/268,

8-11=-235/1586

- 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=236, 16=176.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.





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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



Job Truss Truss Type Qty Ply Lot 143 HT 148735075 HT143 E3 Roof Special Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Nov 9 15:16:10 2021 Page 1 Wheeler Lumber, Waverly, KS - 66871, ID:Ej7EWovY_94Pzt7UVy1gWAz_t70-levC_UoM0c32ITZ6dm8q_gEjHa611yl4UtPWp2yKtTZ

5-6-14

17-10-13

2-6-6

22-3-10

4-4-13

Scale = 1:51.1

28-5-8

1-10-8

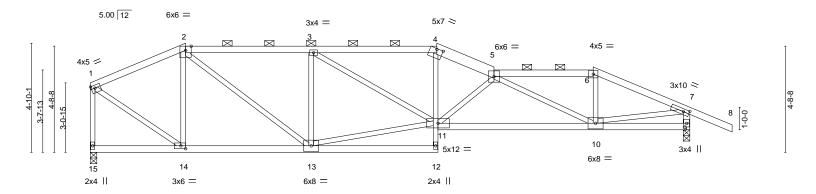
26-7-0

4-3-6

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

Rigid ceiling directly applied or 9-3-13 oc bracing

except end verticals, and 2-0-0 oc purlins (3-6-10 max.): 2-4, 5-6.



	4-2-11	9-9-9		15-5-0		17-10-13	22-3	-	26-7-0	4
	4-2-11	5-6-14	l l	5-7-7	'	2-5-13	4-4	·13	4-3-6	1
Plate Offsets (X	Y) [1:0-2-0,0-1-8],	[4:0-3-8,0-0-7], [7:0-	3-3,0-1-8], [14:0	-2-8,0-1-8]						
LOADING (psf)	SPACIN	G- 2-0-0	CSI.		DEFL.	in (loc)	I/defI	L/d	PLATES	GRIP
TCLL 25.0	Plate Gri	p DOL 1.15	TC	0.47	Vert(LL)	-0.15 10-11	>999	360	MT20	197/144
CDL 10.0	Lumber I	OOL 1.15	BC	0.85	Vert(CT)	-0.32 10-11	>999	240		
BCLL 0.0	* Rep Stre	ss Incr YES	WB	0.85	Horz(CT)	0.07 9	n/a	n/a		
BCDL 10.0	Code IR	C2018/TPI2014	Matri	x-S	Wind(LL)	0.11 10-11	>999	240	Weight: 109 lb	FT = 10%

TOP CHORD

BOT CHORD

LUMBER-BRACING-

5-6-14

TOP CHORD 2x4 SPF No.2 *Except*

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

7-9: 2x4 SPF No.2 REACTIONS. (size) 15=0-3-8, 9=0-3-8

Max Horz 15=-118(LC 6)

4-2-11

Max Uplift 15=-153(LC 5), 9=-219(LC 5) Max Grav 15=1180(LC 1), 9=1332(LC 1)

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

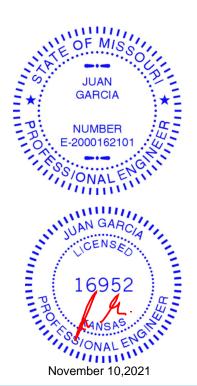
TOP CHORD 1-2=-1051/188, 2-3=-1693/323, 3-4=-2205/372, 4-5=-2420/388, 5-6=-1678/241,

6-7=-1891/246, 1-15=-1147/173, 7-9=-1298/229 **BOT CHORD** 13-14=-89/943, 4-11=-54/644, 10-11=-393/2812

2-14=-538/149, 2-13=-168/992, 3-13=-791/218, 11-13=-203/1639, 3-11=-83/614, WFBS 5-11=-817/189, 5-10=-1284/252, 6-10=0/422, 1-14=-148/1118, 7-10=-197/1638

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 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=153, 9=219.
- 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/TPL1
- 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chorembers 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

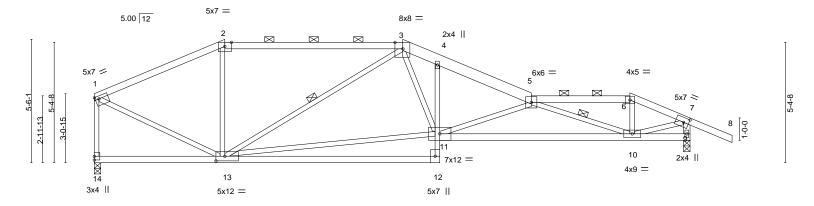
AMSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job Truss Truss Type Qty Ply Lot 143 HT 148735076 HT143 E4 Roof Special Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Nov 9 15:16:12 2021 Page 1 Wheeler Lumber, Waverly, KS - 66871,

ID:Ej7EWovY_94Pzt7UVy1gWAz_t70-E11zPAqdYDJmXnjUkBBI35J02NsfVtBNxBudtxyKtTX 26-7-0 15-5-0 19-6-0 23-10-13 28-5-8 5-9-14 7-11-5 1-7-13 4-1-0 4-4-13 2-8-3 1-10-8

Scale = 1:51.4



	5-9-14	1	13-9-3	15-5-0	19-6-0	1	23-10-13	26-7-0	I
	5-9-14		7-11-5	1-7-13	4-1-0		4-4-13	2-8-3	l
Plate Offsets (X	,Y) [1:0-2-0,0-1-8], [3:0-4-3,E	dge], [7:0-2-12	2,0-2-8], [13:0-4-12,0-2-8]					
LOADING (psf	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl L	./d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.64	Vert(LL)	-0.25 12-13	>999 36	60	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.58	Vert(CT)	-0.54 12-13	>590 24	40		
BCLL 0.0) * Rep Stress Incr	YES	WB 0.79	Horz(CT)	0.09 9	n/a n	ı/a		
BCDL 10.0	Code IRC2018/TF	PI2014	Matrix-S	Wind(LL)	0.12 10-11	>999 24	40	Weight: 112 lb	FT = 10%

BOT CHORD

WEBS

LUMBER-BRACING-TOP CHORD

2x4 SPF No.2 *Except* TOP CHORD

2-3: 2x4 SPF 2100F 1.8E, 3-5: 2x6 SPF No.2

BOT CHORD 2x4 SPF No.2 *Except*

4-12: 2x3 SPF No.2, 9-11: 2x4 SPF 2100F 1.8E 2x3 SPF No.2 *Except*

WEBS 7-9: 2x4 SPF No.2

REACTIONS. (size) 14=0-3-8, 9=0-3-8

Max Horz 14=-117(LC 6)

Max Uplift 14=-124(LC 5), 9=-207(LC 5) Max Grav 14=1180(LC 1), 9=1332(LC 1)

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

TOP CHORD 1-2=-1249/182, 2-3=-1097/189, 3-4=-2277/320, 4-5=-2409/309, 5-6=-1522/159,

6-7=-1698/155, 1-14=-1141/144, 7-9=-1344/184

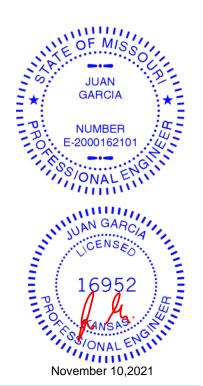
BOT CHORD 10-11=-428/3413

WFBS 3-13=-927/150, 11-13=-194/1672, 3-11=-127/908, 5-11=-1333/282, 5-10=-2024/352,

6-10=0/398, 1-13=-120/1190, 7-10=-137/1643

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) 14=124, 9=207.
- 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/TPL1
- 8) 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 4-4-2 oc purlins,

Rigid ceiling directly applied or 10-0-0 oc bracing, Except:

6-0-0 oc bracing: 9-10.

1 Row at midpt

except end verticals, and 2-0-0 oc purlins (4-3-5 max.): 2-3, 5-6.

3-13, 5-10



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

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AMSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job Truss Truss Type Qty Lot 143 HT 148735077 HT143 E5 Roof Special Girder Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Nov 9 15:16:13 2021 Page 1 Wheeler Lumber, Waverly, KS - 66871, ID:Ej7EWovY_94Pzt7UVy1gWAz_t70-iDbLcWrFJXRd9xlglviXcJs9Xn7sEKJXAqeAPNyKtTW

1-6-3

5-8-3

11-10-13 13-10-13 15-5-0

2-0-0

1-8-13

2-8-14

Scale = 1:52.5

26-7-0 28-5-8

1-10-8

1-1-0

25-6-0

4-4-13

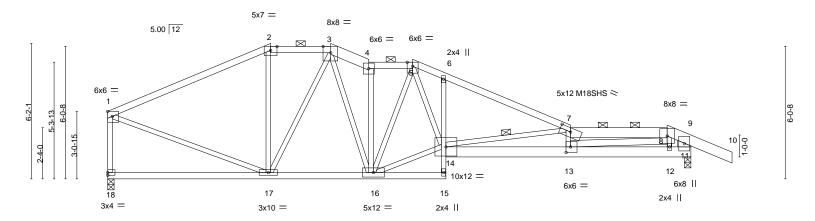
Structural wood sheathing directly applied or 2-8-13 oc purlins,

7-14

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

1 Row at midpt

except end verticals, and 2-0-0 oc purlins (3-4-5 max.): 2-3, 4-5, 7-8.



	L	1-3-2	10-2-0 11-10-13	13-10-13 13-3-0	21-1-3	23-6-0 26-7-0	
	ı ı	7-5-2	2-8-14 1-8-13	2-0-0 1-6-3	5-8-3	4-4-13 '1-1-0'	
Plate Off	sets (X,Y)	[1:Edge,0-2-12], [3:0-4-3,Edge], [7:	0-6-0,0-2-3], [13:0-2-8,0-3-0]				
LOADIN	G (nef)	SPACING- 2-0-0	CSI.	DEFL.	in (loc) I/defl L/d	PLATES GRIP	
TCLL	25.0	Plate Grip DOL 1.15	TC 0.79	Vert(LL)	-0.29 13-14 >999 360	MT20 197/144	
TCDL	10.0	Lumber DOL 1.15	BC 0.84	Vert(CT)	-0.53 13-14 >594 240	M18SHS 197/144	
BCLL	0.0 *	Rep Stress Incr NO	WB 0.80	Horz(CT)	0.08 11 n/a n/a		
BCDL	10.0	Code IRC2018/TPI2014	Matrix-S	Wind(LL)	0.22 13-14 >999 240	Weight: 130 lb FT = 10%	

BRACING-

TOP CHORD

BOT CHORD

WEBS

LUMBER-

2x4 SPF No.2 *Except* TOP CHORD

1-2: 2x4 SPF 2100F 1.8E, 3-4,7-8,8-10: 2x6 SPF No.2

BOT CHORD 2x4 SPF No.2 *Except*

6-15: 2x3 SPF No.2, 11-14: 2x6 SPF 1650F 1.4E

7-5-2 7-5-2

WEBS 2x3 SPF No.2 *Except*

8-13: 2x4 SPF No.2, 9-11: 2x8 SP DSS

REACTIONS. (size) 18=0-3-8, 11=0-3-8

Max Horz 18=-116(LC 34)

Max Uplift 18=-98(LC 8), 11=-270(LC 9) Max Grav 18=1169(LC 1), 11=1245(LC 1)

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

TOP CHORD $1-2=-1277/166,\ 2-3=-1095/178,\ 3-4=-1660/295,\ 4-5=-1490/249,\ 5-6=-2375/413,$

6-7=-2448/345, 7-8=-4396/628, 8-9=-1445/225, 1-18=-1102/134, 9-11=-1073/209

BOT CHORD 16-17=-57/1250, 6-14=-276/183, 13-14=-572/4305, 12-13=-165/1235, 11-12=-163/1238 3-17=-461/116, 3-16=-192/848, 4-16=-743/165, 5-16=-605/106, 14-16=-126/1756, WFBS

5-14=-269/1463, 7-14=-2133/356, 7-13=-806/204, 8-13=-453/3241, 1-17=-78/1118

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 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 18 except (jt=lb)
- 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. 10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 56 lb down and 51 lb up at 25-6-0 on top chord, and 105 lb down and 509 lb up at 25-4-15 on bottom chord. The design/selection of such connection
- device(s) is the responsibility of others. 11) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

Continued on page 2



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Γ,	Job	Truss	Truss Type	Qty	Ply	Lot 143 HT	٦
						148735077	1
- [1	HT143	E5	Roof Special Girder	1	1		
						Job Reference (optional)	

Wheeler Lumber,

Waverly, KS - 66871,

8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Nov 9 15:16:14 2021 Page 2 ID:Ej7EWovY_94Pzt7UVy1gWAz_t70-AQ9jprrt4qZUn5stscDm8WPKHBT5znZgPUNjypyKtTV

LOAD CASE(S) Standard

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

Uniform Loads (plf)

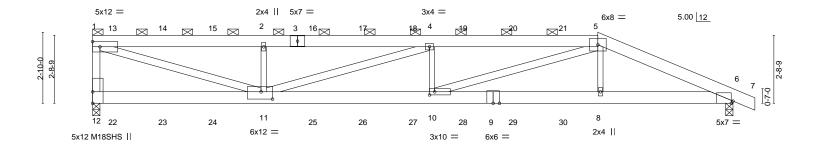
Vert: 1-2=-70, 2-3=-70, 3-4=-70, 4-5=-70, 5-7=-70, 7-8=-70, 8-9=-70, 9-10=-70, 15-18=-20, 11-14=-20

Concentrated Loads (lb)

Vert: 8=51(B) 12=44(B)

Job Truss Truss Type Qty Lot 143 HT 148735078 HT143 G1 Half Hip Girder Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Nov 9 15:16:15 2021 Page 1 Wheeler Lumber, Waverly, KS - 66871, ID:Ej7EWovY_94Pzt7UVy1gWAz_t70-ecj51BsVr8hLOFR3PKk?hkxUlbnTiGQpd87HUGyKtTU 25-7-0 26-5-8 0-10-8 6-10-0 6-8-12 6-7-8 5-4-13

Scale = 1:46.0



	<u> </u>	6-10-0	13-6-11		20-2-3	25-7-0	
	<u>'</u>	6-10-0	6-8-12	<u>'</u>	6-7-8	5-4-13	
Plate Offse	ets (X,Y)	[6:0-0-14,Edge], [10:0-2-8,0-1-8],	11:0-5-8,0-3-8]				
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	TC 0.87	Vert(LL)	-0.30 10-11 >999 360	MT20 197/144	
TCDL	10.0	Lumber DOL 1.15	BC 0.96	Vert(CT)	-0.55 10-11 >551 240	M18SHS 197/144	
BCLL	0.0 *	Rep Stress Incr NO	WB 0.69	Horz(CT)	0.09 6 n/a n/a		
BCDL	10.0	Code IRC2018/TPI2014	Matrix-S	Wind(LL)	0.26 10-11 >999 240	Weight: 124 lb FT = 10%	,

TOP CHORD

BOT CHORD

LUMBER-BRACING-

2x6 SPF No.2 *Except* TOP CHORD

3-5: 2x6 SPF 1650F 1.4E **BOT CHORD** 2x6 SPF No.2 *Except*

9-12: 2x6 SPF 1650F 1.4E **WEBS** 2x4 SPF 2100F 1.8E *Except*

1-12: 2x4 SPF No.2, 2-11,4-10,5-8: 2x3 SPF No.2

REACTIONS. (size) 12=0-3-8, 6=0-3-8

Max Horz 12=-103(LC 25) Max Uplift 12=-428(LC 4), 6=-397(LC 5)

Max Grav 12=2127(LC 1), 6=2050(LC 1)

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

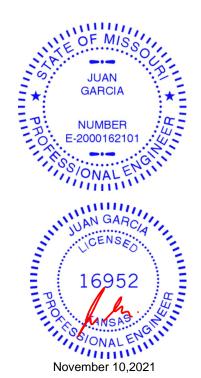
TOP CHORD 1-12=-1963/487, 1-2=-4756/977, 2-4=-4756/977, 4-5=-6075/1252, 5-6=-4484/870

BOT CHORD 10-11=-1173/6072, 8-10=-743/4020, 6-8=-743/4045

WEBS 1-11=-985/4876, 2-11=-851/397, 4-11=-1389/297, 4-10=-469/304, 5-10=-455/2271,

- 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 arip 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.
- * This truss has been designed for a 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) except (jt=lb) 12=428, 6=397.
- 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.
- 10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 115 lb down and 87 lb up at 0-9-8, 108 lb down and 90 lb up at 2-9-8, 108 lb down and 90 lb up at 4-9-8, 108 lb down and 90 lb up at 6-9-8, 108 lb down and 90 lb up at 8-9-8, 108 lb down and 90 lb up at 10-9-8, 108 lb down and 90 lb up at 12-9-8, 108 lb down and 90 lb up at 14-9-8, and 108 lb down and 90 lb up at 16-9-8, and 108 lb down and 90 lb up at 18-9-8 on top chord, and 74 lb down at 0-9-8, 67 lb down at 2-9-8, 67 lb down at 4-9-8, 67 lb down at 6-9-8, 67 lb down at 8-9-8, 67 lb down at 10-9-8, 67 lb down at 12-9-8, 67 lb down at 14-9-8, 67 lb down at 16-9-8, and 67 lb down at 18-9-8, and 354 lb down and 117 lb up at 20-2-3 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

Odntinutes வித்து ASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B)



Structural wood sheathing directly applied or 3-3-8 oc purlins,

except end verticals, and 2-0-0 oc purlins (2-5-8 max.): 1-5.

Rigid ceiling directly applied or 8-0-2 oc bracing.



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Job	Truss	Truss Type	Qty	Ply	Lot 143 HT	٦
117440		 			148735078	
HT143	G1	Half Hip Girder	1	1		
					Job Reference (optional)	

Wheeler Lumber,

Waverly, KS - 66871,

8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Nov 9 15:16:15 2021 Page 2 ID:Ej7EWovY_94Pzt7UVy1gWAz_t70-ecj51BsVr8hLOFR3PKk?hkxUlbnTiGQpd87HUGyKtTU

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-5=-70, 5-7=-70, 6-12=-20

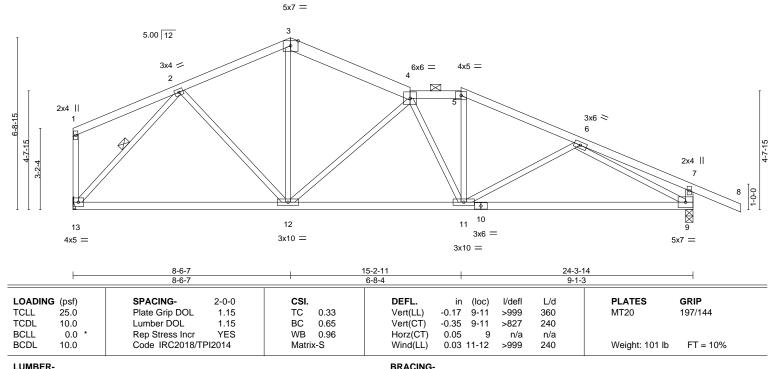
Concentrated Loads (lb)

Vert: 11=-43(F) 2=-103(F) 8=-354(F) 13=-115(F) 14=-103(F) 15=-103(F) 16=-103(F) 17=-103(F) 18=-103(F) 19=-103(F) 20=-103(F) 21=-103(F) 22=-47(F)

23=-43(F) 24=-43(F) 25=-43(F) 26=-43(F) 27=-43(F) 28=-43(F) 29=-43(F) 30=-43(F)

Job Truss Truss Type Qty Lot 143 HT 148735079 HT143 G2 Roof Special Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Nov 9 15:16:18 2021 Page 1 Wheeler Lumber, Waverly, KS - 66871, ID:Ej7EWovY_94Pzt7UVy1gWAz_t70-3BOEfDuO833wFiAe5SHiJMZ6PouzvY2GJ6Lx5byKtTR 15-2-11 24-3-14 13-2-11 19-9-6 26-2-6 4-3-1 4-3-6 4-8-4 2-0-0 4-6-11 4-6-8 1-10-8

Scale = 1:45.2



TOP CHORD

BOT CHORD

WEBS

LUMBER-

2x4 SPF No.2 *Except* TOP CHORD

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

2x3 SPF No.2 *Except* 7-9: 2x4 SPF No.2

REACTIONS. (size) 13=Mechanical, 9=0-3-8

Max Horz 13=-110(LC 6) Max Uplift 9=-51(LC 9)

Max Grav 13=1077(LC 1), 9=1231(LC 1)

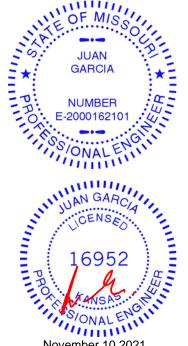
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

2-3=-1084/64, 3-4=-1069/51, 4-5=-1389/64, 5-6=-1569/52, 6-7=-282/0, 7-9=-375/47 TOP CHORD

BOT CHORD 12-13=0/789. 11-12=0/1460. 9-11=-36/1450

WEBS 2-12=0/308, 3-12=0/467, 4-12=-709/83, 5-11=0/338, 2-13=-1160/22, 6-9=-1501/104

- 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.
- * This truss has been designed for a 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) 9.
- 8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 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 4-2-15 oc purlins,

except end verticals, and 2-0-0 oc purlins (4-10-15 max.): 4-5.

2-13

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

1 Row at midpt

November 10,2021

Job Truss Truss Type Qty Ply Lot 143 HT 148735080 HT143 G3 Roof Special Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Nov 9 15:16:19 2021 Page 1 Wheeler Lumber, Waverly, KS - 66871,

8-11-8

4-9-12

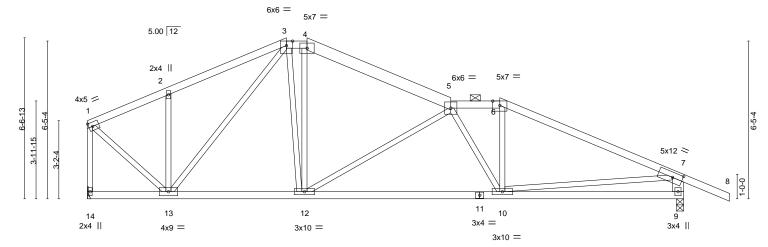
ID:Ej7EWovY_94Pzt7UVy1gWAz_t70-XNyctZv0vNBntslqe9pxra6BJCFEe?vPYm5Ud1yKtTQ 16-9-14 24-3-14 26-2-6 5-10-6 2-0-0 7-6-0 1-10-8

Structural wood sheathing directly applied or 3-3-14 oc purlins,

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

except end verticals, and 2-0-0 oc purlins (4-7-12 max.): 3-4, 5-6.

Scale = 1:47.0



	⊢	4-1-15	8-11-8			16-9-14		+		24-3-14	=
Plate Offset	to (V V)	4-1-15 ' [7:0-4-15.0-2-8]	4-9-9	· · · · · ·		7-10-6		<u> </u>		7-6-0	<u> </u>
Plate Offse	IS (A, T)	[7.0-4-15,0-2-0]				1					
LOADING	(psf)	SPACING-	2-0-0	CSI.		DEFL.	in (loc)	I/defI	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.77	Vert(LL)	-0.10 10-12	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.59	Vert(CT)	-0.22 10-12	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.92	Horz(CT)	0.03 9	n/a	n/a		
BCDL	10.0	Code IRC2018/T	PI2014	Matrix-	S	Wind(LL)	0.03 10-12	>999	240	Weight: 107 lb	FT = 10%

TOP CHORD

BOT CHORD

LUMBER-BRACING-

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

BOT CHORD 2x4 SPF No.2 WEBS 2x3 SPF No.2 *Except* 7-9: 2x6 SPF No.2

REACTIONS. (size) 14=Mechanical, 9=0-3-8

Max Horz 14=-110(LC 6) Max Uplift 9=-50(LC 9)

3-3-10

Max Grav 14=1073(LC 1), 9=1233(LC 1)

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

TOP CHORD 1-2=-813/27, 2-3=-852/63, 3-4=-994/65, 4-5=-1133/47, 5-6=-1471/62, 6-7=-1709/40,

1-14=-1045/8, 7-9=-1165/88

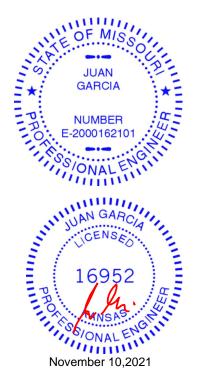
12-13=0/947, 10-12=0/1626, 9-10=-69/416 **BOT CHORD**

WEBS 2-13=-318/101, 3-13=-398/0, 3-12=-20/506, 5-12=-747/89, 5-10=-317/30, 6-10=0/351,

1-13=0/984, 7-10=0/1068

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



Job Truss Truss Type Qty Ply Lot 143 HT 148735081 HT143 G4 Roof Special Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Nov 9 15:16:20 2021 Page 1 Wheeler Lumber, Waverly, KS - 66871, ID:Ej7EWovY_94Pzt7UVy1gWAz_t70-?aW_4vweggJeV0K1CtKAOnfMuca?NUbZnQq29TyKtTP 24-3-14 6-6-3 6-6-3 16-5-1 18-5-1 26-2-6

5-10-6

2-0-0

18-5-1

5-10-13

24-3-14

Structural wood sheathing directly applied or 3-5-6 oc purlins,

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

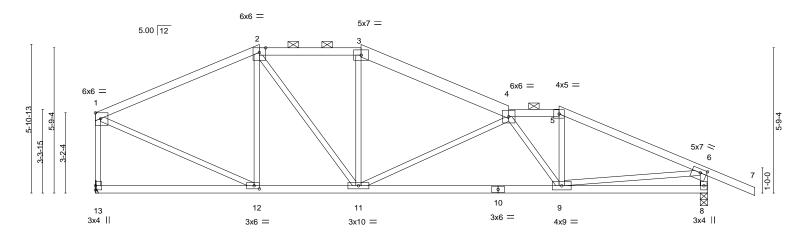
except end verticals, and 2-0-0 oc purlins (4-8-3 max.): 2-3, 4-5.

4-0-8

10-6-11

Scale = 1:45.8

1-10-8



		6-6-3	4-0-8	5-10-6	2-0-0	5-10-13	1
Plate Off	sets (X,Y)-	[1:Edge,0-2-12], [6:0-3-0,0-1-12], [12:0-2-8,0-1-8]				
LOADIN	G (psf)	SPACING- 2-0-0	CSI.	DEFL. in ((loc) I/defl L/d	PLATES G	RIP
TCLL	25.0	Plate Grip DOL 1.15	TC 0.71	Vert(LL) -0.12 9	9-11 >999 360	MT20 1	97/144
TCDL	10.0	Lumber DOL 1.15	BC 0.62	Vert(CT) -0.27 9	9-11 >999 240		
BCLL	0.0 *	Rep Stress Incr YES	WB 0.82	Horz(CT) 0.03	8 n/a n/a		
BCDL	10.0	Code IRC2018/TPI2014	Matrix-S	Wind(LL) 0.04 9	9-11 >999 240	Weight: 101 lb	FT = 10%

16-5-1

BOT CHORD

LUMBER-BRACING-TOP CHORD

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

WEBS 2x3 SPF No.2 *Except* 6-8: 2x4 SPF No.2

REACTIONS. (size) 13=Mechanical, 8=0-3-8

Max Horz 13=-110(LC 6) Max Uplift 8=-45(LC 9)

Max Grav 13=1077(LC 1), 8=1231(LC 1)

6-6-3

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

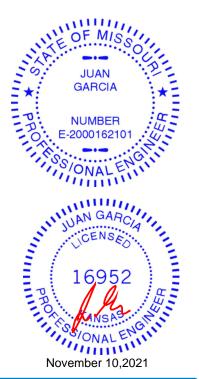
TOP CHORD 1-2=-1095/37, 2-3=-1180/51, 3-4=-1334/30, 4-5=-1525/44, 5-6=-1749/25,

1-13=-1015/21, 6-8=-1178/69 11-12=0/944, 9-11=0/1830

BOT CHORD WEBS 2-12=-321/59, 2-11=-24/483, 4-11=-735/92, 4-9=-540/43, 5-9=0/410, 1-12=0/988,

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
- 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 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) 8.
- 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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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



Job Truss Truss Type Qty Ply Lot 143 HT 148735082 HT143 G5 Roof Special Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Nov 9 15:16:21 2021 Page 1 Wheeler Lumber, Waverly, KS - 66871,

7-2-14

12-1-14

ID:Ej7EWovY_94Pzt7UVy1gWAz_t70-Tm4MHFxGR_RU6AvDmarPw?Ba8?vQ6zji04abhvyKtTO 24-3-14 18-0-4 20-0-4 26-2-6 5-10-6 2-0-0 4-3-10 1-10-8

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

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

except end verticals, and 2-0-0 oc purlins (4-9-15 max.): 2-3, 4-5.

Scale = 1:45.8

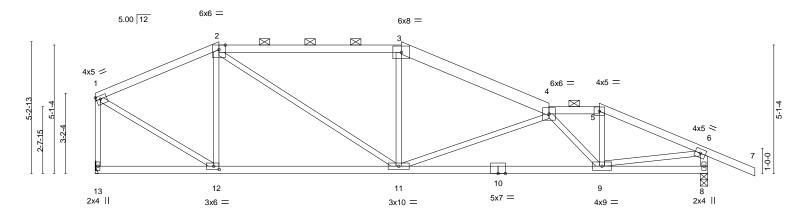


Plate Offsets	- (V V)	4-11-0 [1:0-2-0,0-1-8], [12:0-2-8	0.1.01	7-2-14			5-10-			2-0-0	4-3-10	
Plate Offset	5 (^,1)	[1.0-2-0,0-1-0], [12.0-2-0	,0-1-0]									
LOADING (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 2	25.0	Plate Grip DOL	1.15	TC	0.55	Vert(LL)	-0.11	9-11	>999	360	MT20	197/144
TCDL 1	10.0	Lumber DOL	1.15	BC	0.67	Vert(CT)	-0.25	9-11	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.70	Horz(CT)	0.04	8	n/a	n/a		
BCDL 1	10.0	Code IRC2018/TI	PI2014	Matri	x-S	Wind(LL)	0.04	9-11	>999	240	Weight: 98 lb	FT = 10%

TOP CHORD

BOT CHORD

LUMBER-BRACING-

2x4 SPF No.2 *Except* TOP CHORD

2-3: 2x4 SPF 2100F 1.8E, 3-4: 2x6 SPF No.2

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

6-8: 2x4 SPF No.2

REACTIONS. (size) 13=Mechanical, 8=0-3-8

Max Horz 13=-110(LC 6)

4-11-0

4-11-0

Max Uplift 13=-3(LC 4), 8=-39(LC 5) Max Grav 13=1077(LC 1), 8=1231(LC 1)

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

TOP CHORD 1-2=-1007/45, 2-3=-1396/48, 3-4=-1560/37, 4-5=-1489/21, 5-6=-1692/7, 1-13=-1040/22,

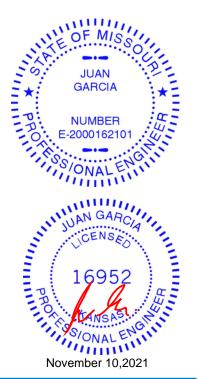
6-8=-1194/51

BOT CHORD 11-12=0/893, 9-11=0/2020

WEBS 2-12=-417/82, 2-11=-19/660, 4-11=-675/94, 4-9=-806/51, 5-9=0/459, 1-12=-8/1021,

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
- 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 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) 13, 8.
- 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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AMSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job Truss Truss Type Qty Lot 143 HT 148735083 HT143 G6 Roof Special Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Nov 9 15:16:22 2021 Page 1 Wheeler Lumber, Waverly, KS - 66871, ID:Ej7EWovY_94Pzt7UVy1gWAz_t70-xyelVbyuClZLkJUPKIMeTCkooPEirOdrEkJ8EMyKtTN 21-7-8 24-3-14 26-2-6

5-10-6

2-0-0

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

Rigid ceiling directly applied or 10-0-0 oc bracing, Except:

6-0-0 oc bracing: 9-10.

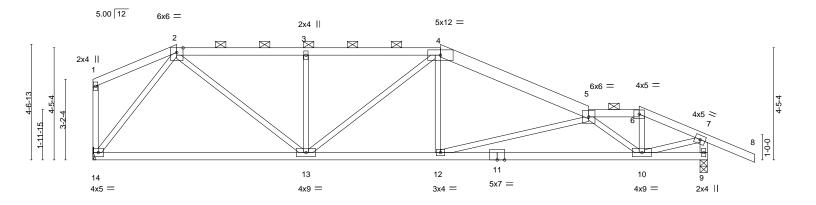
except end verticals, and 2-0-0 oc purlins (4-6-3 max.): 2-4, 5-6.

2-8-6

5-3-14

Scale = 1:45.6

1-10-8



	3-3-12 8-5-3 3-3-12 5-1-6	13-9-1 5-3-14	19-7-8 5-10-6	21-7-8
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. DEFL. TC 0.37 Vert(LL) BC 0.73 Vert(CT) WB 0.79 Horz(CT) Matrix-S Wind(LL)	r) 0.05 9 n/a n/a	PLATES GRIP MT20 197/144 Weight: 97 lb FT = 10%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-TOP CHORD

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

WEBS 2x3 SPF No.2 *Except*

7-9: 2x4 SPF No.2

3-3-12

REACTIONS. (size) 14=Mechanical, 9=0-3-8

Max Horz 14=-139(LC 4)

Max Uplift 14=-143(LC 4), 9=-189(LC 5) Max Grav 14=1077(LC 1), 9=1231(LC 1)

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

 $2\text{-}3\text{--}1480/263,\ 3\text{-}4\text{--}1478/261,\ 4\text{-}5\text{--}1743/247,\ 5\text{-}6\text{--}1321/122,\ 6\text{-}7\text{--}1495/125,}$ TOP CHORD 7-9=-1223/173

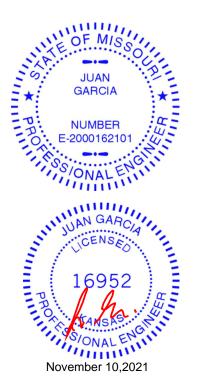
8-5-3 5-1-6

BOT CHORD 13-14=-47/703, 12-13=-129/1564, 10-12=-244/2235

WEBS 2-13=-118/1025, 3-13=-429/173, 4-12=0/372, 5-12=-706/207, 5-10=-1182/227,

6-10=-17/450, 2-14=-1122/219, 7-10=-103/1417

- 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 will fit between the bottom chord and any other members.
- 6) Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 14=143, 9=189.
- 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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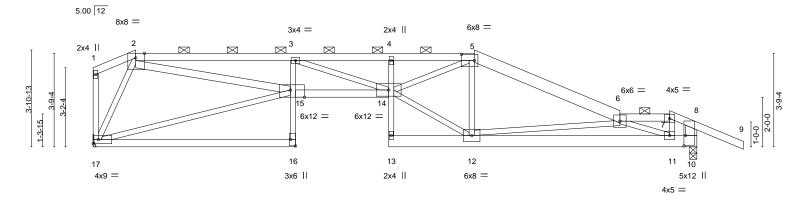


Job Truss Truss Type Qty Ply Lot 143 HT 148735084 HT143 G7 Roof Special Girder Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Nov 9 15:16:24 2021 Page 1

Wheeler Lumber, Waverly, KS - 66871,

ID:Ej7EWovY_94Pzt7UVy1gWAz_t70-tLIVwGz8jvp3zddoRjO6Ydp1uDxNJG48i2oFIEyKtTL 23-2-11 24-3-14 2-0-0 1-1-3 11-10-14 26-2-6 6-5-5 3-9-0 3-5-6 5-10-6 1-10-8

Scale = 1:46.4



<u> 1-8</u>		11-10-14	15-4-4	21-2-11	23-2-11 24-3-14				
1-8-	-9 6-5-5	3-9-0	3-5-6	5-10-6	2-0-0 1-1-3				
Plate Offsets (X,Y)	Plate Offsets (X,Y) [2:0-4-3,Edge], [5:0-6-4,0-3-0], [10:0-5-0,0-0-12], [15:0-6-12,Edge], [16:Edge,0-2-8]								
LOADING (psf) TCLL 25.0 TCDL 10.0 BCLL 0.0 *	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr NO	CSI. TC 0.78 BC 0.65 WB 0.92	- (/	(loc) I/defl L/d 14-15 >865 360 14-15 >480 240 10 n/a n/a	PLATES GRIP MT20 197/144				
BCDL 10.0	Code IRC2018/TPI2014	Matrix-S	Wind(LL) 0.24	14-15 >999 240	Weight: 114 lb FT = 10%				

BOT CHORD

LUMBER-BRACING-TOP CHORD

2x4 SPF No.2 *Except* TOP CHORD

2-5: 2x4 SPF 2100F 1.8E, 5-6: 2x6 SPF No.2

BOT CHORD 2x3 SPF No.2 *Except* 16-17: 2x4 SPF No.2, 14-15: 2x4 SPF 2100F 1.8E

10-13: 2x6 SPF No.2

2x3 SPF No.2 *Except* **WEBS**

2-15: 2x4 SPF No.2, 8-10: 2x6 SPF No.2

REACTIONS. (size) 10=0-3-8, 17=Mechanical

Max Horz 17=-140(LC 6)

Max Uplift 10=-270(LC 5), 17=-170(LC 4) Max Grav 10=1170(LC 1), 17=1071(LC 1)

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

TOP CHORD 2-3=-4023/663, 3-4=-4263/634, 4-5=-4207/632, 5-6=-1984/290, 6-7=-507/74,

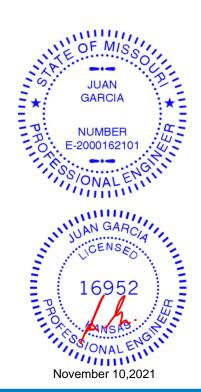
7-8=-645/94, 8-10=-580/110

BOT CHORD 3-15=-480/169, 14-15=-544/4071, 11-12=-331/2430, 10-11=-82/556

WEBS 15-17=-50/469, 2-15=-533/3572, 12-14=-199/1972, 5-14=-378/2680, 5-12=-743/161,

6-12=-658/231, 6-11=-2133/387, 7-11=-88/322, 2-17=-1233/273

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 10=270 17=170
- 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.
- 10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 55 lb down and 12 lb up at 23-2-11 on top chord, and 168 lb down and 874 lb up at 23-1-11 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 11) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).



Structural wood sheathing directly applied or 4-9-4 oc purlins,

Rigid ceiling directly applied or 10-0-0 oc bracing, Except:

6-0-0 oc bracing: 10-11.

except end verticals, and 2-0-0 oc purlins (3-1-0 max.): 2-5, 6-7.

COARIGASE(S)geStandard

\Lambda WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE

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Job	Truss	Truss Type	Qty	Ply	Lot 143 HT
HT143	G7	Roof Special Girder	1	1	148735084
H1143	G/	Roor Special Girder	1	1	Job Reference (optional)

Wheeler Lumber,

Waverly, KS - 66871,

8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Nov 9 15:16:24 2021 Page 2 ID:Ej7EWovY_94Pzt7UVy1gWAz_t70-tLIVwGz8jvp3zddoRjO6Ydp1uDxNJG48i2oFIEyKtTL

LOAD CASE(S) Standard

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

Uniform Loads (plf)

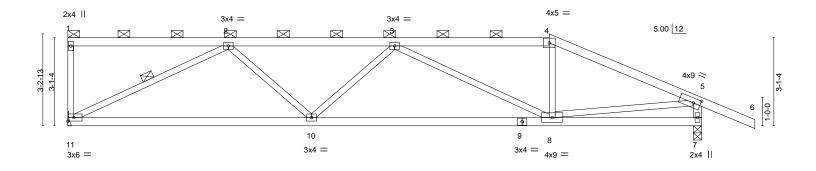
Vert: 1-2=-70, 2-5=-70, 5-6=-70, 6-7=-70, 7-8=-70, 8-9=-70, 16-17=-20, 14-15=-20, 10-13=-20

Concentrated Loads (lb) Vert: 11=66(B)



Job Truss Truss Type Qty Ply Lot 143 HT 148735085 HT143 G8 Half Hip Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Nov 9 15:16:25 2021 Page 1 Wheeler Lumber, Waverly, KS - 66871, ID:Ej7EWovY_94Pzt7UVy1gWAz_t70-LXJt7c_nUDxwbnC_?QvL5rMlGdGA2mZlwiYpqhyKtTK 22-3-14 16-11-8 24-2-6 5-7-14 5-10-4 5-5-6 5-4-6 1-10-8

Scale = 1:40.6



	8-7-0	16-11-8	22-3-14
	8-7-0	8-4-8	5-4-6
Plate Offsets (X,Y)-	- [5:0-2-15,0-2-0]		
LOADING (psf)	SPACING- 2-0-0	CSI. DEFL. in ((loc) I/defl L/d PLATES GRIP
TCLL 25.0 TCDL 10.0 BCLL 0.0 *	Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES	TC 0.42 Vert(LL) -0.14 10 BC 0.75 Vert(CT) -0.31 10 WB 0.71 Horz(CT) 0.05	
BCDL 10.0	Code IRC2018/TPI2014	Matrix-S Wind(LL) 0.05 8	3-10 >999 240 Weight: 79 lb FT = 10%

BRACING-

TOP CHORD

BOT CHORD

WEBS

LUMBER-

REACTIONS.

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

5-7: 2x4 SPF No.2

(size) 11=Mechanical, 7=0-3-8 Max Horz 11=-104(LC 6)

Max Uplift 11=-50(LC 4), 7=-60(LC 5) Max Grav 11=987(LC 1), 7=1141(LC 1)

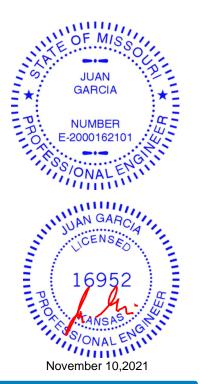
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

2-3=-1834/57, 3-4=-1381/48, 4-5=-1577/39, 5-7=-1096/81 TOP CHORD

BOT CHORD 10-11=-52/1505, 8-10=-57/1969

WEBS 2-11=-1649/122, 2-10=0/501, 3-8=-729/85, 4-8=0/316, 5-8=-9/1244

- 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.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 11, 7.
- 8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



Structural wood sheathing directly applied or 4-3-11 oc purlins,

except end verticals, and 2-0-0 oc purlins (4-0-11 max.): 1-4.

2-11

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

1 Row at midpt

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Job Truss Truss Type Qty Ply Lot 143 HT 148735086 HT143 G9 Roof Special Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Nov 9 15:16:26 2021 Page 1 Wheeler Lumber, Waverly, KS - 66871, ID:Ej7EWovY_94Pzt7UVy1gWAz_t70-qjtFLy?PFW4nDxnAZ7Rad2vS10e9nEZR9MHMN7yKtTJ

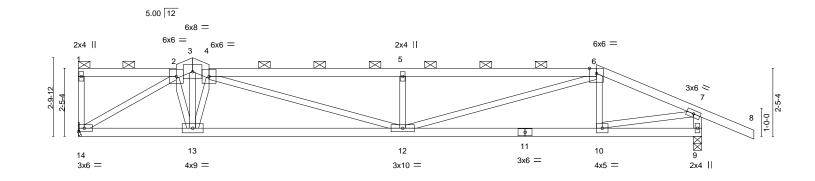
Scale = 1:41.3

22-3-14 3-9-3

Structural wood sheathing directly applied or 4-6-15 oc purlins,

except end verticals, and 2-0-0 oc purlins (4-2-0 max.): 1-2, 4-6.

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



	3-6-1 4-1-24-8-3	11-7-7	18-6-11	22-3-14
	3-6-1 0-7-10-7-1	6-11-4	6-11-4	3-9-3
LOADING (psf) TCLL 25.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2018/TPI2014	CSI. TC 0.48 BC 0.57 WB 0.67 Matrix-S	DEFL. in (loc) l/defl L/d Vert(LL) -0.15 12 >999 360 Vert(CT) -0.30 12-13 >889 240 Horz(CT) 0.05 9 n/a n/a Wind(LL) 0.08 12 >999 240	PLATES GRIP MT20 197/144 Weight: 83 lb FT = 10%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-2x4 SPF No.2 *Except* TOP CHORD

4-1-24-8-3 0-7-10-7-1

2-3,3-4: 2x6 SPF No.2, 4-6: 2x4 SPF 2100F 1.8E

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

7-9: 2x4 SPF No.2

REACTIONS. (size) 14=Mechanical, 9=0-3-8

Max Horz 14=-83(LC 4)

Max Uplift 14=-11(LC 9), 9=-66(LC 5) Max Grav 14=987(LC 1), 9=1141(LC 1)

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

2-3=-1438/40, 3-4=-1511/57, 4-5=-2692/132, 5-6=-2693/133, 6-7=-1523/65, TOP CHORD

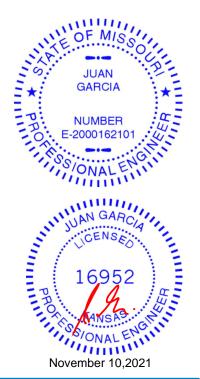
7-9=-1115/77

BOT CHORD 13-14=0/1339, 12-13=-18/1723, 10-12=-22/1376

WEBS 2-14=-1565/27, 4-12=-64/1071, 5-12=-574/131, 6-12=-74/1380, 7-10=-32/1389,

3-13=-19/550, 4-13=-960/113, 2-13=-14/586

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 14, 9.
- 8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 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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Job Truss Truss Type Qty Ply Lot 143 HT 148735087 HT143 G10 Roof Special Girder Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Nov 9 15:16:17 2021 Page 1 Wheeler Lumber, Waverly, KS - 66871.

6-11-4

ID:Ej7EWovY_94Pzt7UVy1gWAz_t70-a?qsStulNlx3eYbSXlmTm91oaOXAA5S65ScOY8yKtTS 22-3-14 24-2-6 6-11-4 2-2-0 1-10-8

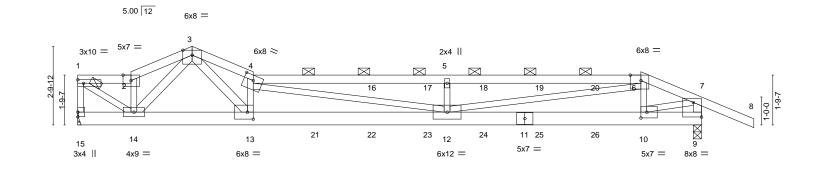
Structural wood sheathing directly applied or 2-7-14 oc purlins,

Rigid ceiling directly applied or 10-0-0 oc bracing, Except:

6-0-0 oc bracing: 9-10.

except end verticals, and 2-0-0 oc purlins (2-9-7 max.): 1-2, 4-6.

Scale = 1:41.2



4-4-8 ge], [4:0-4-0,0-2-3], [6:0-4-9,E	6-11-4 Edge], [9:Edge,0-6-4], [10:0-2-8,0-2-8], [1:	6-11-4 3-0-2-8 0-3-01	2-2-0
		3.0-2-0,0-3-0]	
CING- 2-0-0 e Grip DOL 1.15 ber DOL 1.15 Stress Incr NO	CSI. DEFL. TC 0.98 Vert(LL) BC 0.75 Vert(CT) WB 0.98 Horz(CT)	in (loc) I/defl L/d -0.35 12-13 >766 360 -0.63 12-13 >418 240 0.05 9 n/a n/a	PLATES GRIP MT20 197/144 Weight: 95 lb FT = 10%
t	Grip DOL 1.15 per DOL 1.15	Grip DOL 1.15 TC 0.98 Vert(LL) per DOL 1.15 BC 0.75 Vert(CT) Stress Incr NO WB 0.98 Horz(CT)	Grip DOL 1.15 TC 0.98 Vert(LL) -0.35 12-13 >766 360 per DOL 1.15 BC 0.75 Vert(CT) -0.63 12-13 >418 240 Stress Incr NO WB 0.98 Horz(CT) 0.05 9 n/a

TOP CHORD

BOT CHORD

LUMBER-BRACING-

2x4 SPF No.2 *Except* TOP CHORD

4-6: 2x4 SPF 2400F 2.0E 2x6 SPF 1650F 1.4E *Except*

9-11: 2x6 SPF No.2 **WEBS** 2x3 SPF No.2 *Except*

1-10-14

2-2-4

3-14,3-13,7-9: 2x4 SPF No.2

REACTIONS. (size) 15=Mechanical, 9=0-3-8

Max Horz 15=-73(LC 4)

Max Uplift 15=-155(LC 9), 9=-277(LC 9) Max Grav 15=1143(LC 1), 9=1230(LC 1)

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

TOP CHORD 1-15=-1051/152, 1-2=-1295/199, 2-3=-1380/225, 3-4=-4208/736, 4-5=-4374/815,

5-6=-4374/815, 6-7=-1676/321, 7-9=-1311/278 **BOT CHORD** 13-14=-200/1594, 12-13=-621/3941, 10-12=-275/1585

1-14=-222/1563, 2-14=-609/104, 3-14=-572/118, 3-13=-593/3358, 4-13=-2157/468, WFBS

4-12=-152/543, 5-12=-537/235, 6-12=-499/2846, 6-10=-434/121, 7-10=-312/1681

NOTES-

BOT CHORD

- 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 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) 15=155. 9=277.
- 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.
- 10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 65 lb down and 26 lb up at 10-6-7, 65 lb down and 26 lb up at 12-6-7, 65 lb down and 26 lb up at 14-6-7, and 65 lb down and 26 lb up at 16-6-7, and 65 lb down and 26 lb up at 18-6-7 on top chord, and 250 lb down and 57 lb up at 8-6-2, 19 lb down at 10-6-7, 19 lb down at 12-6-7, 19 lb down at 14-6-7, 19 lb down at 16-6-7, and 19 lb down at 18-6-7, and 97 lb down and 287 lb up at 20-1-14 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 11) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

Continued on page 2 LOAD CASE(S) Standard

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November 10,2021

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Job	Truss	Truss Type	Qty	Ply	Lot 143 HT	٦
					148735087	1
HT143	G10	Roof Special Girder	1	1		
					Job Reference (optional)	

Wheeler Lumber,

Waverly, KS - 66871,

8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Nov 9 15:16:17 2021 Page 2 ID:Ej7EWovY_94Pzt7UVy1gWAz_t70-a?qsStulNlx3eYbSXlmTm91oaOXAA5S65ScOY8yKtTS

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, 4-6=-70, 6-7=-70, 7-8=-70, 9-15=-20

Concentrated Loads (lb)

Vert: 10=14(B) 16=-2(B) 17=-2(B) 18=-2(B) 19=-2(B) 20=-2(B) 21=-250(B) 22=-0(B) 23=-0(B) 24=-0(B) 25=-0(B) 26=-0(B)

Job Truss Truss Type Qty Lot 143 HT 148735088 HT143 H1 Common Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Nov 9 15:16:27 2021 Page 1 Wheeler Lumber, Waverly, KS - 66871, ID:Ej7EWovY_94Pzt7UVy1gWAz_t70-lwReYI?10qCeq5MN6rypAGRhUQ2UWrbaO01vvZyKtTI 8-5-6 4-1-2 Scale = 1:19.8 4x5 = 2 5.00 12 4x5 || 3x6 II 3 9 2x4 || 6 3x4 || 3x4 || 4-1-2 LOADING (psf) SPACING-2-0-0 CSI. DEFL. I/defI L/d **PLATES** GRIP (loc) 25.0 Plate Grip DOL TC Vert(LL) -0.03 >999 360 197/144 **TCLL** 1.15 0.24 5 MT20 **TCDL** 10.0 Lumber DOL 1.15 ВС 0.31 Vert(CT) -0.06 5 >999 240 **BCLL** 0.0 Rep Stress Incr YES WB 0.04 Horz(CT) 0.00 4 n/a n/a Code IRC2018/TPI2014 5 BCDL 10.0 Matrix-R Wind(LL) 0.01 >999 240 Weight: 23 lb FT = 10% LUMBER-BRACING-TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins,

BOT CHORD

except end verticals.

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

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

2-5: 2x3 SPF No.2

REACTIONS.

(size) 6=Mechanical, 4=Mechanical

Max Horz 6=-27(LC 6)

Max Uplift 6=-4(LC 8), 4=-5(LC 9) Max Grav 6=367(LC 1), 4=367(LC 1)

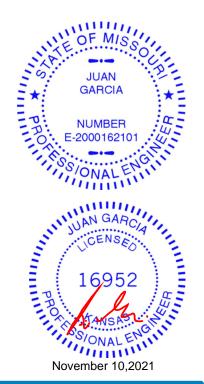
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

1-2=-371/21, 2-3=-373/19, 1-6=-285/29, 3-4=-289/32 TOP CHORD

BOT CHORD 5-6=0/284, 4-5=0/284

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) 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.
- 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, 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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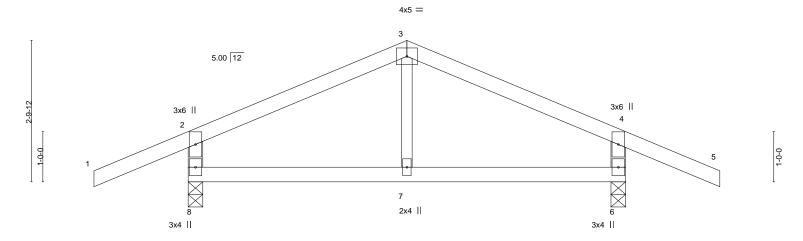
Job Truss Truss Type Qty Lot 143 HT 148735089 HT143 H2 Common 2 Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Nov 9 15:16:28 2021 Page 1 Wheeler Lumber, Waverly, KS - 66871, ID:Ej7EWovY_94Pzt7UVy1gWAz_t70-m6?0le0fn8KVSExZgYT2jT_pYqP6FllkdgmTR0yKtTH

4-4-4

4-4-4

Scale = 1:22.9

1-10-8



		+	6-6-6 4-4-4								
LOADING (psf) TCLL 25.0	SPACING- Plate Grip DOL	2-0-0 1.15	CSI. TC	0.42	DEFL. Vert(LL)	in -0.03	(loc)	l/defl >999	L/d 360	PLATES MT20	GRIP 197/144
TCDL 10.0 BCLL 0.0 * BCDL 10.0	Lumber DOL Rep Stress Inc Code IRC2018		_	0.22 0.04 -R	Vert(CT) Horz(CT) Wind(LL)	-0.05 0.00 0.01	7 6 7	>999 n/a >999	240 n/a 240	Weight: 29 lb	FT = 10%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-TOP CHORD **BOT CHORD**

2x4 SPF No 2 2x4 SPF No.2

1-10-8

2x4 SPF No.2 *Except* WEBS

3-7: 2x3 SPF No.2

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

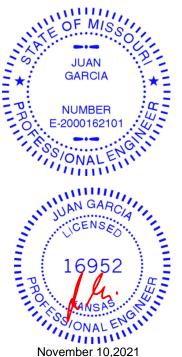
Max Horz 8=-23(LC 6)

Max Uplift 8=-97(LC 8), 6=-97(LC 9) Max Grav 8=520(LC 1), 6=520(LC 1)

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

TOP CHORD 2-3=-343/51, 3-4=-343/51, 2-8=-447/123, 4-6=-447/123

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



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

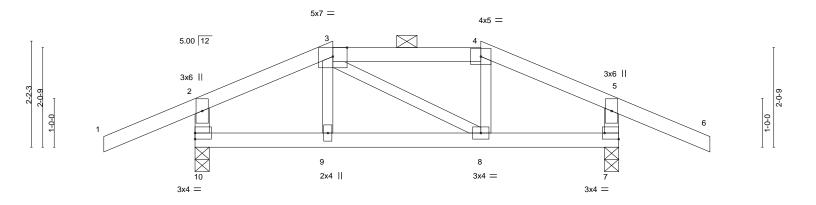
Rigid ceiling directly applied or 10-0-0 oc bracing.

except end verticals.



Job Truss Truss Type Qty Lot 143 HT 148735090 HT143 H3 Hip Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Nov 9 15:16:29 2021 Page 1 Wheeler Lumber, Waverly, KS - 66871, ID:Ej7EWovY_94Pzt7UVy1gWAz_t70-EIZOz_1HYRSM4OWIEG_HFhX_TEk5_IHtrKW0zSyKtTG 2-10-0 5-10-8 8-8-8 1-10-8 2-10-0 3-0-8 2-10-0 1-10-8

Scale = 1:23.7



		2-10-0 2-10-0	-	5-10-8 3-0-8	+			-8-8 10-0	—	
Plate Offsets (X,Y) [7	7:Edge,0-1-8]									
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.40	Vert(LL)	-0.04	`8-9	>999	360	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.30	Vert(CT)	-0.07	8-9	>999	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.03	Horz(CT)	0.00	7	n/a	n/a		
BCDL 10.0	Code IRC2018/TI	PI2014	Matrix-S	Wind(LL)	0.02	8-9	>999	240	Weight: 32 lb	FT = 10%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

REACTIONS. (size) 10=0-3-8, 7=0-3-8

Max Horz 10=-24(LC 6)

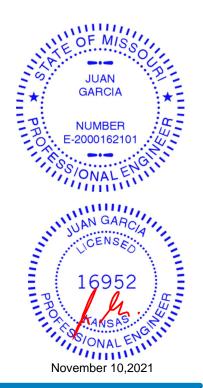
Max Uplift 10=-107(LC 4), 7=-107(LC 5) Max Grav 10=520(LC 1), 7=520(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. 2-3=-360/48, 3-4=-272/54, 4-5=-360/48, 2-10=-434/113, 5-7=-434/113 TOP CHORD

9-10=0/272, 8-9=0/272, 7-8=0/272 BOT CHORD

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide 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=107, 7=107.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 8) 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.

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 chorembers 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



Job Truss Truss Type Qty Lot 143 HT 148735091 HT143 **H4** Hip Girder Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Nov 9 15:16:30 2021 Page 1 Wheeler Lumber, Waverly, KS - 66871, ID:Ej7EWovY_94Pzt7UVy1gWAz_t70-iV7mAK2vJlaDhY5yozVWou36_e63jBT14_FaWuyKtTF 10-7-0 1-2-13 1-2-13 8-8-8

6-2-14

Scale = 1:23.7

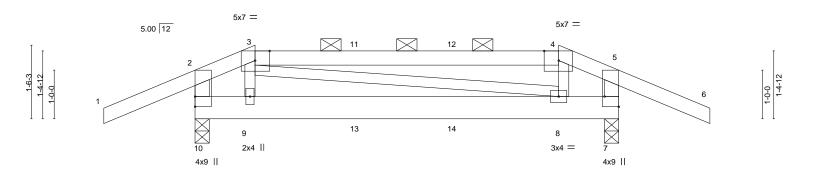
1-2-13

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 6-0-0 oc bracing.

1-10-8



		1-2-13				6-2-14				1-2-13	\dashv	
Plate Offsets (X,Y) [3:0-3-9,Edge], [4:0-3-9,Edge], [7:Edge,0-3-8]												
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	0.61	Vert(LL)	-0.02	8-9	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL 1	.15	BC	0.19	Vert(CT)	-0.04	8-9	>999	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.09	Horz(CT)	0.00	7	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI20	14	Matrix	-S	Wind(LL)	-0.02	8-9	>999	240	Weight: 38 lb	FT = 10%

TOP CHORD

BOT CHORD

LUMBER-BRACING-

2x4 SPF No.2 **BOT CHORD** 2x6 SPF No.2 WEBS 2x3 SPF No.2 *Except*

2-10,5-7: 2x4 SPF No.2

1-10-8

REACTIONS. (size) 10=0-3-8, 7=0-3-8

Max Horz 10=24(LC 7)

Max Uplift 10=-420(LC 29), 7=-420(LC 28) Max Grav 10=502(LC 45), 7=502(LC 44)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. 2-3=-404/437, 3-4=-352/307, 4-5=-398/435, 2-10=-302/237, 5-7=-308/244 TOP CHORD

BOT CHORD 9-10=-367/377, 8-9=-316/382, 7-8=-355/364

WEBS 3-9=-512/129, 4-8=-530/142

TOP CHORD

- 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=420, 7=420.
- 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) 45 lb down and 12 lb up at 1-2-13, 50 lb down and 12 lb up at 3-4-4, and 50 lb down and 12 lb up at 5-4-4, and 45 lb down and 12 lb up at 7-5-11 on top chord , and 145 lb down and 761 lb up at 1-2-13, 14 lb down and 16 lb up at 3-4-4, and 14 lb down and 16 lb up at 5-4-4, and 145 lb down and 761 lb up at 7-4-4 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

GARCIA NUMBER E-2000162101 ONALE 16952 Royember 10,2021 November 10,2021

Continued on page 2



Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job	Truss	Truss Type	Qty	Ply	Lot 143 HT
HT143	ши	Hip Girder	1	1	I48735091
H1143	 	Trip Girder	'	'	Job Reference (optional)

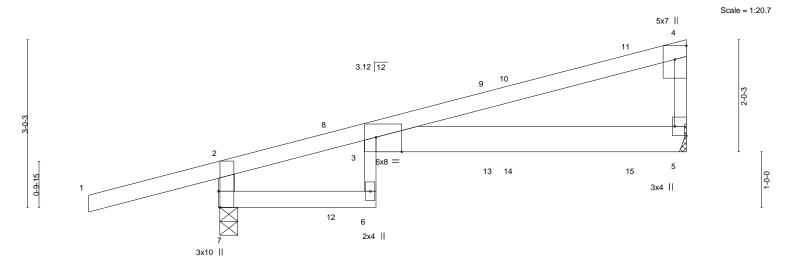
Wheeler Lumber,

Waverly, KS - 66871,

8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Nov 9 15:16:30 2021 Page 2 ID:Ej7EWovY_94Pzt7UVy1gWAz_t70-iV7mAK2vJlaDhY5yozVWou36_e63jBT14_FaWuyKtTF

LOAD CASE(S) Standard Concentrated Loads (lb) Vert: 9=56(B) 8=56(B) Job Truss Truss Type Qty Lot 143 HT 148735092 HT143 J1 Diagonal Hip Girder Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Nov 9 15:16:31 2021 Page 1 Wheeler Lumber, Waverly, KS - 66871,

ID:Ej7EWovY_94Pzt7UVy1gWAz_t70-Ahg8Of3X43i4Jig8Lh0lK6cEF1LzSfBAJe?72KyKtTE 2-4-0 2-10-0 5-7-0



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

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	0.77	Vert(LL)	-0.18	3	>544	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.59	Vert(CT)	-0.33	3	>300	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.00	Horz(CT)	0.17	5	n/a	n/a		
BCDL	10.0	Code IRC2018/Ti	PI2014	Matri	x-R	Wind(LL)	0.16	6	>604	240	Weight: 28 lb	FT = 10%

TOP CHORD

BOT CHORD

LUMBER-BRACING-

2x4 SPF 2100F 1.8E TOP CHORD **BOT CHORD** 2x4 SPF No.2 *Except*

3-6: 2x3 SPF No.2, 3-5: 2x6 SPF No.2

WEBS 2x4 SPF No.2 *Except* 4-5: 2x3 SPF No.2

REACTIONS. (size) 7=0-3-14, 5=Mechanical

Max Horz 7=109(LC 5)

Max Uplift 7=-161(LC 4), 5=-109(LC 8) Max Grav 7=577(LC 1), 5=481(LC 1)

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

TOP CHORD 2-7=-563/174, 4-5=-260/100

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
- 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 will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 7=161, 5=109.
- 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) 72 lb down and 134 lb up at 2-1-6, 63 lb down and 36 lb up at 2-4-9, 108 lb down and 63 lb up at 4-11-5, and 97 lb down and 51 lb up at 5-3-12, and 98 lb down and 67 lb up at 7-6-1 on top chord, and 18 lb down and 21 lb up at 2-1-6, 3 lb down at 2-4-9, 3 lb down at 4-11-5, and 24 lb down at 5-3-12, and 63 lb down and 27 lb up at 7-6-1 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).

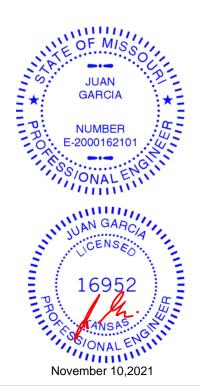
LOAD CASE(S) Standard

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

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

Concentrated Loads (lb)

Vert: 8=35(B) 9=-40(F) 10=-4(B) 11=-62(F) 14=-16(B) 15=-63(F)



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

Rigid ceiling directly applied or 6-0-0 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.

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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



Job Truss Truss Type Qty Lot 143 HT 148735093 HT143 J2 Jack-Open Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Nov 9 15:16:39 2021 Page 1 Wheeler Lumber, Waverly, KS - 66871, ID:Ej7EWovY_94Pzt7UVy1gWAz_t70-xD9A3P9ZBWixHxHgpMAdfoxkwGB4KG_L8txYKtyKtT6

2-3-8 2-3-8 3-7-7 0-10-8 1-3-15

Scale = 1:13.3

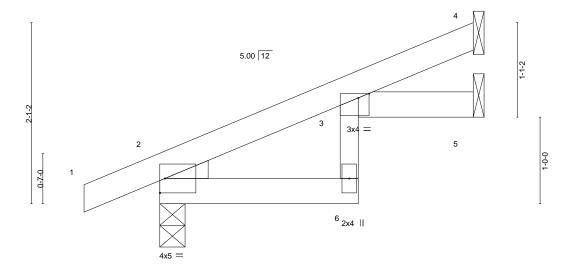


Plate Off	sets (X,Y)	[3:0-1-8,0-0-9]										
LOADIN	· /	SPACING-	2-0-0	CSI.	0.24	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.21	Vert(LL)	-0.02	6	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.06	Vert(CT)	-0.03	6	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.01	Horz(CT)	0.02	5	n/a	n/a		
BCDL	10.0	Code IRC2018/Ti	PI2014	Matri	x-P	Wind(LL)	0.02	6	>999	240	Weight: 11 lb	FT = 10%

BOT CHORD

LUMBER-BRACING-TOP CHORD

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

WEDGE

Left: 2x3 SPF No.2

REACTIONS. (size) 4=Mechanical, 2=0-3-8, 5=Mechanical

Max Horz 2=75(LC 8)

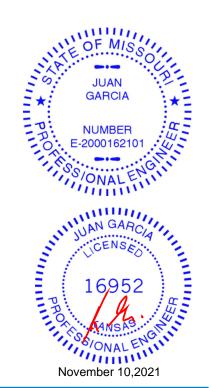
Max Uplift 4=-52(LC 8), 2=-37(LC 8)

Max Grav 4=129(LC 1), 2=236(LC 1), 5=27(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
- 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.



Structural wood sheathing directly applied or 3-7-7 oc purlins.

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



Job Truss Truss Type Qty Lot 143 HT 148735094 HT143 J3 Jack-Open Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Nov 9 15:16:47 2021 Page 1 Wheeler Lumber, Waverly, KS - 66871, ID:Ej7EWovY_94Pzt7UVy1gWAz_t70-imeBl8FaJzjoE9uDH2JV_UG5tUw6CuyX_7tzcPyKtT_ 2-3-8 2-3-8 1-10-8 Scale = 1:13.8 4.00 12 1-2-5 2 1-10-2 3 5 0-10-0 ⁶ 2x4 || 3x10 || 4-0-14 Plate Offsets (X,Y)--[3:0-3-0,0-1-13], [7:0-5-6,0-1-8] SPACING-L/d **PLATES** GRIP LOADING (psf) CSI. DEFL. in (loc) I/def 25.0 Plate Grip DOL TCLL 1.15 TC 0.28 Vert(LL) -0.01 3 >999 360 MT20 197/144 TCDL 10.0 Lumber DOL 1.15 ВС 0.12 Vert(CT) -0.02 6 >999 240 **BCLL** 0.0 Rep Stress Incr YES WB 0.01 Horz(CT) 0.02 5 n/a n/a BCDL Code IRC2018/TPI2014 FT = 10% 10.0 Matrix-P Wind(LL) 0.02 6 >999 240 Weight: 13 lb **BRACING-**

TOP CHORD

BOT CHORD

LUMBER-

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

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

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

Max Horz 7=79(LC 4)

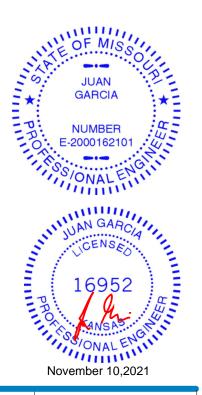
Max Uplift 7=-122(LC 4), 4=-34(LC 8), 5=-4(LC 8) Max Grav 7=352(LC 1), 4=85(LC 1), 5=60(LC 3)

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

TOP CHORD 2-7=-320/135

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
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 5 except (jt=lb) 7 = 122
- 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 4-0-14 oc purlins,

Rigid ceiling directly applied or 6-0-0 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.

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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



Job Truss Truss Type Qty Ply Lot 143 HT 148735095 HT143 J4 Jack-Open Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Nov 9 15:16:55 2021 Page 1 Wheeler Lumber, Waverly, KS - 66871, ID:Ej7EWovY_94Pzt7UVy1gWAz_t70-TI7DQtLbQRjgBOVlljSNJAbSsjfd4V7iqNpOtxyKtSs 1-6-14 1-10-8 1-6-14 Scale = 1:9.7 4.00 12 3x10 || 1-6-14 1-6-14

Plate Off	Sets (X,Y)	[5:0-5-6,0-1-8]										
LOADIN	G (psf)	SPACING- 2-0	0-0	CSI.		DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL 1.	.15	TC	0.28	Vert(LL)	0.00	5	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL 1.	.15	BC	0.08	Vert(CT)	0.00	4-5	>999	240		
BCLL	0.0 *	Rep Stress Incr YI	ES	WB	0.00	Horz(CT)	-0.00	3	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI201	4	Matri	x-R	Wind(LL)	-0.00	5	>999	240	Weight: 6 lb	FT = 10%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

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

WEBS 2x4 SPF No.2

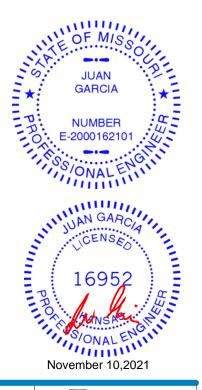
> (size) 5=0-3-8, 3=Mechanical, 4=Mechanical Max Horz 5=46(LC 4) Max Uplift 5=-143(LC 4), 3=-22(LC 1), 4=-16(LC 1) Max Grav 5=306(LC 1), 3=16(LC 4), 4=18(LC 4)

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

TOP CHORD 2-5=-262/142

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.
- * This truss has been designed for a 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, 4 except (jt=lb) 5 = 143
- 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 1-6-14 oc purlins,

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

except end verticals.



Job Truss Truss Type Qty Lot 143 HT 148735096 HT143 J5 Jack-Open Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Nov 9 15:17:02 2021 Page 1 Wheeler Lumber, Waverly, KS - 66871, ID:Ej7EWovY_94Pzt7UVy1gWAz_t70-mf2suGR_nacgXTX5gh405eOcxX_GDgskRy?Gd1yKtSl 5-2-10 2-11-2 2-3-8 2-3-8 0-10-8 Scale = 1:16.6 5.00 12 1-9-1 5x7 5 1-0-0 0-2-0 6 2x4 | 4x5 = 5-2-10 Plate Offsets (X,Y)--[3:0-0-0,0-0-1] SPACING-CSI. L/d **PLATES** GRIP LOADING (psf) 2-0-0 DEFL. in (loc) I/defI 25.0 Plate Grip DOL TCLL 1.15 TC 0.48 Vert(LL) -0.06 3 >999 360 MT20 197/144 TCDL 10.0 Lumber DOL 1.15 ВС 0.33 Vert(CT) -0.10 3 >583 240 **BCLL** 0.0 Rep Stress Incr YES WB 0.00 Horz(CT) 0.07 5 n/a n/a BCDL Code IRC2018/TPI2014 Wind(LL) 3 240 FT = 10% 10.0 >966 Weight: 15 lb Matrix-R 0.06 LUMBER-BRACING-TOP CHORD 2x4 SPF No.2 TOP CHORD Structural wood sheathing directly applied or 5-2-10 oc purlins. BOT CHORD 2x4 SPF No.2 *Except* **BOT CHORD** Rigid ceiling directly applied or 6-0-0 oc bracing. 3-6: 2x3 SPF No.2 WEDGE Left: 2x3 SPF No.2 REACTIONS. (size) 4=Mechanical, 2=0-3-8, 5=Mechanical

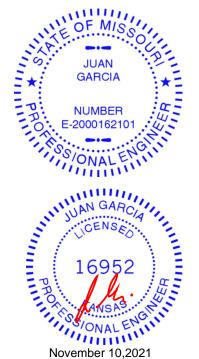
Max Horz 2=102(LC 8)

Max Uplift 4=-58(LC 8), 2=-44(LC 8), 5=-6(LC 8) Max Grav 4=135(LC 1), 2=304(LC 1), 5=87(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
- 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, 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.





WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

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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



Job Truss Truss Type Qty Lot 143 HT 148735097 HT143 J6 Jack-Open Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Nov 9 15:17:03 2021 Page 1 Wheeler Lumber, Waverly, KS - 66871, ID:Ej7EWovY_94Pzt7UVy1gWAz_t70-ErcF6cRcYukX9d6HDPbFdsxtCxPGy76ugclp9UyKtSk 2-0-4 2-0-4 0-10-8 Scale = 1:10.0 5.00 12 1-5-2 2 1-0-11 0-2-0

BRACING-

TOP CHORD

BOT CHORD

LOADIN	IG (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.06	Vert(LL)	-0.00	2	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.03	Vert(CT)	-0.00	2-4	>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/TPI	2014	Matri	x-P	Wind(LL)	0.00	2	****	240	Weight: 6 lb	FT = 10%

4x5 =

LUMBER-

2x4 SPF No.2 TOP CHORD

BOT CHORD 2x4 SPF No.2

WEDGE

Left: 2x3 SPF No.2

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

Max Horz 2=48(LC 8)

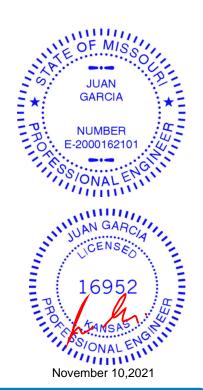
Max Uplift 3=-33(LC 8), 2=-36(LC 4)

Max Grav 3=43(LC 1), 2=173(LC 1), 4=36(LC 3)

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

NOTES-

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



Structural wood sheathing directly applied or 2-0-4 oc purlins.

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

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AMSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job Truss Truss Type Qty Ply Lot 143 HT 148735098 HT143 J7 Jack-Closed 3 Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Nov 9 15:17:04 2021 Page 1 Wheeler Lumber, Waverly, KS - 66871, ID:Ej7EWovY_94Pzt7UVy1gWAz_t70-i1AdJySEJCsOmnhUn66UA3TwdLfohaM1uGUNiwyKtSj 2-3-8 2-3-8 3-7-12 0-10-8 Scale = 1:19.1 3x4 || 4 5.00 12 2-0-1 5 2

BRACING-

TOP CHORD

BOT CHORD

2x4 II

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

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

except end verticals.

:

2x4 ||

LUMBER-

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

3-6: 2x3 SPF No.2 2x3 SPF No.2

WEBS WEDGE

Left: 2x3 SPF No.2

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

Max Horz 2=104(LC 5)

0-2-0

Max Uplift 5=-61(LC 8), 2=-58(LC 8) Max Grav 5=250(LC 1), 2=334(LC 1)

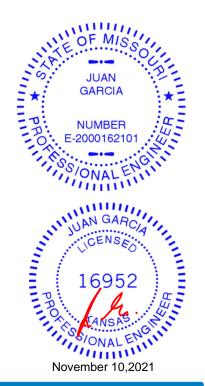
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-

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

4x5 =

- * This truss has been designed for a 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, 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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AMSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job Truss Truss Type Qty Lot 143 HT 148735099 HT143 J8 Jack-Closed Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Nov 9 15:17:04 2021 Page 1 Wheeler Lumber, Waverly, KS - 66871,

ID:Ej7EWovY_94Pzt7UVy1gWAz_t70-i1AdJySEJCsOmnhUn66UA3TwcLfYhaM1uGUNiwyKtSj

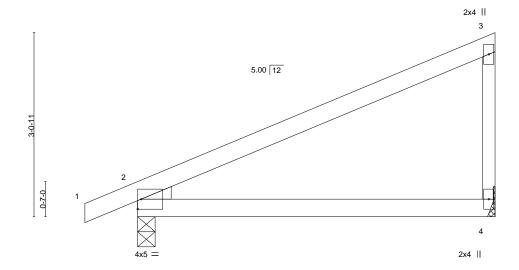
Structural wood sheathing directly applied or 5-11-4 oc purlins,

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

except end verticals.

5-11-4 5-11-4 -0-10-8 0-10-8

Scale = 1:19.1



5-11-4 LOADING (psf) SPACING-2-0-0 CSI. DEFL. I/defI L/d **PLATES** GRIP (loc) 25.0 Plate Grip DOL 1.15 TC Vert(LL) -0.06 >999 360 197/144 **TCLL** 0.60 2-4 MT20 **TCDL** 10.0 Lumber DOL 1.15 ВС 0.35 Vert(CT) -0.13 2-4 >544 240 **BCLL** 0.0 Rep Stress Incr YES WB 0.00 Horz(CT) -0.00 n/a **** n/a Code IRC2018/TPI2014 BCDL 10.0 Matrix-P Wind(LL) 0.00 240 Weight: 18 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

WEDGE

REACTIONS.

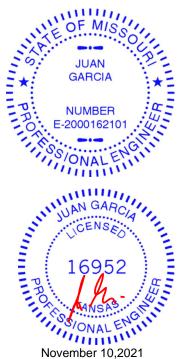
Left: 2x3 SPF No.2

(size) 4=Mechanical, 2=0-3-8 Max Horz 2=120(LC 5)

Max Uplift 4=-59(LC 8), 2=-60(LC 8) Max Grav 4=250(LC 1), 2=334(LC 1)

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

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; 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
- 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 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.





Job Truss Truss Type Qty Lot 143 HT 148735100 HT143 J9 Jack-Closed

Wheeler Lumber, Waverly, KS - 66871,

Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Nov 9 15:17:05 2021 Page 1 ID:Ej7EWovY_94Pzt7UVy1gWAz_t70-BEk?WITs3V_FOwGgLqdjiH049I?UQ1cA7wEwEMyKtSi

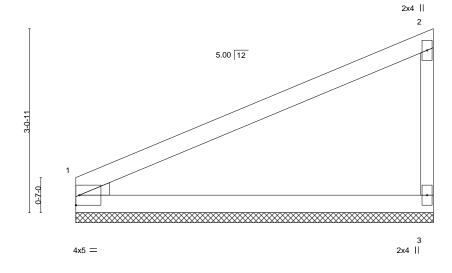
Structural wood sheathing directly applied or 5-11-4 oc purlins,

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

except end verticals.

5-11-4

Scale = 1:19.1



LOADING	G (psf)	SPACING- 2-0	0-0	CSI.		DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL 1.	.15	TC	0.67	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL 1.	.15	BC	0.36	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr YI	ES	WB	0.00	Horz(CT)	-0.00	3	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI201	14	Matri	x-P						Weight: 17 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

WEDGE

Left: 2x3 SPF No.2

REACTIONS. (size) 3=5-11-4, 1=5-11-4

Max Horz 1=118(LC 5)

Max Uplift 3=-62(LC 8), 1=-36(LC 8) Max Grav 3=263(LC 1), 1=263(LC 1)

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

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; 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
- 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) 3, 1.
- 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.





Job Truss Truss Type Qty Lot 143 HT 148735101 HT143 J10 Diagonal Hip Girder Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Nov 9 15:16:32 2021 Page 1 Waverly, KS - 66871, Wheeler Lumber, ID:Ej7EWovY_94Pzt7UVy1gWAz_t70-etEWb?3ArMqxxsFKvOY_tJ9OURiSB2sKXlkganyKtTD 3-0-0 4-8-1 4-8-1 Scale = 1:23.4 3x4 || 4 10 3.12 12 3x4 =3 11 12 13 14 6 5 2x4 || 4x5 = 6x8 || 4-7-10 4-8-1 LOADING (psf) SPACING-2-0-0 CSI. DEFL. L/d **PLATES** GRIP (loc) I/defl

Vert(LL)

Vert(CT)

Horz(CT)

Wind(LL)

BRACING-

TOP CHORD

BOT CHORD

-0.05

-0.08

0.00

0.04

5-6

5-6

5-6

5

>999

>999

>999

except end verticals.

n/a

360

240

n/a

240

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

LUMBER-

TCLL

TCDL

BCLL

BCDL

TOP CHORD 2x4 SPF No.2 BOT CHORD 2x6 SPF No.2

WEBS 2x3 SPF No.2 *Except* 2-7: 2x6 SPF No.2

REACTIONS. (si

25.0

10.0

0.0

10.0

(size) 7=0-4-11, 5=Mechanical

Plate Grip DOL

Rep Stress Incr

Code IRC2018/TPI2014

Lumber DOL

Max Horz 7=145(LC 5)

Max Uplift 7=-266(LC 4), 5=-149(LC 8) Max Grav 7=715(LC 1), 5=535(LC 1)

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

TOP CHORD 2-7=-554/247, 2-3=-563/132 BOT CHORD 6-7=-165/481, 5-6=-165/481

WEBS 3-5=-490/167

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

TC

ВС

WB

Matrix-S

0.87

0.45

0.29

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

1.15

1.15

NO

- 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) except (jt=lb) 7=266. 5=149.
- 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) 55 lb down and 94 lb up at 2-11-15, 78 lb down and 36 lb up at 3-0-9, and 79 lb down and 54 lb up at 5-6-11, and 102 lb down and 86 lb up at 8-1-6 on top chord, and 10 lb down and 16 lb up at 2-11-15, 9 lb down and 7 lb up at 3-0-9, 16 lb down and 2 lb up at 5-6-11, and 168 lb down and 75 lb up at 6-2-15, and 40 lb down at 8-1-6 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).

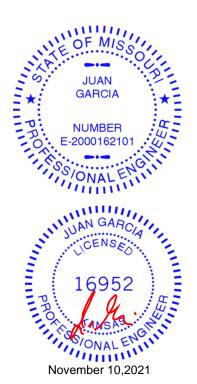
LOAD CASE(S) Standard

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

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

Concentrated Loads (lb)

Vert: 8=26(B) 10=-54(B) 11=7(F) 12=2(B) 13=-168(F) 14=-25(B)



197/144

FT = 10%

MT20

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

Weight: 39 lb

MiTek°

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

Job Truss Truss Type Qty Lot 143 HT 148735102 HT143 J11 Jack-Open Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Nov 9 15:16:33 2021 Page 1 Wheeler Lumber, Waverly, KS - 66871, ID:Ej7EWovY_94Pzt7UVy1gWAz_t70-64ovpL4ocgynY0pWT63DPXhi9r6XwZhTmyUE7DyKtTC 1-10-8 5-0-4 Scale = 1:19.3 0-4-7 5.00 12 3-1-2 2-8-11 2x4 || 2 3x4

LOADING (psf) SPACING-2-0-0 CSI. DEFL. I/defI L/d **PLATES** GRIP (loc) 25.0 Plate Grip DOL 1.15 TC Vert(LL) -0.02 360 197/144 **TCLL** 0.30 4-5 >999 MT20 **TCDL** 10.0 Lumber DOL 1.15 ВС 0.20 Vert(CT) -0.05 4-5 >999 240 **BCLL** 0.0 Rep Stress Incr YES WB 0.00 Horz(CT) -0.023 n/a n/a Code IRC2018/TPI2014 BCDL 10.0 Matrix-R Wind(LL) 0.02 4-5 >999 240 Weight: 15 lb FT = 10%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

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

BOT CHORD WEBS 2x4 SPF No.2

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

Max Uplift 5=-66(LC 4), 3=-75(LC 8)

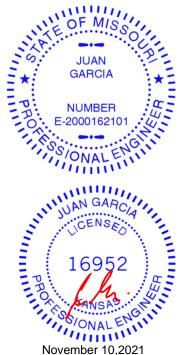
Max Grav 5=388(LC 1), 3=138(LC 1), 4=88(LC 3)

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

TOP CHORD 2-5=-340/110

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
- 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.



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

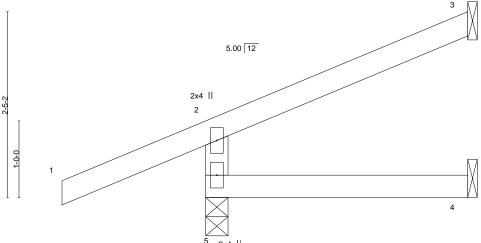
Rigid ceiling directly applied or 10-0-0 oc bracing.

except end verticals.

November 10,2021



Job Truss Truss Type Qty Ply Lot 143 HT 148735103 HT143 J12 Jack-Open Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Nov 9 15:16:34 2021 Page 1 Wheeler Lumber, Waverly, KS - 66871, ID:Ej7EWovY_94Pzt7UVy1gWAz_t70-bGMH0h5QN_4eA9Oj1paSykEs6FUjf0wc?cDnffyKtTB -1-10-8 1-10-8 Scale = 1:15.0



4-5 >999 360 MT20 197/144 4-5 >999 240 3 n/a n/a	
	4-5 >999 360 MT20 197/144 4-5 >999 240

BRACING-

TOP CHORD

BOT CHORD

3-5-1

except end verticals.

LUMBER-

REACTIONS.

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

WEBS 2x4 SPF No.2

> 5=0-3-8, 3=Mechanical, 4=Mechanical (size) Max Horz 5=73(LC 8)

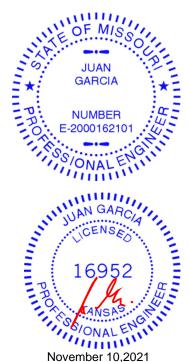
Max Uplift 5=-71(LC 4), 3=-48(LC 8) Max Grav 5=330(LC 1), 3=77(LC 1), 4=57(LC 3)

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

2-5=-289/94

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
- 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.



Structural wood sheathing directly applied or 3-5-1 oc purlins,

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



Job Truss Truss Type Qty Ply Lot 143 HT 148735104 HT143 J13 Jack-Open Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Nov 9 15:16:34 2021 Page 1 Wheeler Lumber, Waverly, KS - 66871, ID:Ej7EWovY_94Pzt7UVy1gWAz_t70-bGMH0h5QN_4eA9Oj1paSykEs6FUlf0wc?cDnffyKtTB 1-10-8 1-9-13 Scale = 1:11.7 5.00 12 3x4 || 2

								1-	9-13					
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	360	MT20	197/144	
TCDL	10.0	Lumber DOL	1.15	BC	0.08		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			
BCDL 10.0		Code IRC2018/TI	PI2014	Matri	x-R		Wind(LL)	-0.00	5	>999	240	Weight: 7 lb	FT = 10%	

2x4 ||

BRACING-

TOP CHORD

BOT CHORD

1-9-13

except end verticals.

LUMBER-

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

WEBS 2x4 SPF No.2 REACTIONS.

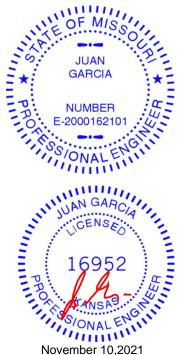
5=0-3-8, 3=Mechanical, 4=Mechanical (size) Max Horz 5=53(LC 5) Max Uplift 5=-87(LC 4), 3=-14(LC 8), 4=-7(LC 1) Max Grav 5=302(LC 1), 3=4(LC 4), 4=24(LC 3)

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

2-5=-262/96

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
- 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.



Structural wood sheathing directly applied or 1-9-13 oc purlins,

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

Job Truss Truss Type Qty Ply Lot 143 HT 148735105 HT143 J14 Jack-Closed Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Nov 9 15:16:35 2021 Page 1

Wheeler Lumber, Waverly, KS - 66871,

ID:Ej7EWovY_94Pzt7UVy1gWAz_t70-3SwfE1628HCVoJzvaW5hVym1lfo0OTAmEGzLB6yKtTA

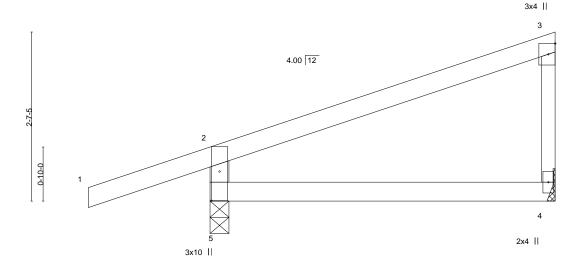
Structural wood sheathing directly applied or 5-3-14 oc purlins,

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

except end verticals.

1-10-8 5-3-14

Scale = 1:17.8



5-3-14

Plate Off	rsets (X,Y)	[5:0-5-6,0-1-8]		
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 0.29	Vert(LL) -0.03 4-5 >999 360 MT20 197/144
TCDL	10.0	Lumber DOL 1.15	BC 0.20	Vert(CT) -0.05 4-5 >999 240
BCLL	0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT) -0.00 4 n/a n/a
BCDL	10.0	Code IRC2018/TPI2014	Matrix-R	Wind(LL) 0.01 4-5 >999 240 Weight: 17 lb FT = 10%

TOP CHORD

BOT CHORD

LUMBER-BRACING-

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

3-4: 2x3 SPF No.2

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

Max Horz 5=112(LC 5)

Max Uplift 5=-136(LC 4), 4=-43(LC 8) Max Grav 5=398(LC 1), 4=200(LC 1)

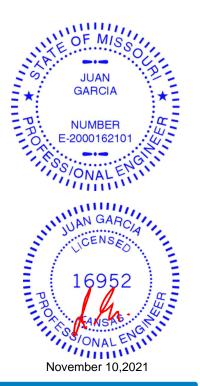
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 2-5=-352/170

NOTES-

REACTIONS.

- 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
- 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 = 136
- 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.





Job Truss Truss Type Qty Ply Lot 143 HT 148735106 HT143 J15 Jack-Open Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Nov 9 15:16:36 2021 Page 1 Wheeler Lumber, Waverly, KS - 66871, ID:Ej7EWovY_94Pzt7UVy1gWAz_t70-XfU1RN6gvbKMPTY58Ecw19JCf2Al7vQvSwiujYyKtT9 1-10-8 2-9-14 Scale = 1:11.7 4.00 12 2 -6-1 1-5-2 0-10-0 4 2-9-14 Plate Offsets (X,Y)--[5:0-5-6,0-1-8] SPACING-**PLATES** GRIP LOADING (psf) 2-0-0 CSI. DEFL. in (loc) I/defI L/d 25.0 Plate Grip DOL TCLL 1.15 TC 0.28 Vert(LL) 0.00 4-5 >999 360 MT20 197/144 TCDL 10.0 Lumber DOL 1.15 BC 0.07 Vert(CT) -0.00 4-5 >999 240

Horz(CT)

Wind(LL)

BRACING-

TOP CHORD

BOT CHORD

-0.00

-0.00

3

4-5

n/a

>999

except end verticals.

n/a

240

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

LUMBER-

BCLL

BCDL

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

0.0

10.0

WEBS 2x4 SPF No.2

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

Max Horz 5=62(LC 4)

Max Uplift 5=-124(LC 4), 3=-31(LC 8)

Rep Stress Incr

Code IRC2018/TPI2014

Max Grav 5=314(LC 1), 3=52(LC 1), 4=44(LC 3)

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

TOP CHORD 2-5=-273/139

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

WB

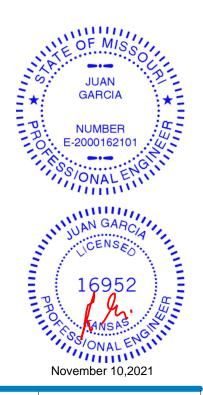
Matrix-R

0.00

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

YES

- * This truss has been designed for a 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=124
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



FT = 10%

Weight: 9 lb

Structural wood sheathing directly applied or 2-9-14 oc purlins,



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 chorembers 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



16023 Swingley Ridge Rd Chesterfield, MO 63017

Job Truss Truss Type Qty Ply Lot 143 HT 148735107 HT143 J16 Jack-Closed

Wheeler Lumber, Waverly, KS - 66871,

Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Nov 9 15:16:36 2021 Page 1 ID:Ej7EWovY_94Pzt7UVy1gWAz_t70-XfU1RN6gvbKMPTY58Ecw19JB227G7vQvSwiujYyKtT9

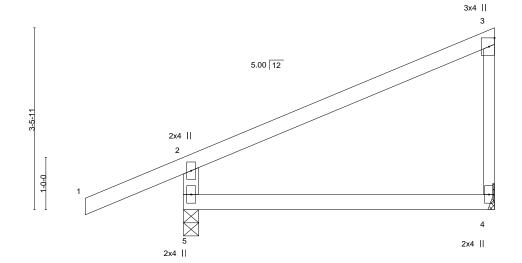
Structural wood sheathing directly applied or 5-11-4 oc purlins,

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

except end verticals.

-1-10-8 1-10-8 5-11-4

Scale = 1:22.0



5-11-4 LOADING (psf) SPACING-2-0-0 CSI. DEFL. I/defI L/d **PLATES** GRIP (loc) 25.0 Plate Grip DOL 1.15 Vert(LL) -0.04 >999 360 197/144 **TCLL** TC 0.38 4-5 MT20 **TCDL** 10.0 Lumber DOL 1.15 ВС 0.26 Vert(CT) -0.09 4-5 >773 240 **BCLL** 0.0 Rep Stress Incr YES WB 0.00 Horz(CT) -0.00 n/a n/a Code IRC2018/TPI2014 BCDL 10.0 Matrix-R Wind(LL) 0.02 4-5 >999 240 Weight: 19 lb FT = 10%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

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

3-4: 2x3 SPF No.2

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

Max Horz 5=150(LC 5)

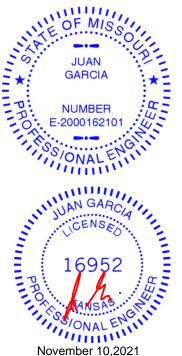
Max Uplift 5=-85(LC 8), 4=-56(LC 8) Max Grav 5=423(LC 1), 4=231(LC 1)

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

TOP CHORD 2-5=-373/129

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
- 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 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.





Job Truss Truss Type Qty Ply Lot 143 HT 148735108 HT143 J17 Jack-Closed 2 Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Nov 9 15:16:37 2021 Page 1 Wheeler Lumber, Waverly, KS - 66871,

ID:Ej7EWovY_94Pzt7UVy1gWAz_t70-?r2Pej7lfvSD1d7lix79aNsKvSTBsMg3hZSRG_yKtT8

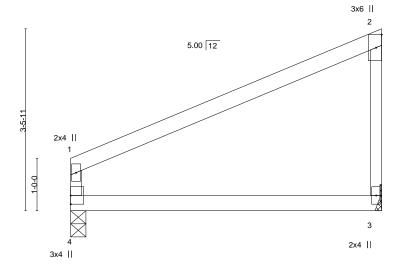
Structural wood sheathing directly applied or 5-11-4 oc purlins,

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

except end verticals.

5-11-4

Scale = 1:22.0



5-11-4 LOADING (psf) SPACING-2-0-0 CSI. DEFL. I/defI L/d **PLATES** GRIP (loc) 25.0 Plate Grip DOL 1.15 Vert(LL) -0.05 >999 360 197/144 **TCLL** TC 0.50 3-4 MT20 **TCDL** 10.0 Lumber DOL 1.15 ВС 0.28 Vert(CT) -0.10 3-4 >707 240 **BCLL** 0.0 Rep Stress Incr YES WB 0.00 Horz(CT) -0.00 3 n/a n/a Code IRC2018/TPI2014 BCDL 10.0 Matrix-R Wind(LL) 0.02 3-4 >999 240 Weight: 17 lb FT = 10%

5-11-4

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

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

WEBS 2x3 SPF No.2

> 4=0-3-8, 3=Mechanical (size) Max Horz 4=133(LC 5) Max Uplift 4=-33(LC 8), 3=-63(LC 8) Max Grav 4=258(LC 1), 3=258(LC 1)

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

NOTES-

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



Job Truss Truss Type Qty Lot 143 HT Ply 148735109 HT143 J18 Diagonal Hip Girder 2 Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Nov 9 15:16:38 2021 Page 1 Wheeler Lumber, Waverly, KS - 66871, ID:Ej7EWovY_94Pzt7UVy1gWAz_t70-T1bos38wQCa4fniUGfeO6aOQ0spFbpwCwDB?oQyKtT7 3-0-0 6-1-12 Scale = 1:17.1 3x4 II 3 3.12 12 2 8 9 5x7 2x4 || 6-1-12 5-11-8 LOADING (psf) SPACING-2-0-0 CSI. DEFL. L/d **PLATES** GRIP (loc) I/def 25.0 Plate Grip DOL Vert(LL) -0.05 197/144 **TCLL** 1.15 TC 0.80 4-5 >999 360 MT20 **TCDL** 10.0 Lumber DOL 1.15 ВС 0.29 Vert(CT) -0.09 4-5 >764 240 **BCLL** 0.0 Rep Stress Incr NO WB 0.00 Horz(CT) 0.00 n/a n/a BCDI 10.0 Code IRC2018/TPI2014 Matrix-R Wind(LL) -0.02 4-5 >999 240 Weight: 26 lb FT = 10%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

2x6 SPF 1650F 1.4E TOP CHORD 2x4 SPF No.2 **BOT CHORD**

2x4 SPF No.2 *Except* **WEBS**

3-4: 2x3 SPF No.2

REACTIONS. (size) 5=0-5-10, 4=Mechanical

Max Horz 5=108(LC 7)

Max Uplift 5=-212(LC 4), 4=-54(LC 8) Max Grav 5=926(LC 41), 4=229(LC 1)

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

TOP CHORD 2-5=-849/249

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 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=212
- 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) Load case(s) 40, 41 has/have been modified. Building designer must review loads to verify that they are correct for the intended use
- 8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 78 lb down and 36 lb up at 3-0-9, and 68 lb down and 65 lb up at 3-0-14, and 67 lb down and 54 lb up at 5-7-10 on top chord, and 9 lb down and 7 lb up at 3-0-9, and 10 lb down and 16 lb up at 3-0-14, and 24 lb down at 5-7-10 on bottom 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 Except:

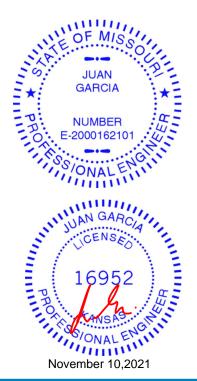
1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

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

Concentrated Loads (lb)

Vert: 7=-20(B) 8=7(F) 9=-8(B)



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

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

except end verticals.



MARNING - 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

Job Truss Truss Type Qty Ply Lot 143 HT I48735109 HT143 2 J18 Diagonal Hip Girder Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Nov 9 15:16:38 2021 Page 2

Wheeler Lumber,

Waverly, KS - 66871,

ID:Ej7EWovY_94Pzt7UVy1gWAz_t70-T1bos38wQCa4fniUGfeO6aOQ0spFbpwCwDB?oQyKtT7

LOAD CASE(S)

40) Reversal: User defined: Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

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

Concentrated Loads (lb)

Vert: 1=-250 6=1(B) 7=-20(B) 8=22(F=7, B=16) 9=-8(B)

41) User defined: Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

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

Concentrated Loads (lb)

Vert: 1=-250 7=-20(B) 8=7(F) 9=-8(B)



Job Truss Truss Type Qty Lot 143 HT 148735110 HT143 J19 Jack-Open 2 Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Nov 9 15:16:39 2021 Page 1 Wheeler Lumber, Waverly, KS - 66871, ID:Ej7EWovY_94Pzt7UVy1gWAz_t70-xD9A3P9ZBWixHxHgpMAdfoxjrGBqKGAL8txYKtyKtT6 -1-10-8 3-5-10 1-10-8 Scale = 1:15.1 5.00 12 2x4 || 2-0-15 4 2x4 | 3-5-10 3-3-10

LOADING (psf) SPACING-2-0-0 CSI. DEFL. I/defI L/d **PLATES** GRIP (loc) 4-5 25.0 Plate Grip DOL 1.15 TC Vert(LL) -0.01 >999 360 197/144 **TCLL** 0.28 MT20 **TCDL** 10.0 Lumber DOL 1.15 ВС 0.08 Vert(CT) -0.01 4-5 >999 240 **BCLL** 0.0 Rep Stress Incr YES WB 0.00 Horz(CT) -0.00 3 n/a n/a Code IRC2018/TPI2014 BCDL 10.0 Matrix-R Wind(LL) 0.00 4-5 >999 240 Weight: 11 lb FT = 10%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

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

WEBS 2x4 SPF No.2

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

Max Uplift 5=-71(LC 4), 3=-49(LC 8)

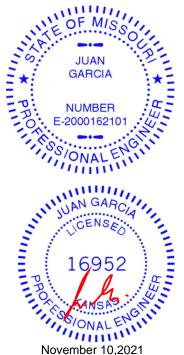
Max Grav 5=332(LC 1), 3=79(LC 1), 4=58(LC 3)

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

TOP CHORD 2-5=-290/95

NOTES-

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



Structural wood sheathing directly applied or 3-5-10 oc purlins,

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

except end verticals.

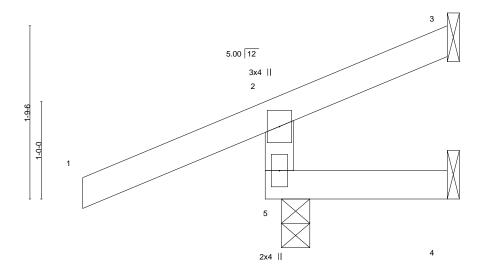


Job Truss Truss Type Qty Ply Lot 143 HT 148735111 HT143 J20 Jack-Open 2

Wheeler Lumber, Waverly, KS - 66871, Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Nov 9 15:16:40 2021 Page 1

ID:Ej7EWovY_94Pzt7UVy1gWAz_t70-PQjYHk9Byqqou4stN4hsC?UubgX83jPVNXg5sJyKtT5 1-10-8 1-10-7

Scale = 1:11.8



DEFL. in (loc) I/defl L/d PLATES GRIP	0-2-0		1-8	-7	i			
Vert(CT) 0.00 4-5 >999 360 W120 197/144 Vert(CT) 0.00 4-5 >999 240	Vert(LL)	0.00	4-5	>999	360	PLATES MT20	GRIP 197/144	

LOADING (pst)	SPACING- 2-0-0	CSI.	DEFL.
TCLL 25.0	Plate Grip DOL 1.15	TC 0.28	Vert(LL)
TCDL 10.0	Lumber DOL 1.15	BC 0.08	Vert(CT)
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT)
BCDL 10.0	Code IRC2018/TPI2014	Matrix-R	Wind(LL)
		1	

BRACING-

Q-2-Q

TOP CHORD Structural wood sheathing directly applied or 1-10-7 oc purlins,

Weight: 7 lb

FT = 10%

n/a

240

except end verticals.

-0.01

-0.00

1-10-7

3

5 >999

n/a

WEBS 2x4 SPF No.2 **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. 3=Mechanical, 4=Mechanical, 5=0-3-8 (size) Max Horz 5=53(LC 5)

Max Uplift 3=-16(LC 8), 4=-6(LC 1), 5=-86(LC 4) Max Grav 3=5(LC 19), 4=25(LC 3), 5=302(LC 1)

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

TOP CHORD 2-5=-262/95

NOTES-

LUMBER-

TOP CHORD

BOT CHORD

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

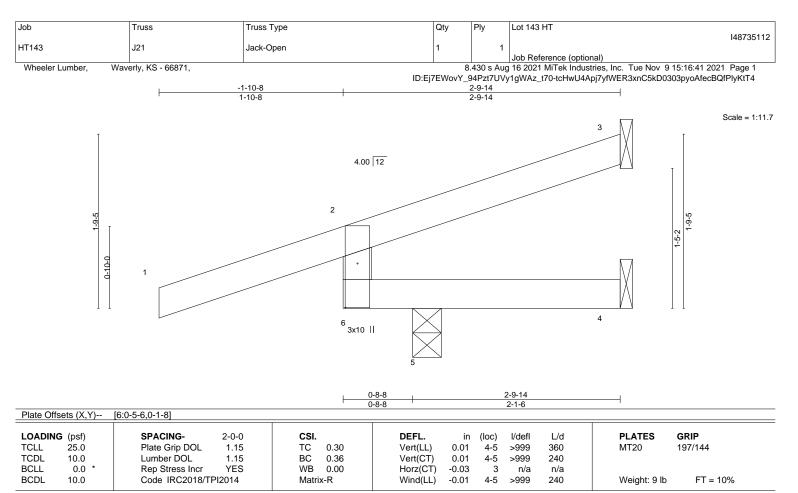
2x4 SPF No 2

2x4 SPF No.2

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







BRACING-

TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

TOP CHORD 2x4 SPF No.2

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

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

Max Horz 5=62(LC 4)

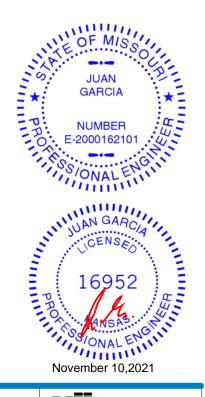
Max Uplift 3=-25(LC 8), 4=-78(LC 1), 5=-187(LC 4) Max Grav 3=25(LC 1), 4=55(LC 4), 5=430(LC 1)

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

TOP CHORD 2-6=-300/150

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 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=187
- 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 2-9-14 oc purlins,

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

except end verticals.



Job Truss Truss Type Qty Ply Lot 143 HT 148735113 HT143 J22 Jack-Open Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Nov 9 15:16:41 2021 Page 1 Wheeler Lumber, Waverly, KS - 66871, ID:Ej7EWovY_94Pzt7UVy1gWAz_t70-tcHwU4Apj7yfWER3xnC5kD03O3tSoAfecBQfPlyKtT4 1-10-8 2-9-14 Scale = 1:11.7 4.00 12 -6-1 1-5-2 0-10-0 4 5 3x10 || 2-7-14 Plate Offsets (X,Y)--[5:0-5-6,0-1-8] SPACING-**PLATES** GRIP LOADING (psf) 2-0-0 CSI. DEFL. in (loc) I/defI L/d 25.0 Plate Grip DOL TCLL 1.15 TC 0.28 Vert(LL) 0.00 4-5 >999 360 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 YES WB 0.00 Horz(CT) -0.00 3 n/a n/a BCDL Code IRC2018/TPI2014 FT = 10% 10.0 Wind(LL) -0.00 >999 240 Weight: 9 lb Matrix-R 4-5 BRACING-TOP CHORD Structural wood sheathing directly applied or 2-9-14 oc purlins,

BOT CHORD

except end verticals.

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

LUMBER-

REACTIONS.

TOP CHORD 2x4 SPF No.2

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

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

Max Horz 5=62(LC 4)

Max Uplift 5=-124(LC 4), 3=-31(LC 8)

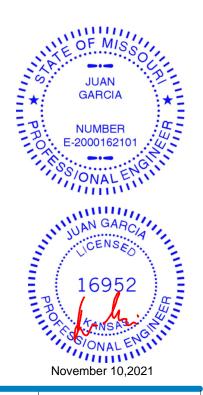
Max Grav 5=314(LC 1), 3=52(LC 1), 4=44(LC 3)

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

TOP CHORD 2-5=-273/139

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 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=124
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.







Job Truss Truss Type Qty Lot 143 HT 148735114 HT143 J23 Jack-Open Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Nov 9 15:16:42 2021 Page 1 Wheeler Lumber, Waverly, KS - 66871, ID:Ej7EWovY_94Pzt7UVy1gWAz_t70-MorliQBRUR5W8O?FVVjKHQZE5TD2Xdvorr9CxCyKtT3 -1-10-8 3-11-4 1-10-8 Scale: 3/4"=1" 5.00 12 2x4 || 2 1-0-0 5 2x4

TCDL 10.0 **BCLL** 0.0 BCDL 10.0

25.0

LOADING (psf)

SPACING-2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES

CSI. TC 0.28 ВС 0.11 WB 0.00 Code IRC2018/TPI2014 Matrix-R

DEFL. I/defI L/d (loc) Vert(LL) -0.01 >999 360 4-5 Vert(CT) -0.02 4-5 >999 Horz(CT) -0.01 3 n/a Wind(LL) 0.01 4-5 >999

BRACING-

TOP CHORD

BOT CHORD

3-9-4

240 n/a 240

except end verticals.

PLATES GRIP 197/144 MT20

Structural wood sheathing directly applied or 3-11-4 oc purlins,

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

Weight: 12 lb FT = 10%

LUMBER-

REACTIONS.

WEBS

TCLL

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

(size)

Max Horz 5=82(LC 8) Max Uplift 5=-69(LC 4), 3=-57(LC 8)

Max Grav 5=348(LC 1), 3=98(LC 1), 4=67(LC 3)

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

5=0-3-8, 3=Mechanical, 4=Mechanical

TOP CHORD 2-5=-305/97

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
- 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.



November 10,2021



Job Truss Truss Type Qty Lot 143 HT 148735115 HT143 J24 Diagonal Hip Girder Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Nov 9 15:16:43 2021 Page 1 Wheeler Lumber, Waverly, KS - 66871, ID:Ej7EWovY_94Pzt7UVy1gWAz_t70-q?PhvmC3FIDNIYaR2CEZpe6KLtXSG49x3VvmTeyKtT2

5-6-6

5-6-6

4-5

except end verticals.

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

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

Scale = 1:15.4

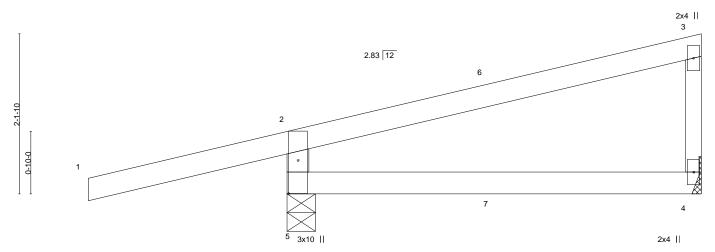


Plate Offsets (X,Y)--[5:0-5-5,0-1-8] SPACING-LOADING (psf) CSI DEFL. in (loc) I/def L/d **PLATES** GRIP TCLL 25.0 Plate Grip DOL 1.15 TC 0.63 Vert(LL) -0.03 4-5 >999 360 197/144 MT20 TCDL 10.0 Lumber DOL 1.15 BC 0.23 Vert(CT) -0.06 4-5 >999 240 **BCLL** 0.0 Rep Stress Incr NO WB 0.00 Horz(CT) 0.00 4 n/a n/a Code IRC2018/TPI2014 FT = 10% **BCDL** 10.0 Wind(LL) -0.02 >999 240 Weight: 18 lb

TOP CHORD

BOT CHORD

LUMBER-BRACING-

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

3-4: 2x3 SPF No.2 (size) 5=0-4-9, 4=Mechanical

Max Horz 5=88(LC 5) Max Uplift 5=-186(LC 4), 4=-31(LC 8)

Max Grav 5=485(LC 1), 4=186(LC 1)

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

2-7-13

TOP CHORD 2-5=-429/217

NOTES-

REACTIONS.

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

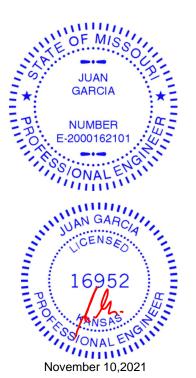
Matrix-R

- 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 = 186
- 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 14 lb up at 2-9-8, and 70 lb down and 14 lb up at 2-9-8 on top chord, and 14 lb down and 16 lb up at 2-9-8, and 14 lb down and 16 lb up at 2-9-8 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







Job Truss Truss Type Qty Ply Lot 143 HT 148735116 HT143 J25 Jack-Open 2 Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Nov 9 15:16:44 2021 Page 1 Wheeler Lumber, Waverly, KS - 66871, ID:Ej7EWovY_94Pzt7UVy1gWAz_t70-IBz366Dh02LENi9ecvloMreaeHv_?XP5l9eJ?4yKtT1 1-10-15 1-10-8 1-10-15 Scale = 1:10.2 4.00 12 0-10-0 3x10 || 1-10-15 1-10-15 Plate Offsets (X,Y)--[5:0-5-6,0-1-8] SPACING-**PLATES** GRIP LOADING (psf) 2-0-0 CSI. DEFL. in (loc) I/defI L/d 25.0 Plate Grip DOL TCLL 1.15 TC 0.28 Vert(LL) 0.00 4-5 >999 360 MT20 197/144 TCDL 10.0 Lumber DOL 1.15 BC 0.08 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 Code IRC2018/TPI2014 **BCDL** 10.0 Wind(LL) -0.00 5 >999 240 Weight: 7 lb FT = 10% Matrix-R **BRACING-**2x4 SPF No.2 TOP CHORD TOP CHORD Structural wood sheathing directly applied or 1-10-15 oc purlins, except end verticals.

BOT CHORD

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

LUMBER-

BOT CHORD 2x4 SPF No.2

WEBS 2x4 SPF No.2 REACTIONS. (size) 5=0-3-8, 3=Mechanical, 4=Mechanical

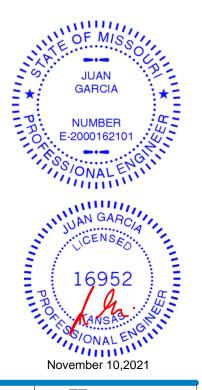
Max Horz 5=51(LC 4) Max Uplift 5=-134(LC 4), 3=-13(LC 8), 4=-7(LC 1) Max Grav 5=302(LC 1), 3=5(LC 18), 4=26(LC 3)

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

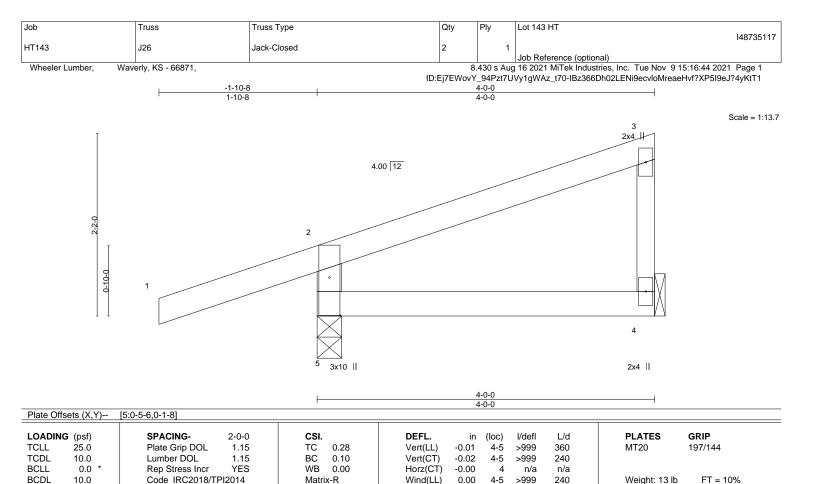
TOP CHORD 2-5=-260/138

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 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=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.







BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

3-4: 2x3 SPF No.2

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

Max Horz 5=93(LC 5)

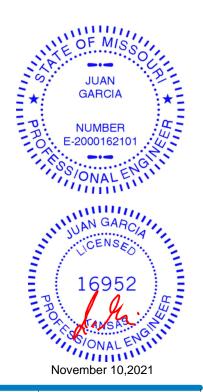
Max Uplift 5=-132(LC 4), 4=-27(LC 8) Max Grav 5=348(LC 1), 4=131(LC 1)

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

TOP CHORD 2-5=-308/154

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
- 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 = 132
- 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 4-0-0 oc purlins,

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

except end verticals.





Job Truss Truss Type Qty Lot 143 HT 148735118 HT143 J27 Jack-Closed Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Nov 9 15:16:45 2021 Page 1

Wheeler Lumber, Waverly, KS - 66871,

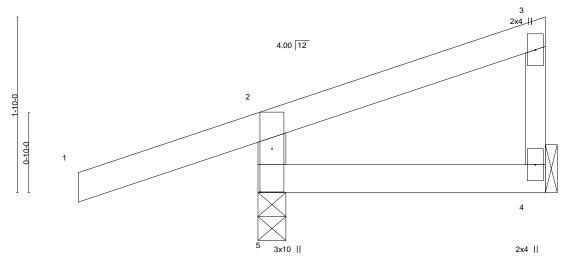
ID:Ej7EWovY_94Pzt7UVy1gWAz_t70-mNXRKSDJnMT4?skqAdG1v3BlNhFik_fEXpOsYWyKtT0

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

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

1-10-8 3-0-0

Scale: 1"=1



except end verticals.

Plate Off	Plate Offsets (X,Y) [5:0-5-6,0-1-8]											
LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.28	Vert(LL)	-0.00	4-5	>999	360	MT20	197/144
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)	-0.00	4	n/a	n/a		
BCDL	10.0	Code IRC2018/T	PI2014	Matri	x-R	Wind(LL)	-0.00	5	>999	240	Weight: 11 lb	FT = 10%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

3-4: 2x3 SPF No.2

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

Max Horz 5=78(LC 5)

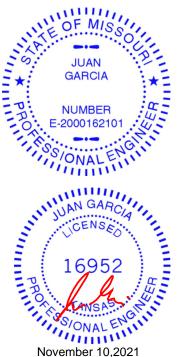
Max Uplift 5=-133(LC 4), 4=-17(LC 5) Max Grav 5=317(LC 1), 4=72(LC 1)

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

TOP CHORD 2-5=-279/145

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
- 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 = 133
- 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.





Job Truss Truss Type Qty Ply Lot 143 HT 148735119 HT143 J28 Jack-Closed Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Nov 9 15:16:46 2021 Page 1 Wheeler Lumber, Waverly, KS - 66871, ID:Ej7EWovY_94Pzt7UVy1gWAz_t70-Ea4pXoEyYgbxc0J0kKoGRGkzs4bnTRvNIT7Q4zyKtT? 3-0-0 Scale: 1"=1 2 4.00 12 2x4_H 1-10-0 0-10-0

BRACING-

TOP CHORD

BOT CHORD

3

2x4 ||

except end verticals.

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

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

LOADING (psf) TCLL 25.0 TCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15	CSI. TC 0.10 BC 0.06	- ' '	in (loc) 0.00 3-4 0.01 3-4	l/defl L/d >999 360 >999 240	PLATES GRIP MT20 197/144
BCLL 0.0 * BCDL 10.0	Rep Stress Incr YES Code IRC2018/TPI2014	WB 0.00 Matrix-R	Horz(CT) -0	0.00 3 0.00 4	n/a n/a >999 240	Weight: 8 lb FT = 10%

LUMBER-

REACTIONS.

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

4=0-3-8, 3=Mechanical (size) Max Horz 4=63(LC 5) Max Uplift 4=-19(LC 4), 3=-29(LC 8) Max Grav 4=126(LC 1), 3=126(LC 1)

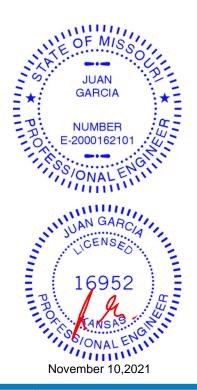
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-

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

3x10 ||

- 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 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, 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.



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

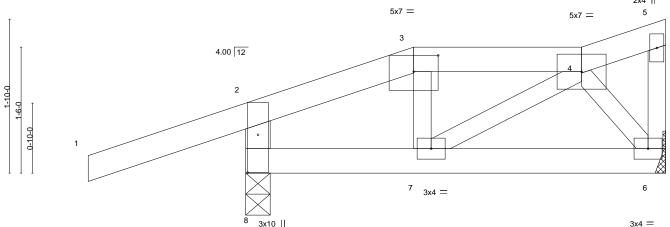
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall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



16023 Swingley Ridge Rd Chesterfield, MO 63017

Job Truss Truss Type Qty Lot 143 HT 148735120 HT143 J29 Jack-Closed Girder Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Nov 9 15:16:47 2021 Page 1 Wheeler Lumber, Waverly, KS - 66871, ID:Ej7EWovY_94Pzt7UVy1gWAz_t70-imeBl8FaJzjoE9uDH2JV_UG4EUw8CujX_7tzcPyKtT_ 5-0-0 1-10-8 2-0-0 2-0-0 1-0-0 Scale = 1:13.7 2x4 || 5x7 =



		2-0-0 2-0-0	4-0-0 2-0-0	5-0-0
Plate Offsets (X	Y) [3:0-3-8,0-2-5], [8:0-5-6,0-1-8]			
LOADING (psf TCLL 25.0 TCDL 10.0	Plate Grip DOL 1.15	CSI. DEFL. TC 0.32 Vert(LL) BC 0.12 Vert(CT)	in (loc) I/defl L/d -0.01 7 >999 360 -0.01 6-7 >999 240	PLATES GRIP MT20 197/144
BCLL 0.0 BCDL 10.0	* Rep Stress Incr NO	WB 0.03 Horz(CT) Matrix-S Wind(LL)	0.00 6 n/a n/a 0.00 7 >999 240	Weight: 19 lb FT = 10%

TOP CHORD

BOT CHORD

LUMBER-BRACING-

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

2-8: 2x4 SPF No.2

(size) 8=0-3-8, 6=Mechanical Max Horz 8=78(LC 5)

Max Uplift 8=-166(LC 4), 6=-52(LC 8) Max Grav 8=364(LC 1), 6=170(LC 1)

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

TOP CHORD 2-8=-313/160

NOTES-

REACTIONS.

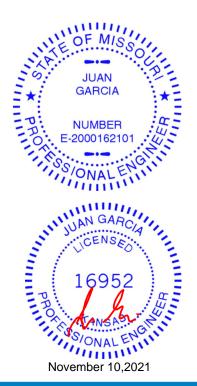
- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate
- 2) Provide adequate drainage to prevent water ponding.
- 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=166
- 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) 59 lb down and 126 lb up at 2-0-0 on top chord, and 29 lb down and 60 lb up at 2-0-0 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, 6-8=-20

Concentrated Loads (lb) Vert: 3=35(B)



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

except end verticals, and 2-0-0 oc purlins: 3-4.

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



Job Truss Truss Type Qty Ply Lot 143 HT 148735121 HT143 J30 Jack-Closed Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Nov 9 15:16:48 2021 Page 1 Wheeler Lumber, Waverly, KS - 66871, ID:Ej7EWovY_94Pzt7UVy1gWAz_t70-AyCayTGC4HrfsJTPrlqkWhpGduFzxL9gDncX7ryKtSz 5-0-0 4-0-0 1-10-8 4-0-0 1-0-0 Scale = 1:16.2 5x7 = 2x4 || 3 4.00 12 0-10-0 6 5 2x4 || 2x4 || 4-0-0 5-0-0 1-6-0 Plate Offsets (X V) [3:0-3-8 0-2-5] [7:0-5-6 0-1-8]

Plate Offset	15 (A, T)	[3.0-3-6,0-2-3], [7.0-3-6,0	- 1-0]									
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	0.28	Vert(LL)	-0.01	6-7	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.14	Vert(CT)	-0.03	6-7	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.02	Horz(CT)	0.00	5	n/a	n/a		
BCDL	10.0	Code IRC2018/TF	PI2014	Matri	x-R	Wind(LL)	0.01	6-7	>999	240	Weight: 17 lb	FT = 10%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

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

2-7: 2x4 SPF No.2

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

Max Horz 7=95(LC 5)

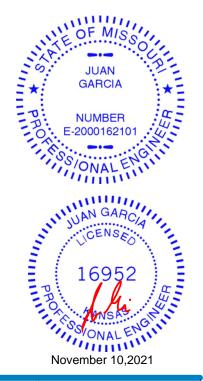
Max Uplift 7=-137(LC 4), 5=-32(LC 5) Max Grav 7=385(LC 1), 5=184(LC 1)

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

TOP CHORD 2-7=-326/156

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) 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=137.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 8) 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 5-0-0 oc purlins,

except end verticals, and 2-0-0 oc purlins: 3-4.

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

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

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



16023 Swingley Ridge Rd Chesterfield, MO 63017

Job Truss Truss Type Qty Lot 143 HT 148735122 HT143 J31 Jack-Closed Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Nov 9 15:16:49 2021 Page 1 Wheeler Lumber, Waverly, KS - 66871,

ID:Ej7EWovY_94Pzt7UVy1gWAz_t70-e9myApGqrbzWTT2bPTLz3vMRNIbjgoeqSRM4glyKtSy

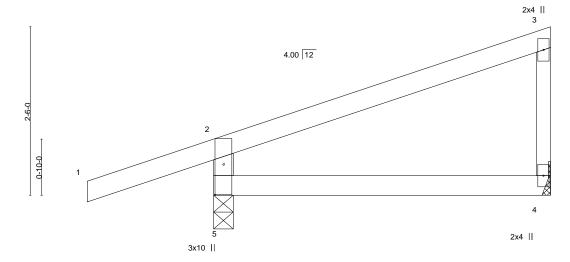
Structural wood sheathing directly applied or 5-0-0 oc purlins,

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

except end verticals.

5-0-0 1-10-8

Scale = 1:17.1



TOP CHORD

BOT CHORD

Plate Offsets (X,	[5:0-5-6,0-1-8]					
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 0.28	Vert(LL) -0.	02 4-5	>999 360	MT20 197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.17	Vert(CT) -0.	04 4-5	>999 240	
BCLL 0.0	Rep Stress Incr YES	WB 0.00	Horz(CT) -0.	00 4	n/a n/a	
BCDL 10.0	Code IRC2018/TPI2014	Matrix-R	Wind(LL) 0.	01 4-5	>999 240	Weight: 16 lb FT = 10%

LUMBER-BRACING-

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

3-4: 2x3 SPF No.2

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

Max Horz 5=108(LC 5)

Max Uplift 5=-134(LC 4), 4=-40(LC 8) Max Grav 5=385(LC 1), 4=184(LC 1)

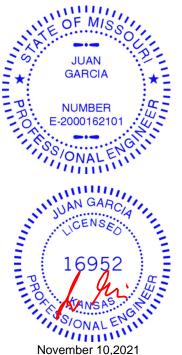
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 2-5=-340/166

NOTES-

REACTIONS.

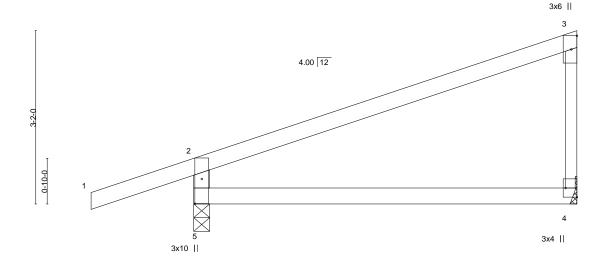
- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate
- 2) This truss has been designed for a 10.0 psf bottom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



November 10,2021



Job Truss Truss Type Qty Lot 143 HT 148735123 HT143 J32 Jack-Closed 6 Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Nov 9 15:16:49 2021 Page 1 Wheeler Lumber, Waverly, KS - 66871, ID:Ej7EWovY_94Pzt7UVy1gWAz_t70-e9myApGqrbzWTT2bPTLz3vMMgIYWgoeqSRM4glyKtSy 7-0-0 1-10-8



7-0-0

_Plate Off	tle Offsets (X,Y) [4:Edge,0-2-8], [5:0-5-6,0-1-8]											
LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.58	Vert(LL)	-0.08	4-5	>985	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.38	Vert(CT)	-0.17	4-5	>472	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/TP	12014	Matri	x-R	Wind(LL)	0.03	4-5	>999	240	Weight: 21 lb	FT = 10%

TOP CHORD

BOT CHORD

LUMBER-BRACING-

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

3-4: 2x3 SPF No.2

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

Max Horz 5=137(LC 5)

Max Uplift 5=-144(LC 4), 4=-62(LC 8)

Max Grav 5=466(LC 1), 4=283(LC 1)

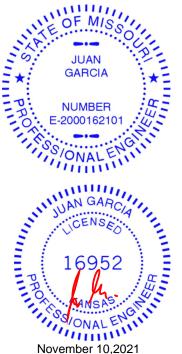
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 2-5=-412/192

NOTES-

REACTIONS.

- 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
- 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=144.
- 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 6-0-0 oc purlins,

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

except end verticals.

Scale = 1:21.0



Job Truss Truss Type Qty Lot 143 HT 148735124 HT143 J33 Diagonal Hip Girder Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Nov 9 15:16:50 2021 Page 1 Wheeler Lumber, Waverly, KS - 66871, ID:Ej7EWovY_94Pzt7UVy1gWAz_t70-7LKKN9HScu5N5ddozAsCc6uW?iwOPFuzg55dCkyKtSx 2-7-13 2-8-7 Scale = 1:10.6 0-3-15 2.83 12 2 0-110-0 3x10 || Plate Offsets (X,Y)--[5:0-5-5,0-1-8] SPACING-**PLATES** GRIP LOADING (psf) 2-0-0 CSI DEFL. in (loc) I/defl L/d TCLL 25.0 Plate Grip DOL 1.15 TC 0.61 Vert(LL) 0.01 4-5 >999 360 197/144 MT20 TCDL 10.0 Lumber DOL 1.15 BC 0.21 Vert(CT) 0.01 4-5 >999 240 **BCLL** 0.0 Rep Stress Incr NO WB 0.00 Horz(CT) -0.01 3 n/a n/a Code IRC2018/TPI2014 FT = 10% **BCDL** 10.0 Wind(LL) >999 240 Weight: 10 lb Matrix-R -0.01 4-5 LUMBER-BRACING-TOP CHORD 2x4 SPF No.2 TOP CHORD Structural wood sheathing directly applied or 2-8-7 oc purlins,

BOT CHORD

except end verticals.

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

2x4 SPF No.2

BOT CHORD WEBS 2x4 SPF No.2

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

Max Horz 5=52(LC 7)

Max Uplift 5=-158(LC 4), 3=-42(LC 17), 4=-26(LC 1) Max Grav 5=276(LC 1), 3=23(LC 4), 4=28(LC 4)

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) 3, 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) 46 lb down and 16 lb up at -2-7-13, and 46 lb down and 16 lb up at -2-7-13 on top chord. The design/selection of such connection device(s) is the
- 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

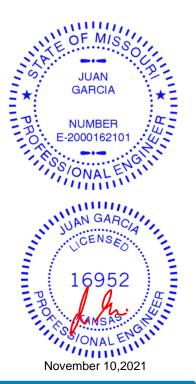
1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15

Concentrated Loads (lb)

Vert: 1=-71(F=-36, B=-36)

Trapezoidal Loads (plf)

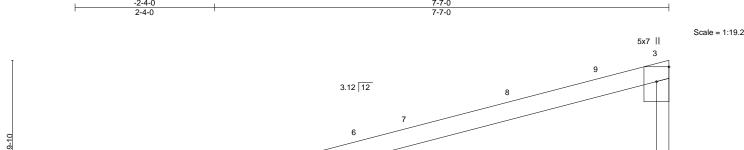
Vert: 1=-0(F=35, B=35)-to-2=-49(F=11, B=11), 2=-5(F=33, B=33)-to-3=-49(F=10, B=10), 5=0(F=10, B=10)-to-4=-14(F=3, B=10), 5=0(F=10, B=10)-to-4=-14(F=10, B=10), 5=0(F=10, B=10)-to-4=-14(F=10, B=10)-to-4=-











7-6-1

12

except end verticals.

13

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

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

3x4 II

Plate Offsets (X,Y)	Plate Offsets (X,Y) [3:Edge,0-2-8], [4:Edge,0-2-8], [5:0-3-10,0-2-8]											
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL.	n (loc)	l/defl	L/d	PLATES	GRIP				
TCLL 25.0	Plate Grip DOL 1.15	TC 0.81	Vert(LL) -0.0	4 4-5	>999	360	MT20	197/144				
TCDL 10.0	Lumber DOL 1.15	BC 0.29	Vert(CT) -0.0	8 4-5	>999	240						
BCLL 0.0 *	Rep Stress Incr NO	WB 0.00	Horz(CT) -0.0	0 4	n/a	n/a						
BCDL 10.0	Code IRC2018/TPI2014	Matrix-R	Wind(LL) 0.0	2 4-5	>999	240	Weight: 27 lb	FT = 10%				

TOP CHORD

BOT CHORD

10

LUMBER-BRACING-

5x7

2x4 SPF No.2 TOP CHORD **BOT CHORD** 2x6 SPF No.2 WEBS 2x6 SPF No.2 *Except*

3-4: 2x3 SPF No.2

(size) 5=0-3-14, 4=Mechanical Max Horz 5=115(LC 5) Max Uplift 5=-191(LC 4), 4=-91(LC 8)

Max Grav 5=553(LC 1), 4=380(LC 1)

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

TOP CHORD 2-5=-501/250, 3-4=-261/131

NOTES-

REACTIONS.

- 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=191.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 64 lb down and 38 lb up at 2-6-8, 77 lb down and 29 lb up at 3-4-9, and 89 lb down and 71 lb up at 5-1-4, and 101 lb down and 78 lb up at 6-6-15 on top chord , and 4 lb down at 2-6-8, 10 lb down and 8 lb up at 3-4-9, and 20 lb down at 5-1-4, and 39 lb down at 6-6-15 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

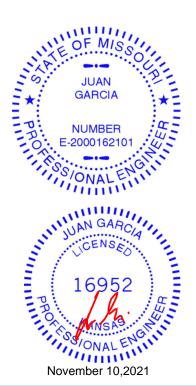
LOAD CASE(S) Standard

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

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

Concentrated Loads (lb)

Vert: 8=-23(F) 9=-52(B) 11=8(B) 12=-10(F) 13=-24(B)





Job Truss Truss Type Qty Lot 143 HT 148735126 HT143 J35 Jack-Open 10 Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Nov 9 15:16:52 2021 Page 1 Wheeler Lumber, Waverly, KS - 66871, ID:Ej7EWovY_94Pzt7UVy1gWAz_t70-3kS4orJi7WL5KxmA4bughX_uWVaMt9OG8PakHcyKtSv 6-0-0 1-10-8 6-0-0 Scale = 1:17.8 4.00 12 2-5-13 0-10-0 3x10 П 6-0-0 6-0-0 Plate Offsets (X,Y)--[5:0-5-6,0-1-8] SPACING-**PLATES** GRIP LOADING (psf) 2-0-0 CSI. DEFL. in (loc) I/defI L/d 25.0 Plate Grip DOL TCLL 1.15 TC 0.48 Vert(LL) -0.05 4-5 >999 360 MT20 197/144 TCDL 10.0 Lumber DOL 1.15 BC 0.31 Vert(CT) -0.11 4-5 >632 240 **BCLL** 0.0 Rep Stress Incr YES WB 0.00 Horz(CT) 0.03 3 n/a n/a BCDL Code IRC2018/TPI2014 FT = 10% 10.0 Wind(LL) 0.04 >999 240 Weight: 17 lb Matrix-R 4-5 BRACING-

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x4 SPF No.2

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

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

Max Horz 5=106(LC 4)

Max Uplift 5=-127(LC 4), 3=-82(LC 8)

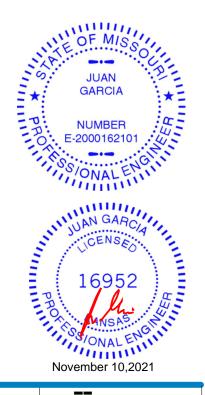
Max Grav 5=427(LC 1), 3=173(LC 1), 4=107(LC 3)

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

TOP CHORD 2-5=-374/174

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 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=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 6-0-0 oc purlins,

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

except end verticals.



Job Truss Truss Type Qty Ply Lot 143 HT 148735127 HT143 J36 Jack-Open Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Nov 9 15:16:52 2021 Page 1 Wheeler Lumber, Waverly, KS - 66871, ID:Ej7EWovY_94Pzt7UVy1gWAz_t70-3kS4orJi7WL5KxmA4bughX_xGVbyt9OG8PakHcyKtSv 1-10-8 5-0-12 Scale: 3/4"=1" 0-4-3 4.00 12 2-2-1 0-10-0 3x10 || 5-0-12 Plate Offsets (X,Y)--[5:0-5-6,0-1-8] SPACING-**PLATES** GRIP LOADING (psf) 2-0-0 CSI. DEFL. in (loc) I/defI L/d 25.0 Plate Grip DOL TCLL 1.15 TC 0.30 Vert(LL) -0.03 4-5 >999 360 MT20 197/144 TCDL 10.0 Lumber DOL 1.15 BC 0.20 Vert(CT) -0.05 4-5 >999 240 **BCLL** 0.0 Rep Stress Incr YES WB 0.00 Horz(CT) 0.02 3 n/a n/a BCDL Code IRC2018/TPI2014 FT = 10% 10.0 Wind(LL) 0.02 >999 240 Weight: 15 lb Matrix-R 4-5 LUMBER-**BRACING-**TOP CHORD Structural wood sheathing directly applied or 5-0-12 oc purlins,

BOT CHORD

except end verticals.

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

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

WEBS 2x4 SPF No.2

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

Max Horz 5=93(LC 4)

Max Uplift 5=-124(LC 4), 3=-68(LC 8)

Max Grav 5=389(LC 1), 3=140(LC 1), 4=89(LC 3)

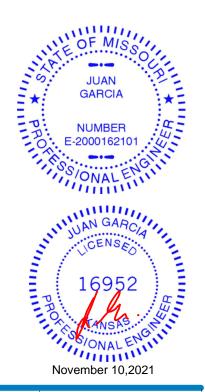
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 2-5=-341/162

NOTES-

REACTIONS.

- 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 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=124
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.







Job Truss Truss Type Qty Ply Lot 143 HT 148735128 HT143 J37 Jack-Open 2 Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Nov 9 15:16:53 2021 Page 1 Wheeler Lumber, Waverly, KS - 66871, ID:Ej7EWovY_94Pzt7UVy1gWAz_t70-Xw?T?BKLupTyy4LMeIQvDIW6MvzCccdPM3KHp3yKtSu -1-10-8 2-6-12 1-10-8 2-6-12 Scale = 1:11.3 4.00 12 2 1-4-1 0-10-0 2-6-12 Plate Offsets (X,Y)--[5:0-5-6,0-1-8] SPACING-**PLATES** GRIP LOADING (psf) 2-0-0 CSI. DEFL. in (loc) I/defI L/d 25.0 Plate Grip DOL TCLL 1.15 TC 0.28 Vert(LL) 0.00 4-5 >999 360 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 YES WB 0.00 Horz(CT) -0.00 3 n/a n/a Code IRC2018/TPI2014 FT = 10% **BCDL** 10.0 Wind(LL) -0.00 >999 240 Weight: 9 lb Matrix-R 4-5 BRACING-TOP CHORD 2x4 SPF No.2 TOP CHORD Structural wood sheathing directly applied or 2-6-12 oc purlins, except end verticals.

BOT CHORD

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

LUMBER-

REACTIONS.

BOT CHORD 2x4 SPF No.2

WEBS 2x4 SPF No.2

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

Max Horz 5=59(LC 4)

Max Uplift 5=-126(LC 4), 3=-26(LC 8)

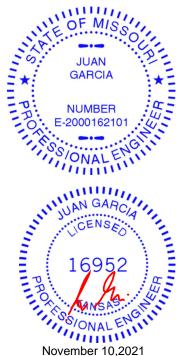
Max Grav 5=308(LC 1), 3=39(LC 1), 4=38(LC 3)

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

TOP CHORD 2-5=-267/137

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 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=126
- 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.





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 chorembers 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



16023 Swingley Ridge Rd Chesterfield, MO 63017

Job Truss Truss Type Qty Lot 143 HT 148735129 HT143 J38 Jack-Open Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Nov 9 15:16:54 2021 Page 1 Wheeler Lumber, Waverly, KS - 66871, ID:Ej7EWovY_94Pzt7UVy1gWAz_t70-?6ZrDXKzf7bpaEwZC0x8my3JXJJiL3tZbj3rLVyKtSt 3-8-10 0-10-8 3-8-10 Scale = 1:13.5 5.00 12 -6-3 0-2-0 3-8-10

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

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

WEDGE

Left: 2x3 SPF No.2

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

Max Horz 2=77(LC 8)

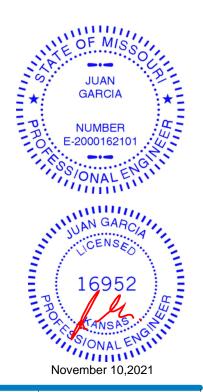
Max Uplift 3=-66(LC 8), 2=-37(LC 8)

Max Grav 3=113(LC 1), 2=240(LC 1), 4=70(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
- 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, 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.



Structural wood sheathing directly applied or 3-8-10 oc purlins.

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



Job Truss Truss Type Qty Lot 143 HT 148735130 HT143 J39 Jack-Open Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Nov 9 15:16:54 2021 Page 1 Wheeler Lumber, Waverly, KS - 66871, ID:Ej7EWovY_94Pzt7UVy1gWAz_t70-?6ZrDXKzf7bpaEwZC0x8my3KTJK5L3tZbj3rLVyKtSt 2-1-7 2-1-7 -0-10-8 0-10-8 Scale = 1:10.2 5.00 12

1-5-10 2 1-1-3 0-2-0 4x5 =

BRACING-

TOP CHORD

BOT CHORD

TCDL 1	25.0 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15	CSI. TC 0.06 BC 0.03	DEFL. Vert(LL) Vert(CT)	in -0.00 -0.00	(loc) 2 2-4	l/defl >999 >999	L/d 360 240	PLATES MT20	GRIP 197/144
BCLL	0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT)	-0.00	3	n/a	n/a		
BCDL 1	10.0	Code IRC2018/TPI2014	Matrix-P	Wind(LL)	0.00	2	****	240	Weight: 7 lb	FT = 10%

LUMBER-

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

WEDGE Left: 2x3 SPF No.2

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

Max Horz 2=49(LC 8)

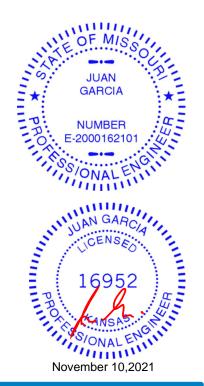
Max Uplift 3=-35(LC 8), 2=-35(LC 4)

Max Grav 3=48(LC 1), 2=177(LC 1), 4=38(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
- 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, 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.



Structural wood sheathing directly applied or 2-1-7 oc purlins.

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





Job Truss Truss Type Qty Lot 143 HT 148735131 HT143 J40 Jack-Closed Girder 2 Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Nov 9 15:16:56 2021 Page 1 Wheeler Lumber, Waverly, KS - 66871, ID:Ej7EWovY_94Pzt7UVy1gWAz_t70-xVhbeDMDBkrXpY4xJRzcrN8Ua6_HpyNs31YyQOyKtSr 3-0-0 1-7-4 Scale = 1:10.0 3 3.12 12 2 1-5-0 0-10-15 4 5x12 || 8x8 || 1-6-13 LOADING (psf) SPACING-2-0-0 CSI. DEFL. L/d **PLATES** GRIP (loc) I/defl 25.0 Plate Grip DOL 1.15 TC Vert(LL) 0.00 360 197/144 **TCLL** 0.86 5 >999 MT20 **TCDL** 10.0 Lumber DOL 1.15 ВС 0.18 Vert(CT) 0.00 5 >999 240 **BCLL** 0.0 Rep Stress Incr NO WB 0.00 Horz(CT) -0.00 3 n/a n/a Code IRC2018/TPI2014 BCDL 10.0 Matrix-R Wind(LL) -0.00 5 >999 240 Weight: 14 lb FT = 10% LUMBER-BRACING-TOP CHORD TOP CHORD Structural wood sheathing directly applied or 1-7-4 oc purlins,

BOT CHORD

except end verticals.

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

2x6 SPF 1650F 1.4E 2x6 SP DSS

BOT CHORD WEBS 2x8 SP DSS *Except*

3-4: 2x4 SPF No.2

REACTIONS.

(size) 5=0-4-11, 4=Mechanical, 3=Mechanical

Max Horz 5=66(LC 7)

Max Uplift 5=-345(LC 4), 4=-480(LC 21), 3=-511(LC 21) Max Grav 5=1576(LC 21), 4=96(LC 4), 3=89(LC 4)

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

TOP CHORD 2-5=-1073/263 **BOT CHORD** 4-5=-381/80

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) except (jt=lb) 5=345, 4=480, 3=511,
- 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) Load case(s) 21 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of
- 8) Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.
- 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 Except:

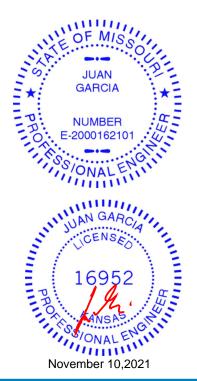
21) User defined: Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

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

Concentrated Loads (lb)

Vert: 1=-250





Job Truss Truss Type Qty Ply Lot 143 HT 148735132 HT143 J41 Jack-Open 2 Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Nov 9 15:16:57 2021 Page 1 Wheeler Lumber, Waverly, KS - 66871, ID:Ej7EWovY_94Pzt7UVy1gWAz_t70-PhFzrYNry2zORif8t8UrObhoMWL1YPd?HhlVyqyKtSq 1-10-4 1-10-8 1-10-4 Scale = 1:10.1 4.00 12 2 1-5-7 1-1-4 0-10-0 3x10 || 1-10-4 1-10-4 Plate Offsets (X,Y)--[5:0-5-6,0-1-8] SPACING-**PLATES** LOADING (psf) 2-0-0 CSI. DEFL. in (loc) I/defI L/d GRIP 25.0 Plate Grip DOL TCLL 1.15 TC 0.28 Vert(LL) 0.00 4-5 >999 360 MT20 197/144 TCDL 10.0 Lumber DOL 1.15 BC 0.08 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 Code IRC2018/TPI2014 FT = 10% **BCDL** 10.0 Wind(LL) -0.00 5 >999 240 Weight: 7 lb Matrix-R **BRACING-**TOP CHORD Structural wood sheathing directly applied or 1-10-4 oc purlins,

BOT CHORD

except end verticals.

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

LUMBER-

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

WEBS 2x4 SPF No.2

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

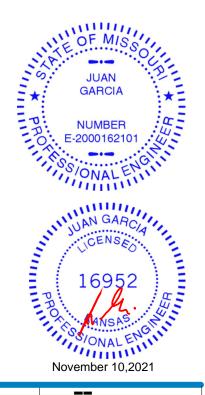
Max Uplift 5=-135(LC 4), 3=-11(LC 8), 4=-8(LC 1) Max Grav 5=302(LC 1), 3=4(LC 4), 4=24(LC 3)

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

TOP CHORD 2-5=-260/138

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 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=135
- 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.





Job Truss Truss Type Qty Lot 143 HT 148735133 HT143 J42 JACK-CLOSED GIRDER Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Nov 9 15:16:57 2021 Page 1 Wheeler Lumber, Waverly, KS - 66871, ID:Ej7EWovY_94Pzt7UVy1gWAz_t70-PhFzrYNry2zORif8t8UrObhgmWJzYPd?HhlVyqyKtSq 3-0-0 1-7-9 Scale = 1:10.0 12x12 || 3 3.12 12 2 -5-1 6x6 II Plate Offsets (X,Y)--[3:Edge,0-2-8] SPACING-**PLATES** GRIP LOADING (psf) CSI DEFL. in (loc) I/defl L/d Plate Grip DOL TCLL 25.0 1.15 TC 0.83 Vert(LL) 0.00 5 >999 360 197/144 MT20 TCDL 10.0 Lumber DOL 1.15 ВС 0.21 Vert(CT) 0.00 4-5 >999 240 **BCLL** 0.0 Rep Stress Incr NO WB 0.00 Horz(CT) -0.00 n/a 4 n/a

Wind(LL)

BRACING-

TOP CHORD

BOT CHORD

-0.00

5 >999

except end verticals.

240

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

Structural wood sheathing directly applied or 1-7-9 oc purlins,

LUMBER-

BCDL

2x6 SPF 1650F 1.4E TOP CHORD **BOT CHORD** 2x6 SPF No.2 WEBS 2x6 SPF No.2 *Except*

10.0

3-4: 2x3 SPF No.2

REACTIONS. (size) 5=0-4-11, 4=Mechanical

Max Horz 5=66(LC 7)

Max Uplift 5=-314(LC 4), 4=-846(LC 21) Max Grav 5=1438(LC 21), 4=155(LC 4)

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

Code IRC2018/TPI2014

TOP CHORD 2-5=-1210/287, 3-4=-112/643

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

Matrix-R

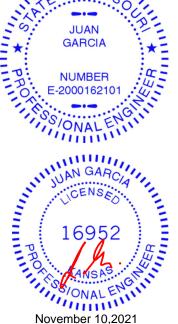
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 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) except (jt=lb) 5=314, 4=846
- 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) Load case(s) 21 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of
- 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 Except:

21) User defined: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

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

Concentrated Loads (lb) Vert: 1=-250



FT = 10%

Weight: 12 lb

O

November 10,2021



Job Truss Truss Type Qty Lot 143 HT 148735134 HT143 J43 Jack-Open Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Nov 9 15:16:58 2021 Page 1 Wheeler Lumber, Waverly, KS - 66871, ID:Ej7EWovY_94Pzt7UVy1gWAz_t70-utpM2uNTjM6E2sEKRs?4woDz5wgGHst8WL12UGyKtSp 1-10-8 1-10-8 1-10-8 Scale = 1:10.2 4.00 12 2 -5-8 1-1-5 3x10 || 1-10-8 1-10-8 Plate Offsets (X,Y)--[5:0-5-6,0-1-8] SPACING-**PLATES** GRIP LOADING (psf) 2-0-0 CSI. DEFL. in (loc) I/defI L/d 25.0 Plate Grip DOL TCLL 1.15 TC 0.28 Vert(LL) 0.00 4-5 >999 360 MT20 197/144 TCDL 10.0 Lumber DOL 1.15 ВС 0.08 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 Code IRC2018/TPI2014 FT = 10% 10.0 Wind(LL) -0.00 5 >999 240 Weight: 7 lb Matrix-R **BRACING-**2x4 SPF No.2 TOP CHORD TOP CHORD Structural wood sheathing directly applied or 1-10-8 oc purlins, BOT CHORD 2x4 SPF No.2 except end verticals. **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc bracing.

LUMBER-

REACTIONS.

WEBS 2x4 SPF No.2

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

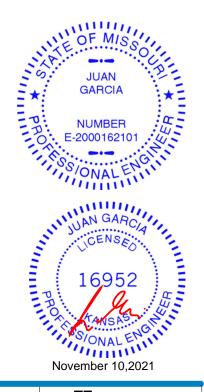
> Max Uplift 5=-135(LC 4), 3=-12(LC 8), 4=-8(LC 1) Max Grav 5=302(LC 1), 3=4(LC 19), 4=25(LC 3)

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

TOP CHORD 2-5=-260/138

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 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=135
- 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.







Job Truss Truss Type Qty Lot 143 HT 148735135 HT143 J44 Diagonal Hip Girder Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Nov 9 15:16:59 2021 Page 1 Wheeler Lumber, Waverly, KS - 66871, ID:Ej7EWovY_94Pzt7UVy1gWAz_t70-M4NkGEO5UfE5g?pW_ZXJT0m0EKzX0J7II?nc0jyKtSo 3-0-0 3-4-1 Scale = 1:12.2 3 6 3x6_H 3.12 12 2 1-10-76x8 || 3x4 || 3-3-10 Plate Offsets (X,Y)--[4:Edge,0-2-8] SPACING-**PLATES** LOADING (psf) CSI DEFL. in (loc) I/def L/d GRIP TCLL 25.0 Plate Grip DOL 1.15 TC 0.83 Vert(LL) 0.00 4-5 >999 360 MT20 197/144 TCDL 10.0 Lumber DOL 1.15 ВС 0.27 Vert(CT) 0.01 4-5 >999 240 **BCLL** 0.0 Rep Stress Incr NO WB 0.00 Horz(CT) -0.00 4 n/a n/a Code IRC2018/TPI2014 FT = 10% **BCDL** 10.0 Wind(LL) -0.00 >999 240 Weight: 19 lb Matrix-R 4-5 LUMBER-BRACING-2x6 SPF 1650F 1.4E TOP CHORD TOP CHORD Structural wood sheathing directly applied or 3-4-1 oc purlins,

BOT CHORD

except end verticals.

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

BOT CHORD 2x6 SPF No.2 WEBS 2x6 SPF No.2 *Except*

3-4: 2x3 SPF No.2

REACTIONS. (size) 5=0-4-11, 4=Mechanical

Max Horz 5=85(LC 7)

Max Uplift 5=-231(LC 4), 4=-261(LC 37) Max Grav 5=1000(LC 37), 4=100(LC 21)

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

TOP CHORD 2-5=-857/233

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
- 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) except (jt=lb) 5=231, 4=261,
- 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) Load case(s) 37 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of
- 8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 55 lb down and 28 lb up at 2-8-7 on top chord, and 14 lb down and 8 lb up at 2-8-7 on bottom 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).

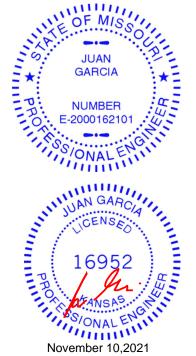
LOAD CASE(S) Standard Except:

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=8(F)

Continued on page 2



M WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE



Job Truss Truss Type Qty Ply Lot 143 HT 148735135 HT143 J44 Diagonal Hip Girder

Wheeler Lumber,

Waverly, KS - 66871,

Job Reference (optional)

8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Nov 9 15:16:59 2021 Page 2
ID:Ej7EWovY_94Pzt7UVy1gWAz_t70-M4NkGEO5UfE5g?pW_ZXJT0m0EKzX0J7II?nc0jyKtSo

LOAD CASE(S)

37) User defined: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)
Vert: 1-2=-70(F), 2-3=-70(F), 4-5=-20(F)
Concentrated Loads (lb)

Vert: 1=-250 7=8(F)



Job Truss Truss Type Qty Lot 143 HT 148735136 HT143 J45 Jack-Closed Girder

Wheeler Lumber, Waverly, KS - 66871,

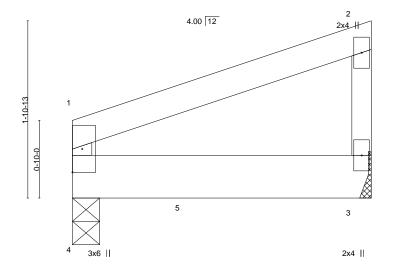
Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Nov 9 15:16:59 2021 Page 1 ID:Ej7EWovY_94Pzt7UVy1gWAz_t70-M4NkGEO5UfE5g?pW_ZXJT0mA?Kzl0J7ll?nc0jyKtSo

Structural wood sheathing directly applied or 3-2-8 oc purlins,

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

except end verticals.

Scale = 1:12.4



			'			3-2-8						
LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.Ó	Plate Grip DOL	1.15	TC	0.14	Vert(LL)	-0.01	3-4	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.26	Vert(CT)	-0.01	3-4	>999	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.00	Horz(CT)	0.00	3	n/a	n/a		
BCDL	10.0	Code IRC2018/T	PI2014	Matri	x-R	Wind(LL)	0.00	3-4	>999	240	Weight: 11 lb	FT = 10%

3-2-8

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

TOP CHORD 2x4 SPF No 2 BOT CHORD 2x6 SPF No.2

WEBS 2x3 SPF No.2

> 4=0-3-8, 3=Mechanical (size) Max Horz 4=63(LC 5) Max Uplift 4=-31(LC 4), 3=-37(LC 8) Max Grav 4=347(LC 1), 3=270(LC 1)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 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, 3.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 347 lb down and 25 lb up at 1-3-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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

Vert: 1-2=-70, 3-4=-20 Concentrated Loads (lb) Vert: 5=-347(F)



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Job Truss Truss Type Qty Ply Lot 143 HT 148735137 HT143 J46 Jack-Open 5 Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Nov 9 15:17:00 2021 Page 1 Wheeler Lumber, Waverly, KS - 66871, ID:Ej7EWovY_94Pzt7UVy1gWAz_t70-qGx6TaPkFzMyl9OjYG2Y0DJJbkM?lmMR_eW9Z9yKtSn 1-10-8 3-2-8 Scale = 1:12.4 4.00 12 2 1-6-10 0-10-0 Plate Offsets (X,Y)--[5:0-5-6,0-1-8] SPACING-**PLATES** GRIP LOADING (psf) CSI. DEFL. in (loc) I/defI L/d 25.0 Plate Grip DOL TCLL 1.15 TC 0.28 Vert(LL) -0.00 4-5 >999 360 MT20 197/144 TCDL 10.0 Lumber DOL 1.15 ВС 0.06 Vert(CT) -0.01 4-5 >999 240 **BCLL** 0.0 Rep Stress Incr YES WB 0.00 Horz(CT) -0.00 3 n/a n/a Code IRC2018/TPI2014 FT = 10% **BCDL** 10.0 Wind(LL) -0.00 >999 240 Weight: 10 lb Matrix-R 4-5 LUMBER-**BRACING-**TOP CHORD 2x4 SPF No.2 TOP CHORD Structural wood sheathing directly applied or 3-2-8 oc purlins, BOT CHORD 2x4 SPF No.2 except end verticals. WEBS 2x4 SPF No.2 **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc bracing. REACTIONS. (size) 5=0-3-8, 3=Mechanical, 4=Mechanical

Max Horz 5=49(LC 4)

Max Uplift 5=-76(LC 4), 3=-23(LC 8)

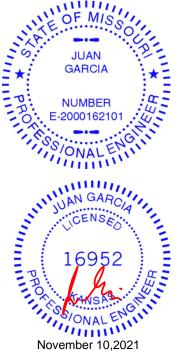
Max Grav 5=324(LC 1), 3=69(LC 1), 4=52(LC 3)

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

TOP CHORD 2-5=-283/94

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 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.





Job Truss Truss Type Qty Lot 143 HT 148735138 HT143 J47 Jack-Closed Girder 2 Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Nov 9 15:17:01 2021 Page 1

Wheeler Lumber, Waverly, KS - 66871,

ID:Ej7EWovY_94Pzt7UVy1gWAz_t70-ISUUhwQM0HUpvJyv6_ZnYRrMk7gDUDcbClGj5byKtSm

1-10-2

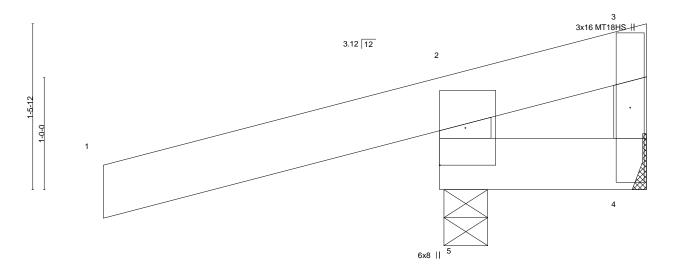
Rigid ceiling directly applied or 6-0-0 oc bracing.

except end verticals.

Structural wood sheathing directly applied or 1-10-2 oc purlins,

1-10-2 3-0-0 1-10-2

Scale = 1:10.3



			' 1-9-11 '
LOADING (psf) TCLL 25.0 TCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15	CSI. TC 0.83 BC 0.19	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 MT18HS 197/144
BCLL 0.0 * BCDL 10.0	Rep Stress Incr NO Code IRC2018/TPI2014	WB 0.00 Matrix-R	Horz(CT) -0.00

BRACING-

TOP CHORD

BOT CHORD

LUMBER-**BOT CHORD**

TOP CHORD 2x6 SPF 1650F 1.4E 2x6 SPF No.2 2x6 SPF No.2 *Except*

WEBS 3-4: 2x4 SPF No.2

REACTIONS. (size) 5=0-4-11, 4=Mechanical

Max Horz 5=68(LC 7)

Max Uplift 5=-295(LC 4), 4=-731(LC 21) Max Grav 5=1340(LC 21), 4=134(LC 4)

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

TOP CHORD 2-5=-1121/271 3-4=-92/542

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) All plates are MT20 plates unless otherwise indicated.
- 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) except (jt=lb) 5=295, 4=731,
- 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) Load case(s) 21 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of
- 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 Except:

21) User defined: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

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

Concentrated Loads (lb) Vert: 1=-250

GARCIA NUMBER E-2000162101 ONALE 16952

RANSAS

November 10,2021

November 10,2021



Job Truss Truss Type Qty Ply Lot 143 HT 148735139 HT143 J48 Jack-Open Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Nov 9 15:17:02 2021 Page 1 Wheeler Lumber, Waverly, KS - 66871, ID:Ej7EWovY_94Pzt7UVy1gWAz_t70-mf2suGR_nacgXTX5gh405eOf5X2BDgskRy?Gd1yKtSl 1-10-8 2-0-8 Scale = 1:10.4 4.00 12 2 1-6-3 -6-3 0-110-0 3x10 || 2-0-8 2-0-8 Plate Offsets (X,Y)--[5:0-5-6,0-1-8] SPACING-**PLATES** GRIP LOADING (psf) 2-0-0 CSI. DEFL. in (loc) I/defI L/d 25.0 Plate Grip DOL TCLL 1.15 TC 0.28 Vert(LL) 0.00 4-5 >999 360 MT20 197/144 TCDL 10.0 Lumber DOL 1.15 ВС 0.08 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 Code IRC2018/TPI2014 FT = 10% **BCDL** 10.0 Wind(LL) -0.00 5 >999 240 Weight: 8 lb Matrix-R **BRACING-**2x4 SPF No.2 TOP CHORD TOP CHORD Structural wood sheathing directly applied or 2-0-8 oc purlins, except end verticals.

BOT CHORD

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

LUMBER-

BOT CHORD 2x4 SPF No.2

WEBS 2x4 SPF No.2

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

Max Horz 5=52(LC 4)

Max Uplift 5=-133(LC 4), 3=-15(LC 8), 4=-5(LC 1) Max Grav 5=302(LC 1), 3=10(LC 1), 4=27(LC 3)

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

TOP CHORD 2-5=-260/137

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 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=133
- 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.





Job Truss Truss Type Qty Lot 143 HT 148735140 HT143 LAY1 **GABLE** Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Nov 9 15:17:06 2021 Page 1 Wheeler Lumber, Waverly, KS - 66871, ID:Ej7EWovY_94Pzt7UVy1gWAz_t70-fQINkdUUqp6604rsvX9yFUZMu8PP9TJKMazUmpyKtSh 7-10-9 7-10-9 9-2-9 1-4-0 Scale = 1:36.3 5 10.40 12 3 6-7-13 6-9-15 -3-15

7-10-9 LOADING (psf) SPACING-2-0-0 CSI. DEFL. I/defI L/d **PLATES** GRIP (loc) 25.0 Plate Grip DOL TC Vert(LL) **TCLL** 1.15 0.16 n/a n/a 999 MT20 **TCDL** 10.0 Lumber DOL 1.15 ВС 0.06 Vert(CT) n/a n/a 999 **BCLL** 0.0 Rep Stress Incr YES WB 0.10 Horz(CT) -0.00 8 n/a n/a Code IRC2018/TPI2014 BCDL 10.0 Matrix-S

12

7-10-9

11

BRACING-

TOP CHORD

BOT CHORD

10 9

10-0-0 oc bracing: 8-9.

197/144

Weight: 46 lb FT = 10%

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

Rigid ceiling directly applied or 6-0-0 oc bracing, Except:

except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 6-9, 6-7.

LUMBER-

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

5-9: 2x3 SPF No.2

OTHERS 2x4 SPF No.2

REACTIONS. All bearings 9-2-9.

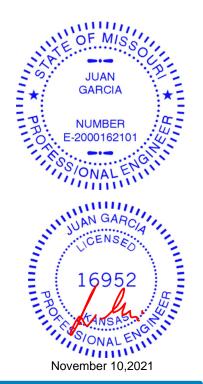
Max Horz 1=277(LC 8) (lb) -Max Uplift All uplift 100 lb or less at joint(s) 1, 9, 8, 11, 10 except 12=-135(LC 8) Max Grav All reactions 250 lb or less at joint(s) 1, 9, 8, 11, 10 except 12=277(LC 15)

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

TOP CHORD 1-2=-364/211

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) All plates are 2x4 MT20 unless otherwise indicated.
- 5) Gable requires continuous bottom chord bearing.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a 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) 1, 9, 8, 11, 10 except (jt=lb) 12=135.
- 9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

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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



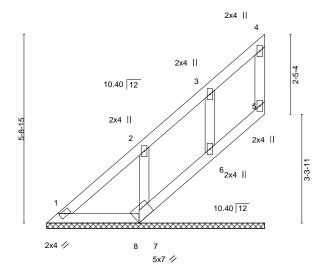
Job Truss Truss Type Qty Ply Lot 143 HT 148735141 HT143 LAY2 **GABLE**

Wheeler Lumber, Waverly, KS - 66871,

Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Nov 9 15:17:07 2021 Page 1 ID:Ej7EWovY_94Pzt7UVy1gWAz_t70-7cslxzU7b7EzdEQ3SFgBoi5YjYmouxfTbEj1IFyKtSg

6-7-9 6-7-9

Scale = 1:35.1



		2-9-12 2-9-12	6-7-9 3-9-13	-	
LOADING (psf) TCLL 25.0 TCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15	CSI. TC 0.09 BC 0.05	DEFL. in (loc) Vert(LL) n/a - Vert(CT) n/a -	l/defl L/d n/a 999 n/a 999	PLATES MT20
BCLL 0.0 * BCDL 10.0	Rep Stress Incr YES Code IRC2018/TPI2014	WB 0.03 Matrix-P	Horz(CT) -0.00 5	n/a n/a	Weight: 25 lb

BRACING-LUMBER-

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

OTHERS 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, Except: 6-0-0 oc bracing: 5-6.

REACTIONS. All bearings 6-7-9.

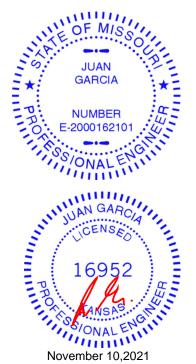
(lb) -Max Horz 1=175(LC 8)

Max Uplift All uplift 100 lb or less at joint(s) 1, 5, 8, 6 except 7=-121(LC 8) Max Grav All reactions 250 lb or less at joint(s) 1, 5, 8, 6 except 7=271(LC 15)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) 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, 5, 8, 6 except (jt=lb) 7=121.
- 6) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 5, 7, 6.
- 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.



GRIP 197/144

FT = 10%



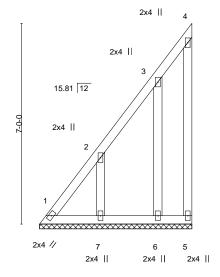
Job	Truss	Truss Type	Qty	Ply	Lot 143 HT	
HT143	LAY3	Lay-In Gable	2	1	148735142	
111 143	LAIS	Lay-III Gable	2	'	Job Reference (optional)	

Wheeler Lumber, Waverly, KS - 66871,

8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Nov 9 15:17:08 2021 Page 1 ID:Ej7EWovY_94Pzt7UVy1gWAz_t70-bpP79JVIMQMqFO?F0yBQKvegNy6TdNLdpuSarhyKtSf

5-3-12

Scale = 1:40.2



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	0.29	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.03	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.06	Horz(CT)	-0.00	5	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI	2014	Matri	x-P						Weight: 31 lb	FT = 10%

BOT CHORD

LUMBER-BRACING-

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

OTHERS 2x4 SPF No.2

Structural wood sheathing directly applied or 5-3-12 oc purlins, TOP CHORD except end verticals.

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

REACTIONS. All bearings 5-3-12. Max Horz 1=254(LC 5) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) except 1=-125(LC 6), 5=-115(LC 7), 7=-197(LC 8), 6=-138(LC 8)

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.

TOP CHORD 1-2=-301/225

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 125 lb uplift at joint 1, 115 lb uplift at joint 5, 197 lb uplift at joint 7 and 138 lb uplift at joint 6.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



November 10,2021



Job Truss Truss Type Qty Ply Lot 143 HT 148735143 HT143 LAY4 **GABLE** 2 Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Nov 9 15:17:08 2021 Page 1 Wheeler Lumber, Waverly, KS - 66871, ID:Ej7EWovY_94Pzt7UVy1gWAz_t70-bpP79JVIMQMqFO?F0yBQKvekGy6RdOpdpuSarhyKtSf 7-5-13 4-3-6

> Scale = 1:25.8 2x4 || 2x4 || 3x4 // 4 5 \boxtimes 6 2x4 = 2x4 || 15.81 12 2x4 || 15.81 12 10 2x4 // 2x4 || 5x7 // 4-3-6 3-2-7

Plate Offsets (X,Y)	[3:0-1-3,Edge]										
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/TI	2-0-0 1.15 1.15 YES PI2014	CSI. TC BC WB Matrix	0.04 0.03 0.03 c-P	DEFL. Vert(LL) Vert(CT) Horz(CT)	in n/a n/a -0.00	(loc) - - 6	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20 Weight: 29 lb	GRIP 197/144 FT = 10%

TOP CHORD

LUMBER-BRACING-

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

2-0-0 oc purlins (6-0-0 max.): 3-6. **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc bracing.

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

REACTIONS. All bearings 7-5-13. Max Horz 1=160(LC 8) (lb) -

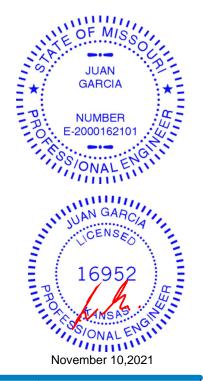
Max Uplift All uplift 100 lb or less at joint(s) 1, 6, 8, 9, 7 except 10=-159(LC 8)

Max Grav All reactions 250 lb or less at joint(s) 1, 6, 8, 10, 9, 7

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
- Provide adequate drainage to prevent water ponding.
- 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 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) 1, 6, 8, 9, 7 except (it=lb) 10=159.
- 8) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 6, 7.
- 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.





Job	Truss	Truss Type	Qty	Ply	Lot 143 HT	٦
					148735144	1
HT143	LAY5	GABLE	1	1		
					Job Reference (optional)	

Wheeler Lumber, Waverly, KS - 66871,

8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Nov 9 15:17:09 2021 Page 1 ID:Ej7EWovY_94Pzt7UVy1gWAz_t70-3?zWMfWN7kUhtYaRafift7BuLMRTMpGm2YC8N7yKtSe

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

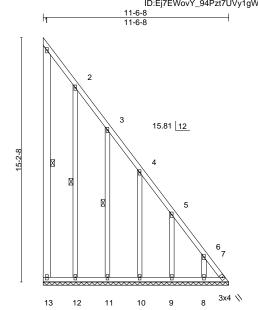
1-13, 2-12, 3-11

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

except end verticals.

1 Row at midpt

Scale = 1:71.7



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 0.09	Vert(LL)	n/a -	n/a 999	MT20 197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.11	Vert(CT)	n/a -	n/a 999	
BCLL 0.0 *	Rep Stress Incr YES	WB 0.15	Horz(CT) 0	0.01 7	n/a n/a	
BCDL 10.0	Code IRC2018/TPI2014	Matrix-S				Weight: 99 lb FT = 10%

BOT CHORD

WEBS

LUMBER-BRACING-TOP CHORD

2x4 SPF No 2 TOP CHORD BOT CHORD 2x4 SPF No.2 2x6 SPF No.2 WEBS **OTHERS**

(lb) -

2x4 SPF No.2 All bearings 11-6-8.

Max Horz 13=-592(LC 9) Max Uplift All uplift 100 lb or less at joint(s) 13 except 7=-290(LC 7), 12=-165(LC 9), 11=-180(LC 9), 10=-174(LC

9), 9=-179(LC 9), 8=-158(LC 9)

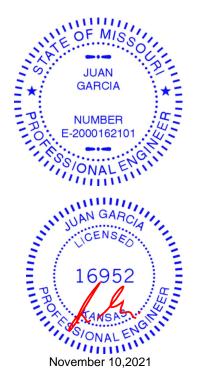
Max Grav All reactions 250 lb or less at joint(s) 13, 12, 11, 10, 9, 8 except 7=743(LC 9)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-3=-252/120, 3-4=-433/193, 4-5=-609/266, 5-6=-791/343, 6-7=-940/404 **BOT CHORD** 12-13=-247/591, 11-12=-247/591, 10-11=-247/591, 9-10=-247/591, 8-9=-247/591, 7-8=-247/591

NOTES-

REACTIONS.

- 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 right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) All plates are 2x4 MT20 unless otherwise indicated.
- 3) Gable requires continuous bottom chord bearing.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 13 except (jt=lb) 7=290, 12=165, 11=180, 10=174, 9=179, 8=158.
- 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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AMSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job Truss Truss Type Qty Ply Lot 143 HT 148735145 HT143 LAY6 **GABLE**

Waverly, KS - 66871, Wheeler Lumber,

Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Nov 9 15:17:10 2021 Page 1 ID:Ej7EWovY_94Pzt7UVy1gWAz_t70-XBXua?X?u2cXVi8e8NDuPKj3wmnc5EqwHCyhvayKtSd

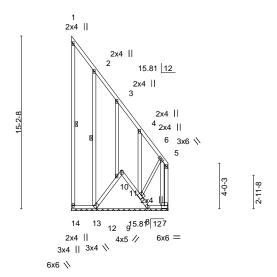
Structural wood sheathing directly applied or 6-0-0 oc purlins,

1-14, 2-13

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

except end verticals.

Scale = 1:101.4



2-2-2 4-5-1 6-8-0 8-5-15 2-2-2 2-2-15 2-2-15 1-9-15

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	TC 0.10	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL 1.15	BC 0.11	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr YES	WB 0.26	Horz(CT)	0.01	8	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014	Matrix-P						Weight: 87 lb	FT = 10%

BOT CHORD

LUMBER-BRACING-TOP CHORD 2x4 SPF No 2 TOP CHORD

2x4 SPF No.2 **BOT CHORD** 2x4 SPF No.2 *Except* **WEBS**

5-9: 2x3 SPF No.2

OTHERS 2x4 SPF No.2

WEBS 1 Row at midpt

REACTIONS. All bearings 8-5-15. Max Horz 14=-387(LC 9) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 14, 8 except 7=-493(LC 7), 12=-548(LC 9), 10=-770(LC 7),

13=-164(LC 9), 11=-169(LC 9), 9=-1288(LC 9)

Max Grav All reactions 250 lb or less at joint(s) 14, 8, 11 except 7=1068(LC 9), 12=373(LC 7), 10=1019(LC 9), 13=262(LC 16), 9=787(LC 7)

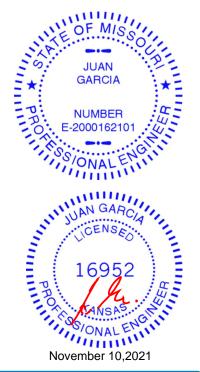
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 2-3=-261/124, 3-4=-450/202, 4-5=-596/256

BOT CHORD 13-14=-293/387, 12-13=-293/387, 11-12=-506/667, 10-11=-501/635, 9-10=-498/643

WEBS 5-7=-843/451, 5-9=-431/753

- 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 right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 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) 14, 8 except (jt=lb) 7=493, 12=548, 10=770, 13=164, 11=169, 9=1288.
- 6) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 10, 11, 9.
- 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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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



16023 Swingley Ridge Rd Chesterfield, MO 63017

Job Truss Truss Type Qty Ply Lot 143 HT 148735146 HT143 LAY7 **GABLE**

Wheeler Lumber, Waverly, KS - 66871,

Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Nov 9 15:17:11 2021 Page 1 ID:Ej7EWovY_94Pzt7UVy1gWAz_t70-?N5GnLYdfLkO6rjqh4k7yYGEu96lqj?3VshER0yKtSc

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

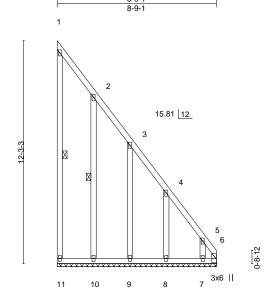
1-11, 2-10

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

except end verticals.

1 Row at midpt

Scale = 1:63.4



LOADING	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.08	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.08	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.13	Horz(CT)	0.01	6	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2	2014	Matri	x-P						Weight: 64 lb	FT = 10%

BRACING-

TOP CHORD

BOT CHORD

WEBS

LUMBER-

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

OTHERS

WEDGE

Right: 2x4 SPF No.2

REACTIONS. All bearings 8-9-1.

Max Horz 11=-477(LC 9) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 11 except 10=-186(LC 9), 9=-172(LC 9), 6=-337(LC 7), 8=-185(LC 9), 7=-348(LC 9)

Max Grav All reactions 250 lb or less at joint(s) 11, 10, 9, 8, 7 except 6=812(LC 9)

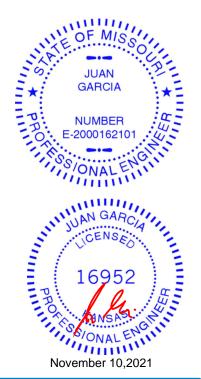
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 2-3=-264/126, 3-4=-439/195, 4-5=-626/275, 5-6=-940/406

BOT CHORD 10-11=-199/477, 9-10=-199/477, 8-9=-199/477, 7-8=-199/477, 6-7=-199/477

WEBS 5-7=-216/368

- 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 right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) All plates are 2x4 MT20 unless otherwise indicated.
- 3) Gable requires continuous bottom chord bearing.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 11 except (jt=lb) 10=186, 9=172, 6=337, 8=185, 7=348.
- 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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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



Job Truss Truss Type Qty Ply Lot 143 HT 148735147 HT143 LAY8 **GABLE** Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Nov 9 15:17:12 2021 Page 1

Waverly, KS - 66871, Wheeler Lumber,

ID:Ej7EWovY_94Pzt7UVy1gWAz_t70-Tafe?hYFQfsFk?I0FoFMVlpPjZSWZA5CkWRo_SyKtSb

Scale = 1:58.6

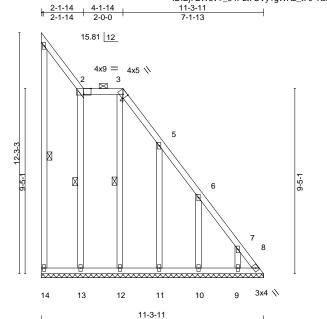


Plate Offsets (X,Y)--[2:0-4-8,Edge], [4:0-2-3,Edge] SPACING-**PLATES** LOADING (psf) CSI. DEFL. in (loc) I/defl L/d GRIP TCLL 25.0 Plate Grip DOL 1.15 TC 0.08 Vert(LL) 999 197/144 n/a n/a MT20 TCDL 10.0 Lumber DOL 1.15 ВС 0.08 Vert(CT) n/a n/a 999 **BCLL** 0.0 Rep Stress Incr YES WB 0.14 Horz(CT) 0.01 8 n/a n/a Code IRC2018/TPI2014 FT = 10% **BCDL** 10.0 Weight: 79 lb Matrix-S

11-3-11

LUMBER-

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

WEBS

TOP CHORD **BOT 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.): 2-4.

Rigid ceiling directly applied or 10-0-0 oc bracing. 1-14, 2-13, 3-12 1 Row at midpt

REACTIONS. All bearings 11-3-11.

Max Horz 14=-477(LC 9) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 14 except 8=-243(LC 7), 12=-227(LC 9), 11=-192(LC 9), 10=-173(LC

9). 9=-152(LC 9)

Max Grav All reactions 250 lb or less at joint(s) 14, 13, 12, 11, 10, 9 except 8=606(LC 9)

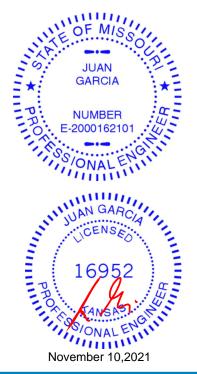
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 4-5=-251/112, 5-6=-444/201, 6-7=-621/276, 7-8=-763/333

BOT CHORD 13-14=-201/476, 12-13=-201/476, 11-12=-201/476, 10-11=-201/476, 9-10=-201/476,

8-9=-201/476 WEBS 3-12=-156/250

- 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 right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Provide adequate drainage to prevent water ponding.
- 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.
- 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) 14 except (jt=lb) 8=243, 12=227, 11=192, 10=173, 9=152.
- 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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Job Truss Truss Type Qty Ply Lot 143 HT 148735148 HT143 LAY9 **GABLE**

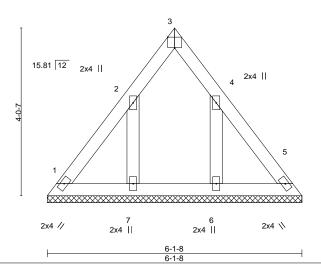
Wheeler Lumber, Waverly, KS - 66871,

Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Nov 9 15:17:13 2021 Page 1 ID:Ej7EWovY_94Pzt7UVy1gWAz_t70-ymD0C1ZtBz?6M9tCpVnb1zLbvzpele6MzAALWvyKtSa

3-0-12 3-0-12

3x4 =





_Plate Off	sets (X,Y)	[3:Edge,0-3-2]										
LOADIN	\	SPACING-	2-0-0	CSI.	0.05	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15		0.05	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.03	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	5	n/a	n/a	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	FT 400/
BCDL	10.0	Code IRC2018/TF	12014	Matri	x-P						Weight: 23 lb	FT = 10%

LUMBER-

TOP CHORD 2x4 SPF No.2 **BOT CHORD** 2x4 SPF No.2 **OTHERS** 2x4 SPF No.2 BRACING-

TOP CHORD **BOT CHORD** Structural wood sheathing directly applied or 6-0-0 oc purlins.

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

REACTIONS. All bearings 6-1-8.

(lb) -Max Horz 1=-103(LC 4)

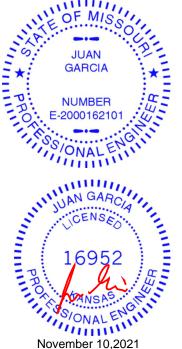
Max Uplift All uplift 100 lb or less at joint(s) 1, 5 except 7=-149(LC 8), 6=-148(LC 9)

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-

- 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
- 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) 7=149 6=148
- 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.





Job Truss Truss Type Qty Ply Lot 143 HT 148735149 HT143 R1 Half Hip Girder **Z** Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Nov 9 15:17:14 2021 Page 1 Wheeler Lumber, Waverly, KS - 66871, ID:Ej7EWovY_94Pzt7UVy1gWAz_t70-QynPPMaWyG7zzJSPNDlqaAuavNxy1tTVCqwv2LyKtSZ

6-6-13

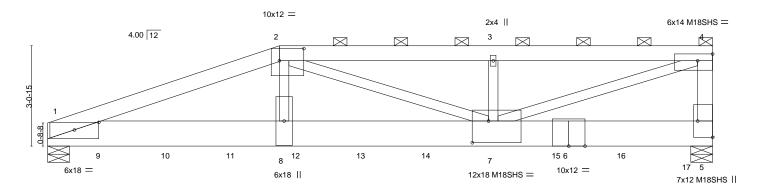
Scale = 1:35.4

6-8-13

Structural wood sheathing directly applied or 3-6-12 oc purlins,

except end verticals, and 2-0-0 oc purlins (3-9-1 max.): 2-4.

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



		7-1-6				13-8-3					20-5-0	
		7-1-6		ı	(6-6-13		1			6-8-13	ı
Plate Offse	ets (X,Y)	[1:0-9-0,0-2-13], [2:0-9-0,	,0-4-8], [4:Edge	e,0-2-8], [5:E	dge,0-5-8], [7:0-6-0,0-8-0]						
LOADING	(psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.80	Vert(LL)	-0.30	7-8	>795	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.92	Vert(CT)	-0.53	7-8	>450	240	M18SHS	197/144
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.92	Horz(CT)	0.06	5	n/a	n/a		
BCDL	10.0	Code IRC2018/TF	PI2014	Matri	x-S	Wind(LL)	0.18	7-8	>999	240	Weight: 280 I	b FT = 10%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

2x6 SPF 1650F 1.4E TOP CHORD **BOT CHORD** 2x10 SP DSS WEBS 2x4 SPF No.2 *Except*

4-5: 2x6 SPF No.2, 2-7,4-7: 2x4 SPF 2100F 1.8E

REACTIONS. (size) 1=0-8-0, 5=0-8-0

Max Horz 1=83(LC 5)

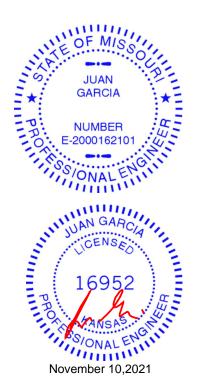
Max Uplift 1=-890(LC 4), 5=-95(LC 4) Max Grav 1=8861(LC 1), 5=10216(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. $1\hbox{-}2\hbox{--}19330/1745, 2\hbox{-}3\hbox{--}17184/1025, 3\hbox{-}4\hbox{--}17184/1025, 4\hbox{-}5\hbox{--}6569/432}$ TOP CHORD

BOT CHORD 1-8=-1626/18122. 7-8=-1670/18506. 5-7=-20/840

WEBS 2-8=-737/6490, 2-7=-1412/758, 3-7=-362/265, 4-7=-1069/17478

- 1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows: Top chords connected as follows: 2x6 - 2 rows staggered at 0-4-0 oc. Bottom chords connected as follows: 2x10 - 2 rows staggered at 0-5-0 oc. Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
- 2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- 3) 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
- 4) Provide adequate drainage to prevent water ponding.
- 5) All plates are MT20 plates unless otherwise indicated
- 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 except (jt=lb) 1=890.
- 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.



Continued on page 2

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16023 Swingley Ridge Rd Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Lot 143 HT	
HT143	R1	Half Hip Girder	1	2	Joh Reference (ontional)	148735149

Wheeler Lumber,

Waverly, KS - 66871,

8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Nov 9 15:17:14 2021 Page 2 ID:Ej7EWovY_94Pzt7UVy1gWAz_t70-QynPPMaWyG7zzJSPNDlqaAuavNxy1tTVCqwv2LyKtSZ

NOTES-

11) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 754 lb down and 153 lb up at 1-7-12, 347 lb down and 24 lb up at 1-7-12, 1123 lb down and 175 lb up at 3-7-12, 754 lb down and 182 lb up at 3-7-12, 967 lb down and 31 lb up at 5-7-12, 754 lb down and 94 lb up at 5-7-12, 967 lb down and 70 lb up at 7-7-12, 754 lb down and 109 lb up at 7-7-12, 1051 lb down and 190 lb up at 9-7-12, 754 lb down and 109 lb up at 9-7-12, 1057 lb down and 163 lb up at 11-7-12, 754 lb down and 109 lb up at 11-7-12, 1057 lb down and 23 lb up at 13-7-12, 754 lb down and 109 lb up at 13-7-12, 1057 lb down at 15-7-12, 754 lb down and 109 lb up at 15-7-12, 1053 lb down at 17-7-12, 754 lb down and 109 lb up at 17-7-12, and 1062 lb down at 19-7-12, and 759 lb down and 104 lb up at 19-7-12 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, 2-4=-70, 1-5=-20

Concentrated Loads (lb)

Vert: 7=-1812(F=-754, B=-1057) 9=-1101(F=-754, B=-347) 10=-1878(F=-754, B=-1123) 11=-1721(F=-754, B=-967) 12=-1721(F=-754, B=-967) 13=-1805(F=-754, B=-967) 12=-1721(F=-754, B=-967) 13=-1805(F=-754, B=-967) 13=-1805(F=-755, B=-967) 13=-1805(F=-754 B=-1051) 14=-1812(F=-754, B=-1057) 15=-1812(F=-754, B=-1057) 16=-1807(F=-754, B=-1053) 17=-1821(F=-759, B=-1062)

Job Truss Truss Type Qty Lot 143 HT 148735150 HT143 Valley V1 Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Nov 9 15:17:15 2021 Page 1

Wheeler Lumber, Waverly, KS - 66871,

ID:Ej7EWovY_94Pzt7UVy1gWAz_t70-u9Lndib8jaFqbT1bwwp36OQtcnT3mXyfQUfSbnyKtSY

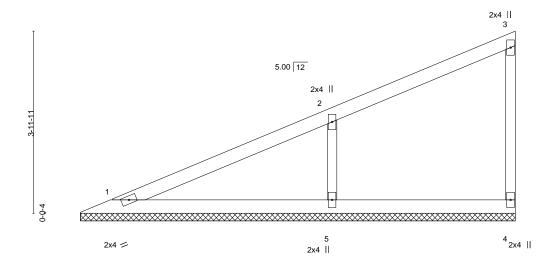
Structural wood sheathing directly applied or 6-0-0 oc purlins,

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

except end verticals.

9-6-8

Scale = 1:25.1



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 0.29	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL 1.15	BC 0.16	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr YES	WB 0.07	Horz(CT)	-0.00	4	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014	Matrix-S						Weight: 26 lb	FT = 10%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-TOP CHORD

REACTIONS.

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

2x3 SPF No.2 WEBS **OTHERS** 2x3 SPF No.2

(size) 1=9-5-14, 4=9-5-14, 5=9-5-14

Max Horz 1=159(LC 5)

Max Uplift 4=-23(LC 5), 5=-129(LC 8)

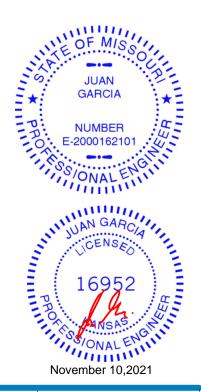
Max Grav 1=172(LC 1), 4=122(LC 1), 5=487(LC 1)

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

2-5=-370/182 WEBS

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Gable requires continuous bottom chord bearing.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4 except (jt=lb) 5=129
- 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.





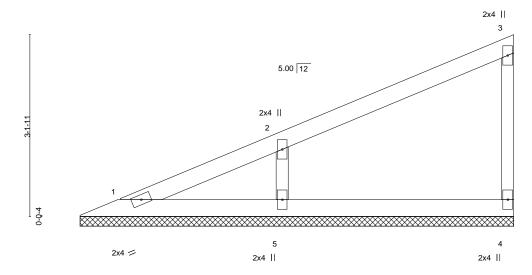
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Job Truss Truss Type Qty Lot 143 HT 148735151 HT143 V2 Valley Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Nov 9 15:17:16 2021 Page 1 Wheeler Lumber, Waverly, KS - 66871, ID:Ej7EWovY_94Pzt7UVy1gWAz_t70-MLu9q2bmUuNhDdcnUeKlfbz3uAq9V?Vof8P?7DyKtSX 7-6-8 7-6-8



LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d	PLATES GRIP
TCLL 25.0 TCDL 10.0	Plate Grip DOL 1.15 Lumber DOL 1.15	TC 0.19 BC 0.10	Vert(LL) n/a - n/a 999 Vert(CT) n/a - n/a 999	MT20 197/144
BCLL 0.0 *	Rep Stress Incr YES	WB 0.05	Vert(CT) n/a - n/a 999 Horz(CT) -0.00 4 n/a n/a	
BCDL 10.0	Code IRC2018/TPI2014	Matrix-P	11012(01) 0.00 1 1/4 1/4	Weight: 20 lb FT = 10%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

WEBS 2x3 SPF No.2 **OTHERS** 2x3 SPF No.2

REACTIONS. (size) 1=7-5-14, 4=7-5-14, 5=7-5-14

Max Horz 1=122(LC 5)

Max Uplift 4=-26(LC 8), 5=-102(LC 8)

Max Grav 1=81(LC 16), 4=141(LC 1), 5=384(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. 2-5=-299/153 WEBS

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Gable requires continuous bottom chord bearing.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4 except (jt=lb) 5=102
- 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 6-0-0 oc purlins,

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

except end verticals.

Scale = 1:19.9





Job Truss Truss Type Qty Lot 143 HT 148735152 HT143 V3 Valley

Wheeler Lumber, Waverly, KS - 66871, Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Nov 9 15:17:16 2021 Page 1

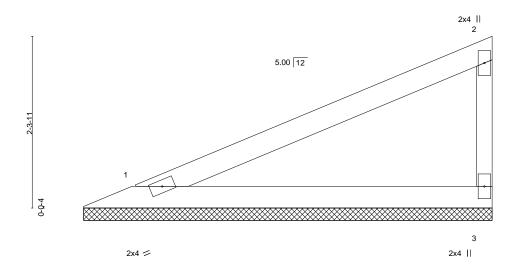
Structural wood sheathing directly applied or 5-6-8 oc purlins,

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

except end verticals.

ID:Ej7EWovY_94Pzt7UVy1gWAz_t70-MLu9q2bmUuNhDdcnUeKlfbz0PAoCV?Kof8P?7DyKtSX

Scale = 1:15.5



LOADING (psf) TCLL 25.0	SPACING- 2-0-0 Plate Grip DOL 1.15	CSI. TC 0.42	DEFL. in Vert(LL) n/a	(loc)	l/defl n/a	L/d 999	PLATES MT20	GRIP 197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.23	Vert(CT) n/a	-	n/a	999		
BCLL 0.0 * BCDL 10.0	Rep Stress Incr YES Code IRC2018/TPI2014	WB 0.00 Matrix-P	Horz(CT) -0.00	3	n/a	n/a	Weight: 14 lb	FT = 10%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

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

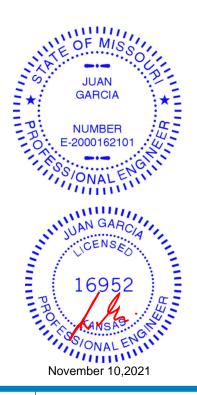
WEBS 2x3 SPF No.2

> 1=5-5-14, 3=5-5-14 (size) Max Horz 1=86(LC 5) Max Uplift 1=-31(LC 8), 3=-48(LC 8) Max Grav 1=211(LC 1), 3=211(LC 1)

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

NOTES-

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



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

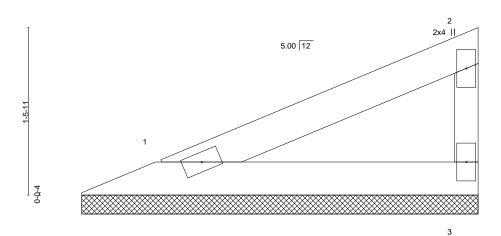
Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chorembers 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

AMSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job Truss Truss Type Qty Lot 143 HT 148735153 HT143 V4 Valley Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Nov 9 15:17:17 2021 Page 1 Wheeler Lumber, Waverly, KS - 66871, ID:Ej7EWovY_94Pzt7UVy1gWAz_t70-qXSX2OcOFBVYqmB_2LrXCpWGja9wESaxuo8ZfgyKtSW 3-6-8 3-6-8

Scale = 1:10.1



2x4 || 2x4 =

BRACING-

TOP CHORD

BOT CHORD

LOADIN	IG (psf)	SPACING- 2-0	-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL 1.1	15	TC	0.13	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL 1.1	15	BC	0.07	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr YE	S	WB	0.00	Horz(CT)	-0.00	3	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014	4	Matri	x-P	`					Weight: 8 lb	FT = 10%

LUMBER-

REACTIONS.

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

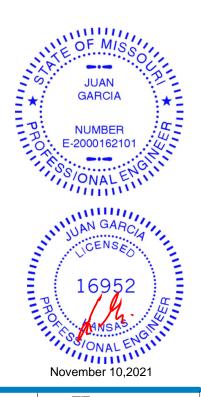
WEBS 2x3 SPF No.2

> 1=3-5-14, 3=3-5-14 (size) Max Horz 1=49(LC 5) Max Uplift 1=-18(LC 8), 3=-28(LC 8) Max Grav 1=121(LC 1), 3=121(LC 1)

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

NOTES-

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



Structural wood sheathing directly applied or 3-6-8 oc purlins,

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

except end verticals.



Job Truss Truss Type Qty Lot 143 HT 148735154 HT143 V5 Valley Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Nov 9 15:17:18 2021 Page 1 Wheeler Lumber, Waverly, KS - 66871, ID:Ej7EWovY_94Pzt7UVy1gWAz_t70-lk0vFkd00VdPSwmAc2Mmk02QG_V2zvq56Su6B6yKtSV 3-8-0 Scale = 1:10.4 2x4 || 5.00 12 0-0-4 3 2x4 || 2x4 / LOADING (psf) SPACING-2-0-0 CSI. DEFL. I/defI L/d **PLATES** GRIP (loc) 25.0 Plate Grip DOL 1.15 TC Vert(LL) 999 197/144 **TCLL** 0.14 n/a n/a MT20

Vert(CT)

Horz(CT)

BRACING-

TOP CHORD

BOT CHORD

n/a

-0.00

n/a

n/a

except end verticals.

3

999

n/a

Structural wood sheathing directly applied or 3-8-0 oc purlins,

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

Weight: 8 lb

FT = 10%

LUMBER-TOP CHORD BOT CHORD

TCDL

BCLL

BCDL

2x4 SPF No 2 2x4 SPF No.2

WEBS 2x3 SPF No.2

10.0

0.0

10.0

REACTIONS. (size) 1=3-7-6, 3=3-7-6 Max Horz 1=52(LC 5)

Max Uplift 1=-18(LC 8), 3=-29(LC 8) Max Grav 1=126(LC 1), 3=126(LC 1)

Lumber DOL

Rep Stress Incr

Code IRC2018/TPI2014

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

ВС

WB

Matrix-P

0.07

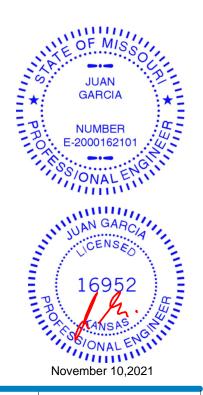
0.00

- 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.

1.15

YES

- 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.





Job Truss Truss Type Qty Lot 143 HT 148735155 HT143 V6 Valley

Wheeler Lumber, Waverly, KS - 66871, Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Nov 9 15:17:18 2021 Page 1

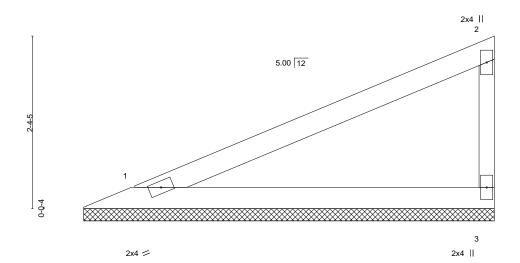
Structural wood sheathing directly applied or 5-8-0 oc purlins,

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

except end verticals.

ID:Ej7EWovY_94Pzt7UVy1gWAz_t70-lk0vFkd00VdPSwmAc2Mmk02MV_TTzvq56Su6B6yKtSV 5-8-0

Scale = 1:15.8



LOADIN TCLL	25.Ó	Plate Grip DOL	-0-0 1.15	CSI.	0.44	DEFL. Vert(LL)	in n/a	(loc)	l/defl n/a	L/d 999	PLATES MT20	GRIP 197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.24	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/TPI20)14	Matri	x-P						Weight: 14 lb	FT = 10%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

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

WEBS 2x3 SPF No.2

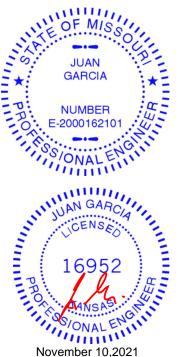
> 1=5-7-6, 3=5-7-6 (size) Max Horz 1=88(LC 5) Max Uplift 1=-32(LC 8), 3=-49(LC 8)

Max Grav 1=216(LC 1), 3=216(LC 1)

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

NOTES-

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





Job Truss Truss Type Qty Lot 143 HT 148735156 HT143 V7 Valley

Wheeler Lumber, Waverly, KS - 66871,

Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Nov 9 15:17:20 2021 Page 1 ID:Ej7EWovY_94Pzt7UVy1gWAz_t70-E68ggQeHX6t7hEvZjTPEpR8lpoB4RpTOamNDG?yKtST

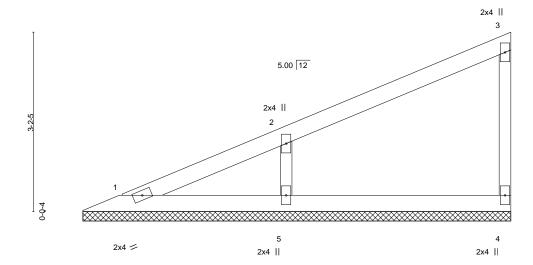
Structural wood sheathing directly applied or 6-0-0 oc purlins,

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

except end verticals.

7-8-0 7-8-0

Scale = 1:20.5



LOADIN	\(\(\)	SPACING- 2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL 1.15	TC 0.20	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL 1.15	BC 0.10	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr YES	WB 0.05	Horz(CT)	-0.00	4	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014	Matrix-P						Weight: 20 lb	FT = 10%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

OTHERS 2x3 SPF No.2

(size) 1=7-7-6, 4=7-7-6, 5=7-7-6

Max Horz 1=124(LC 5)

Max Uplift 4=-25(LC 8), 5=-103(LC 8)

Max Grav 1=86(LC 16), 4=140(LC 1), 5=389(LC 1)

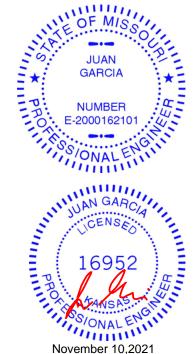
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

2-5=-303/155 WEBS

NOTES-

REACTIONS.

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Gable requires continuous bottom chord bearing.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4 except (jt=lb) 5=103
- 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.





Job Truss Truss Type Qty Lot 143 HT 148735157 HT143 V8 Valley Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Nov 9 15:17:20 2021 Page 1 Wheeler Lumber, Waverly, KS - 66871,

ID:Ej7EWovY_94Pzt7UVy1gWAz_t70-E68ggQeHX6t7hEvZjTPEpR8kYoBDRpoOamNDG?yKtST

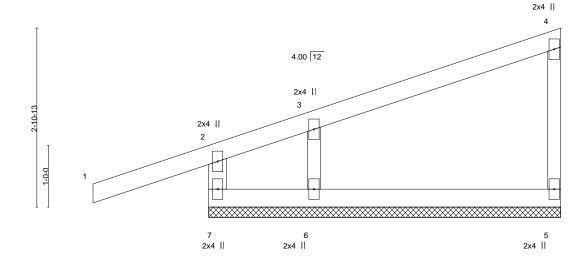
Structural wood sheathing directly applied or 5-8-8 oc purlins,

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

except end verticals.

-1-10-8 5-8-8 1-10-8 5-8-8

Scale = 1:18.7



LOADING (psf) SPACING-2-0-0 CSI. DEFL. I/defI L/d **PLATES** GRIP (loc) TCLL 25.0 Plate Grip DOL 1.15 TC Vert(LL) 0.01 120 197/144 0.28 n/r MT20 **TCDL** 10.0 Lumber DOL 1.15 ВС 0.09 Vert(CT) -0.01 n/r 120 **BCLL** 0.0 Rep Stress Incr YES WB 0.03 Horz(CT) -0.00 5 n/a n/a Code IRC2018/TPI2014 BCDL 10.0 Matrix-R Weight: 19 lb FT = 10%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

OTHERS

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

4-5: 2x3 SPF No.2 2x3 SPF No.2

REACTIONS.

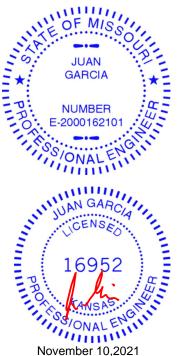
(size) 7=5-8-8, 5=5-8-8, 6=5-8-8

Max Horz 7=124(LC 5)

Max Uplift 7=-102(LC 4), 5=-28(LC 4), 6=-76(LC 8) Max Grav 7=248(LC 1), 5=153(LC 1), 6=232(LC 1)

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

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; 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) 5, 6 except (jt=lb) 7=102
- 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.





Job Truss Truss Type Qty Lot 143 HT 148735158 HT143 V9 Valley Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Nov 9 15:17:21 2021 Page 1 Wheeler Lumber, Waverly, KS - 66871, ID:Ej7EWovY_94Pzt7UVy1gWAz_t70-jJi2tmfvIQ?_JOUIHBwTMfgreBUYAGZXpQ6moRyKtSS Scale = 1:14.2 2x4 || 2 4.00 12

LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.51	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.28	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/TPI	2014	Matri	x-P						Weight: 15 lb	FT = 10%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-TOP CHORD BOT CHORD

2x4 SPF No 2 2x4 SPF No.2

0-0-4

WEBS 2x3 SPF No.2

REACTIONS. 1=6-1-12, 3=6-1-12 (size)

Max Horz 1=77(LC 5) Max Uplift 1=-38(LC 4), 3=-49(LC 8) Max Grav 1=232(LC 1), 3=232(LC 1)

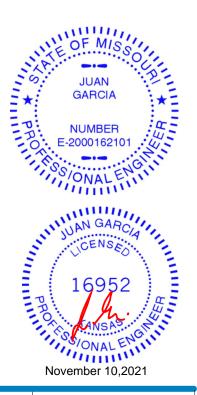
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-

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

2x4 =

- 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.



3

2x4 |

Structural wood sheathing directly applied or 6-2-8 oc purlins,

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

except end verticals.



Symbols

PLATE LOCATION AND ORIENTATION



Center plate on joint unless x, y offsets are indicated.
Dimensions are in ft-in-sixteenths.
Apply plates to both sides of truss and fully embed teeth.



For 4 x 2 orientation, locate plates 0- $\frac{1}{16}$ from outside edge of truss.

This symbol indicates the required direction of slots in connector plates.

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

PLATE SIZE

4 × 4

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

LATERAL BRACING LOCATION



Indicated by symbol shown and/or by text in the bracing section of the output. Use T or I bracing if indicated.

BEARING



Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur.

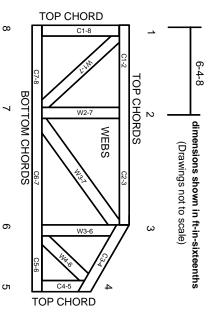
Min size shown is for crushing only

Industry Standards:

National Design Specification for Metal Plate Connected Wood Truss Construction. Design Standard for Bracing.
Building Component Safety Information, Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses.

ANSI/TPI1: DSB-89:

Numbering System



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

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

PRODUCT CODE APPROVALS

ICC-ES Reports:

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

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

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

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MiTek Engineering Reference Sheet: MII-7473 rev. 5/19/2020

General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

- Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI
- Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves may require bracing, or alternative Tor I bracing should be considered.
- Never exceed the design loading shown and never stack materials on inadequately braced trusses.

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- Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
- Cut members to bear tightly against each other.

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- Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TPI 1.
- Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI 1.
- Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.

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Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber

9

- Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
- Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
- Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
- Top chords must be sheathed or purlins provided at spacing indicated on design.
- Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
- Connections not shown are the responsibility of others
- Do not cut or alter truss member or plate without prior approval of an engineer.
- 17. Install and load vertically unless indicated otherwise.
- Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use.
- Review all portions of this design (front, back, words and pictures) before use. Reviewing pictures alone is not sufficient.
- 20. Design assumes manufacture in accordance with ANSI/TPI 1 Quality Criteria.
- 21. The design does not take into account any dynamic or other loads other than those expressly stated.