

RE: 210402 Lot 138 HT MiTek USA, Inc. 16023 Swingley Ridge Rd Chesterfield, MO 63017 314-434-1200

Site Information:

Customer: Project Name: 210402

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: ASCE716LowRise Wind Speed: 115 mph Roof Load: 45.0 psf Floor Load: N/A psf

This package includes 71 individual, dated Truss Design Drawings and 0 Additional Drawings.

No.	Seal#	Truss Name	Date	No.	Seal#	Truss Name	Date
1	145767974	A1	4/22/2021	21	145767994	D5	4/22/2021
2	145767975	A4	4/22/2021	22	145767995	D6	4/22/2021
3	145767976	A5	4/22/2021	23	145767996	D7	4/22/2021
4	145767977	A6	4/22/2021	24	145767997	E1	4/22/2021
5	145767978	A7	4/22/2021	25	145767998	E2	4/22/2021
6	145767979	A8	4/22/2021	26	145767999	E3	4/22/2021
7	145767980	B1	4/22/2021	27	145768000	E4	4/22/2021
8	145767981	B2	4/22/2021	28	145768001	E5	4/22/2021
9	145767982	B3	4/22/2021	29	145768002	G1	4/22/2021
10	145767983	B4	4/22/2021	30	145768003	G2	4/22/2021
11	145767984	C7	4/22/2021	31	145768004	G3	4/22/2021
12	145767985	C8	4/22/2021	32	145768005	G4	4/22/2021
13	145767986	C9	4/22/2021	33	145768006	J1	4/22/2021
14	145767987	C10	4/22/2021	34	145768007	J2	4/22/2021
15	145767988	C11	4/22/2021	35	145768008	J3	4/22/2021
16	145767989	C12	4/22/2021	36	145768009	J4	4/22/2021
17	145767990	C13	4/22/2021	37	I45768010	J5	4/22/2021
18	145767991	C14	4/22/2021	38	145768011	J6	4/22/2021
19	145767992	D3	4/22/2021	39	I45768012	J7	4/22/2021
20	145767993	D4	4/22/2021	40	I45768013	J8	4/22/2021

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.





RELEASE FOR CONSTRUCTION	
AS NOTED ON PLANS REVIEW	
CODES ADMINISTRATION	
LEE'S SUMMIT, MISSOURI	
av.	

РΙ				
	DATE			

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

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Sta	te:

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42	145768015	J10	4/22/2021
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44	145768017	J12	4/22/2021
45	145768018	J13	4/22/2021
46	145768019	J14	4/22/2021
47	145768020	J15	4/22/2021
48	145768021	J16	4/22/2021
49	145768022	J17	4/22/2021
50	145768023	LAY1	4/22/2021
51	145768024	LAY2	4/22/2021
52	145768025	LAY3	4/22/2021
53	145768026	LAY4	4/22/2021
54	145768027	LAY5	4/22/2021
55	145768028	LAY6	4/22/2021
56	145768029	P1	4/22/2021
57	145768030	V1	4/22/2021
58	145768031	V2	4/22/2021
59	145768032	V3	4/22/2021
60	145768033	V4	4/22/2021
61	145768034	V5	4/22/2021
62	145768035	V6	4/22/2021
63	145768036	V7	4/22/2021
64	145768037	V8	4/22/2021
65	145768038	V9	4/22/2021
66	145768039	V10	4/22/2021
67	145768040	V11	4/22/2021
68	145768041	V12	4/22/2021
69	145768042	V13	4/22/2021
70	145768043	V14	4/22/2021
71	145768044	V15	4/22/2021



RELEASE FOR CONSTRUCTION
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LEE'S SUMMIT, MISSOURI

BY______
DATE______

RE: 210402 Lot 138 HT MiTek USA, Inc. 16023 Swingley Ridge Rd Chesterfield, MO 63017 314-434-1200

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Customer: Project Name: 210402

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Address: Subdivision:
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The truss drawing(s) referenced above have been prepared by

MiTek USA, Inc under my direct supervision

based on the parameters provided by Wheeler - Waverly.

Truss Design Engineer's Name: Garcia, Juan

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

Missouri COA: 001193

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





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Project Name: 210402

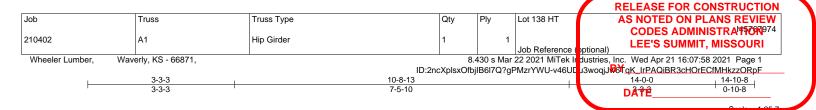
Project Customer: Lot/Block: Address:

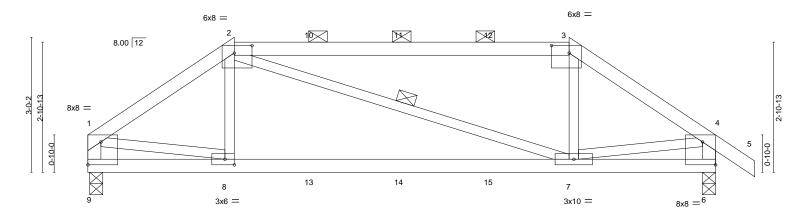
Subdivision:

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61	145768034	V5	4/22/2021
62	145768035	V6	4/22/2021
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70	145768043	V14	4/22/2021
71	145768044	V15	4/22/2021





	0-Q-8	3-3-3	II.			10-8-13				1	14-0-0	
	0-0-8	3-2-11	II.			7-5-10				1	3-3-3	ı
Plate Offs	sets (X,Y)	[1:Edge,0-6-2], [2:0-4-12,0	2-0], [3:0-4-	12,0-2-0], [6:	Edge,0-6-2],	[8:0-2-8,0-1-8]						
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	0.88	Vert(LL)	-0.10	7-8	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.62	Vert(CT)	-0.22	7-8	>732	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.36	Horz(CT)	0.01	6	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI	2014	Matrix	k-S	Wind(LL)	0.03	7-8	>999	240	Weight: 51 lb	FT = 10%

BOT CHORD

WEBS

LUMBER-BRACING-TOP CHORD

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

2x4 SPF No.2

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

1-9,4-6: 2x4 SPF No.2

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

Max Horz 9=-88(LC 4)

Max Uplift 9=-213(LC 8), 6=-237(LC 9) Max Grav 9=918(LC 1), 6=995(LC 1)

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

TOP CHORD 1-2=-1255/281, 2-3=-1013/275, 3-4=-1250/280, 1-9=-923/203, 4-6=-1001/226

BOT CHORD 7-8=-278/1020

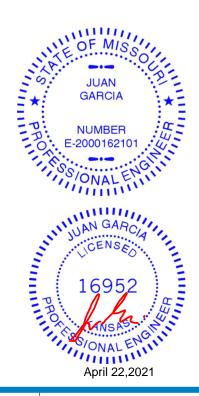
WEBS 2-8=0/306, 3-7=0/307, 1-8=-252/1015, 4-7=-279/1042

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) 9=213, 6=237
- 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) 99 lb down and 80 lb up at 5-0-0, and 99 lb down and 80 lb up at 7-0-0, and 99 lb down and 80 lb up at 9-0-0 on top chord, and 207 lb down and 108 lb up at 3-3-3. 31 lb down at 5-0-0, 31 lb down at 7-0-0, and 31 lb down at 9-0-0, and 207 lb down and 108 lb up at 10-8-13 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 4-9-11 oc purlins,

except end verticals, and 2-0-0 oc purlins (4-8-11 max.): 2-3.

2-7

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

1 Row at midpt

Continued on page 2

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

Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or 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 138 HT	
210402	A1	Hip Girder	1	1		
					Job Reference (ptional)
Wheeler Lumber, W	averly, KS - 66871,		8.4	430 s Mar	22 2021 MiTek Ir	dustries,

RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW CODES ADMINISTRATION 1974 **LEE'S SUMMIT, MISSOURI**

8.430 s Mar 22 2021 MiTek Industries, Inc. Wed Apr 21 16:07:58 2021 Page 2 ID:2ncXplsxOfbjlB6l7Q?gPMzrYWU-v46UL J3woqjJRXfqK_IrPAQiBR3cHOrECfMHkzzORpE

DATE_

LOAD	CASE(S) Standard
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Uniform Loads (plf)

Vert: 1-2=-70, 2-3=-70, 3-4=-70, 4-5=-70, 6-9=-20 Concentrated Loads (lb)

Vert: 8=-207(F) 7=-207(F) 10=-42(F) 11=-42(F) 12=-42(F) 13=-23(F) 14=-23(F) 15=-23(F)

RELEASE FOR CONSTRUCTION Job Truss Truss Type Qty Lot 138 HT AS NOTED ON PLANS REVIEW CODES ADMINISTRA 1410 NO 15 210402 **A4** Half Hip Girder LEE'S SUMMIT, MISSOURI Job Reference (optional)

8.430 s Mar 22 2021 MiTek Industries, Inc. Wed Apr 21 16:07:59 2021 Page 1 Wheeler Lumber, Waverly, KS - 66871, YZ7rAYEX1thp4xOzuSrQw0nPORJ5gGPzORpE ID:2ncXplsxOfbjlB6l7Q?gPMzrYWU-OGfsRE -0-10-8 0-10-8 11-2-0 6-7-12 4-6-4 DATE 6x8 = 4 \times 8.00 12 3x4 = 0-10-0 0-7-4 5 🗵 8 10 11 6 6x8 II 3x10 II 5x12 = 11-2-0 6-7-12 Plate Offsets (X,Y)--[2:Edge,0-2-3], [3:0-4-0,0-1-9], [6:0-6-4,0-1-8] SPACING-**PLATES GRIP** LOADING (psf) CSI. DEFL. in (loc) I/def L/d Plate Grip DOL TCLL 25.0 1.15 TC 0.79 Vert(LL) -0.07 2-6 >999 360 MT20 197/144 TCDL 10.0 Lumber DOL 1.15 BC 0.56 Vert(CT) -0.13 2-6 >999 240 **BCLL** 0.0 Rep Stress Incr NO WB 0.59 Horz(CT) 0.01 5 n/a n/a BCDL Code IRC2018/TPI2014 Wind(LL) Weight: 136 lb FT = 10% 10.0 Matrix-S 0.03 2-6 >999 240 LUMBER-BRACING-TOP CHORD 2x4 SPF No.2 TOP CHORD Structural wood sheathing directly applied or 5-7-1 oc purlins, 2x8 SP DSS **BOT CHORD** except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 3-4. WEBS 2x4 SPF No.2 **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc bracing **OTHERS** 2x4 SPF No.2 WEDGE Left: 2x4 SPF No.2 REACTIONS. (size) 5=0-3-8 (req. 0-3-13), 2=0-3-8 (req. 0-3-11)

Max Horz 2=154(LC 24)

Max Uplift 5=-103(LC 5)

Max Grav 5=4868(LC 2), 2=4677(LC 2)

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

TOP CHORD 2-3=-3614/49

Continus polyosibility co2 others.

BOT CHORD 2-6=-80/2855, 5-6=-80/2709 3-6=-8/4738, 3-5=-4005/74 **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: 2x8 - 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) Unbalanced roof live loads have been considered for this design.
- 4) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 5) Provide adequate drainage to prevent water ponding.
- 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) WARNING: Required bearing size at joint(s) 5, 2 greater than input bearing size.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 5=103
- 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 12) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1451 lb down at 0-8-0, 1439 lb down and 39 lb up at 2-8-0, 1441 lb down and 37 lb up at 4-8-0, 1441 lb down and 37 lb up at 6-8-0, and 1441 lb down and 37 lb up at 8-8-0, and 1449 lb down and 30 lb up at 10-10-8 on bottom chord. The design/selection of such connection device(s) is the

GARCIA NUMBER E-2000162101 16952

TANSAS ONALE April 22



						R	ELEASE FOR CONSTRUCTION
Job	Truss	Truss Type	Qty	Ply	Lot 138 HT	Į.	AS NOTED ON PLANS REVIEW
040400		II-KIE-Ci-d					CODES ADMINISTRA 110 NO 10 TO
210402	A4	Half Hip Girder	1	2	Job Reference (ptional)	LEE'S SUMMIT, MISSOURI
	· <u>.</u>						

Wheeler Lumber, Waverly, KS - 66871, 8.430 s Mar 22 2021 MiTek II dustries, Inc. Wed Apr 21 16:07:59 2021 Page 2 ID:2ncXplsxOfbjlB6l7Q?gPMzrYWU-OGfsRE YZ7rAY 21 thp4xQzuSrQw0nPORJ5qGPzORpE

IOAD	CVGE(G)	Standard

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, 2-5=-20

Concentrated Loads (lb)

Vert: 5=-1383(B) 6=-1375(B) 8=-1378(B) 9=-1373(B) 10=-1375(B) 11=-1375(B)



RELEASE FOR CONSTRUCTION Job Truss Truss Type Qty Lot 138 HT AS NOTED ON PLANS REVIEW CODES ADMINISTRA 1500 1976 210402 **A5** Roof Special LEE'S SUMMIT, MISSOURI Job Reference Optional)

8.430 s Mar 22 2021 MiTek Industries, Inc. Wed Apr 21 16:08:00 2021 Page 1 Wheeler Lumber, Waverly, KS - 66871, 4AKRz1A0dDRPLJUbV7sFoklB2XfzrNorzORpD ID:2ncXplsxOfbjIB6I7Q?gPMzrYWU-sSDEe -0-10-8 0-10-8 13-11-0 6-8-3 DATE 6x8 = 3x4 = 6x6 II 3 4 8.00 12 5-2-6 8 9 7 6 3x10 || 3x4 = 4x5 = 7-0-0 7-0-0 6-11-0 Plate Offsets (X,Y)--[2:Edge,0-0-3], [3:0-4-0,Edge] SPACING-LOADING (psf) CSI. DEFL. in (loc) I/defI L/d **PLATES** GRIP TCLL 25.0 Plate Grip DOL 1.15 TC 0.55 Vert(LL) -0.05 2-7 >999 360 197/144 MT20 TCDL 10.0 Lumber DOL 1.15 BC 0.39 Vert(CT) -0.11 2-7 >999 240 **BCLL** 0.0 Rep Stress Incr YES WB 0.82 Horz(CT) 0.08 9 n/a n/a Code IRC2018/TPI2014 FT = 10% **BCDL** 10.0 Wind(LL) 0.03 2-7 >999 240 Weight: 63 lb Matrix-S LUMBER-BRACING-2x6 SPF No.2 *Except* TOP CHORD TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, 4-5: 2x4 SPF No.2 except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 3-4, 4-5. **BOT CHORD** 2x4 SPF No.2 **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc bracing WEBS 2x3 SPF No.2 **OTHERS** 2x4 SPF No.2

WEDGE Left: 2x3 SPF No.2

REACTIONS.

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

Max Horz 2=172(LC 8)

Max Uplift 2=-75(LC 8), 9=-101(LC 9) Max Grav 2=688(LC 1), 9=587(LC 1)

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

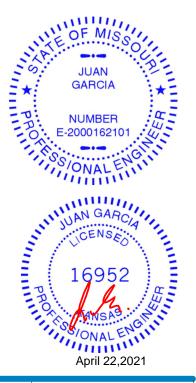
2-3=-685/34, 3-4=-417/65, 6-8=-29/378, 5-8=-29/378 TOP CHORD

BOT CHORD 2-7=-89/472, 6-7=-93/470

3-7=-105/337, 4-7=-189/268, 4-6=-519/102, 5-9=-592/102 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.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Bearing at joint(s) 9 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2 except (it=lb) 9=101.
- 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.







RELEASE FOR CONSTRUCTION Job Truss Truss Type Qty Lot 138 HT AS NOTED ON PLANS REVIEW CODES ADMINISTRA 1500 1977 210402 A6 Hip LEE'S SUMMIT, MISSOURI Job Reference (optional) 8.430 s Mar 22 2021 MiTek Ir dustries, Inc. Wed Apr 21 16:08:01 2021 Page 1 Wheeler Lumber, Waverly, KS - 66871, 5p5l5un 2 26sY0p2KHe9CUp9hudaxKHzORpC ID:2ncXplsxOfbjlB6l7Q?gPMzrYWU-Kfncrv -0-10-8 0-10-8 13-11-8 5-0-3 5-0-3 8-11-13 4-11-1**DATE** 3-11-10 4x9 = 4x9 = 8.00 12 1-2-2 9-0-4x9 || 0-10-0 0-10-5 8 7 2x4 || 3x4 = 6x10 M18SHS II 3-11-10 4-11-11 Plate Offsets (X,Y)--[3:0-4-8,0-1-3], [4:0-4-8,0-1-3], [5:Edge,0-3-8] SPACING-DEFL. **PLATES** GRIP LOADING (psf) CSI. in (loc) I/def L/d TC 197/144 TCLL 25.0 Plate Grip DOL 1.15 0.45 Vert(LL) -0.05 7-8 >999 360 MT20 TCDL 10.0 Lumber DOL 1.15 BC 0.38 Vert(CT) -0.09 7-8 >999 240 M18SHS 197/144 **BCLL** 0.0 Rep Stress Incr YES WB 0.07 Horz(CT) 0.01 6 n/a n/a BCDL Code IRC2018/TPI2014 Wind(LL) 240 Weight: 47 lb FT = 10% 10.0 Matrix-S 0.03 7-8 >999 LUMBER-**BRACING-**TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins,

BOT CHORD

2x4 SPF No.2 TOP CHORD **BOT CHORD** 2x4 SPF No.2 WEBS 2x3 SPF No.2 *Except* 2-9,5-6: 2x4 SPF No.2

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

Max Horz 9=119(LC 5)

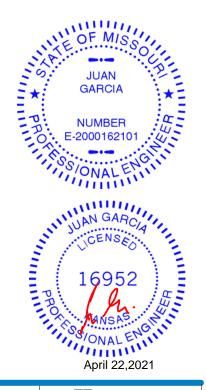
Max Uplift 9=-80(LC 8), 6=-56(LC 9) Max Grav 9=689(LC 1), 6=612(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. 2-3=-735/62, 3-4=-511/105, 4-5=-720/60, 2-9=-623/119, 5-6=-531/92 TOP CHORD

BOT CHORD 8-9=-63/517, 7-8=-64/515, 6-7=-8/513

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



except end verticals, and 2-0-0 oc purlins (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.

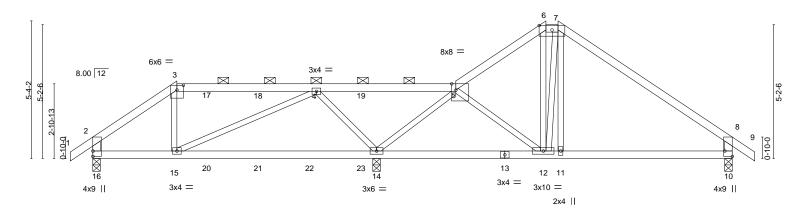
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall 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



RELEASE FOR CONSTRUCTION Job Truss Truss Type Qty Lot 138 HT AS NOTED ON PLANS REVIEW CODES ADMINISTRA 1410 NO 18 210402 Α7 Roof Special Girder LEE'S SUMMIT, MISSOURI Job Reference (optional) 8.430 s Mar 22 2021 MiTek Industries, Inc. Wed Apr 21 16:08:02 2021 Page 1 Wheeler Lumber, Waverly, KS - 66871, Rs2DIPIGVZpNnZ0bQg2S6DBGg7HKUtkzORpB ID:2ncXplsxOfbjlB6l7Q?gPMzrYWU-orL_3G 24-10-0 -0-10-8 0-10-8 8-8-3 5-5-0 18-0-13 25-8-8 0-10-8 3-3-3 3-3-3 5-5-0 3-6-0 0-5-10 DATE

5x12 =



	<u> </u>	3-3-3 3-3-3		·0-4 9-1	14-1-3 3-0-15	17-7-3		-0-13 -5-10	24-10-0	
Plate Offs	ets (X,Y)	[3:0-3-0,0-2-3], [5:0-1-15		. .		3-6-0	0	-5-10	6-9-3	
LOADING	· /	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)	-0.11 14-15	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC 0.52	Vert(CT)	-0.24 14-15	>539	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB 0.39	Horz(CT)	0.01 10	n/a	n/a		
BCDL	10.0	Code IRC2018/Ti	PI2014	Matrix-S	Wind(LL)	0.04 14-15	>999	240	Weight: 91 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*

2-16,8-10: 2x4 SPF No.2 (size) 16=0-3-8, 14=0-3-8, 10=0-3-8

Max Horz 16=-156(LC 6) Max Uplift 16=-200(LC 8), 14=-295(LC 8), 10=-176(LC 30) Max Grav 16=631(LC 1), 14=1564(LC 1), 10=594(LC 16)

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

 $2-3=-721/215,\ 3-4=-524/209,\ 4-5=-166/616,\ 5-6=-483/263,\ 6-7=-369/253,\ 7-8=-544/209,\ 4-5=-166/616,\ 5-6=-483/263,\ 6-7=-369/253,\ 7-8=-544/209,\ 4-5=-166/616,\ 5-6=-483/263,\ 6-7=-369/253,\ 7-8=-544/209,\ 4-5=-166/616,\ 5-6=-483/263,\ 6-7=-369/253,\ 7-8=-544/209,\ 4-5=-166/616,\ 5-6=-483/263,\ 6-7=-369/253,\ 7-8=-544/209,\ 4-5=-166/616,\ 5-6=-483/263,\ 6-7=-369/253,\ 7-8=-544/209,\ 6-7=-369/253,\ 7-8=-544/209,\ 6-7=-369/253,\ 7-8=-544/209,\ 6-7=-369/253,\ 7-8=-544/209,\ 6-7=-369/253,\ 7-8=-544/209,\ 6-7=-369/253,\ 7-8=-544/209,\ 6-7=-369/253,\ 7-8=-544/209,\ 6-7=-369/253,\ 7-8=-544/209,\ 6-7=-369/253,\ 7-8=-544/209,\ 6-7=-369/253,\ 7-8=-544/209,\ 6-7=-369/253,\ 7-8=-544/209,\ 6-7=-369/253,\ 7-8=-544/209,\ 6-7=-369/253,\ 7-8=-544/209,\ 6-7=-369/253,\ 7-8=-544/209,\ 6-7=-369/253,\ 7-8=-544/209,\ 6-7=-369/253,\ 7-8=-544/209,\ 7-8=$ TOP CHORD

2-16=-585/181 8-10=-542/223

BOT CHORD 15-16=-177/540, 12-14=-274/292, 11-12=-54/345, 10-11=-53/347

WEBS 4-15=-48/474, 4-14=-1034/401, 5-14=-899/167, 5-12=-58/287, 6-12=-288/369,

7-12=-467/210, 7-11=0/257

REACTIONS.

- 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) 16=200, 14=295, 10=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. 9) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 99 lb down and 80 lb up at 4-5-0, 99 lb down and 80 lb up at 6-5-0, and 99 lb down and 80 lb up at 8-5-0, and 99 lb down and 80 lb up at 10-5-0 on top chord, and 163 lb down and 88 lb up at 3-3-3, 31 lb down at 4-5-0, 31 lb down at 6-5-0, and 31 lb down at 8-5-0, and 31 lb down at
- 10-5-0 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

MIS O **GARCIA** NUMBER E-2000162101 ONALE 16952 PROMOTE STATE OF THE STA April 22,2021

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

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

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

Continued on page 2

MARNING - 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 138 HT
210402	A7	Roof Special Girder	1	1	Ioh Reference

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

Job Reference Optional)

8.430 s Mar 22 2021 MiTek Industries, Inc. Wed Apr 21 16:08:03 2021 Page 2

ID:2ncXplsxOfbjlB6l7Q?gPMzrYWU-G1vMGb73dMLc1uM6Xu06E7aPSoLyeWzLx32PAzORpA

DATE_

LOAD CASE(S) Standard

Wheeler Lumber,

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

Waverly, KS - 66871,

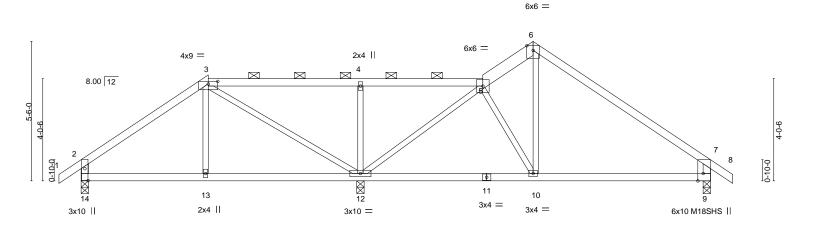
Vert: 1-2=-70, 2-3=-70, 3-5=-70, 5-6=-70, 6-7=-70, 7-8=-70, 8-9=-70, 10-16=-20

Concentrated Loads (lb)

Vert: 15=-163(F) 4=-42(F) 17=-42(F) 18=-42(F) 19=-42(F) 20=-23(F) 21=-23(F) 22=-23(F) 23=-23(F)

RELEASE FOR CONSTRUCTION Job Truss Truss Type Qty Lot 138 HT AS NOTED ON PLANS REVIEW CODES ADMINISTRA 1410 10979 210402 **A8** Roof Special LEE'S SUMMIT, MISSOURI Job Reference Optional)

8.430 s Mar 22 2021 MiTek Industries, Inc. Wed Apr 21 16:08:04 2021 Page 1 Wheeler Lumber, Waverly, KS - 66871, 7hOgTT<mark>B</mark>IX_gEPFeRgoSsASh1d7abpbxczORp9 ID:2ncXplsxOfbjlB6l7Q?gPMzrYWU-kETIU 17-10-0 25-8-8 0-10-8 0-10-8 15-10-3 24-10-0 5-0-3 5-0-3 7-0DATE 6-0-1 4-9-15 1-11-13



	-	5-0-3 5-0-3		11-0-4 6-0-1	17-10-0 6-9-12	-	24-10-0 7-0-0	
Plate Offset	s (X,Y)	[3:0-4-8,0-1-3], [9:0-3-8			0-9-12		7-0-0	
LOADING	(psf)	SPACING-	2-0-0	CSI.	DEFL. in (loc) l	/defl L/d	PLATES GRIP	
	25.0	Plate Grip DOL	1.15	TC 0.51	,	999 360	MT20 197/14	
TCDL BCLL	10.0 0.0 *	Lumber DOL Rep Stress Incr	1.15 YES	BC 0.34 WB 0.66	Vert(CT) -0.09 9-10 > Horz(CT) 0.01 9	999 240 n/a n/a	M18SHS 197/14	4
BCDL	10.0	Code IRC2018/	TPI2014	Matrix-S	Wind(LL) 0.02 9-10 >	999 240	Weight: 89 lb FT	= 10%

BOT CHORD

LUMBER-BRACING-TOP CHORD

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* 2-14,7-9: 2x4 SPF No.2

REACTIONS. (size) 14=0-3-8, 12=0-3-8, 9=0-3-8

Max Horz 14=-161(LC 6)

Max Uplift 14=-144(LC 8), 12=-107(LC 8), 9=-163(LC 9) Max Grav 14=501(LC 1), 12=1213(LC 1), 9=639(LC 1)

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

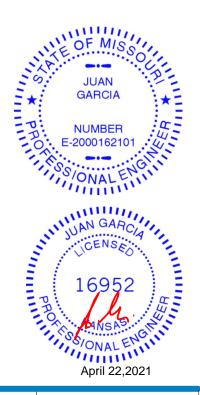
TOP CHORD 2-3=-454/159, 3-4=-34/296, 4-5=-33/295, 5-6=-473/229, 6-7=-605/184, 2-14=-451/174,

7-9=-583/210

BOT CHORD 13-14=-109/315, 12-13=-110/311, 10-12=-103/395, 9-10=-28/388

WEBS 3-12=-525/24, 4-12=-446/191, 5-12=-626/3

- 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) 14=144, 12=107, 9=163.
- 8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



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

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

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.

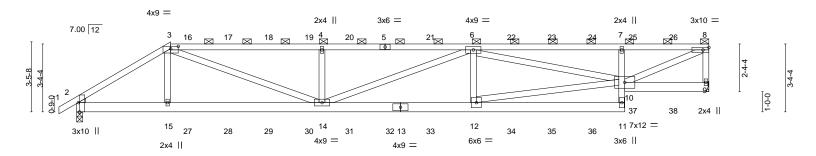
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall 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



RELEASE FOR CONSTRUCTION Job Truss Truss Type Qty Ply Lot 138 HT AS NOTED ON PLANS REVIEW CODES ADMINISTRA 1500 1980 210402 В1 Half Hip Girder LEE'S SUMMIT, MISSOURI Job Reference (optional)

8.430 s Mar 22 2021 MiTek Industries, Inc. Wed Apr 21 16:08:07 2021 Page 1 Wheeler Lumber, Waverly, KS - 66871, ID:2ncXplsxOfbjlB6l7Q?gPMzrYWU-9p8t6 zAagbr1 MZLNzyG4IJA39vuQhZGZ1FYxzORp6 -0-10-8 0-10-8 31-2-14 DATE 4-1-14 7-5-12 4-7-11 7-5-12 7-5-12



	I-7-11 I-7-11	12-1-8 7-5-12		19-7-4 7-5-12		-1-0 5-12	31-2-14 4-1-14	
Plate Offsets (X,Y)	[2:0-5-8,Edge], [3:0	-4-8,0-1-7]						
LOADING (psf) TCLL 25.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING- Plate Grip D Lumber DOL Rep Stress I Code IRC20	_ 1.15 ncr NO	CSI. TC 0.55 BC 0.55 WB 0.51 Matrix-S	Vert(CT) -(Horz(CT) (in (loc) I/defl 0.18 12-14 >999 0.33 12-14 >999 0.04 9 n/a 0.15 12-14 >999	L/d 360 240 n/a 240	PLATES MT20 Weight: 293 lb	GRIP 197/144 FT = 10%

BOT CHORD

LUMBER-BRACING-TOP CHORD

2x4 SPF No.2 *Except* TOP CHORD 3-5: 2x4 SPF 2100F 1.8E

BOT CHORD 2x6 SPF No.2 *Except* 7-11: 2x4 SPF No.2

WEBS 2x4 SPF No.2

WEDGE

Left: 2x3 SPF No.2

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

Max Horz 2=104(LC 26)

Max Uplift 9=-363(LC 5), 2=-350(LC 5) Max Grav 9=1914(LC 1), 2=2029(LC 1)

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

TOP CHORD 2-3=-3324/628, 3-4=-5007/968, 4-6=-5004/967, 6-7=-3436/685, 7-8=-3437/661,

8-9=-1739/368

BOT CHORD 2-15=-580/2695, 14-15=-579/2675, 12-14=-937/4864, 11-12=-115/741, 7-10=-554/247 WEBS

3-15=-23/445, 3-14=-508/2565, 4-14=-770/332, 6-12=-354/256, 10-12=-830/4161,

6-10=-1479/234, 8-10=-727/3712

NOTES-

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, 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) Refer to girder(s) for truss to truss connections.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 9=363, 2=350.
- 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

OdntiGreen breaking representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



OF MIS

GARCIA

NUMBER

E-2000162101

ONALES

16952

ANSAS

April 22,2021

April 22,2021

CIE

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

except end verticals, and 2-0-0 oc purlins (5-1-3 max.): 3-8.

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

						RELE
Job	Truss	Truss Type	Qty	Ply	Lot 138 HT	AS N
						C
210402	B1	Half Hip Girder	1	2		. IF

EASE FOR CONSTRUCTION NOTED ON PLANS REVIEW ODES ADMINISTRA 1410 10980 EE'S SUMMIT, MISSOURI

Job Reference Optional)

8.430 s Mar 22 2021 MiTek Industries, Inc. Wed Apr 21 16:08:07 2021 Page 2
ID:2ncXplsxOfbjlB6l7Q?gPMzrYWU-9p8t6zAagbr1 €MZLNzyG4lJA39vuQhZGZ1FYxzORp6

Wheeler Lumber,

12) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 96 lb down and 59 lb up at 5-5-4, 8 lb down and 59 lb up at 7-5-4, 98 lb down and 59 lb up at 11-5-4, 98 lb down and 59 lb up at 13-5-4, 98 lb down and 59 lb up at 15-4, 98 lb down and 1 17-5-4, 98 lb down and 59 lb up at 19-5-4, 98 lb down and 59 lb up at 29-5-4, and 99 lb down and 59 lb up at 23-5-4, 98 lb down and 59 lb up at 29-5-4, and 99 lb down and 59 lb up at 29-5-4, and 99 lb down and 59 lb up at 29-5-4. 60 lb up at 27-5-4, and 99 lb down and 60 lb up at 29-5-4 on top chord, and 202 lb down and 121 lb up at 4-7-11, 32 lb down at 5-5-4, 32 lb down at 7-5-4, 32 lb down at 9-5-4, 32 lb down at 11-5-4, 32 lb down at 13-5-4, 32 lb down at 15-5-4, 32 lb down at 17-5-4, 32 lb down at 19-5-4, 32 lb down at 21-5-4, 32 lb down at 23-5-4, 32 lb down a lb down at 25-5-4, and 32 lb down at 27-5-4, and 32 lb down at 29-5-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

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

Vert: 1-3=-70, 3-8=-70, 2-11=-20, 9-10=-20

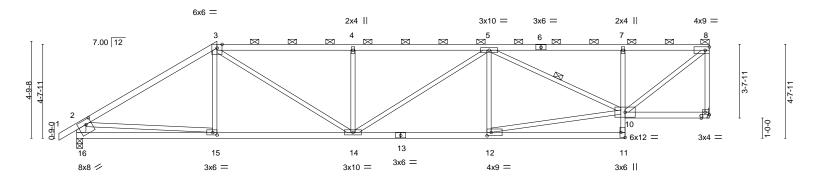
Waverly, KS - 66871,

Concentrated Loads (lb)

Vert: 5=-44(F) 15=-202(F) 6=-44(F) 12=-24(F) 16=-44(F) 17=-44(F) 18=-44(F) 19=-44(F) 20=-44(F) 21=-44(F) 22=-44(F) 23=-44(F) 24=-44(F) 25=-44(F) 26=-44(F) 2 27=-24(F) 28=-24(F) 29=-24(F) 30=-24(F) 31=-24(F) 32=-24(F) 33=-24(F) 34=-24(F) 35=-24(F) 36=-24(F) 37=-24(F) 38=-24(F)



RELEASE FOR CONSTRUCTION Job Truss Truss Type Qty Lot 138 HT AS NOTED ON PLANS REVIEW CODES ADMINISTRA 1500 1981 210402 B2 Half Hip LEE'S SUMMIT, MISSOURI Job Reference (optional) 8.430 s Mar 22 2021 MiTek Ir dustries, Inc. Wed Apr 21 16:08:09 2021 Page 1 Wheeler Lumber, Waverly, KS - 66871, qCC5llpBYn?QLVNZqtpwMGMsksWMdqzORp4 ID:2ncXplsxOfbjlB6l7Q?gPMzrYWU-5BGeXf 31-2-14 -0-10-8 0-10-8 20-4-6 DATE 4-1-14 6-11-2 6-8-10 6-8-10 6-8-10



	-	6-11-2 6-11-2		3-7-12 3-8-10	20-4-6 6-8-10	27-1-0 6-8-10	31-2-14 4-1-14	
Plate Offs	ets (X,Y)	[9:Edge,0-1-8], [11:Edge				0-0-10	4-1-14	
LOADING TCLL	(psf) 25.0	SPACING- Plate Grip DOL	2-0-0 1.15	CSI. TC 0.92	DEFL. in Vert(LL) -0.16 1	(loc) I/defl L/d 2-14 >999 360	PLATES GRIP MT20 197/144	1
TCDL BCLL	10.0 0.0 *	Lumber DOL Rep Stress Incr	1.15 1.15 YES	BC 0.64 WB 0.76	Vert(CT) -0.16 1 Vert(CT) -0.31 1 Horz(CT) 0.07		W120 197/144	
BCDL	10.0	Code IRC2018/T		Matrix-S	Wind(LL) 0.09 1		Weight: 123 lb FT = 1	10%

BOT CHORD

WEBS

LUMBER-BRACING-TOP CHORD

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

7-11: 2x3 SPF No.2 2x3 SPF No.2 *Except*

WEBS 2-16: 2x6 SPF No.2

(size) 9=Mechanical, 16=0-3-8

Max Horz 16=136(LC 5)

Max Uplift 9=-71(LC 5), 16=-10(LC 5) Max Grav 9=1389(LC 1), 16=1469(LC 1)

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

2-3=-2083/60, 3-4=-2503/114, 4-5=-2500/113, 5-7=-1529/83, 7-8=-1532/80, TOP CHORD

8-9=-1330/92, 2-16=-1405/46

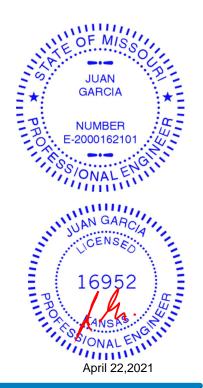
BOT CHORD 15-16=-178/666, 14-15=-113/1691, 12-14=-136/2313, 7-10=-410/99

WEBS 3-14=-115/1049, 4-14=-531/124, 10-12=-140/2199, 5-10=-879/29, 8-10=-112/1952,

NOTES-

REACTIONS.

- 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, 16.
- 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 3-1-0 oc purlins,

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

5-10

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

1 Row at midpt



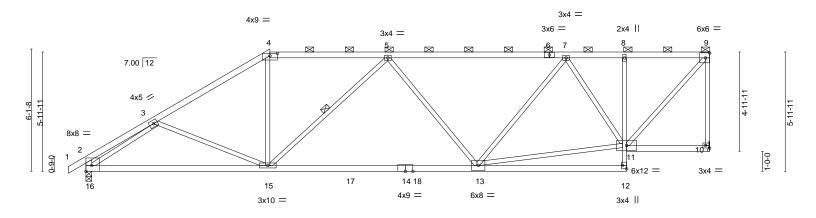
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

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



RELEASE FOR CONSTRUCTION Job Truss Truss Type Qty Lot 138 HT AS NOTED ON PLANS REVIEW CODES ADMINISTRA 1500 1982 210402 **B**3 Half Hip LEE'S SUMMIT, MISSOURI Job Reference (optional) 8.430 s Mar 22 2021 MiTek Ir dustries, Inc. Wed Apr 21 16:08:10 2021 Page 1 Wheeler Lumber, Waverly, KS - 66871, SzWDcliffy081VWfuiwlaH9_5jp?yWGv9GzORp3 ID:2ncXplsxOfbjlB6l7Q?gPMzrYWU-ZOq0k?(27-1-0 31-2-14 -0-10-8 0-10-8 3-5-15 5-8-10 5-10-15 8-11-2 3-0-6 4-1-14



9-2-9	19-7-1	27-1-0	31-2-14
9-2-9	10-4-8	' 7-5-15	4-1-14
Edge,0-3-8], [4:0-4-8,0-1-7], [10:Edg	e,0-1-8], [12:Edge,0-2-8]		
SPACING- 2-0-0	CSI DEEL	in (loc) I/defl I/d	PLATES GRIP
		(/	
Plate Grip DOL 1.15	1C 0.86 Vert(LL) -0.3	3 13-15 >999 360	MT20 197/144
Lumber DOL 1.15	BC 0.65 Vert(CT) -0.5	6 13-15 >664 240	
Rep Stress Incr YES	WB 0.74 Horz(CT) 0.0	6 10 n/a n/a	
Code IRC2018/TPI2014	Matrix-S Wind(LL) 0.0	6 13-15 >999 240	Weight: 128 lb FT = 10%
	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES	SPACING- 2-0-0 CSI. DEFL. Plate Grip DOL 1.15 TC 0.86 Vert(LL) -0.3 Lumber DOL 1.15 BC 0.65 Vert(CT) -0.5 Rep Stress Incr YES WB 0.74 Horz(CT) 0.0	SPACING- 2-0-0 CSI. DEFL. in (loc) l/defl L/d

TOP CHORD

BOT CHORD

WEBS

LUMBER-BRACING-

2x4 SPF No.2 *Except* TOP CHORD 4-6: 2x4 SPF 2100F 1.8E

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

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

WEBS 2x3 SPF No.2 *Except* 2-16: 2x4 SPF No.2

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

Max Horz 16=178(LC 5) Max Uplift 10=-73(LC 5)

Max Grav 10=1456(LC 2), 16=1519(LC 2)

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

TOP CHORD 2-3=-480/0, 3-4=-2066/35, 4-5=-1707/48, 5-7=-1876/33, 7-8=-1113/51, 8-9=-1123/51, 9-10=-1373/92, 2-16=-373/0

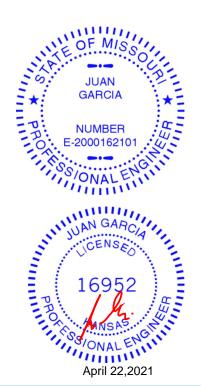
BOT CHORD 15-16=-174/1764, 13-15=-160/2026

4-15=0/709, 5-15=-594/161, 5-13=-332/109, 7-13=0/456, 11-13=-123/1509, WFBS

7-11=-924/82, 9-11=-85/1677, 3-16=-1730/76

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, 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) 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 3-0-1 oc purlins,

except end verticals, and 2-0-0 oc purlins (4-3-12 max.): 4-9.

5-15

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

1 Row at midpt



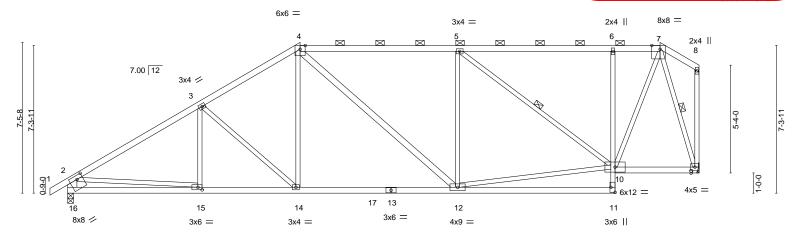
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RELEASE FOR CONSTRUCTION Job Truss Truss Type Qty Lot 138 HT AS NOTED ON PLANS REVIEW CODES ADMINISTRA 1500 1983 210402 В4 Hip LEE'S SUMMIT, MISSOURI Job Reference (optional) 8.430 s Mar 22 2021 MiTek Ir dustries, Inc. Wed Apr 21 16:08:11 2021 Page 1 Wheeler Lumber, Waverly, KS - 66871, D4kpLTEYKaC1uQwTwzgTfq9R9BA?ThizORp2 ID:2ncXplsxOfbjlB6l7Q?gPMzrYWU-1aOOyl 29-3-11 31-2-14 -0-10-8 0-10-8 27-1-0 6-6-9 4-11-8 7-9-8 7-9-8 1-11-3



		6-6-9	4-11-8			7-9-8			9-8	2-2-11 1-1	1-3
Plate Offse	ts (X,Y)	[7:0-4-15,Edge], [11:Ed	ge,0-2-8], [15:0	-2-8,0-1-8],	[16:0-3-8,0-2	!-4]					
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	0.88	Vert(LL)	-0.18 12-14	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.75	Vert(CT)	-0.30 12-14	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.78	Horz(CT)	0.06 9	n/a	n/a		
BCDL	10.0	Code IRC2018/	TPI2014	Mat	rix-S	Wind(LL)	0.05 12-14	>999	240	Weight: 145 lb	FT = 10%

TOP CHORD

BOT CHORD

WEBS

LUMBER-BRACING-

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

6-11: 2x3 SPF No.2 2x3 SPF No.2 *Except*

WEBS 4-12: 2x4 SPF No.2, 2-16: 2x6 SPF No.2

REACTIONS. (size) 16=0-3-8, 9=Mechanical

Max Horz 16=213(LC 5)

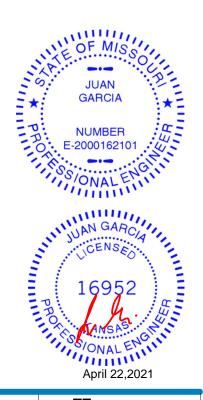
Max Uplift 16=-4(LC 8), 9=-22(LC 5) Max Grav 16=1530(LC 13), 9=1451(LC 2)

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

TOP CHORD 2-3=-2154/3, 3-4=-1840/40, 4-5=-1608/47, 5-6=-896/51, 6-7=-900/51, 2-16=-1413/42 **BOT CHORD** 15-16=-215/701, 14-15=-132/1815, 12-14=-114/1529, 6-10=-451/101, 9-10=-54/397 **WEBS** 3-14=-405/98, 4-14=0/544, 4-12=-123/276, 10-12=-120/1497, 5-10=-906/38,

7-10=-74/1398, 2-15=0/1213, 7-9=-1357/81

- 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, 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) 16, 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 3-6-12 oc purlins,

5-10, 7-9

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

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

1 Row at midpt

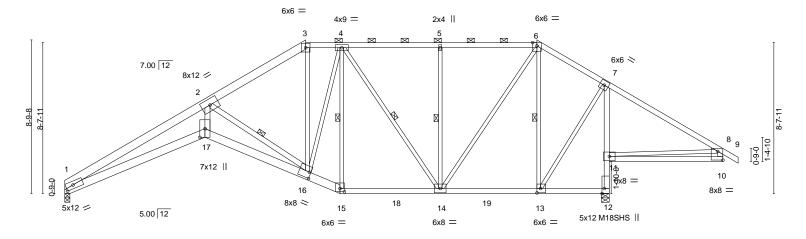
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ANSI/TP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



RELEASE FOR CONSTRUCTION Job Truss Truss Type Qty Lot 138 HT AS NOTED ON PLANS REVIEW CODES ADMINISTRA 1410 NO 84 210402 C7 Hip LEE'S SUMMIT, MISSOURI Job Reference (optional) 8.430 s Mar 22 2021 MiTek Ir dustries, Inc. Wed Apr 21 16:08:19 2021 Page 1 Wheeler Lumber, Waverly, KS - 66871, ID:2ncXplsxOfbjlB6l7Q?gPMzrYWU-o6tQ 4J5sHMAXLat2uAnlcoJEv8BikGK1QxuyFzORow 27-0-5 31-2 8-0-4 5-9-3 1-11-9 5-8-14 5-6-6 6-6-0



L		8-0-4	13-9-7	₁ 15-9-	·0 ₁ :	21-5-14	2	7-0-5	1	31-2-0	37-8-0	
1		8-0-4	5-9-3	1-11-	.9 '	5-8-14		5-6-6	ı	4-1-11	6-6-0	
Plate Offse	ets (X,Y)	[1:0-5-0,0-2-8], [10:Ed	ge,0-6-0], [12:0-3	3-8,Edge], [13	:0-2-8,0-3-0], [15:0-3-0,0-2-4]	, [16:0-1-	2,0-4-4], [17:0-	5-15,0-3-8]		
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	0.73	Vert(LL)	-0.44	17	>848	360	MT20	197/144
CDL	10.0	Lumber DOL	1.15	BC	0.97	Vert(CT)	-0.74	17	>498	240	M18SHS	197/144
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.98	Horz(CT)	0.51	12	n/a	n/a		
BCDL	10.0	Code IRC2018	/TPI2014	Matrix	k-S	Wind(LL)	0.29	17	>999	240	Weight: 190 lb	FT = 10%

BOT CHORD

WEBS

LUMBER-BRACING-TOP CHORD

2x4 SPF No.2 *Except* TOP CHORD 1-3: 2x6 SPF 1650F 1.4E **BOT CHORD** 2x4 SPF No.2 *Except*

2-17,2-16,8-10: 2x4 SPF No.2

1-17: 2x6 SPF 1650F 1.4E, 15-17: 2x6 SPF No.2

7-12: 2x4 SPF 2100F 1.8E **WEBS** 2x3 SPF No.2 *Except*

REACTIONS. (size) 1=0-3-8, 12=0-5-8

Max Horz 1=215(LC 5)

Max Uplift 1=-154(LC 8), 12=-185(LC 9)

Max Grav 1=1405(LC 23), 12=2229(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. 1-2=-5706/756, 2-3=-1710/230, 3-4=-1440/241, 4-5=-1080/166, 5-6=-1082/167, TOP CHORD

6-7=-560/128, 7-8=-105/653

BOT CHORD 1-17=-777/5291, 16-17=-726/4904, 15-16=-221/1446, 14-15=-201/1304, 13-14=-85/471, 12-13=-376/127, 11-12=-2231/223, 7-11=-2033/230, 10-11=-112/266

2-17=-482/4100, 2-16=-3902/721, 3-16=-56/612, 4-16=-99/695, 4-15=-488/124,

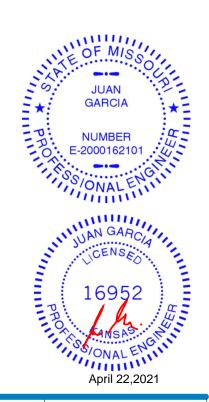
4-14=-482/90, 5-14=-453/183, 6-14=-167/1134, 6-13=-932/157, 7-13=-110/1394,

8-11=-743/276

NOTES-

WEBS

- 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, with BCDL = 10.0psf.
- 7) Bearing at joint(s) 1 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=154, 12=185. 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 2-10-0 oc purlins,

2-16, 4-15, 4-14, 5-14, 6-13

except end verticals, and 2-0-0 oc purlins (4-8-11 max.): 3-6.

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

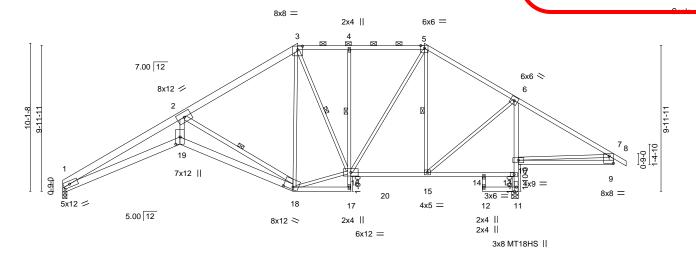
1 Row at midpt





RELEASE FOR CONSTRUCTION Job Truss Truss Type Qty Lot 138 HT AS NOTED ON PLANS REVIEW CODES ADMINISTRA 1500 1985 210402 C8 Hip LEE'S SUMMIT, MISSOURI Job Reference Optional)

8.430 s Mar 22 2021 MiTek Industries, Inc. Wed Apr 21 16:08:20 2021 Page 1 Wheeler Lumber, Waverly, KS - 66871, PKjdaUB<mark>2V</mark>93cbi0lpKUJIViRBDUG4hRUhzORov ID:2ncXplsxOfbjlB6l7Q?gPMzrYWU-GJRo 31-2-0 16-0-14 24-8-14 28-8-8 37-8-0 8-0-4 8-0-10 3-7-10 5-0-6 3-11-10 2-5-8 6-6DATE



	8-0-4	15-9-0	19-8-8	24-8-14	28-8-8	31-2-0	37-8-0	
	8-0-4	7-8-12	3-11-8	5-0-6	3-11-10	2-5-8	6-6-0	
Plate Offsets (X,Y)	[1:0-5-0,0-2-8], [3:0-4-0,0-3-0], [9:E	dge,0-6-0], [18:0-7-12,0-	-2-0], [19:0-5-	15,0-3-8]				
LOADING (psf)	SPACING- 2-0-0	CSI.	_ D	EFL. in	(loc) I/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL 1.15	TC 0.71	V	'ert(LL) -0.45	18-19 >826	360	MT20	197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.95	v	'ert(CT) -0.79	18-19 >470	240	MT18HS	197/144
BCLL 0.0 *	Rep Stress Incr YES	WB 1.00	Н	lorz(CT) 0.59	11 n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014	Matrix-S	v	Vind(LL) 0.34	19 >999	240	Weight: 192 lb	FT = 10%

BRACING-

TOP CHORD

BOT CHORD

WEBS

1 Row at midpt

1 Row at midpt

LUMBER-

2x4 SPF No.2 *Except* TOP CHORD 1-3: 2x6 SPF 1650F 1.4E **BOT CHORD** 2x4 SPF No.2 *Except*

1-19,18-19: 2x6 SPF 1650F 1.4E, 4-17: 2x3 SPF No.2 **WEBS** 2x3 SPF No.2 *Except*

2-19,7-9: 2x4 SPF No.2, 2-18: 2x4 SPF 2100F 1.8E

REACTIONS. (size) 1=0-3-8, 11=0-5-8

Max Horz 1=250(LC 5)

Max Uplift 1=-168(LC 8), 11=-212(LC 9) Max Grav 1=1403(LC 15), 11=2229(LC 2)

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

TOP CHORD 1-2=-5948/910, 2-3=-1366/229, 3-4=-1073/220, 4-5=-1077/221, 5-6=-853/162,

6-7=-107/659

BOT CHORD 1-19=-947/5571, 18-19=-894/5197, 4-16=-336/155, 15-16=-69/697, 14-15=-421/144,

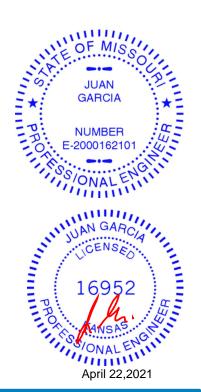
13-14=-421/144, 11-13=-2198/236, 10-13=-2126/254, 6-10=-1947/267, 9-10=-102/258

2-19=-605/4424, 2-18=-4369/890, 3-18=-69/362, 16-18=-126/1127, 5-16=-139/781,

5-15=-675/118, 6-15=-59/1378, 7-10=-735/265

WEBS

- 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, with BCDL = 10.0psf.
- 7) Bearing at joint(s) 1 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=168, 11=212,
- 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 2-11-11 oc purlins,

2-18, 3-16, 5-15

except end verticals, and 2-0-0 oc purlins (5-1-15 max.): 3-5.

4-16

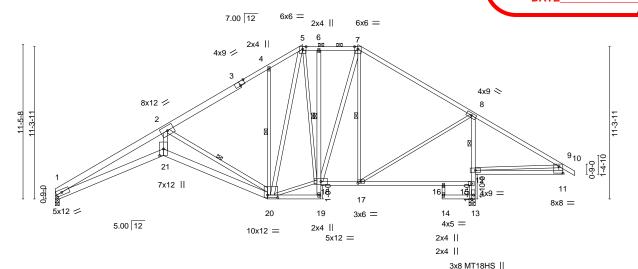
Rigid ceiling directly applied or 3-2-8 oc bracing. Except:





Job Truss Truss Type Qty Lot 138 HT AS NOTED ON PLANS REVIEW CODES ADMINISTRA 1410 NO 186 210402 C9 Hip LEE'S SUMMIT, MISSOURI Job Reference optional)

8.430 s Mar 22 2021 MiTek Industries, Inc. Wed Apr 21 16:08:22 2021 Page 1 Wheeler Lumber, Waverly, KS - 66871, 8Ckvp&\$k0kUNEQmr6DQv50mjOAYZazORot ID:2ncXplsxOfbjlB6l7Q?gPMzrYWU-DhYYG5 18-4-5 19-8-8 22-5-7 2-7-5 1-4-3 2-8-15 37-8-0 28-8-8 31-2-0 38-6-8 8-0-4 7-8-12 6-3-1 6-6-0 DATE 10-8



	0-0-4		4-3 13-0-4 22-3-7 20-0-0		31-0-0
	8-0-4	7-8-12 2-7	7-5 1-4-3 2-8-15 6-3-1	2-5-8	6-6-0
Plate Offsets (X,Y) [1:0	-5-0,0-2-8], [3:0-4-8,Edge], [11:E	dge,0-6-0], [17:0-2-8,0-1-8],	[20:0-9-0,0-2-4], [21:0-5-15,0-3-8]		
LOADING (==f)	ODAOINO 000	001	DEEL :- (1) 1/	/-141 1 /-1	DI ATEC ODID
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 0.97	Vert(LL) -0.44 20-21 >	846 360	MT20 197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.80	Vert(CT) -0.78 20-21 >	477 240	MT18HS 197/144
BCLL 0.0 *	Rep Stress Incr YES	WB 0.98	Horz(CT) 0.61 13	n/a n/a	
BCDL 10.0	Code IRC2018/TPI2014	Matrix-S	Wind(LL) 0.35 21 >	999 240	Weight: 215 lb FT = 10%

TOP CHORD

BOT CHORD

WEBS

18-4-5 19-8-8 22-5-7

LUMBER-BRACING-

15-9-0

2x4 SPF No.2 *Except* TOP CHORD 1-3: 2x6 SPF 1650F 1.4E

BOT CHORD 2x4 SPF No.2 *Except* 1-21,20-21: 2x6 SPF 1650F 1.4E

WEBS 2x3 SPF No.2 *Except*

2-21,5-20,7-18,9-11: 2x4 SPF No.2, 2-20: 2x4 SPF 2100F 1.8E

REACTIONS. (size) 1=0-3-8, 13=0-5-8

Max Horz 1=285(LC 5)

Max Uplift 1=-178(LC 8), 13=-235(LC 9) Max Grav 1=1426(LC 15), 13=2260(LC 2)

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

TOP CHORD 1-2=-6110/1007, 2-4=-1342/252, 4-5=-1320/380, 5-6=-887/255, 6-7=-886/255, 7-8=-1005/214, 8-9=-101/645

BOT CHORD 1-21=-1060/5745, 20-21=-1000/5361, 17-18=-23/821, 16-17=-364/125, 15-16=-364/125,

13-15=-2192/259, 12-15=-2053/288, 8-12=-1921/306

2-21=-690/4556, 2-20=-4471/953, 4-20=-407/228, 5-20=-298/822, 18-20=-78/947, WEBS

7-18=-147/555, 7-17=-460/112, 8-17=-37/1295, 9-12=-643/219

- 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, with BCDL = 10.0psf.
- 7) Bearing at joint(s) 1 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=178, 13=235, 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, except end verticals, and

6-18, 8-12

2-20, 4-20, 5-18, 7-17

Rigid ceiling directly applied or 2-8-6 oc bracing. Except:

2-0-0 oc purlins (5-11-7 max.): 5-7.

1 Row at midpt

1 Row at midpt

RELEASE FOR CONSTRUCTION



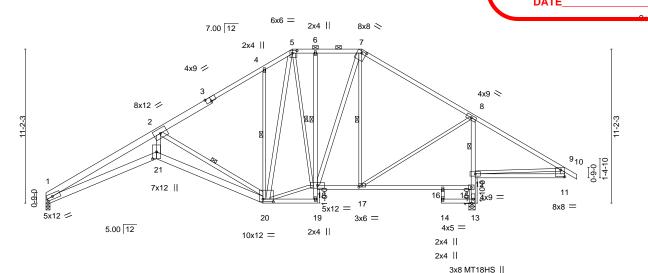
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

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



RELEASE FOR CONSTRUCTION Job Truss Truss Type Qty Lot 138 HT AS NOTED ON PLANS REVIEW CODES ADMINISTRA 1500 1987 210402 C10 Piggyback Base LEE'S SUMMIT, MISSOURI Job Reference (8.430 s Mar 22 2021 MiTek Ir ptional) dustries, Inc. Wed Apr 21 16:08:13 2021 Page 1 Wheeler Lumber, Waverly, KS - 66871, ID:2ncXplsxOfbjlB6l7Q?gPMzrYWU-zyW8N0E KGRcBDYjid4MVLYGYU8WI0iSfUUZmbzORp0 17-10-10 19-8-8 2-1-10 1-9-14 31-2-0 2-5-8 8-0-4 8-0-4 15-9-0 7-8-12



		8-0-4	15-9-0 19	9-8-8 22-11-2	28-8-8	31-2-0	37-8-0	
		8-0-4	7-8-12 3-	-11-8 3-2-10	5-9-6	2-5-8	6-6-0	
Plate Off	sets (X,Y)	[1:0-5-0,0-2-8], [3:0-4-8,Edge],	[5:0-4-0,0-2-4], [7:0-4-0,0-1-11],	[11:Edge,0-6-0], [1	7:0-2-8,0-1-8], [2	0:0-9-0,0-2-4], [21:0	-5-15,0-3-8]	
LOADING	G (psf)	SPACING- 2-0-	0 CSI .	DEFL.	in (loc)	I/defl L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL 1.1	5 TC 0.88	Vert(LL)	-0.44 20-21	>841 360	MT20	197/144
TCDL	10.0	Lumber DOL 1.1	5 BC 0.79	Vert(CT)	-0.78 20-21	>474 240	MT18HS	197/144
BCLL	0.0 *	Rep Stress Incr YE	S WB 0.99	Horz(CT)	0.61 13	n/a n/a		
BCDL	10.0	Code IRC2018/TPI2014	Matrix-S	Wind(LL)	0.35 21	>999 240	Weight: 212 lb	FT = 10%

BOT CHORD

WEBS

1 Row at midpt

1 Row at midpt

LUMBER-BRACING-TOP CHORD

2x4 SPF No.2 *Except* TOP CHORD 1-3: 2x6 SPF 1650F 1.4E

BOT CHORD 2x4 SPF No.2 *Except* 1-21,20-21: 2x6 SPF 1650F 1.4E

WEBS 2x3 SPF No.2 *Except*

2-21,7-18,9-11,5-20: 2x4 SPF No.2, 2-20: 2x4 SPF 2100F 1.8E

REACTIONS. (size) 1=0-3-8, 13=0-5-8

Max Horz 1=278(LC 5)

Max Uplift 1=-175(LC 8), 13=-230(LC 9) Max Grav 1=1419(LC 15), 13=2260(LC 2)

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

TOP CHORD 1-2=-6100/1005, 2-4=-1337/250, 4-5=-1369/398, 5-6=-893/249, 6-7=-893/248,

7-8=-988/205, 8-9=-102/648

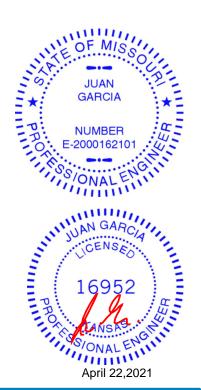
BOT CHORD 1-21=-1058/5737, 20-21=-998/5354, 17-18=-33/788, 16-17=-374/130, 15-16=-374/130,

13-15=-2195/254, 12-15=-2057/282, 8-12=-1922/299

2-21=-688/4549, 2-20=-4474/956, 4-20=-503/262, 7-18=-143/574, 7-17=-488/107, WEBS

8-17=-33/1294, 9-12=-662/229, 5-20=-333/915, 18-20=-90/960

- 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, with BCDL = 10.0psf.
- 7) Bearing at joint(s) 1 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=175, 13=230,
- 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.



6-6-0

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

except end verticals, and 2-0-0 oc purlins (5-11-15 max.): 5-7.

6-18, 8-12

2-20, 4-20, 7-17, 5-18

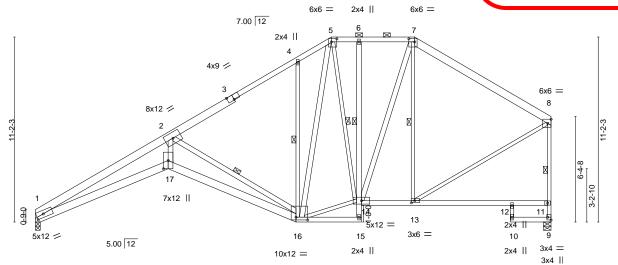
Rigid ceiling directly applied or 2-8-14 oc bracing. Except:





RELEASE FOR CONSTRUCTION Job Truss Truss Type Qty Lot 138 HT AS NOTED ON PLANS REVIEW CODES ADMINISTRA 141010988 210402 C11 Piggyback Base 3 LEE'S SUMMIT, MISSOURI Job Reference optional)

8.430 s Mar 22 2021 MiTek Industries, Inc. Wed Apr 21 16:08:14 2021 Page 1 Wheeler Lumber, Waverly, KS - 66871, ID:2ncXplsxOfbjlB6l7Q?gPMzrYWU-R932aMFz1k@YaivGLbb2Y5T?uWM1Tlbt8E7l1zORp? 17-10-10 19-8-8 2-1-10 1-9-14 22-11-2 28-8-8 31-2-0 8-0-4 7-8-12 3-2-10



		8-0-4	15-9-0	₁ 17-10-10 ₁ 19-8-8 ₁ 22-11-2	28-8-8	31-2-0
		8-0-4	7-8-12	2-1-10 1-9-14 3-2-10	5-9-6	2-5-8
Plate Offs	sets (X,Y)	[1:0-5-0,0-2-8], [3:0-4-8,Edge], [5:0-4	-0,0-2-4], [7:0-4-4,0-2-4], [9	:Edge,0-2-8], [13:0-2-8,0-1-8], [16:	:0-8-8,0-2-0], [17:0-5-	-15,0-3-8]
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 0.77	Vert(LL) -0.44 17	>840 360	MT20 197/144
TCDL	10.0	Lumber DOL 1.15	BC 0.69	Vert(CT) -0.80 16-17	>466 240	
BCLL	0.0 *	Rep Stress Incr YES	WB 1.00	Horz(CT) 0.58 9	n/a n/a	
BCDL	10.0	Code IRC2018/TPI2014	Matrix-S	Wind(LL) 0.36 17	>999 240	Weight: 194 lb FT = 10%

LUMBER-BRACING-TOP CHORD

2x4 SPF No.2 *Except* 7-8: 2x6 SPF No.2, 1-3: 2x6 SPF 1650F 1.4E

BOT CHORD 2x4 SPF No.2 *Except*

1-17,16-17: 2x6 SPF 1650F 1.4E

WEBS 2x3 SPF No.2 *Except*

2-17,5-16,7-14: 2x4 SPF No.2, 2-16: 2x4 SPF 2100F 1.8E

TOP CHORD **BOT CHORD**

Structural wood sheathing directly applied or 2-9-6 oc purlins, except end verticals, and 2-0-0 oc purlins (5-6-2 max.): 5-7.

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

8-8-2 oc bracing: 1-17 8-11-2 oc bracing: 16-17.

1 Row at midpt

WEBS 1 Row at midpt 2-16, 4-16, 5-14, 7-13, 8-9

REACTIONS. (size) 1=0-3-8, 9=0-5-8

Max Horz 1=364(LC 7)

Max Uplift 1=-175(LC 8), 9=-112(LC 8) Max Grav 1=1391(LC 1), 9=1392(LC 1)

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

TOP CHORD $1\hbox{-}2\hbox{--}5830/973, 2\hbox{-}4\hbox{--}1471/250, 4\hbox{-}5\hbox{--}1443/397, 5\hbox{-}6\hbox{--}1013/247, 6\hbox{-}7\hbox{--}1016/246,}$ 7-8=-1133/196, 9-11=-1364/129, 8-11=-1316/160

BOT CHORD 1-17=-1013/5259, 16-17=-956/4914, 13-14=-96/877

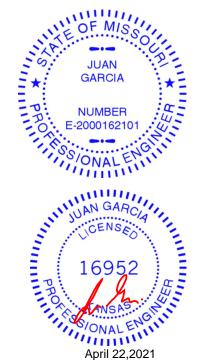
2-17=-654/4083, 2-16=-4043/927, 4-16=-496/261, 5-16=-336/766, 14-16=-159/987, WFBS

7-14=-156/519, 7-13=-356/129, 8-13=-56/1006

NOTES-

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

- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Bearing at joint(s) 1 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=175 9=112
- 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.







RELEASE FOR CONSTRUCTION Job Truss Truss Type Qty Lot 138 HT AS NOTED ON PLANS REVIEW CODES ADMINISTRA 1500 1989 210402 C12 Piggyback Base LEE'S SUMMIT, MISSOURI Job Reference (optional) 8.430 s Mar 22 2021 MiTek Ir dustries, Inc. Wed Apr 21 16:08:15 2021 Page 1 Wheeler Lumber, Waverly, KS - 66871, Gbo2sv R65p26qbmddZlqDmzek6ozgqUzORp ID:2ncXplsxOfbjlB6l7Q?gPMzrYWU-wLdvc 22-11-2 2-0 8-0-4 7-8-12 2-1-10 5-0-8 DATE 6x6 = 6x6 = 7.00 12 2x4 || 4x9 / 6x6 = 10x12 // 3-2-10 8x12 II 0-6-13 14 5x12 🖊 10 9 5.00 12 3x8 MT18HS II 4x9 = 7x12 M18SHS > 31-2-0 15-9-0 22-11-2 8-0-4 7-8-12 7-2-2 Plate Offsets (X,Y)--[1:0-5-0,0-2-8], [3:0-4-8,Edge], [5:0-4-0,0-2-4], [6:0-4-4,0-2-4], [8:0-3-8,Edge], [10:0-6-0,0-1-5], [11:0-5-15,0-4-0] SPACING-**GRIP** LOADING (psf) CSI (loc) I/def L/d **PLATES** 197/144 TCLL 25.0 Plate Grip DOL 1.15 TC 0.78 Vert(LL) -0.49 10-11 >761 360 MT20 TCDL 10.0 Lumber DOL 1.15 ВС 0.78 Vert(CT) -0.85 10-11 >436 240 M18SHS 197/144 **BCLL** 0.0 Rep Stress Incr YES WB 0.77 Horz(CT) 0.58 8 n/a MT18HS 197/144 n/a Code IRC2018/TPI2014 240 FT = 10% **BCDL** 10.0 Wind(LL) 0.25 >999 Weight: 175 lb Matrix-S 11 LUMBER-**BRACING-**TOP CHORD 2x4 SPF No.2 *Except* TOP CHORD Structural wood sheathing directly applied or 2-8-9 oc purlins, 6-7: 2x6 SPF No.2, 1-3: 2x6 SPF 1650F 1.4E except end verticals, and 2-0-0 oc purlins (5-11-15 max.): 5-6. **BOT CHORD** 2x6 SPF 1650F 1.4E *Except* **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc bracing 8-10: 2x4 SPF No.2 **WEBS** 1 Row at midpt 4-10, 5-9, 6-9, 7-8 **WEBS** 2x4 SPF No.2 *Except* 2 Rows at 1/3 pts 2-10 2-11,2-10: 2x4 SPF 2100F 1.8E, 4-10,7-8,7-9: 2x3 SPF No.2 REACTIONS. (size) 1=Mechanical, 8=0-3-8 Max Horz 1=294(LC 7)

Max Uplift 1=-17(LC 8)

Max Grav 1=1525(LC 13), 8=1516(LC 2)

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

TOP CHORD 1-2=-6633/235, 2-4=-1553/90, 4-5=-1571/179, 5-6=-882/94, 6-7=-1102/83,

7-8=-1361/26

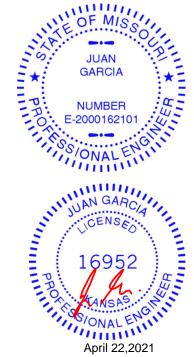
BOT CHORD 1-11=-314/6187, 10-11=-303/5774, 9-10=-58/1111

WFBS 2-11=-128/4883, 2-10=-4752/317, 4-10=-472/151, 5-10=-154/1182, 5-9=-483/90,

7-9=0/1093

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) All plates are MT20 plates unless otherwise indicated.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 7) Refer to girder(s) for truss to truss connections.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1.
- 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.







RELEASE FOR CONSTRUCTION Job Truss Truss Type Qty Lot 138 HT AS NOTED ON PLANS REVIEW CODES ADMINISTRA 1500 1990 210402 C13 Hip LEE'S SUMMIT, MISSOURI Job Reference (optional) 8.430 s Mar 22 2021 MiTek Ir dustries, Inc. Wed Apr 21 16:08:16 2021 Page 1 Wheeler Lumber, Waverly, KS - 66871, IDZM_matiNmd37zAoYhAUVNFuLSjELwzORoz ID:2ncXplsxOfbjlB6l7Q?gPMzrYWU-OXBH?2 15-9-0 18-4-5 22-5-7 -2-0 8-0-4 8-0-4 7-8-12 2-7-5 4-1-2 **DATE** 6x6 = 7.00 12 6x8 = 4x9 / 6x6 = 8x12 🗸 2 6-4-8 3-2-10 8x12 || 0-6-0 Ø 13 14 8 5x12 / 10 9 5.00 12 3x6 =3x10 = 7x12 M18SHS > 31-2-0 15-9-0 7-8-12 6-8-7 8-8-9 Plate Offsets (X,Y)--[1:0-5-0,0-2-8], [3:0-4-8,Edge], [6:0-4-8,0-2-0], [8:Edge,0-1-8], [10:0-6-0,0-1-5], [11:0-5-15,0-4-0] SPACING-L/d **PLATES GRIP** LOADING (psf) CSI (loc) I/defl 197/144 TCLL 25.0 Plate Grip DOL 1.15 TC 0.83 Vert(LL) -0.48 10-11 >770 360 MT20 TCDL 10.0 Lumber DOL 1.15 ВС 0.77 Vert(CT) -0.84 10-11 >441 240 M18SHS 197/144 **BCLL** 0.0 Rep Stress Incr YES WB 1.00 Horz(CT) 0.57 8 n/a n/a Code IRC2018/TPI2014 240 **BCDL** 10.0 Wind(LL) 0.25 >999 Weight: 176 lb FT = 10% Matrix-S 11 LUMBER-**BRACING-**2x4 SPF No.2 *Except* TOP CHORD TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, 6-7: 2x4 SPF 2100F 1.8E, 1-3: 2x6 SPF 1650F 1.4E except end verticals, and 2-0-0 oc purlins (5-10-6 max.): 5-6. **BOT CHORD** 2x6 SPF 1650F 1.4E *Except* **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc bracing. 8-10: 2x4 SPF No.2 **WEBS** 2-10, 4-10, 5-9, 6-9, 7-8 1 Row at midpt **WEBS** 2x4 SPF No.2 *Except* 2-11,2-10: 2x4 SPF 2100F 1.8E, 4-10: 2x3 SPF No.2 REACTIONS. (size) 1=Mechanical, 8=0-3-8 Max Horz 1=302(LC 7) Max Uplift 1=-19(LC 8) Max Grav 1=1527(LC 13), 8=1519(LC 13) FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 1-2=-6616/237, 2-4=-1550/91, 4-5=-1516/172, 5-6=-886/99, 6-7=-1129/90, **GARCIA** 7-8=-1351/31 **BOT CHORD** 1-11=-294/6169, 10-11=-284/5756, 9-10=-51/1087

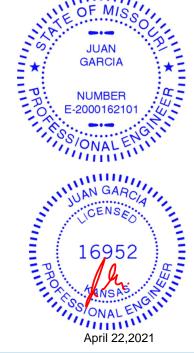
WFBS 2-11=-113/4871, 2-10=-4733/316, 4-10=-381/137, 5-10=-141/1087, 5-9=-492/99,

7-9=0/1072

NOTES-

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

- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) All plates are MT20 plates unless otherwise indicated.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 7) Refer to girder(s) for truss to truss connections.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1.
- 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.

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



RELEASE FOR CONSTRUCTION Job Truss Truss Type Qty Lot 138 HT AS NOTED ON PLANS REVIEW CODES ADMINISTRA 1500 1991 210402 C14 Half Hip LEE'S SUMMIT, MISSOURI Job Reference (optional) 8.430 s Mar 22 2021 MiTek Industries, Inc. Wed Apr 21 16:08:18 2021 Page 1 Wheeler Lumber, Waverly, KS - 66871, T5zETK VAIXCOF8PVrtzH_BomCKQozORox ID:2ncXplsxOfbjlB6l7Q?gPMzrYWU-KwJ1Qk 23-5-11 7-8-5**DATE** 8-0-4 8-0-10 8x8 = 2x4 || 4x9 = 7.00 12 10x12 // 9-11-1 8x12 || 0-6-0 ⊠ 6 10 11 8 5x12 / 7 5.00 12 3x4 =10x12 > 6x8 = 31-2-0 7-8-12 Plate Offsets (X,Y)--[1:0-5-0,0-2-8], [3:0-4-0,0-3-0], [6:Edge,0-1-8], [8:0-8-8,0-2-4], [9:0-5-15,0-4-0] SPACING-**PLATES GRIP** LOADING (psf) CSI in (loc) I/defI L/d TCLL 25.0 Plate Grip DOL 1.15 TC 0.80 Vert(LL) -0.49 8-9 >755 360 MT20 197/144 TCDL 10.0 Lumber DOL 1.15 BC 0.78 Vert(CT) -0.85 8-9 >435 240 **BCLL** 0.0 Rep Stress Incr YES WB 0.99 Horz(CT) 0.58 6 n/a n/a Code IRC2018/TPI2014 Wind(LL) FT = 10% **BCDL** 10.0 0.28 9 >999 240 Weight: 164 lb Matrix-S LUMBER-**BRACING-**2x6 SPF 1650F 1.4E *Except* TOP CHORD TOP CHORD Structural wood sheathing directly applied or 2-8-10 oc purlins, 3-5: 2x4 SPF No.2 except end verticals, and 2-0-0 oc purlins (4-8-2 max.): 3-5. **BOT CHORD** 2x6 SPF 1650F 1.4E *Except* **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc bracing 6-8: 2x4 SPF No.2 **WEBS** 5-6, 2-8, 3-7, 4-7 1 Row at midpt WEBS 2x4 SPF No.2 *Except* 2-9,2-8: 2x4 SPF 2100F 1.8E, 3-8,4-7: 2x3 SPF No.2 REACTIONS. (size) 1=Mechanical, 6=0-3-8 Max Horz 1=275(LC 8) Max Uplift 6=-63(LC 5) Max Grav 1=1521(LC 13), 6=1537(LC 2) FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 1-2=-6439/382, 2-3=-1541/28, 3-4=-951/39, 4-5=-951/39, 5-6=-1384/99 **GARCIA** 1-9=-570/5932, 8-9=-543/5534, 7-8=-59/1233 **BOT CHORD**

WEBS 2-9=-323/4689, 2-8=-4579/511, 3-8=0/718, 3-7=-531/85, 4-7=-607/147, 5-7=-62/1524

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







RELEASE FOR CONSTRUCTION Job Truss Truss Type Qty Lot 138 HT AS NOTED ON PLANS REVIEW CODES ADMINISTRA 1500 1992 210402 D3 Half Hip LEE'S SUMMIT, MISSOURI Job Reference Optional)

8.430 s Mar 22 2021 MiTek Industries, Inc. Wed Apr 21 16:08:23 2021 Page 1 Wheeler Lumber, Waverly, KS - 66871, McvVsnwyueHkFjvSy?lWXXecuwy2v550zORos ID:2ncXplsxOfbjlB6l7Q?gPMzrYWU-hu6wT -0-10-8 0-10-8 19-8-7 24-11-7 31-2-0 DATE 6-2-9 6-6-9 7-2-14 5-11-1 5-3-0 4x9 =

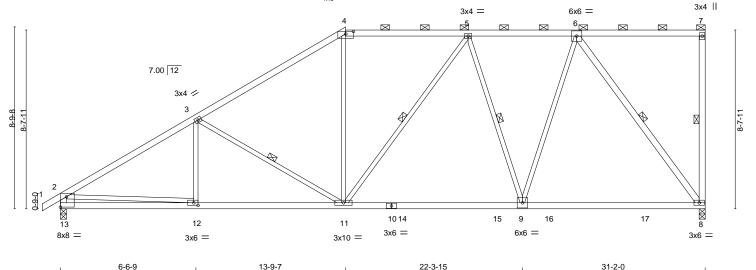


Plate Off	sets (X,Y)	[4:0-4-8,0-1-7], [12:0-2-8,0-1-8], [13:	dge,0-6-0]		
LOADIN	G (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d	PLATES GRIP
TCLL	25.0	Plate Grip DOL 1.15	TC 0.76	Vert(LL) -0.25 8-9 >999 360	MT20 197/144
TCDL	10.0	Lumber DOL 1.15	BC 0.94	Vert(CT) -0.41 8-9 >906 240	
BCLL	0.0 *	Rep Stress Incr YES	WB 0.75	Horz(CT) 0.06 8 n/a n/a	
BCDL	10.0	Code IRC2018/TPI2014	Matrix-S	Wind(LL) 0.06 11-12 >999 240	Weight: 139 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*

7-8,6-8,2-13: 2x4 SPF No.2 (size) 8=0-3-8, 13=0-3-8

Max Horz 13=341(LC 5) Max Uplift 8=-251(LC 5), 13=-175(LC 8)

Max Grav 8=1527(LC 2), 13=1526(LC 2)

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

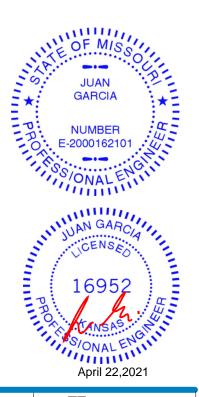
 $2 - 3 = -2217/231, \ 3 - 4 = -1724/199, \ 4 - 5 = -1394/231, \ 5 - 6 = -1179/142, \ 2 - 13 = -1415/209$ TOP CHORD **BOT CHORD**

12-13=-343/700, 11-12=-337/1921, 9-11=-290/1316, 8-9=-231/906 **WEBS** 3-11=-640/240, 4-11=0/457, 5-11=-84/265, 5-9=-528/164, 6-9=-34/911, 6-8=-1513/276,

2-12=0/1322

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, with BCDL = 10.0psf.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 8=251, 13=175.
- 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 2-1-8 oc purlins,

7-8, 3-11, 5-11, 5-9, 6-8

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

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

2-2-0 oc bracing: 9-11.

1 Row at midpt



Job Truss Truss Type Qty Lot 138 HT 210402 D4 Half Hip Job Reference (optional) 8.430 s Mar 22 2021 MiTek Industries, Inc. Wheeler Lumber, Waverly, KS - 66871,

1-7-0

4-11-7

RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW CODES ADMINISTRA 1410 NO 993 LEE'S SUMMIT, MISSOURI

Wed Apr 21 16:08:24 2021 Page 1 nNEgp_&XSqrRmySfVCawwkN?M3BiffeSzORor ID:2ncXplsxOfbjlB6l7Q?gPMzrYWU-94gJ

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

except end verticals, and 2-0-0 oc purlins (4-0-1 max.): 5-9.

8-10

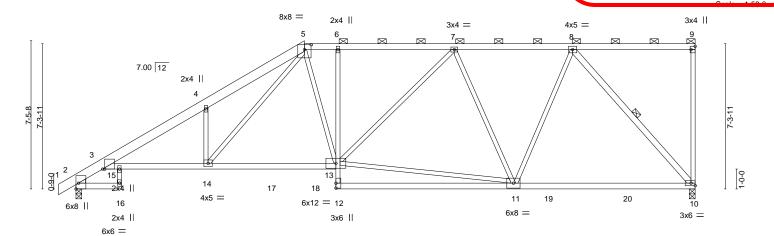
Rigid ceiling directly applied or 10-0-0 oc bracing.

1 Row at midpt

25-0-0

5-11-8

31-2-0 DATEO



19-0-8

5-11-8

L	2-3-8	6-6-8	11-6-0			22-0-4				31-2-0	
	2-3-8	4-3-0	4-11-7	1-7-0) '	8-11-4		1		9-1-12	<u>'</u>
Plate Offsets (X	(,Y) [2:Ed	ge,0-1-8], [3:0-1-4,0	-0-0], [5:0-4-0,0	0-3-0], [9:Edge,	0-2-8]						
LOADING (psf)	•)	SPACING-	2-0-0	CSI.		DEFL.	in (loc)	I/defI	L/d	PLATES	GRIP
TCLL 25.0	o	Plate Grip DOL	1.15	TC 0.0	63	Vert(LL)	-0.27 10-11	>999	360	MT20	197/144
TCDL 10.0)	Lumber DOL	1.15	BC 0.0	69	Vert(CT)	-0.43 10-11	>868	240		
BCLL 0.0	o *	Rep Stress Incr	YES	WB 0.9	99	Horz(CT)	0.25 10	n/a	n/a		
BCDL 10.0)	Code IRC2018/TF	PI2014	Matrix-S		Wind(LL)	0.15 14-15	>999	240	Weight: 154 lb	FT = 10%
						. ,					

BRACING-

TOP CHORD

BOT CHORD

WEBS

LUMBER-

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

2-3-8

4-3-0

5-9: 2x4 SPF No.2

BOT CHORD 2x4 SPF 2100F 1.8E *Except* 2-16: 2x4 SPF No.2, 6-12: 2x3 SPF No.2

WEBS 2x3 SPF No.2 *Except*

8-10: 2x4 SPF No.2

WEDGE

Left: 2x3 SPF No.2

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

Max Horz 2=282(LC 5)

Max Uplift 10=-255(LC 5), 2=-158(LC 8) Max Grav 10=1491(LC 2), 2=1534(LC 2)

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

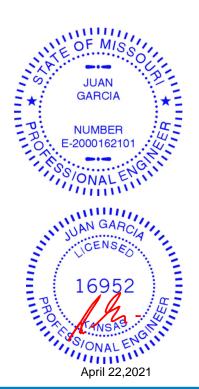
TOP CHORD 2-3=-1037/61, 3-4=-2884/266, 4-5=-3044/439, 5-6=-1869/267, 6-7=-1862/267,

3-15=-463/2543, 14-15=-463/2543, 13-14=-364/1742, 6-13=-346/143, 10-11=-255/1046 **BOT CHORD**

5-13=-185/555, 11-13=-341/1527, 7-13=-61/400, 7-11=-685/217, 8-11=-27/883, **WEBS** 8-10=-1583/301, 4-14=-720/302, 5-14=-306/1397

NOTES-

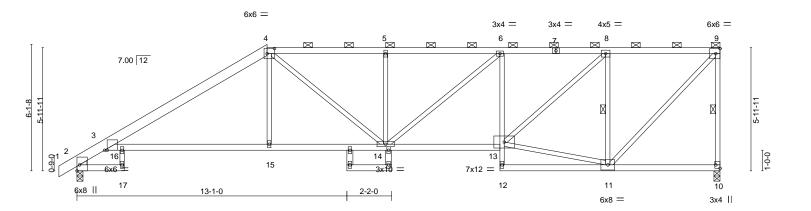
- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber 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, with BCDL = 10.0psf.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 10=255 2=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.
- 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.







RELEASE FOR CONSTRUCTION Job Truss Truss Type Qty Lot 138 HT AS NOTED ON PLANS REVIEW CODES ADMINISTRA 1410 10994 210402 D5 Half Hip 1 LEE'S SUMMIT, MISSOURI Job Reference (optional) 8.430 s Mar 22 2021 MiTek Industries, Inc. Wed Apr 21 16:08:25 2021 Page 1 Wheeler Lumber, Waverly, KS - 66871, R76UgCB0P9HB?t2LzJFk6YODPMOCAuzORog ID:2ncXplsxOfbjlB6l7Q?gPMzrYWU-dGEhu7O -0-10-8 0-10-8 20-6-0 25-8-12 31-2-0 2-3-8 **DATE** 5-5-4 6-11-1 5-8-15 5-6-7



<u> </u>	2-3-8	9-2-9		14-1	_	20-6-			5-8-12	31-2-0	
	2-3-8	6-11-1	0.01.54.0.4	5-8-		5-6-7			5-2-12	5-5-4	
Plate Offsets (X	X,Y) [[2:Edge,0-1-8], [3:0-1-8,0	-0-0], [4:0-4-	4,0-3-0], [10:Ed	age,0-2-8]						
LOADING (psf	f)	SPACING-	2-0-0	CSI.		DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	0	Plate Grip DOL	1.15	TC	0.72	Vert(LL)	-0.34 15-16	>999	360	MT20	197/144
TCDL 10.0	0	Lumber DOL	1.15	BC	0.76	Vert(CT)	-0.66 15-16	>565	240		
	0 *	Rep Stress Incr	YES	WB	0.56	Horz(CT)	0.35 10	n/a	n/a		
BCDL 10.0	0	Code IRC2018/TP	12014	Matrix	-S	Wind(LL)	0.27 15-16	>999	240	Weight: 142 lb	FT = 10%

BRACING-

TOP CHORD

BOT CHORD

WEBS

LUMBER-

2x4 SPF No.2 *Except* TOP CHORD 1-4: 2x6 SP DSS

BOT CHORD 2x4 SPF No.2 *Except* 3-13: 2x4 SPF 2100F 1.8E, 6-12: 2x3 SPF No.2

WEBS 2x3 SPF No.2 *Except*

18-20,14-19: 2x4 SPF No.2

WEDGE

Left: 2x3 SPF No.2

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

Max Horz 2=229(LC 5)

Max Uplift 10=-257(LC 5), 2=-137(LC 8) Max Grav 10=1390(LC 1), 2=1464(LC 1)

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

TOP CHORD 2-3=-927/78, 3-4=-2335/311, 4-5=-2326/390, 5-6=-2326/390, 6-8=-2154/365,

8-9=-1121/203, 9-10=-1343/276

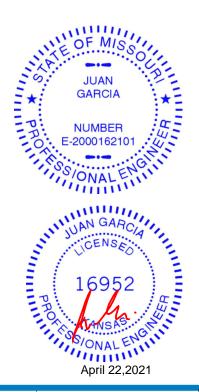
3-16=-409/1986, 15-16=-409/1986, 14-15=-407/1992, 13-14=-462/2167, 6-13=-500/166 **BOT CHORD WEBS**

4-15=0/351, 4-14=-247/576, 5-14=-415/187, 11-13=-244/1101, 8-13=-275/1378,

8-11=-1315/357, 9-11=-298/1625

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) 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=257, 2=137,
- 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 3-4-13 oc purlins,

9-10, 8-11

except end verticals, and 2-0-0 oc purlins (3-5-6 max.): 4-9.

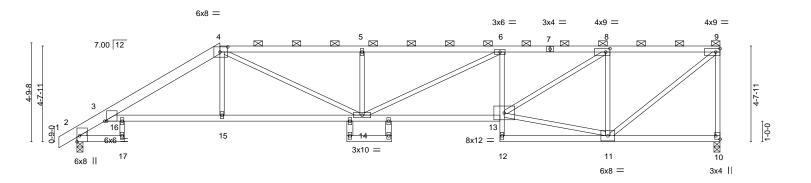
Rigid ceiling directly applied or 10-0-0 oc bracing.

1 Row at midpt





RELEASE FOR CONSTRUCTION Job Truss Truss Type Qty Lot 138 HT AS NOTED ON PLANS REVIEW CODES ADMINISTRA 1410 1095 210402 D6 Half Hip LEE'S SUMMIT, MISSOURI Job Reference (optional) 8.430 s Mar 22 2021 MiTek Ir dustries, Inc. Wed Apr 21 16:08:26 2021 Page 1 Wheeler Lumber, Waverly, KS - 66871, ID:2ncXplsxOfbjIB6I7Q?gPMzrYWU-5To35T DUCQELEIOCDzsoQX4aWKjcNrz?Me08liLzORop 20-6-0 25-8-12 31-2-0 2-3-8 **DATE** 5-5-4 4-7-10 6-10-11 6-8-3



	2-3-8	6-11-2	ı	13-9-13	20-6-0	1	25	5-8-12	31-2-0	
	2-3-8	4-7-10	I	6-10-11	6-8-3	ı	5	-2-12	5-5-4	l
Plate Offse	ets (X,Y)	[2:Edge,0-1-8], [3:0-1-4,0)-0-0], [4:0-4-8	0-3-0], [8:0-2-8,0-2-0], [10:Edge,0-2-8]					
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 0.74	Vert(LL)	-0.27 13-14	>999	360	MT20	197/144
ΓCDL	10.0	Lumber DOL	1.15	BC 0.67	Vert(CT)	-0.52 13-14	>718	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB 0.66	Horz(CT)	0.30 10	n/a	n/a		
BCDL	10.0	Code IRC2018/TF	PI2014	Matrix-S	Wind(LL)	0.22 13-14	>999	240	Weight: 132 lb	FT = 10%

TOP CHORD

BOT CHORD

LUMBER-BRACING-

2x6 SP DSS *Except* TOP CHORD

4-7: 2x4 SPF 2100F 1.8E, 7-9: 2x4 SPF No.2

BOT CHORD 2x4 SPF No.2 *Except*

3-13: 2x4 SPF 2100F 1.8E, 6-12: 2x3 SPF No.2 2x3 SPF No.2 *Except*

WEBS

18-20,19-21: 2x4 SPF No.2 WEDGE

Left: 2x3 SPF No.2

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

Max Horz 2=176(LC 5)

Max Uplift 10=-259(LC 5), 2=-147(LC 5) Max Grav 10=1390(LC 1), 2=1464(LC 1)

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

TOP CHORD 2-3=-926/100, 3-4=-2639/402, 4-5=-3257/579, 5-6=-3257/579, 6-8=-3054/552,

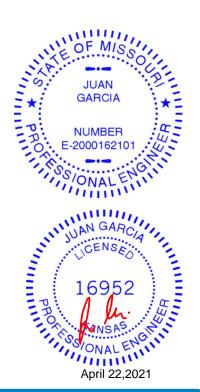
8-9=-1461/269, 9-10=-1341/280

3-16=-463/2286, 15-16=-463/2286, 14-15=-461/2293, 13-14=-629/3085, 6-13=-488/175 **BOT CHORD WEBS** 4-15=0/320, 4-14=-322/1177, 5-14=-514/219, 11-13=-290/1425, 8-13=-375/1876,

8-11=-1385/365, 9-11=-345/1867

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) 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=259, 2=147,
- 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 3-9-14 oc purlins,

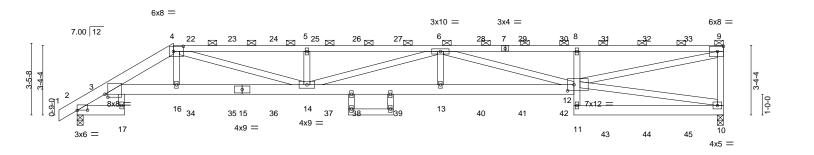
except end verticals, and 2-0-0 oc purlins (3-1-1 max.): 4-9.

Rigid ceiling directly applied or 9-10-14 oc bracing.





RELEASE FOR CONSTRUCTION Job Truss Truss Type Qty Ply Lot 138 HT AS NOTED ON PLANS REVIEW CODES ADMINISTRA 1500 1996 210402 D7 Half Hip Girder LEE'S SUMMIT, MISSOURI 2 2 Job Reference Optional)
8.430 s Mar 22 2021 MiTek Industries, Inc. Wed Apr 21 16:08:29 2021 Page 1 Wheeler Lumber, Waverly, KS - 66871, RNVLdw Coe_M79jC5axjw2KeoK_MQJgzORom ID:2ncXplsxOfbjlB6l7Q?gPMzrYWU-V1TCkU 11-1-0 23-11-8 31-2-0 2-3-8 2-4-3 6-5-4 6-5-4 6-5-4 DATE⁸



	2-3-8	4-7-11	11-1-0	17-6-4		23-1	1-8		31-2-0	
	2-3-8	2-4-3	6-5-4	6-5-4	ı	6-5-	-4	ı	7-2-8	1
Plate Offs	sets (X,Y)	[2:0-6-0,0-0-3], [3:0-1-11	,0-1-11], [4:0-5-	12,0-3-0], [12:0-3-12,0-3-8]						
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 0.49	Vert(LL)	-0.31 13-14	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC 0.36	Vert(CT)	-0.59 13-14	>631	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB 0.67	Horz(CT)	0.21 10	n/a	n/a		
BCDL	10.0	Code IRC2018/TI	PI2014	Matrix-S	Wind(LL)	0.27 13-14	>999	240	Weight: 344 lb	FT = 10%

BOT CHORD

LUMBER-BRACING-TOP CHORD

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

1-4: 2x6 SP DSS **BOT CHORD** 2x6 SP DSS *Except* 8-11,18-19: 2x4 SPF No.2

WEBS 2x4 SPF No.2

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

Max Horz 2=123(LC 5)

Max Uplift 10=-339(LC 5), 2=-341(LC 5) Max Grav 10=1944(LC 1), 2=2091(LC 1)

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

2-3=-1314/237, 3-4=-4861/988, 4-5=-7251/1232, 5-6=-7251/1232, 6-8=-5483/966, TOP CHORD

8-9=-5350/961. 9-10=-1789/390

BOT CHORD 3-16=-961/4341, 14-16=-977/4401, 13-14=-1315/7816, 12-13=-1315/7816, 8-12=-658/294,

10-11=-46/411

WEBS 4-16=-209/821, 4-14=-394/2980, 5-14=-540/213, 6-14=-591/90, 6-13=0/442,

6-12=-2436/313, 10-12=-319/52, 9-12=-1002/5466

NOTES-

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.

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) gable end zone; 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 2x4 MT20 unless otherwise indicated.
- 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) 10=339, 2=341.
- 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) Load case(s) 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

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

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



OF MIS

JUAN

GARCIA

NUMBER

E-2000162101

ONALE

16952

TANSAS

April 22,2021

April 22,2021

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

except end verticals, and 2-0-0 oc purlins (5-9-11 max.): 4-9.

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

6-0-0 oc bracing: 2-17.

						RELEASE FOR CONSTRUCTI	ON
Job	Truss	Truss Type	Qty	Ply	Lot 138 HT	AS NOTED ON PLANS REVIE	
210402	D7	Half Hip Girder	1	2	Job Reference	CODES ADMINISTRATION LEE'S SUMMIT, MISSOURI	
Wheeler Lumber, Way	verly, KS - 66871,			.430 s Mar	22 2021 MiTek I	In dustries, Inc. Wed Apr 21 16:08:29 2021 Page 2	
NOTES-			ID:2ncXplsxOfbjII	3617Q?gPN	//zrYWU-V1TCkL	URNVLdw <mark>&Yoe_M79jC5axjw2KeoK_MQJgzORom</mark>	
	nnection device(s) shall be pr	ovided sufficient to support concer	ntrated load(s) 90 lb do	wn and 42	2 lb up at 5-5-4,	I, 1 lb down and Ti2 lb up at 7-5-4,	
						15 5-4, 99 lb down and 61 lb up at	_
59 lb up at 27-5-4, an 5-5-4, 41 lb down and 19-5-4, 32 lb down at	d 98 lb down and 59 lb up at 29 lb up at 7-5-4, 41 lb dow 21-5-4, 32 lb down at 23-5- e(s) is the responsibility of ot	29-5-4 on top chord, and 100 lb d n and 29 lb up at 9-5-4, 41 lb dow 4, 32 lb down at 25-5-4, and 32 lb	down at 13-5-4, 223 lb n and 29 lb up at 11-5	down and -4, 32 lb d	146 lb up at 4- own at 15-5-4,	9 lb up at 25-5-4, and 98 lb down and -7-11, 41 lb down and 29 lb up at , 32 lb down at 17-5-4, 32 lb down at oottom chord. The design/selection of	
1015 0105(0) 0: 1							
1) Dead + Roof Live (balan	ว่ nced): Lumber Increase=1.15	5 Plate Increase=1 15					
Uniform Loads (plf)	ioda). Edinibol inolodoc-1. re	2, 1 late moreage=1.16					
·	4-9=-70, 2-17=-20, 3-12=-20,	, 10-11=-20					
Concentrated Loads (lb Vert: 16=-223(l		9(B) 23=-29(B) 24=-29(B) 25=-29((B) 26=-29(B) 27=-45(F	3) 28=-45(1	B) 29=-45(B) 30	0=-45(B) 31=-44(B) 32=-44(B)	
		37=-39(B) 38=-100(F) 39=-23(B) 4					
	(balanced): Lumber Increase	=1.15, Plate Increase=1.15					
Uniform Loads (plf) Vert: 1-4=-58.4	4-9=-58, 2-17=-20, 3-12=-20,	. 10-11=-20					
Concentrated Loads (lb)	•					
		(6(B) 23=-26(B) 24=-26(B) 25=-26(37=-33(B) 38=-100(F) 39=-22(B) 4					
		r Increase=1.25, Plate Increase=1.		=-22(b) 4	3=-22(B) 44=-22	2(b) 45=-22(b)	
Uniform Loads (plf)							
Vert: 1-4=-20, 4 Concentrated Loads (lb	4-9=-20, 2-17=-40, 3-12=-40, \	, 10-11=-40					
		8(B) 23=-28(B) 24=-28(B) 25=-28((B) 26=-28(B) 27=-19(E	3) 28=-19(I	B) 29=-19(B) 30	0=-19(B) 31=-19(B) 32=-19(B)	
		37=-21(B) 38=-100(F) 39=-30(B) 4		=-30(B) 43	3=-31(B) 44=-31	1(B) 45=-31(B)	
Uniform Loads (plf)	nd (Pos. Internal) Leit: Lumb	per Increase=1.60, Plate Increase=	:1.00				
\(\frac{1}{2}\)	4=-15, 4-9=29, 2-17=-12, 3-	12=-12, 10-11=-12					
Horz: 1-2=-11, Drag: 4-5=-0	2-4=3, 9-10=22						
Concentrated Loads (lb)						
Vert: 16=134(B	s) 13=-10(B) 6=23(B) 22=9(B	3) 23=5(B) 24=5(B) 25=5(B) 26=5(B)				2(B) 32=22(B) 33=22(B) 34=21(B)	
		9=-10(B) 40=-10(B) 41=-10(B) 42= nber Increase=1.60, Plate Increase		10(B) 45=	-10(B)		
Uniform Loads (plf)	na (i os. internal) ragin. Lun	iber merease=1.00, Flate merease	J=1.00				
	4=11, 4-9=29, 2-17=-12, 3-12	2=-12, 10-11=-12					
Horz: 1-2=-17, Drag: 4-5=-0	2-4=-23, 9-10=-17						
Concentrated Loads (lb)						
		5) 23=5(B) 24=5(B) 25=5(B) 26=5(E				2(B) 32=22(B) 33=22(B) 34=21(B)	
		9=-10(B) 40=-10(B) 41=-10(B) 42= per Increase=1.60, Plate Increase=		10(B) 45=	-10(B)		
Uniform Loads (plf)	, ,						
Vert: 1-2=-29, 2 Horz: 1-2=9, 2-	2-4=-35, 4-9=9, 2-17=-20, 3-1	12=-20, 10-11=-20					
Drag: 4-5=-0	4=15, 9-10=10						
Concentrated Loads (lb							
		s) 23=25(B) 24=25(B) 25=25(B) 26= -29(B) 36=29(B) 37=29(B) 38=-100					
31=42(B) 32=4 43=-2(B) 44=-2	. , . , . , , , , , , , , , , , , , , ,	-23(D) 30=23(D) 31=23(D) 36=-10(U(1) 33=-2(D) 4U=-2(B)	-1=-2(D)	72= - 2(D)		
7) Dead + 0.6 MWFRS Wi		nber Increase=1.60, Plate Increase	e=1.60				
Uniform Loads (plf)							

Vert: 1-2=-3, 2-4=-9, 4-9=9, 2-17=-20, 3-12=-20, 10-11=-20

Horz: 1-2=-17, 2-4=-11, 9-10=-28

Drag: 4-5=-0

Concentrated Loads (lb)

Vert: 16=146(B) 13=-2(B) 6=43(B) 22=26(B) 23=25(B) 24=25(B) 25=25(B) 26=25(B) 27=43(B) 28=43(B) 29=43(B) 30=43(B)

31=42(B) 32=42(B) 33=42(B) 34=29(B) 35=29(B) 36=29(B) 37=29(B) 38=-100(F) 39=-2(B) 40=-2(B) 41=-2(B) 42=-2(B)

43=-2(B) 44=-2(B) 45=-2(B)

8) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60

Vert: 1-2=23, 2-4=29, 4-9=11, 2-17=-12, 3-12=-12, 10-11=-12

Horz: 1-2=-35, 2-4=-41, 9-10=20

Drag: 4-5=-0

Concentrated Loads (lb)

Vert: 16=134(B) 13=-10(B) 6=41(B) 22=21(B) 23=22(B) 24=22(B) 25=22(B) 26=22(B) 27=41(B) 28=41(B) 29=41(B)

30=41(B) 31=40(B) 32=40(B) 33=40(B) 34=21(B) 35=21(B) 36=21(B) 37=21(B) 38=-100(F) 39=-10(B) 40=-10(B) 41=-10(B)

42=-10(B) 43=-10(B) 44=-10(B) 45=-10(B)

9) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60

Continued on page 3







Job	Truss	Truss Type	Qty	Ply	Lot 138 HT	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW
210402	D7	Half Hip Girder	1	2		CODES ADMINISTRA 4500 1996
Wheeler Lumber,	Waverly, KS - 66871,					(optional) Industries, Inc. Wed Apr 21 16:08:29 2021 Page 3
			ID:2ncXplsxOfbj	IB6I7Q?gPI	MzrYWU-V1TCkl	J RNVLdw <mark>௸loe_M79jC5axjw2KeoK_MQJgzORom</mark>
LOAD CASE(S) Sta Uniform Loads (plf)					DATE
	5, 2-4=11, 4-9=11, 2-17=- 17, 2-4=-23, 9-10=-14	12, 3-12=-12, 10-11=-12				
Drag: 4-5=	=-0					
Concentrated Load Vert: 16=1		22=22(B) 23=22(B) 24=22(B) 25=22(B)	26=22(B) 27=41(B) 28=	=41(B) 29=	41(B) 30=41(B)	31=40(B) 32=40(B) 33=40(B)
		I(B) 38=-100(F) 39=-10(B) 40=-10(B) 41 rd Parallel: Lumber Increase=1.60, Plate		·10(B) 44=-	-10(B) 45=-10(B	.)
Uniform Loads (p	,	d Parallel: Lumber Increase=1.60, Plate	e increase=1.60			
	=23, 2-4=29, 4-9=11, 2-17 2=-35, 2-4=-41, 9-10=20	7=-12, 3-12=-12, 10-11=-12				
Drag: 4-5						
Concentrated Loa		3) 22=21(B) 23=22(B) 24=22(B) 25=22(B	R) 26-22(B) 27-41(B) 28	R-41(R) 20	-41(B) 30-41(B	3) 31–40(R) 32–40(R) 33–40(R)
34=21(B) 35=21(B) 36=21(B) 37=2	21(B) 38=-100(F) 39=-10(B) 40=-10(B) 4	11=-10(B) 42=-10(B) 43=			
 Dead + 0.6 MWF Uniform Loads (p 	,	th Parallel: Lumber Increase=1.60, Plate	e Increase=1.60			
Vert: 1-2	=5, 2-4=11, 4-9=11, 2-17=	=-12, 3-12=-12, 10-11=-12				
Horz: 1-2 Drag: 4-5	2=-17, 2-4=-23, 9-10=-14 5=-0					
Concentrated Loa	ads (lb)	0) 00 00/P) 00 00/P) 04 00/P) 05 00/F	2) 00 00(D) 07 44(D) 0	0 44/D) 00	44 (D) 00 44 (D	0) 04 40/D) 00 40/D) 00 40/D)
		8) 22=22(B) 23=22(B) 24=22(B) 25=22(B 21(B) 38=-100(F) 39=-10(B) 40=-10(B) 4				
12) Dead + 0.6 MWF Uniform Loads (p		st Parallel: Lumber Increase=1.60, Plate	e Increase=1.60			
	=15, 2-4=9, 4-9=-9, 2-17=	-20, 3-12=-20, 10-11=-20				
Horz: 1-2 Drag: 4-5	2=-35, 2-4=-29, 9-10=8 5=-0					
Concentrated Loa	ads (lb)					
		22=40(B) 23=42(B) 24=42(B) 25=42(B) 29(B) 38=-100(F) 39=-2(B) 40=-2(B) 41=				31=59(B) 32=59(B) 33=59(B)
13) Dead + 0.6 MWF	RS Wind (Neg. Internal) 2	nd Parallel: Lumber Increase=1.60, Plat		,(_,	-(-)	
Uniform Loads (p Vert: 1-2	lt) =-3, 2-4=-9, 4-9=-9, 2-17=	·-20, 3-12=-20, 10-11=-20				
Horz: 1-2	2=-17, 2-4=-11, 9-10=-26					
Drag: 4-5 Concentrated Loa						
		22=42(B) 23=42(B) 24=42(B) 25=42(B) 29(B) 38=-100(F) 39=-2(B) 40=-2(B) 41=				31=59(B) 32=59(B) 33=59(B)
14) Dead: Lumber Ind	crease=0.90, Plate Increas		2(D) 422(D) 432(D) 44 =-2(D)	40=-2(D)	
Uniform Loads (p Vert: 1-4	lf) =-20, 4-9=-20, 2-17=-20, 3	3-12=-20, 10-11=-20				
Concentrated Loa	ads (lb)	,	7(0) 00 17(0) 07 15((D) 00 454	(D) 00 45(D) 00	45(D) 04 45(D) 00 45(D)
		8) 22=-17(B) 23=-17(B) 24=-17(B) 25=-1 6=-15(B) 37=-15(B) 38=-100(F) 39=-16(E				
		VFRS Wind (Neg. Int) Left): Lumber Incre	ease=1.60, Plate Increa	se=1.60		
Uniform Loads (p Vert: 1-2		-17=-20, 3-12=-20, 10-11=-20				
Horz: 1-2 Drag: 4-5	2=7, 2-4=11, 9-10=7 5=-0					
Concentrated Loa	ads (lb)					
		22=21(B) 23=18(B) 24=18(B) 25=18(B) 31(B) 34=21(B) 35=21(B) 36=21(B) 37=2				
42=-2(B)	43=-2(B) 44=-2(B) 45=-2((B)	.,	` , ` `	, , ,	
Uniform Loads (p	' '	VFRS Wind (Neg. Int) Right): Lumber Inc	crease=1.60, Plate Incre	ease=1.60		
		-17=-20, 3-12=-20, 10-11=-20				
Drag: 4-5	2=-13, 2-4=-9, 9-10=-21 5=-0					
Concentrated Loa		22=19(B) 23=18(B) 24=18(B) 25=18(B)	26=18(R) 27=32(R) 28=	=32(B) 29=	:32(B)	
30=32(B)) 31=31(B) 32=31(B) 33=3	31(B) 34=21(B) 35=21(B) 36=21(B) 37=2				
	43=-2(B) 44=-2(B) 45=-2(f Live (bal.) + 0.75(0.6 MW	(B) VFRS Wind (Neg. Int) 1st Parallel): Lumb	ber Increase=1 60 Plate	e Increase	=1.60	
Uniform Loads (p	lf)	,				
	=-31, 2-4=-36, 4-9=-49, 2- 2=-26, 2-4=-22, 9-10=6	-17=-20, 3-12=-20, 10-11=-20				
Concentrated Loa						

Vert: 16=102(B) 13=-2(B) 6=45(B) 22=30(B) 23=31(B) 24=31(B) 25=31(B) 26=31(B) 27=45(B) 28=45(B) 29=45(B) 30=45(B) 31=44(B) 32=44(B) 33=44(B) 34=21(B) 35=21(B) 36=21(B) 37=21(B) 38=-100(F) 39=-2(B) 40=-2(B) 41=-2(B)

42=-2(B) 43=-2(B) 44=-2(B) 45=-2(B)

18) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf) Vert: 1-2=-45, 2-4=-49, 4-9=-49, 2-17=-20, 3-12=-20, 10-11=-20

Horz: 1-2=-13, 2-4=-9, 9-10=-19

Continued on page 4







						RELEASE FOR CONSTRUCTION
Job	Truss	Truss Type	Qty	Ply	Lot 138 HT	AS NOTED ON PLANS REVIEW
210402	D7	Half Hip Girder	1	2	Joh Deference	CODES ADMINISTRA 1500 1996 LEE'S SUMMIT, MISSOURI
Wheeler Lumber, Wa	averly, KS - 66871,		15.0 V I 0ff	8.430 s Ma	r 22 2021 MiTek I	dustries, Inc. Wed Apr 21 16:08:29 2021 Page 4
			ID:2ncxpisxOff	ijiB6i/Q?gP	MZFYWU-V11CKU	RNVLdw <mark>StY</mark> oe_M79jC5axjw2KeoK_MQJgzORom
LOAD CASE(S) Standa Concentrated Loads						DATE
Vert: 16=102	2(B) 13=-2(B) 6=45(B) 22=31	(B) 23=31(B) 24=31(B) 25=31(B) 26 B=-100(F) 39=-2(B) 40=-2(B) 41=-2				31=44(B) 32=44(B) 33=44(B)
19) Dead + 0.6 MWFRS		ase=1.60, Plate Increase=1.60	(B) 42=-2(B) 43=-2(E	5) 44 =-2(b)	45=-2(b)	
Uniform Loads (plf) Vert: 1-2=-1	2, 2-4=-16, 4-9=-12, 2-17=-12	. 3-12=-12. 10-11=-12				
Horz: 2-4=4		, -				
	8(B) 13=-10(B) 6=48(B) 22=34	4(B) 23=34(B) 24=34(B) 25=34(B) 2				
		8=-100(F) 39=-10(B) 40=-10(B) 41= ease=1.60, Plate Increase=1.60	10(B) 42=-10(B) 43	=-10(B) 44	=-10(B) 45=-10(E	3)
Uniform Loads (plf)	· ·					
Horz: 9-10=		2, 10-11=-12				
Concentrated Loads Vert: 16=10		4(B) 23=34(B) 24=34(B) 25=34(B) 2	26=34(B) 27=48(B) 2	8=48(B) 29)=48(B) 30=48(B) 31=47(B) 32=47(B) 33=47(B)
34=14(B) 35	5=14(B) 36=14(B) 37=14(B) 38	8=-100(F) 39=-10(B) 40=-10(B) 41=	10(B) 42=-10(B) 43			
Uniform Loads (plf)	MVVFR5 Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate	e increase=1.60			
	, 2-4=-15, 4-9=29, 2-17=-12, 3 I1, 2-4=3, 9-10=22	3-12=-12, 10-11=-12				
Drag: 4-5=-0)					
Concentrated Loads Vert: 16=-14		-87(B) 23=-91(B) 24=-91(B) 25=-91	(B) 26=-91(B) 27=-9	9(B) 28=-9	9(B) 29=-99(B) 3	0=-99(B) 31=-98(B) 32=-98(B)
) 37=-39(B) 38=-100(F) 39=-32(B) () Right: Lumber Increase=1.60, Pla		42=-32(B)	43=-32(B) 44=-3	32(B) 45=-32(B)
Uniform Loads (plf)	·	,				
	2-4=11, 4-9=29, 2-17=-12, 3- 17, 2-4=-23, 9-10=-17	12=-12, 10-11=-12				
Drag: 4-5=-0 Concentrated Loads						
Vert: 16=-14	18(B) 13=-32(B) 6=-99(B) 22=	-90(B) 23=-91(B) 24=-91(B) 25=-91				
23) Reversal: Dead + 0.6) 37=-39(B) 38=-100(F) 39=-32(B) 4 l) Left: Lumber Increase=1.60, Plate		42=-32(B)	43=-32(B) 44=-3	22(B) 45=-32(B)
Uniform Loads (plf) Vert: 1-2=-2	9, 2-4=-35, 4-9=9, 2-17=-20, 3	3-12=-20, 10-11=-20				
	, 2-4=15, 9-10=10	,				
Concentrated Loads	(lb)					
		-67(B) 23=-72(B) 24=-72(B) 25=-72) 37=-31(B) 38=-100(F) 39=-24(B)				
24) Reversal: Dead + 0.6 Uniform Loads (plf)	MWFRS Wind (Neg. Interna	l) Right: Lumber Increase=1.60, Pla	ite Increase=1.60			
Vert: 1-2=-3	, 2-4=-9, 4-9=9, 2-17=-20, 3-1	2=-20, 10-11=-20				
Horz: 1-2=-1 Drag: 4-5=-(17, 2-4=-11, 9-10=-28)					
Concentrated Loads		-70(B) 23=-72(B) 24=-72(B) 25=-72	(B) 26=-72(B) 27=-7	9(B) 28=-7	9(B) 29=-79(B)	
30=-79(B) 3	1=-78(B) 32=-78(B) 33=-78(B) 34=-31(B) 35=-31(B) 36=-31(B) 3				
	2=-24(B) 43=-24(B) 44=-24(B 6 MWFRS Wind (Pos. Internal) 45=-24(B)) 1st Parallel: Lumber Increase=1.6	0, Plate Increase=1.	60		
Uniform Loads (plf) Vert: 1-2=23	3, 2-4=29, 4-9=11, 2-17=-12, 3	3-12=-12. 10-11=-12				
Horz: 1-2=-3	35, 2-4=-41, 9-10=20	, -				
Drag: 4-5=-0 Concentrated Loads	(lb)					
	()	-76(B) 23=-74(B) 24=-74(B) 25=-74) 34=-39(B) 35=-39(B) 36=-39(B) 3	()	` '	` ' ' '	
` ,	2=-32(B) 43=-32(B) 44=-32(B) 45=-32(B)) 2nd Parallel: Lumber Increase=1.	60 Plata Increase—1	60	, ,	
Uniform Loads (plf)	,	•	oo, i late ilicrease=1	.00		
	2-4=11, 4-9=11, 2-17=-12, 3- 17, 2-4=-23, 9-10=-14	12=-12, 10-11=-12				
Drag: 4-5=-0 Concentrated Loads						
Vert: 16=-14	18(B) 13=-32(B) 6=-81(B) 22=	-74(B) 23=-74(B) 24=-74(B) 25=-74				
41=-32(B) 4	2=-32(B) 43=-32(B) 44=-32(B		., .,		40=-32(B)	
27) Reversal: Dead + 0.6 Uniform Loads (plf)	MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.6	60, Plate Increase=1	60		
. ,	3, 2-4=29, 4-9=11, 2-17=-12, 3	3-12=-12, 10-11=-12				

Continued on page 5



Horz: 1-2=-35, 2-4=-41, 9-10=20

Drag: 4-5=-0







						RELEASE FOR CONSTRUCTION		
Job	Truss	Truss Type	Qty	Ply	Lot 138 HT	AS NOTED ON PLANS REVIEW		
210402	D7	Half Hip Girder	1	2		CODES ADMINISTRA 1000 1000 LEE'S SUMMIT, MISSOURI		
Wheeler Lumber, Way	verly, KS - 66871,			8.430 s Ma	22 2021 MiTek I	dustries, Inc. Wed Apr 21 16:08:29 2021 Page 5		
			ID:2ncXplsxOf	bjIB6I7Q?gPI	MzrYWU-V1TCkL	JRNVLdw <mark>௸</mark> Yoe_M79jC5axjw2KeoK_MQJgzORom		
LOAD CASE(S) Standar	d					DATE		
Concentrated Loads (lb)							
		-76(B) 23=-74(B) 24=-74(B) 25=-7-) 37=-39(B) 38=-100(F) 39=-32(B)						
) 4th Parallel: Lumber Increase=1.			43=-32(B) 44=-0	32(B) 43=-32(B)		
Uniform Loads (plf)	,	•	•					
	2-4=11, 4-9=11, 2-17=-12, 3-1 7, 2-4=-23, 9-10=-14	12=-12, 10-11=-12						
Drag: 4-5=-0	, 2-423, 3-1014							
Concentrated Loads (
		-74(B) 23=-74(B) 24=-74(B) 25=-74(B) 37=-39(B) 38=-100(F) 39=-32(B)						
		l) 1st Parallel: Lumber Increase=1.			40= 02(B) 44= 0	32(D) 40- 32(D)		
Uniform Loads (plf)								
	2-4=9, 4-9=-9, 2-17=-20, 3-1 5, 2-4=-29, 9-10=8	2=-20, 10-11=-20						
Drag: 4-5=-0	7, 2 4= 20, 3 10=0							
Concentrated Loads (
		-56(B) 23=-54(B) 24=-54(B) 25=-5-) 37=-31(B) 38=-100(F) 39=-24(B)						
()	() ()	l) 2nd Parallel: Lumber Increase=1	' '	, ,	40= 24(B) 44= 2	24(0)		
Uniform Loads (plf)								
	2-4=-9, 4-9=-9, 2-17=-20, 3-1 7, 2-4=-11, 9-10=-26	12=-20, 10-11=-20						
Drag: 4-5=-0	, 2-4=-11, 9-10=-20							
Concentrated Loads (,		.(5) 55 51(5) 55		(5) 66 66(5)			
		-54(B) 23=-54(B) 24=-54(B) 25=-5-) 37=-31(B) 38=-100(F) 39=-24(B)						
		MWFRS Wind (Neg. Int) Left): Lum				24(D) 43=-24(D)		
Uniform Loads (plf)								
	, 2-4=-69, 4-9=-36, 2-17=-20, 2-4=11, 9-10=7	, 3-12=-20, 10-11=-20						
Drag: 4-5=-0	2 4=11, 3 10=1							
Concentrated Loads (55(D) 00 50(D) 04 50(D) 05 5	0/5) 00 50/5) 07	70(D) 00 7	(D) 00 70(D) 0	20. 70/P) 04. 00/P) 00. 00/P)		
		-55(B) 23=-58(B) 24=-58(B) 25=-5) 37=-41(B) 38=-100(F) 39=-26(B)						
		MWFRS Wind (Neg. Int) Right): Lu				27(3)		
Uniform Loads (plf)	0.4.40.40.00.047.00	0.40 00 40 44 00						
	, 2-4=-49, 4-9=-36, 2-17=-20, 3, 2-4=-9, 9-10=-21	, 3-12=-20, 10-11=-20						
Drag: 4-5=-0								
Concentrated Loads (,	FO(D) 22 FO(D) 24 FO(D) 25 F	0/D) 0C	70/D) 20 7/	VD) 20 70/D) 2	20 70/P) 24 CO/P) 22 CO/P)		
		-56(B) 23=-58(B) 24=-58(B) 25=-5(B) 37=-41(B) 38=-100(F) 39=-26(B)						
33) Reversal: Dead + 0.75		MWFRS Wind (Neg. Int) 1st Parall						
Uniform Loads (plf)	2.4-26.4.0-40.2.47-20	2 12 - 20 10 11 - 20						
	Vert: 1-2=-31, 2-4=-36, 4-9=-49, 2-17=-20, 3-12=-20, 10-11=-20 Horz: 1-2=-26, 2-4=-22, 9-10=6							
Concentrated Loads (lb)							
	()	-46(B) 23=-45(B) 24=-45(B) 25=-4:) 34=-41(B) 35=-41(B) 36=-41(B) 3	` ' ' ' '	` '	· / / /			
	=-26(B) 43=-27(B) 44=-27(B)		37 =-41(B) 30=-100(I) 39=-20(D)	40=-20(D)			
	5 Roof Live (bal.) + 0.75(0.6 N	MWFRS Wind (Neg. Int) 2nd Paral	lel): Lumber Increase	e=1.60, Plat	е			
Increase=1.60 Uniform Loads (plf)								
	, 2-4=-49, 4-9=-49, 2-17=-20,	, 3-12=-20, 10-11=-20						
	3, 2-4=-9, 9-10=-19							
Concentrated Loads (Vert: 16=-191		-45(B) 23=-45(B) 24=-45(B) 25=-4	5(B) 26=-45(B) 27=-	57(B) 28=-5	7(B) 29=-57(B)			
) 34=-41(B) 35=-41(B) 36=-41(B) 3						
	=-26(B) 43=-27(B) 44=-27(B)		1.00					
Uniform Loads (plf)	MIVVFRS VVInd IVIIn. Leπ: Lum	nber Increase=1.60, Plate Increase	9=1.60					
	, 2-4=-16, 4-9=-12, 2-17=-12,	, 3-12=-12, 10-11=-12						
Horz: 2-4=4	lb)							
Concentrated Loads (Vert: 16=-121		-38(B) 23=-39(B) 24=-39(B) 25=-39	9(B) 26=-39(B) 27=-4	13(B) 28=-43	3(B) 29=-43(B)			
30=-43(B) 31	=-42(B) 32=-42(B) 33=-42(B)) 34=-32(B) 35=-32(B) 36=-32(B) 3						
	=-29(B) 43=-29(B) 44=-29(B)		20_1.60					
so) Reversal: Dead + 0.6	ivivvrko vvina iviin. Kignt: Lu	ımber Increase=1.60, Plate Increa	SE=1.0U					

Uniform Loads (plf)

Horz: 9-10=-16

Vert: 1-4=-12, 4-9=-12, 2-17=-12, 3-12=-12, 10-11=-12

Continued on page 6



Job	Truss	Truss Type	Qty	Ply	Lot 138 HT	
210402	D7	Half Hip Girder	1	2		ı

RELEASE FOR CONSTRUCTION **AS NOTED ON PLANS REVIEW** CODES ADMINISTRA 1500 996 **LEE'S SUMMIT, MISSOURI**

Wheeler Lumber, Waverly, KS - 66871, | 2 | Job Reference (optional) | LEE'S SUMMIT, MISSOURI | 8.430 s Mar 22 2021 MiTek ir dustries, Inc. | Wed Apr 21 16:08:29 2021 | Page 6 | ID:2ncXplsxOfbjlB6l7Q?gPMzrYWU-V1TCkURVVLdwWYCe_M79jC5axjw2KeoK_MQJgzORom

DATE

LOAD CASE((S) Standard	
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Concentrated Loads (lb)

33=-42(B) 34=-32(B) 35=-32(B) 36=-32(B) 37=-32(B) 38=-100(F) 39=-29(B) 40=-29(B) 41=-29(B) 42=-29(B) 42=-29(B) 43=-29(B) 44=-29(B) 45=-29(B)



RELEASE FOR CONSTRUCTION Job Truss Truss Type Qty Lot 138 HT AS NOTED ON PLANS REVIEW CODES ADMINISTRA 1500 1997 210402 E1 **GABLE** LEE'S SUMMIT, MISSOURI Job Reference Optional)

8.430 s Mar 22 2021 MiTek Industries, Inc. Wed Apr 21 16:08:31 2021 Page 1 Wheeler Lumber, Waverly, KS - 66871, d1ztdOBVAIPObE8IPDkNbWNx5oIrWNYzORok ID:2ncXplsxOfbjlB6l7Q?gPMzrYWU-SQby8A -0-10-8 0-10-8 12-4-8 3-3-8 3-3-8 5-9-0 2-5-8 ė-2-8 11-6-0 2-5-8 DATE

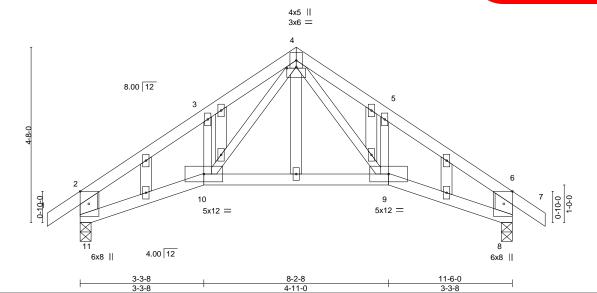


Plate Offsets (X,Y)-- [4:0-3-0,0-0-6], [8:0-4-0,Edge], [11:0-4-0,Edge]

LOADING (psf) TCLL 25.0 TCDL 10.0 BCLL 0.0 *	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES	CSI. TC 0.61 BC 0.42 WB 0.11	DEFL. in (loc) l/defl L/d PLATES GRIP Vert(LL) -0.06 9-10 >999 360 MT20 197/144 Vert(CT) -0.14 9-10 >958 240 Horz(CT) 0.07 8 n/a n/a
BCDL 10.0	Code IRC2018/TPI2014	Matrix-S	Horz(CT) 0.07 8 n/a n/a Wind(LL) 0.03 9-10 >999 240 Weight: 52 lb FT = 10%

BOT CHORD

3-3-8

except end verticals.

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

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

LUMBER-BRACING-TOP CHORD

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

2-11,6-8: 2x6 SPF No.2

OTHERS 2x4 SPF No.2

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

Max Horz 11=-141(LC 6)

Max Uplift 11=-80(LC 8), 8=-80(LC 9) Max Grav 11=574(LC 1), 8=574(LC 1)

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

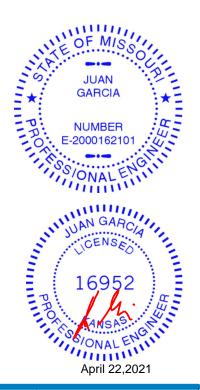
TOP CHORD 2-3=-804/94, 3-4=-682/196, 4-5=-682/166, 5-6=-804/64, 2-11=-681/118, 6-8=-681/94

BOT CHORD 10-11=-73/643, 9-10=0/406, 8-9=0/588

WEBS 4-9=-125/322, 4-10=-142/355

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) All plates are 2x4 MT20 unless otherwise indicated.
- 5) Gable studs spaced at 2-0-0 oc.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in 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) Bearing at joint(s) 11, 8 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 11, 8.
- 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.







RELEASE FOR CONSTRUCTION Job Truss Truss Type Qty Lot 138 HT **AS NOTED ON PLANS REVIEW** CODES ADMINISTRA 1500 1998 210402 E2 Roof Special LEE'S SUMMIT, MISSOURI Job Reference (optional) 8.430 s Mar 22 2021 MiTek Ir dustries, Inc. Wed Apr 21 16:08:32 2021 Page 1 Wheeler Lumber, Waverly, KS - 66871, ID:2ncXplsxOfbjlB6l7Q?gPMzrYWU-wc9KM VTFoG?BYL4NJ7vgnLgaz8jgFgBF0yb4w_zORoj 12-4-8 -0-10-8 0-10-8 3-3-8 3-3-8 11-6-0 DATE8 2-5-8 2-5-8

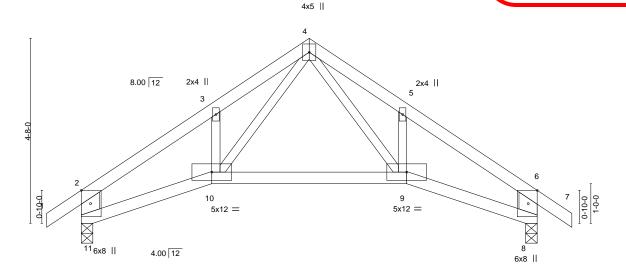


Plate Off	sets (X,Y)	[8:0-4-0,Edge], [11:0-4-0,Edge]									
LOADIN	G (psf)	SPACING- 2-0-	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.Ó	Plate Grip DOL 1.1	5 TC	0.61	Vert(LL)	-0.06	9-1Ó	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL 1.1	5 BC	0.42	Vert(CT)	-0.14	9-10	>958	240		
BCLL	0.0 *	Rep Stress Incr YE	S WB	0.11	Horz(CT)	0.07	8	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014	Matri	x-S	Wind(LL)	0.03	9-10	>999	240	Weight: 43 lb	FT = 10%

BOT CHORD

3-3-8

except end verticals.

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

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

LUMBER-BRACING-TOP CHORD

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

2-11,6-8: 2x6 SPF No.2

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

Max Horz 11=-141(LC 6) Max Uplift 11=-80(LC 8), 8=-80(LC 9)

Max Grav 11=574(LC 1), 8=574(LC 1)

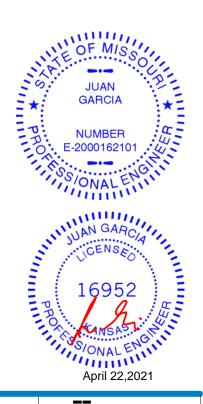
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

2-3=-804/94, 3-4=-682/196, 4-5=-682/166, 5-6=-804/64, 2-11=-681/118, 6-8=-681/94 TOP CHORD **BOT CHORD** 10-11=-73/643 9-10=0/406 8-9=0/588

WEBS 4-9=-125/322, 4-10=-142/355

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.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in 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) Bearing at joint(s) 11, 8 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) 11, 8.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



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

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



RELEASE FOR CONSTRUCTION Job Truss Truss Type Qty Lot 138 HT AS NOTED ON PLANS REVIEW CODES ADMINISTRA 1410 1099 210402 E3 Roof Special 2 LEE'S SUMMIT, MISSOURI Job Reference Optional)

8.430 s Mar 22 2021 MiTek Industries, Inc. Wed Apr 21 16:08:33 2021 Page 1 Wheeler Lumber, Waverly, KS - 66871, ID:2ncXplsxOfbjlB6l7Q?gPMzrYWU-OpjiZsUtZa7LBWZtqR3JZNlbY1Q_HKOFbKdSRzORoi -0-10-8 0-10-8 8-2-8 3-3-8 3-3-8 2-5-8 2-5-8 DATE

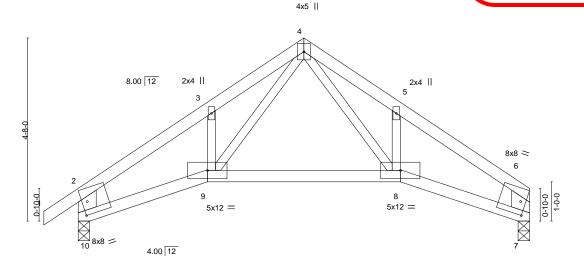


Plate Offsets (X,Y)--[6:0-1-9,0-4-0], [10:0-1-9,0-4-0] SPACING-L/d LOADING (psf) CSI. DEFL. in (loc) I/def **PLATES** GRIP 25.0 TCLL Plate Grip DOL 1.15 TC 0.61 Vert(LL) -0.07 8-9 >999 360 197/144 MT20 TCDL 10.0 Lumber DOL 1.15 BC 0.52 Vert(CT) -0.16 8-9 >848 240 BCLL 0.0 Rep Stress Incr YES WB 0.11 Horz(CT) 0.08 n/a n/a

Wind(LL)

TOP CHORD

BOT CHORD

0.04

8-9

>999

except end verticals.

11-6-0

240

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

Structural wood sheathing directly applied or 5-3-8 oc purlins,

LUMBER-BRACING-

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

2x3 SPF No.2 *Except* 2-10,6-7: 2x6 SPF No.2

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

Max Horz 10=135(LC 5)

Max Uplift 10=-80(LC 8), 7=-54(LC 9) Max Grav 10=578(LC 1), 7=493(LC 1)

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

Code IRC2018/TPI2014

2-3=-813/103, 3-4=-690/203, 4-5=-702/184, 5-6=-804/76, 2-10=-688/124, 6-7=-584/78 TOP CHORD

BOT CHORD 9-10=-93/633, 8-9=-5/397, 7-8=-29/595

WEBS 4-8=-136/339, 4-9=-147/356

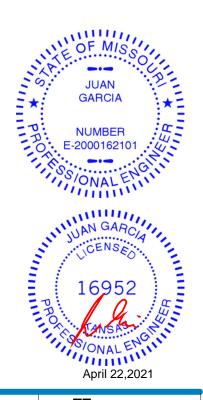
BCDL

10.0

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

Matrix-S

- 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) Bearing at joint(s) 10, 7 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 10, 7.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



FT = 10%

Weight: 42 lb





RELEASE FOR CONSTRUCTION Job Truss Truss Type Qty Lot 138 HT AS NOTED ON PLANS REVIEW CODES ADMINISTRA 141701000 210402 E4 Half Hip LEE'S SUMMIT, MISSOURI Job Reference (optional) 8.430 s Mar 22 2021 MiTek Industries, Inc. Wed Apr 21 16:08:34 2021 Page 1 Wheeler Lumber, Waverly, KS - 66871, VVKuFCFYDIRYyIsmwwMyP0jj9XUF4B_tzORoh ID:2ncXplsxOfbjlB6l7Q?gPMzrYWU-s?H5n -0-10-8 0-10-8 8-2-8 11-6 3-3-8 3-3-8 2-11-12 1-11-4 3-3 DATE 6x6 = \times 8.00 12 3-10-14 4-10-14 5-0-3 1-10-14 0-10-0 5x12 = 6x6 = 8x8 = 4.00 12 2x4 | 11-6-0 2-11-12 Plate Offsets (X,Y)--[4:0-3-0,0-2-3], [9:0-1-9,0-4-0] SPACING-L/d **PLATES** GRIP LOADING (psf) CSI. DEFL. in (loc) I/def TCLL 25.0 Plate Grip DOL 1.15 TC 0.61 Vert(LL) -0.04 7-8 >999 360 MT20 197/144 TCDL 10.0 Lumber DOL 1.15 BC 0.43 Vert(CT) -0.10 7-8 >999 240 **BCLL** 0.0 Rep Stress Incr YES WB 0.14 Horz(CT) 0.04 6 n/a n/a Code IRC2018/TPI2014 Wind(LL) 240 FT = 10% **BCDL** 10.0 0.03 8 >999 Weight: 46 lb Matrix-S LUMBER-**BRACING-**2x4 SPF No.2 TOP CHORD TOP CHORD Structural wood sheathing directly applied or 5-3-4 oc purlins, **BOT CHORD** 2x4 SPF No.2 except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 4-5. WEBS 2x3 SPF No.2 *Except* **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc bracing

2-9: 2x6 SPF No.2

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

Max Horz 9=196(LC 7)

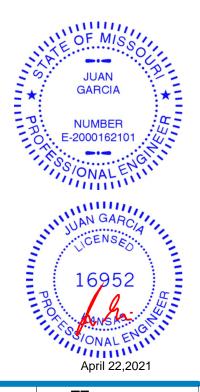
Max Uplift 6=-103(LC 5), 9=-80(LC 8) Max Grav 6=499(LC 1), 9=584(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. 2-3=-821/115, 3-4=-703/222, 4-5=-280/65, 5-6=-475/125, 2-9=-690/131 TOP CHORD

BOT CHORD 8-9=-216/625. 7-8=-150/389 **WEBS** 4-8=-168/387, 5-7=-78/409

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Bearing at joint(s) 6, 9 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 9 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.





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



RELEASE FOR CONSTRUCTION Job Truss Truss Type Qty Ply Lot 138 HT AS NOTED ON PLANS REVIEW CODES ADMINISTRA 141701001 210402 E5 Half Hip Girder LEE'S SUMMIT, MISSOURI Job Reference optional)

8.430 s Mar 22 2021 MiTek Industries, Inc. Wed Apr 21 16:08:35 2021 Page 1 Wheeler Lumber, Waverly, KS - 66871, V84BN<mark>&V</mark>ox_FTXP_S1qLjRS3YhivpkWJzORog ID:2ncXplsxOfbjIB6I7Q?gPMzrYWU-KBrT 0-10-8 0-10-8 3-3-8 3-3-8 4-8-12 3-5-12 DATE 6x8 = 2x4 || 5 \boxtimes

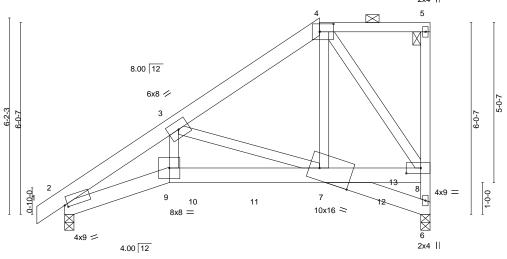


Plate Offsets (X,Y)-- [2:0-1-2,0-0-15], [4:0-5-4,0-3-0], [7:1-0-4,Edge], [8:0-5-8,0-2-0]

LOADIN	IG (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.Ó	Plate Grip DOL	1.15	TC	0.82	Vert(LL)	-0.09	`7-9	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	ВС	0.55	Vert(CT)	-0.16	7-9	>856	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.58	Horz(CT)	0.07	6	n/a	n/a		
BCDL	10.0	Code IRC2018/TP	I2014	Matri	x-S	Wind(LL)	0.06	7-9	>999	240	Weight: 164 lb	FT = 10%

BRACING-

TOP CHORD

BOT CHORD

4-11-0

11-6-0

Structural wood sheathing directly applied or 5-5-15 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

LUMBER-

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

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

REACTIONS. (size) 6=0-3-8, 2=0-3-8

Max Horz 2=187(LC 26)

Max Uplift 6=-314(LC 5), 2=-324(LC 8) Max Grav 6=4066(LC 1), 2=3021(LC 1)

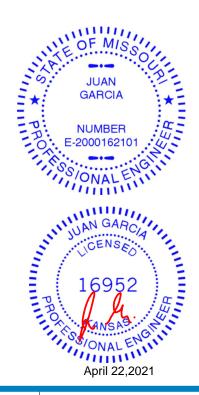
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

2-3=-7649/887, 3-4=-2891/249, 6-8=-4113/337 TOP CHORD **BOT CHORD** 2-9=-850/6193. 7-9=-748/5477. 7-8=-294/2450

WEBS 3-9=-566/4113, 3-7=-3269/545, 4-7=-392/4727, 4-8=-4299/387

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 0-7-0 oc. Bottom chords connected as follows: 2x6 - 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.
- Unbalanced roof live loads have been considered for this design.
- 4) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 5) Provide adequate drainage to prevent water ponding.
- 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) Bearing at joint(s) 6, 2 considers paralle to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 6=314, 2=324,
- 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 12) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1894 lb down and 383 lb up at 4-0-13, 1369 lb down and 91 lb up at 6-0-0, and 1436 lb down and 93 lb up at 8-2-0, and 1431 lb down and 42 lb up at 10-0-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.



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



						RELEASE FOR CONSTRUCTION
Job	Truss	Truss Type	Qty	Ply	Lot 138 HT	AS NOTED ON PLANS REVIEW
210402	E5	Half Hip Girder	1	2	Joh Reference (or	CODES ADMINISTRA 1508001 LEE'S SUMMIT, MISSOURI

Wheeler Lumber,

Waverly, KS - 66871,

8.430 s Mar 22 2021 MiTek Industries, Inc. Wed Apr 21 16:08:35 2021 Page 2
ID:2ncXplsxOfbjlB6l7Q?gPMzrYWU-KBrT_ V84BN360ox_FTXP_S1qLjRS3YhivpkWJzORog_

LOAD CASE(S) Standard

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

Vert: 1-4=-70, 4-5=-70, 2-9=-20, 7-9=-20, 6-7=-20

Concentrated Loads (lb)

Vert: 7=-1373(B) 10=-1894(B) 11=-1369(B) 12=-1369(B)



RELEASE FOR CONSTRUCTION Job Truss Truss Type Qty Lot 138 HT **AS NOTED ON PLANS REVIEW** CODES ADMINISTRA 15000000 210402 G1 Common Supported Gable LEE'S SUMMIT, MISSOURI Job Reference (optional) 8.430 s Mar 22 2021 MiTek Industries, Inc. Wed Apr 21 16:08:36 2021 Page 1 Wheeler Lumber, Waverly, KS - 66871, mrVVwURN8Yy_mxB?NHIAJBd4qxZZH3mzORof ID:2ncXplsxOfbjlB6l7Q?gPMzrYWU-oOOrCuW 21-8-8 DATE 0-10-8 10-5-0 10-5-0 20-10-0 10-5-0 4x5 =

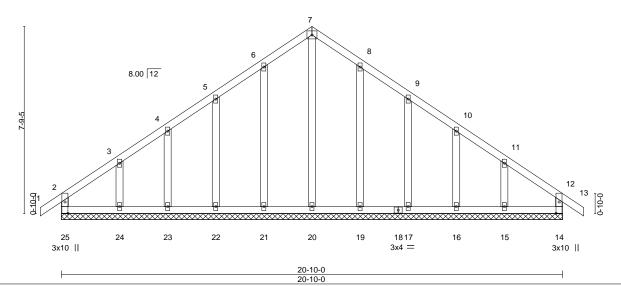


Plate Off	sets (X,Y)	[14:0-5-10,0-1-8], [25:0-5-10,0-1-8]		
LOADIN	G (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d PLATES GRIP
TCLL	25.0	Plate Grip DOL 1.15	TC 0.07	Vert(LL) -0.00 13 n/r 120 MT20 197/144
TCDL	10.0	Lumber DOL 1.15	BC 0.06	Vert(CT) -0.00 13 n/r 120
BCLL	0.0 *	Rep Stress Incr YES	WB 0.18	Horz(CT) 0.00 14 n/a n/a
BCDL	10.0	Code IRC2018/TPI2014	Matrix-R	Weight: 100 lb FT = 10%

LUMBER-BRACING-

2x4 SPF No.2 TOP CHORD TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, BOT CHORD 2x4 SPF No.2 except end verticals. **WEBS** 2x4 SPF No.2 **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc bracing

REACTIONS. All bearings 20-10-0

Max Horz 25=220(LC 7) (lb) -

2x4 SPF No.2

Max Uplift All uplift 100 lb or less at joint(s) 25, 14, 21, 22, 23, 19, 17, 16 except 24=-126(LC 8),

15=-118(LC 9)

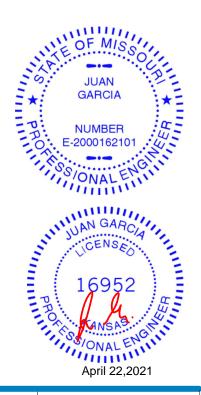
Max Grav All reactions 250 lb or less at joint(s) 25, 14, 20, 21, 22, 23, 24, 19, 17, 16, 15

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

NOTES-

OTHERS

- 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) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) All plates are 2x4 MT20 unless otherwise indicated.
- 5) Gable requires continuous bottom chord bearing.
- 6) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 7) Gable studs spaced at 2-0-0 oc.
- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 25, 14, 21, 22, 23, 19, 17, 16 except (it=lb) 24=126, 15=118.
- 11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.







RELEASE FOR CONSTRUCTION Job Truss Truss Type Qty Lot 138 HT AS NOTED ON PLANS REVIEW CODES ADMINISTRA 1417018003 210402 G2 **GABLE** LEE'S SUMMIT, MISSOURI Job Reference (optional) 8.430 s Mar 22 2021 MiTek II dustries, Inc. Wed Apr 21 16:08:38 2021 Page 1 Wheeler Lumber, Waverly, KS - 66871, ZY0N6IGXWgN0E0c4YbZiUfKf7Pt2O7ezORod ID:2ncXplsxOfbjlB6l7Q?gPMzrYWU-lmWb 23-4-11 32-0-0 32-10₋8 -0-10-8 0-10-8 7-4-10 7-4-11 8-7-6 0-10-8

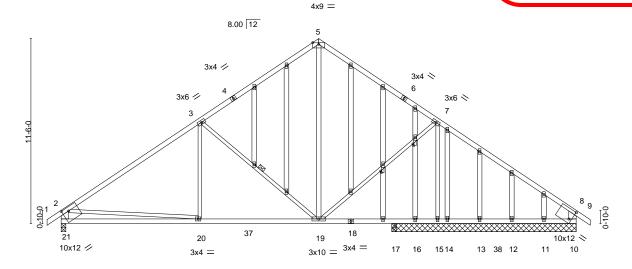


Plate Off	Plate Offsets (X,Y) [10:0-1-14,0-7-1], [21:0-4-12,0-2-12], [30:0-1-4,0-0-8], [32:0-1-4,0-0-8]											
LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC).79	Vert(LL)	-0.11 2	20-21	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.66	Vert(CT)	-0.24 2	20-21	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	1.00	Horz(CT)	0.03	10	n/a	n/a		
BCDL	10.0	Code IRC2018/TF	PI2014	Matrix-	3	Wind(LL)	0.03	20	>999	240	Weight: 187 lb	FT = 10%

20-10-0

TOP CHORD

BOT CHORD

WEBS

23-4-11

2-6-11

except end verticals.

1 Row at midpt

8-10-1 oc bracing: 20-21.

32-0-0

Structural wood sheathing directly applied or 3-9-1 oc purlins,

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

3-19

16-0-0

7-4-10

LUMBER-BRACING-

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

5-19: 2x4 SPF No.2, 2-21,8-10: 2x6 SPF No.2

OTHERS 2x4 SPF No.2

REACTIONS. All bearings 11-5-8 except (jt=length) 21=0-3-8, 17=0-3-8.

Max Horz 21=319(LC 7) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 15, 16, 11 except 21=-188(LC 8), 10=-203(LC 9)

Max Grav All reactions 250 lb or less at joint(s) 16, 14, 13, 12, 11, 17 except 21=1238(LC 15), 15=1118(LC 15), 10=487(LC 22)

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

TOP CHORD 2-3=-1451/233, 3-5=-862/321, 5-7=-828/286, 7-8=-505/314, 2-21=-1107/235,

8-10=-554/299

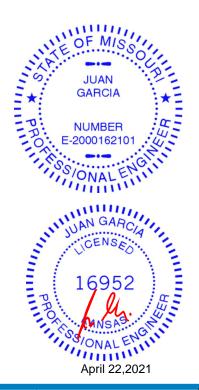
BOT CHORD 20-21=-434/933, 19-20=-213/1277, 17-19=-112/290, 16-17=-112/290, 15-16=-112/290,

14-15=-112/290, 13-14=-112/290, 12-13=-112/290, 11-12=-112/290, 10-11=-112/290

5-19=-184/409, 7-19=-69/592, 7-15=-1061/105, 3-19=-812/277, 3-20=0/370, WEBS

2-20=-39/570

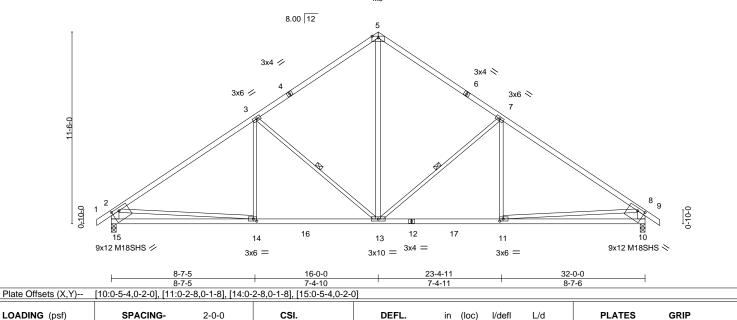
- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) All plates are 2x4 MT20 unless otherwise indicated.
- 5) Gable studs spaced at 2-0-0 oc.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in 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.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 15, 16, 11 except (it=lb) 21=188, 10=203.
- 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.







RELEASE FOR CONSTRUCTION Job Truss Truss Type Qty Lot 138 HT AS NOTED ON PLANS REVIEW CODES ADMINISTRA 15000000 210402 G3 Common 6 LEE'S SUMMIT, MISSOURI Job Reference (optional) 8.430 s Mar 22 2021 MiTek Industries, Inc. Wed Apr 21 16:08:40 2021 Page 1 Wheeler Lumber, Waverly, KS - 66871, ZGvk?Mahvno3i519urMNI7JmQsBXVCXzORob ID:2ncXplsxOfbjlB6l7Q?gPMzrYWU-h9eM1l 8-7-5 8-7-5 16-0-0 23-4-11 32-0-0 32-10₋8 0-10-8 7-4-10 7-4-11 8-7-6 DATE 4x9 =



Vert(LL)

Vert(CT)

Horz(CT)

Wind(LL)

BRACING-

TOP CHORD

BOT CHORD

WEBS

-0.12 11-13

-0.26 10-11

10

13

0.06

0.05

>999

>999

>999

except end verticals.

1 Row at midpt

8-10-1 oc bracing: 14-15.

n/a

360

240

n/a

240

LUMBER-

REACTIONS.

TCLL

TCDL

BCLL

BCDL

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

25.0

10.0

0.0

10.0

5-13: 2x4 SPF No.2, 2-15,8-10: 2x6 SPF No.2

Plate Grip DOL

Rep Stress Incr

Code IRC2018/TPI2014

Lumber DOL

(size) 15=0-3-8, 10=0-3-8

Max Horz 15=319(LC 7)

Max Uplift 15=-186(LC 8), 10=-186(LC 9) Max Grav 15=1632(LC 15), 10=1632(LC 16)

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

TOP CHORD 2-3=-2068/225, 3-5=-1487/283, 5-7=-1487/283, 7-8=-2069/225, 2-15=-1496/234, 8-10=-1495/234

BOT CHORD 14-15=-433/988, 13-14=-212/1799, 11-13=-51/1619, 10-11=-268/764

5-13=-141/1096, 7-13=-762/277, 7-11=0/331, 3-13=-763/278, 3-14=0/331, 2-14=0/1005, **WEBS**

1.15

1.15

YES

TC

BC

WB

Matrix-S

0.80

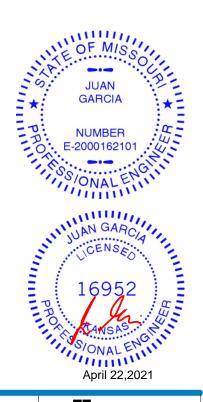
0.73

0.64

8-11=0/1020

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) All plates are MT20 plates unless otherwise indicated.
- 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, with BCDL = 10.0psf.
- 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.



197/144

197/144

FT = 10%

MT20

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

7-13, 3-13

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

M18SHS

Weight: 135 lb

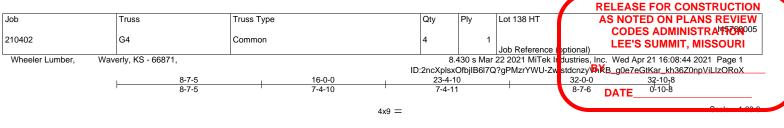


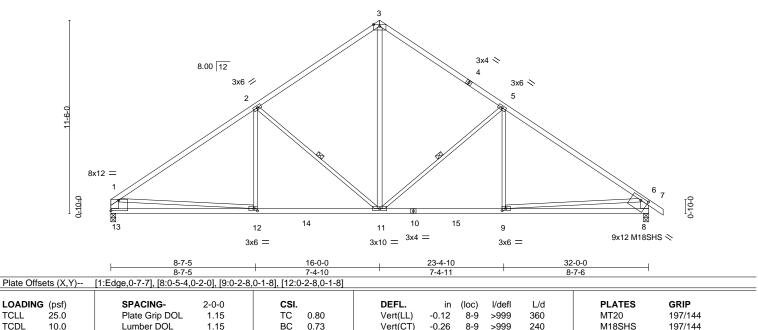
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

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







Horz(CT)

Wind(LL)

BRACING-

TOP CHORD

BOT CHORD

WEBS

0.05

0.05 11-12

8

n/a

>999

except end verticals.

1 Row at midpt

n/a

240

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

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

5-11, 2-11

Weight: 134 lb

FT = 10%

LUMBER-

REACTIONS.

TCLL

TCDL

BCLL

BCDL

TOP CHORD 2x4 SPF No.2 *Except*

1-3: 2x4 SPF 2100F 1.8E

BOT CHORD 2x4 SPF No.2

0.0

10.0

WEBS 2x3 SPF No.2 *Except*

3-11: 2x4 SPF No.2, 1-13,6-8: 2x6 SPF No.2

Rep Stress Incr

Code IRC2018/TPI2014

(size) 13=0-3-8, 8=0-3-8

Max Horz 13=-313(LC 4)

Max Uplift 13=-161(LC 8), 8=-186(LC 9) Max Grav 13=1560(LC 15), 8=1632(LC 16)

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

TOP CHORD 1-2=-2067/222, 2-3=-1491/284, 3-5=-1489/283, 5-6=-2070/225, 1-13=-1423/208,

6-8=-1496/234

BOT CHORD 12-13=-290/782, 11-12=-217/1811, 9-11=-51/1621, 8-9=-268/764

WEBS 3-11=-146/1106, 5-11=-762/277, 5-9=0/331, 2-11=-777/285, 2-12=0/326, 1-12=-16/1147,

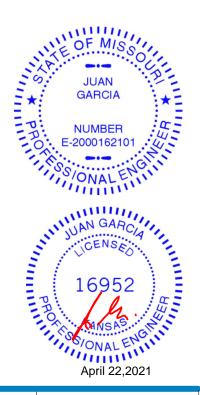
YES

WB

Matrix-S

0.66

- 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) All plates are MT20 plates unless otherwise indicated.
- 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 13=161, 8=186.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.





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

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

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



RELEASE FOR CONSTRUCTION Job Truss Truss Type Qty Lot 138 HT AS NOTED ON PLANS REVIEW CODES ADMINISTRA 1500000 210402 J1 Diagonal Hip Girder 2 LEE'S SUMMIT, MISSOURI Job Reference optional)

8.430 s Mar 22 2021 MiTek li dustries, Inc.
ID:2ncXplsxOfbjlB6l7Q?gPMzrYWU-16RF zdPkGe847. Wed Apr 21 16:08:45 2021 Page 1 Wheeler Lumber, Waverly, KS - 66871, zdPkGeBLZsaLeto5ttVNDNoj390TEGtkzORoW 4-10-0 1-3-15 4-10-0 DATE

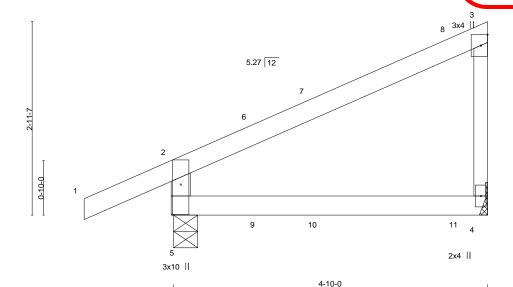


Plate Oil	Plate Offsets (A, Y) [5:0-5-8,0-1-8]											
LOADIN	G (psf)	SPACING- 2	-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.30	Vert(LL)	-0.02	4-5	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.19	Vert(CT)	-0.04	4-5	>999	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.00	Horz(CT)	-0.00	4	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI20)14	Matri	x-R	Wind(LL)	0.01	4-5	>999	240	Weight: 16 lb	FT = 10%

BRACING-

TOP CHORD

BOT CHORD

4-9-9

LUMBER-

REACTIONS.

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=0-4-7, 4=Mechanical

Max Horz 5=123(LC 5)

Max Uplift 5=-74(LC 8), 4=-81(LC 5) Max Grav 5=324(LC 1), 4=233(LC 1)

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

TOP CHORD 2-5=-290/102

NOTES-

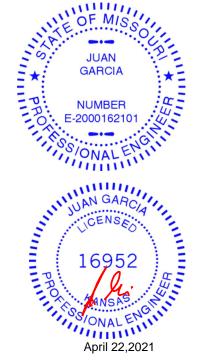
- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate
- 2) This truss has been designed for a 10.0 psf bottom 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) 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.
- 7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 77 lb down and 17 lb up at 1-4-8, and 74 lb down and 31 lb up at 2-3-2, and 88 lb down and 70 lb up at 4-4-15 on top chord, and 6 lb down and 8 lb up at 1-4-8, and 7 lb down and 10 lb up at 2-3-2, and 27 lb down at 4-4-15 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=-32(F) 9=5(F) 10=3(B) 11=-18(F)



Structural wood sheathing directly applied or 4-10-0 oc purlins,

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

except end verticals.



Job Truss Truss Type Qty Lot 138 HT 210402 J2 Jack-Open 2 Wheeler Lumber, Waverly, KS - 66871,

0-10-8

RELEASE FOR CONSTRUCTION **AS NOTED ON PLANS REVIEW** CODES ADMINISTRA 15000007 LEE'S SUMMIT, MISSOURI

Job Reference Optional)

8.430 s Mar 22 2021 MiTek Industries, Inc. Wed Apr 21 16:08:53 2021 Page 1 ID:2ncXplsxOfbjlB6l7Q?gPMzrYWU-ofwC mijQrjeVBYAP21nl7nCG?czsgL2KrjAh9HzORoO

Structural wood sheathing directly applied or 3-4-14 oc purlins,

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

except end verticals.

DATE

3 7.00 12 0-6-0

3-4-14

3-4-14

3x10 ||

Plate Oil	Plate Offsets (X, Y) [5:0-3-8, 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	0.14	Vert(LL)	-0.00	4-5	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.09	Vert(CT)	-0.01	4-5	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.01	3	n/a	n/a		
BCDL	10.0	Code IRC2018/TP	12014	Matri	x-R	Wind(LL)	0.01	4-5	>999	240	Weight: 10 lb	FT = 10%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

WEBS 2x4 SPF No.2

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

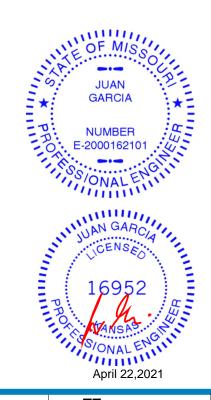
Max Horz 5=90(LC 8)

Max Uplift 5=-19(LC 8), 3=-63(LC 8)

Max Grav 5=227(LC 1), 3=102(LC 15), 4=60(LC 3)

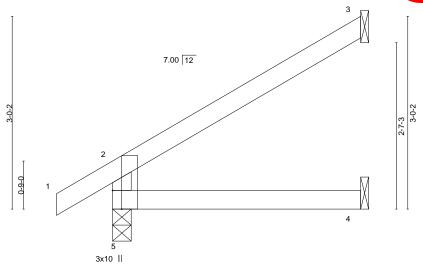
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

- 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.
- 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.





RELEASE FOR CONSTRUCTION Job Truss Truss Type Qty Lot 138 HT **AS NOTED ON PLANS REVIEW** CODES ADMINISTRA 15000008 210402 J3 Jack-Open LEE'S SUMMIT, MISSOURI | Job Reference Optional) | LEE 3 30 MINITI, MISSOCK | 8.430 s Mar 22 2021 MiTek In dustries, Inc. | Wed Apr 21 16:08:54 2021 | Page 1 Wheeler Lumber, Waverly, KS - 66871, ID:2ncXplsxOfbjlB6l7Q?gPMzrYWU-HrUsz1k2c1r VeilbckJ_g_IRw0JcPolU4NwEhjzORoN -0-10-8 3-10-8 0-10-8 DATE



3-10-8

BRACING-

TOP CHORD

BOT CHORD

Plate Off	fsets (X,Y)	[5:0-3-8,Edge]										
LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL	25.Ó	Plate Grip DOL	1.15	TC	0.19	Vert(LL)	-0.01	4-5	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.12	Vert(CT)	-0.02	4-5	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.01	3	n/a	n/a		
BCDL	10.0	Code IRC2018/TP	12014	Matri	x-R	Wind(LL)	0.01	4-5	>999	240	Weight: 11 lb	FT = 10%

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=101(LC 8)

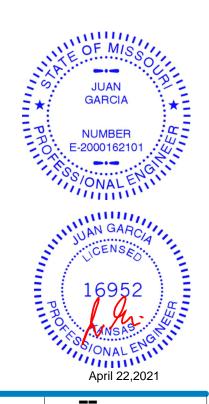
Max Uplift 5=-19(LC 8), 3=-72(LC 8)

Max Grav 5=246(LC 1), 3=118(LC 15), 4=69(LC 3)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate
- 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 3-10-8 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.

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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 138 HT 210402 J4 Jack-Open 2 Wheeler Lumber, Waverly, KS - 66871,

RELEASE FOR CONSTRUCTION **AS NOTED ON PLANS REVIEW** CODES ADMINISTRA 1500000 LEE'S SUMMIT, MISSOURI

Job Reference optional)

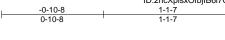
8.430 s Mar 22 2021 MiTek Industries, Inc. Wed Apr 21 16:08:54 2021 Page 1 ID:2ncXplsxOfbjlB6l7Q?gPMzrYWU-HrUer1k2c1mNeijbckJ_g_ISm0KBPoIU4NwEhjzORoN

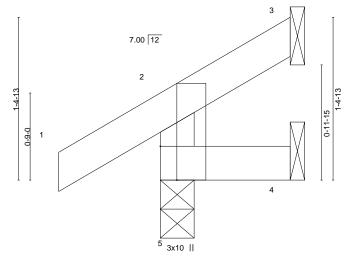
Structural wood sheathing directly applied or 1-1-7 oc purlins,

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

except end verticals.

DATE





1-1-7

Plate Off	sets (X,Y)	[5:0-3-8,Edge]										
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	0.07	Vert(LL)	0.00	` ź	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.02	Vert(CT)	0.00	5	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.00	3	n/a	n/a		
BCDL	10.0	Code IRC2018/TF	12014	Matri	x-R	Wind(LL)	0.00	5	>999	240	Weight: 4 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

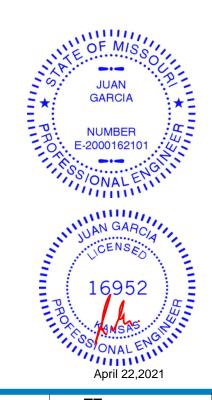
(size) 5=0-3-8, 3=Mechanical, 4=Mechanical

Max Horz 5=36(LC 8)

Max Uplift 5=-22(LC 8), 3=-16(LC 8), 4=-2(LC 5) Max Grav 5=153(LC 1), 3=12(LC 15), 4=15(LC 3)

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.
- 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.





Job Truss Truss Type Qty Lot 138 HT 210402 J5 Jack-Open 3 Wheeler Lumber, Waverly, KS - 66871,

RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW CODES ADMINISTRA 15000010 LEE'S SUMMIT, MISSOURI

Job Reference optional)

8.430 s Mar 22 2021 MiTek Industries, Inc. Wed Apr 21 16:08:55 2021 Page 1 ID:2ncXplsxOfbjlB6l7Q?gPMzrYWU-l221BN gNLuDCRY 9SqDCCHdVPfP8FYdJ1foE9zORoM

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

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

except end verticals.

DATE

0-10-8 1-5-3

8.00 12 2 -6-1-9-7 4-4 0-10-0 3x10 ||

BRACING-

TOP CHORD

BOT CHORD

Plate Offs	Plate Offsets (X,Y) [5:0-5-10,0-1-8]												
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	0.07	Vert(LL)	-0.00	5	>999	240	MT20	197/144	
TCDL	10.0	Lumber DOL	1.15	BC	0.02	Vert(CT)	-0.00	5	>999	180			
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.00	3	n/a	n/a			
BCDL	10.0	Code IRC2018/TI	PI2014	Matri	x-R						Weight: 5 lb	FT = 10%	

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

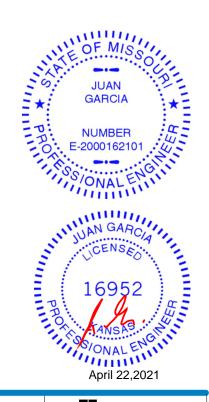
Max Horz 5=50(LC 8)

Max Uplift 5=-12(LC 8), 3=-29(LC 8), 4=-4(LC 8) Max Grav 5=157(LC 1), 3=30(LC 15), 4=22(LC 3)

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

NOTES-

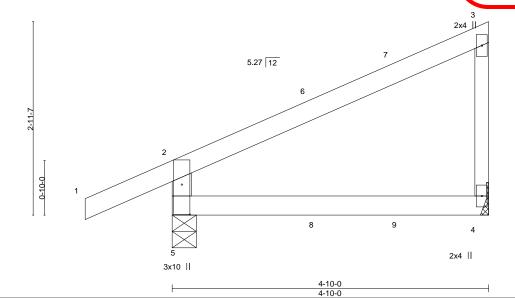
- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate
- 2) This truss has been designed for a 10.0 psf bottom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







RELEASE FOR CONSTRUCTION Job Truss Truss Type Qty Lot 138 HT AS NOTED ON PLANS REVIEW CODES ADMINISTRA 1500011 210402 J6 Diagonal Hip Girder LEE'S SUMMIT, MISSOURI Job Reference (optional) 8.430 s Mar 22 2021 MiTek Ir dustries, Inc. Wed Apr 21 16:08:57 2021 Page 1 Wheeler Lumber, Waverly, KS - 66871, nxvy8xVBYAHtshldNwbDJGc91wmK8ul2zORoK ID:2ncXplsxOfbjlB6l7Q?gPMzrYWU-hQAnc3 4-10-0 1-3-15 4-10-0 DATE



_Plate Off	Plate Offsets (X,Y) [5:0-5-8,0-1-8]												
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 0.29	Vert(LL) -0.02 4-5 >999 360 MT20 197/144									
TCDL	10.0	Lumber DOL 1.15	BC 0.19	Vert(CT) -0.04 4-5 >999 240									
BCLL	0.0 *	Rep Stress Incr NO	WB 0.00	Horz(CT) -0.00 4 n/a n/a									
BCDL	10.0	Code IRC2018/TPI2014	Matrix-R	Wind(LL) 0.01 4-5 >999 240 Weight: 16 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=0-4-7, 4=Mechanical

Max Horz 5=123(LC 5)

Max Uplift 5=-71(LC 8), 4=-61(LC 5) Max Grav 5=325(LC 1), 4=190(LC 1)

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

TOP CHORD 2-5=-288/102

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) 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.
- 7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 74 lb down and 31 lb up at 2-3-2, and 88 lb down and 58 lb up at 3-6-5 on top chord, and 7 lb down and 10 lb up at 2-3-2, and 14 lb down at 3-6-5 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

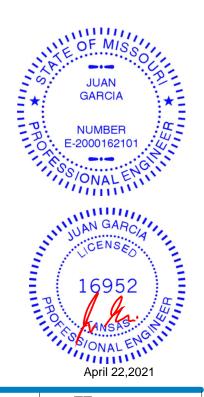
1) Dead + Roof Live (balanced): Lumber Increase=1.15. Plate Increase=1.15

Uniform Loads (plf)

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

Concentrated Loads (lb)

Vert: 8=3(B) 9=-2(F)



Structural wood sheathing directly applied or 4-10-0 oc purlins,

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

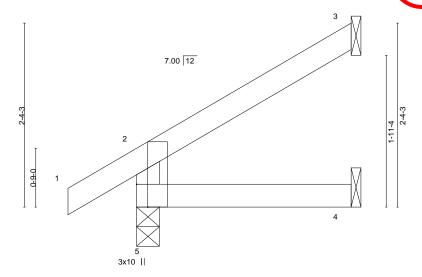
except end verticals.





Job Truss Truss Type Qty Lot 138 HT AS NOTED ON PLANS REVIEW CODES ADMINISTRA 1110 NO 12 210402 J7 Jack-Open LEE'S SUMMIT, MISSOURI Job Reference Optional)

8.430 s Mar 22 2021 MiTek Industries, Inc. Wed Apr 21 16:08:58 2021 Page 1 Wheeler Lumber, Waverly, KS - 66871, ID:2ncXplsxOfbjIB6I7Q?gPMzrYWU-9dk9pP ZgGGo 23MraNwggv8hdhbLcH4?_uSgUzORoJ 2-8-14 -0-10-8 0-10-8 2-8-14 DATE



2-8-14

Plate Oil	iale Olisets (A, 1) [5:0-3-6,Edge]												
LOADIN	G (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	0.08	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	3	n/a	n/a			
BCDL	10.0	Code IRC2018/TPI2	014	Matri	x-R	Wind(LL)	0.00	4-5	>999	240	Weight: 8 lb	FT = 10%	

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

2x4 SPF No.2 TOP CHORD

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

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

Max Horz 5=74(LC 8)

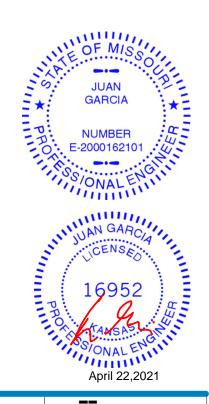
Max Uplift 5=-18(LC 8), 3=-50(LC 8)

Max Grav 5=200(LC 1), 3=79(LC 15), 4=47(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) 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 2-8-14 oc purlins,

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

except end verticals.

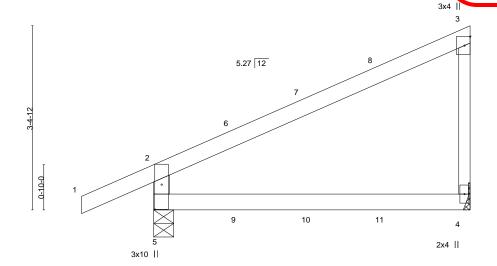
RELEASE FOR CONSTRUCTION







RELEASE FOR CONSTRUCTION Job Truss Truss Type Qty Lot 138 HT **AS NOTED ON PLANS REVIEW** CODES ADMINISTRA 1110 NO 13 210402 J8 Diagonal Hip Girder LEE'S SUMMIT, MISSOURI Job Reference (optional) 8.430 s Mar 22 2021 MiTek Industries, Inc. Wed Apr 21 16:08:59 2021 Page 1 Wheeler Lumber, Waverly, KS - 66871, ID:2ncXplsxOfbjlB6l7Q?gPMzrYWU-dpHX1l BRZOfileYOlu9N2SEm1zG43XDEed?NwzORol -1-3-15 5-10-1 1-3-15 5-10-1 DATE



5-10-1

TOP CHORD

BOT CHORD

Plate Off	rsets (X,Y)	[5:0-5-8,0-1-8]		
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 0.44	Vert(LL) -0.04 4-5 >999 360 MT20 197/144
TCDL	10.0	Lumber DOL 1.15	BC 0.28	Vert(CT) -0.08 4-5 >815 240
BCLL	0.0 *	Rep Stress Incr NO	WB 0.00	Horz(CT) -0.00 4 n/a n/a
BCDL	10.0	Code IRC2018/TPI2014	Matrix-R	Wind(LL) 0.03 4-5 >999 240 Weight: 18 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=0-4-7, 4=Mechanical

Max Horz 5=142(LC 25) Max Uplift 5=-96(LC 8), 4=-91(LC 5) Max Grav 5=349(LC 1), 4=232(LC 1)

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

TOP CHORD 2-5=-303/131

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
- 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, 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.
- 7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 56 lb down and 96 lb up at 1-7-3, and 84 lb down and 48 lb up at 2-10-12, and 90 lb down and 64 lb up at 4-3-1 on top chord, and 8 lb down and 11 lb up at 1-7-3, and 7 lb down at 2-10-12, and 16 lb down and 15 lb up at 4-3-1 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

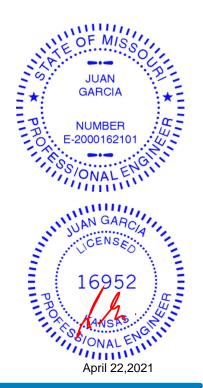
LOAD CASE(S) Standard

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

Uniform Loads (plf)

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

Concentrated Loads (lb) Vert: 6=27(F) 11=-2(F)



Structural wood sheathing directly applied or 5-10-1 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



RELEASE FOR CONSTRUCTION Job Truss Truss Type Qty Lot 138 HT **AS NOTED ON PLANS REVIEW** CODES ADMINISTRA 1750 NO 14 210402 J9 Jack-Open LEE'S SUMMIT, MISSOURI Wheeler Lumber, Waverly, KS - 66871, ID:2ncXplsxOfbjlB6l7Q?gPMzrYWU-5?rwE5pp0 WWMetry QOvF_UAQNzpWnMSINZvNzORoH 2-8-15 2-8-15

0-10-8

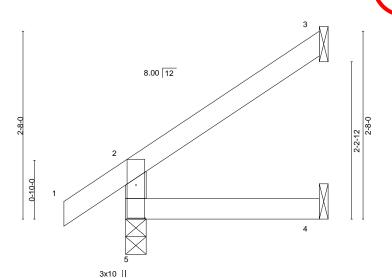


Plate Off	Plate Offsets (X,Y) [5:0-5-10,0-1-8]												
LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL	25.0	Plate Grip DOL	1.15	TC	0.08	Vert(LL)	-0.00	4-5	>999	360	MT20	197/144	
TCDL	10.0	Lumber DOL	1.15	BC	0.06	Vert(CT)	-0.00	4-5	>999	240			
BCLL	0.0 *	Rep Stress 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	4-5	>999	240	Weight: 9 lb	FT = 10%	

LUMBER-BRACING-

2x4 SPF No.2 TOP CHORD TOP CHORD Structural wood sheathing directly applied or 2-8-15 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=84(LC 8)

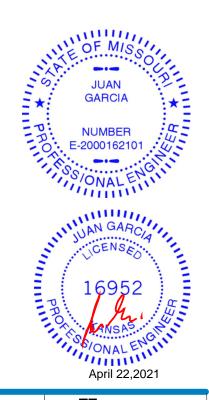
Max Uplift 5=-8(LC 8), 3=-57(LC 8)

Max Grav 5=200(LC 1), 3=81(LC 15), 4=47(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) 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.



DATE





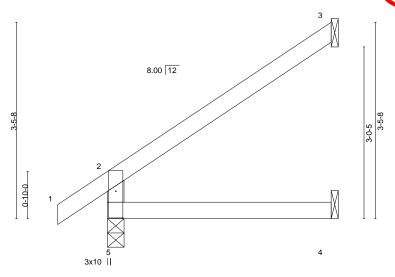


RELEASE FOR CONSTRUCTION Job Truss Truss Type Qty Lot 138 HT AS NOTED ON PLANS REVIEW CODES ADMINISTRA 1110 NO 15 210402 J10 Jack-Open 14 LEE'S SUMMIT, MISSOURI Wheeler Lumber, Waverly, KS - 66871, ID:2ncXplsxOfbjlB6l7Q?gPMzrYWU-WJ?d e1VamVPV838396LIP3onagXAJIE7_pPBzORoV

0-10-8 3-11-4

DATE

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



BOT CHORD

Plate Off	Plate Offsets (X,Y) [5:0-5-10,0-1-8]												
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	0.20	Vert(LL)	-0.01	4-5	>999	360	MT20	197/144	
TCDL	10.0	Lumber DOL	1.15	BC	0.12	Vert(CT)	-0.02	4-5	>999	240			
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.01	3	n/a	n/a			
BCDL	10.0	Code IRC2018/TP	12014	Matri	x-R	Wind(LL)	0.01	4-5	>999	240	Weight: 12 lb	FT = 10%	

LUMBER-BRACING-

2x4 SPF No.2 TOP CHORD TOP CHORD Structural wood sheathing directly applied or 3-11-4 oc purlins, **BOT CHORD** 2x4 SPF No.2 except end verticals.

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

Max Horz 5=82(LC 8) Max Uplift 3=-51(LC 8)

2x4 SPF No.2

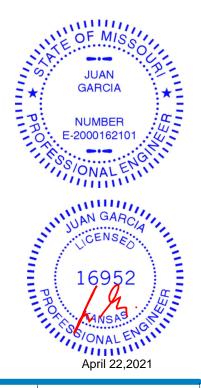
Max Grav 5=249(LC 1), 3=119(LC 13), 4=71(LC 3)

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

NOTES-

WEBS

- 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) 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 138 HT 210402 J11 Jack-Open 2 Wheeler Lumber, Waverly, KS - 66871,

RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW CODES ADMINISTRA 1110 NO 16 LEE'S SUMMIT, MISSOURI

Job Reference optional)

8.430 s Mar 22 2021 MiTek Industries, Inc. Wed Apr 21 16:08:47 2021 Page 1 ffGtuMler mhLuWyGWBxaGdZSTnjNydzORoU

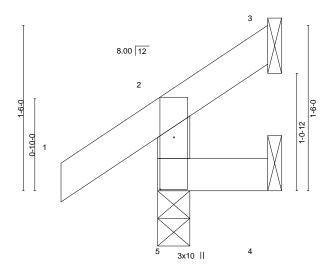
Structural wood sheathing directly applied or 0-11-15 oc purlins,

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

except end verticals.

DATE

ID:2ncXplsxOfbjlB6l7Q?gPMzrYWU-_VZ?V 0-11-15 0-10-8 0-11-15



0-11-15 0-11-15

BRACING-

TOP CHORD

BOT CHORD

Plate Off	Plate Offsets (X,Y) [5:0-5-10,0-1-8]												
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	0.07	Vert(LL)	0.00	5	>999	360	MT20	197/144	
TCDL	10.0	Lumber DOL	1.15	BC	0.02	Vert(CT)	0.00	5	>999	240			
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.00	3	n/a	n/a			
BCDL	10.0	Code IRC2018/TF	PI2014	Matri	x-R	Wind(LL)	0.00	5	>999	240	Weight: 4 lb	FT = 10%	

LUMBER-

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

WEBS 2x4 SPF No.2

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

Max Horz 5=38(LC 8)

Max Uplift 5=-16(LC 8), 3=-16(LC 8), 4=-6(LC 5) Max Grav 5=153(LC 1), 3=9(LC 6), 4=13(LC 3)

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) 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.





Job Truss Truss Type Qty Lot 138 HT 210402 J12 Jack-Open 2 Wheeler Lumber, Waverly, KS - 66871,

RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW CODES ADMINISTRA 1500017 LEE'S SUMMIT, MISSOURI

effGtuMlerhmhLuWyGXBxLGdZSTnjNydzORoU

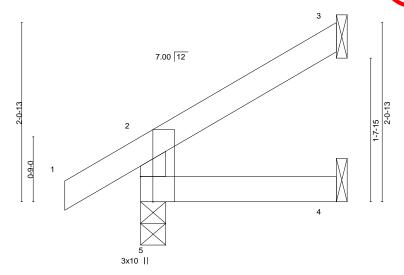
Structural wood sheathing directly applied or 2-3-2 oc purlins,

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

except end verticals.

ID:2ncXplsxOfbjlB6l7Q?gPMzrYWU-_VZ?\ 2-3-2 2-3-2 -0-10-8 0-10-8

DATE



BRACING-

TOP CHORD

BOT CHORD

Plate Off	Plate Offsets (X,Y) [5:0-3-8,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	0.07	Vert(LL)	-0.00	5	>999	360	MT20	197/144	
TCDL	10.0	Lumber DOL	1.15	BC	0.03	Vert(CT)	-0.00	4-5	>999	240			
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.00	3	n/a	n/a			
BCDL	10.0	Code IRC2018/TF	PI2014	Matri	x-R	Wind(LL)	0.00	4-5	>999	240	Weight: 7 lb	FT = 10%	

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

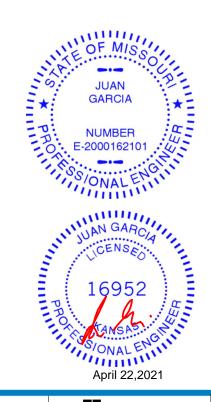
Max Horz 5=62(LC 8)

Max Uplift 5=-19(LC 8), 3=-41(LC 8)

Max Grav 5=182(LC 1), 3=61(LC 15), 4=38(LC 3)

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

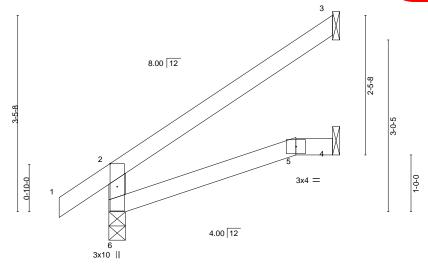
- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate
- 2) This truss has been designed for a 10.0 psf bottom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





RELEASE FOR CONSTRUCTION Job Truss Truss Type Qty Lot 138 HT AS NOTED ON PLANS REVIEW CODES ADMINISTRA 1110 NO 18 210402 J13 Jack-Open 2 LEE'S SUMMIT, MISSOURI Job Reference Optional)

8.430 s Mar 22 2021 MiTek Industries, Inc. Wed Apr 21 16:08:48 2021 Page 1 Wheeler Lumber, Waverly, KS - 66871, I1B0DwBKFUCaQjVPHbGB?4pbiRTwU3zORoT ID:2ncXplsxOfbjlB6l7Q?gPMzrYWU-Sh7Nj_ -0-10-8 0-10-8 3-11-4 DATE



			3-3-8	0-7-	-12	
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL.	in (loc)	l/defl L/d	PLATES GRIP
TCLL 25.0	Plate Grip DOL 1.15	TC 0.20	- '\ /	-0.01 5-6	>999 360	MT20 197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.12	Vert(CT)	-0.02 5-6	>999 240	
BCLL 0.0 * BCDL 10.0	Rep Stress Incr YES Code IRC2018/TPI2014	WB 0.00 Matrix-R	Horz(CT) Wind(LL)	0.01 3 0.01 5-6	n/a n/a >999 240	Weight: 12 lb FT = 10%

BRACING-

TOP CHORD

BOT CHORD

3-3-8

3-11-4

except end verticals.

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

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

LUMBER-

REACTIONS.

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

WEBS 2x4 SPF No.2

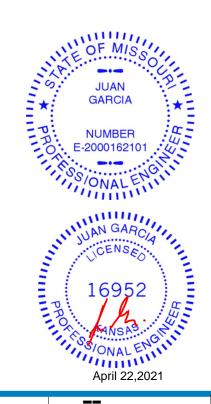
> 6=0-3-8, 3=Mechanical, 4=Mechanical (size)

Max Horz 6=81(LC 8) Max Uplift 3=-51(LC 8)

Max Grav 6=249(LC 1), 3=120(LC 13), 4=70(LC 3)

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





RELEASE FOR CONSTRUCTION Job Truss Truss Type Qty Lot 138 HT AS NOTED ON PLANS REVIEW CODES ADMINISTRAITION019 210402 J14 Diagonal Hip Girder LEE'S SUMMIT, MISSOURI Job Reference Optional)

8.430 s Mar 22 2021 MiTek Industries, Inc. Wed Apr 21 16:08:49 2021 Page 1 Wheeler Lumber, Waverly, KS - 66871, (gwnV847)tepBjpzx1ZC?WekX2lw5CT0VzORoS ID:2ncXplsxOfbjlB6l7Q?gPMzrYWU-wuhlw 5-10-1 1-3-15 3-4-1 2-6-0 DATE 3x4 || 4 5.27 12 3x4 || 3 10 4x5 = 5 9-0-0-10-0 2x4 || 12 13 7 2x4 || 3x10 || 5-10-1 3-4-1 Plate Offsets (X,Y)--[8:0-5-8,0-1-8] SPACING-LOADING (psf) CSI DEFL. in (loc) I/def L/d **PLATES** GRIP TCLL 25.0 Plate Grip DOL 1.15 TC 0.32 Vert(LL) -0.05 6 >999 360 MT20 197/144 TCDL 10.0 Lumber DOL 1.15 BC 0.43 Vert(CT) -0.08 >799 240 **BCLL** 0.0 Rep Stress Incr NO WB 0.00 Horz(CT) 0.03 5 n/a n/a Code IRC2018/TPI2014 FT = 10% **BCDL** 10.0 Wind(LL) >999 240 Weight: 19 lb Matrix-R 0.06 7

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x4 SPF No.2

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

WEBS 2x4 SPF No.2 *Except*

4-5: 2x3 SPF No.2

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

Max Horz 8=125(LC 25)

Max Uplift 8=-103(LC 8), 5=-116(LC 8) Max Grav 8=356(LC 1), 5=253(LC 1)

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

TOP CHORD 2-8=-326/127

NOTES-

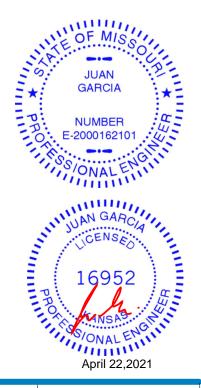
- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate
- 2) This truss has been designed for a 10.0 psf bottom 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) 8=103, 5=116.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 56 lb down and 96 lb up at 1-7-3, and 84 lb down and 48 lb up at 2-10-12, and 63 lb down and 22 lb up at 4-3-1 on top chord, and 8 lb down and 11 lb up at 1-7-3, and 7 lb down at 2-10-12, and 44 lb down and 66 lb up at 4-3-1 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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

Vert: 1-2=-70, 2-4=-70, 7-8=-20, 5-6=-20 Concentrated Loads (lb)

Vert: 9=27(B) 14=-30(B)



Structural wood sheathing directly applied or 5-10-1 oc purlins,

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

except end verticals.



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

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

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 138 HT 210402 J15 Jack-Open Wheeler Lumber, Waverly, KS - 66871,

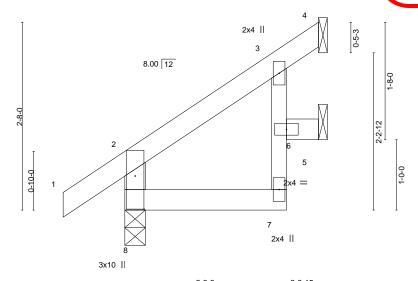
RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW LEE'S SUMMIT, MISSOURI

Job Reference optional)

8.430 s Mar 22 2021 MiTek Industries, Inc. Wed Apr 21 16:08:50 2021 Page 1 ID:2ncXplsxOfbjlB6i7Q?gPMzrYWU-O4F8ighYYoCRA6SqNvE2V8anlOyYT_lu9ly1YyzORoR

2-8-15 2-3-8 2-3-8 0-10-8 0-5-7

DATE



		2-3-8	₁ 2-8-15
		2-3-8	0-5-7
Plate Offcets (X V)	[8:0-5-10 0-1-8]		

T late One	and Offices (X,1) [0.0 0 10,0 1 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	0.07	Vert(LL)	-0.00	6	>999	360	MT20	197/144	
TCDL	10.0	Lumber DOL	1.15	BC	0.06	Vert(CT)	-0.00	7	>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/TF	PI2014	Matr	x-R	Wind(LL)	0.00	6	>999	240	Weight: 10 lb	FT = 10%	

LUMBER-

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

3-7: 2x3 SPF No.2

WEBS 2x4 SPF No.2 BRACING-

TOP CHORD Structural wood sheathing directly applied or 2-8-15 oc purlins,

except end verticals.

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

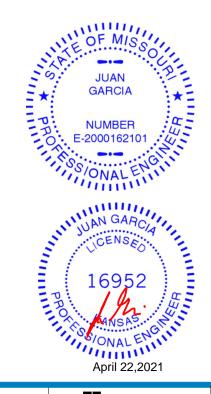
REACTIONS. (size) 8=0-3-8, 4=Mechanical, 5=Mechanical

Max Horz 8=84(LC 8)

Max Uplift 8=-8(LC 8), 4=-8(LC 8), 5=-49(LC 8) Max Grav 8=200(LC 1), 4=43(LC 1), 5=71(LC 15)

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





RELEASE FOR CONSTRUCTION Job Truss Truss Type Qty Lot 138 HT AS NOTED ON PLANS REVIEW CODES ADMINISTRA 15000021 210402 J16 Jack-Open 5 LEE'S SUMMIT, MISSOURI Job Reference (optional) 8.430 s Mar 22 2021 MiTek Industries, Inc. Wed Apr 21 16:08:52 2021 Page 1 Wheeler Lumber, Waverly, KS - 66871, 4QWfPCBYUJGWbZf5LCcRxuoBd3R8dgzORoP ID:2ncXplsxOfbjlB6l7Q?gPMzrYWU-KTMuZMjd -0-10-8 2-3-8 2-3-8 0-10-8 1-7-12 DATE

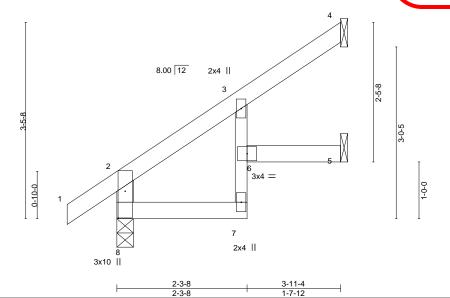


Plate Offsets (X,Y)--[8:0-5-10,0-1-8] SPACING-(loc) **PLATES** GRIP LOADING (psf) CSI. DEFL. in I/def L/d Plate Grip DOL TCLL 25.0 1.15 TC 0.13 Vert(LL) -0.01 6 >999 360 MT20 197/144 TCDL 10.0 Lumber DOL 1.15 ВС 0.16 Vert(CT) -0.02 >999 240 **BCLL** 0.0 Rep Stress Incr YES WB 0.00 Horz(CT) 0.01 5 n/a n/a Code IRC2018/TPI2014 FT = 10% **BCDL** 10.0 Wind(LL) 6 >999 240 Weight: 13 lb Matrix-R 0.01

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

3-7: 2x3 SPF No.2

WEBS 2x4 SPF No.2

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

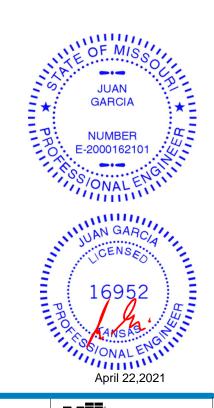
Max Horz 8=82(LC 8)

Max Uplift 4=-34(LC 8), 5=-9(LC 8)

Max Grav 8=249(LC 1), 4=102(LC 13), 5=64(LC 13)

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); 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, 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.



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

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

except end verticals.



RELEASE FOR CONSTRUCTION Job Truss Truss Type Qty Lot 138 HT **AS NOTED ON PLANS REVIEW** CODES ADMINISTRA 15000022 210402 J17 Jack-Open 5 LEE'S SUMMIT, MISSOURI Job Reference optional)

8.430 s Mar 22 2021 MiTek Industries, Inc. Wed Apr 21 16:08:52 2021 Page 1 Wheeler Lumber, Waverly, KS - 66871, 4QWfPCBYUJGWbZf4FCdFxuoBd3R8dgzORoP ID:2ncXplsxOfbjlB6l7Q?gPMzrYWU-KTMuZMjd -0-10-8 0-10-8 2-0-1 1-11-3 DATE 3 8.00 12 2-5-8 3x4 =0-10-0 1-0-0 7.00 12 3x10 ||

LOADIN	G (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	0.20	Vert(LL)	-0.01	5	>999	360	MT20	197/144	
TCDL	10.0	Lumber DOL	1.15	BC	0.11	Vert(CT)	-0.02	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/TPI2	014	Matri	x-R	Wind(LL)	0.01	5	>999	240	Weight: 12 lb	FT = 10%	

BRACING-

TOP CHORD

BOT CHORD

2-0-1

3-11-4

1-11-3

except end verticals.

LUMBER-

REACTIONS.

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

WEBS 2x4 SPF No.2

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

Max Horz 6=81(LC 8) Max Uplift 3=-52(LC 8)

Max Grav 6=249(LC 1), 3=120(LC 13), 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); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Bearing at joint(s) 6 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



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

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







RELEASE FOR CONSTRUCTION Job Truss Truss Type Qty Lot 138 HT AS NOTED ON PLANS REVIEW 210402 LAY1 **GABLE** LEE'S SUMMIT, MISSOURI Job Reference optional)

8.430 s Mar 22 2021 MiTek Industries, Inc. Wed Apr 21 16:09:01 2021 Page 1 Wheeler Lumber, Waverly, KS - 66871, ID:2ncXplsxOfbjlB6l7Q?gPMzrYWU-ZBPIR qRzBfN<mark>BooxWixdSTXgBgjiYzSWhy66RpzORoG</mark> 3-7-13 3-7-13 3-7-13 DATE

4x5 =

15.88 12 2x4 || 2x4 || 0-0-4 0-0-4 2x4 // 8 6 2x4 \\ 2x4 || 2x4 || 2x4 || 7-3-10

LOADIN	VI /	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)	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	0.04	Horz(CT)	0.00	5	n/a	n/a		
BCDL	10.0	Code IRC2018/Ti	PI2014	Matri	x-P						Weight: 30 lb	FT = 10%

BRACING-TOP CHORD

BOT CHORD

LUMBER-

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

OTHERS 2x4 SPF No.2

REACTIONS. All bearings 7-3-10. Max Horz 1=125(LC 5)

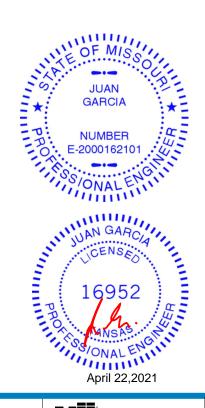
Max Uplift All uplift 100 lb or less at joint(s) 1, 5 except 8=-191(LC 8), 6=-190(LC 9)

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

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

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Gable requires continuous bottom chord bearing.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 5 except (jt=lb) 8=191, 6=190,
- 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.







Job Truss Truss Type Qty Lot 138 HT 210402 LAY2 **GABLE** Job Reference Optional)

8.430 s Mar 22 2021 MiTek Industries, Inc. Wed Apr 21 16:09:02 2021 Page 1 Wheeler Lumber, Waverly, KS - 66871, ID:2ncXplsxOfbjlB6l7Q?gPMzrYWU-2Ozg

RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW CODES ADMINISTRA 141708024 LEE'S SUMMIT, MISSOURI

ng3kUn<mark>tey</mark>M84QSs?g4giE2YHOLfwcsfzFzORoF

14-4-13 9-0-13 5-4-0

DATE

4x5 =

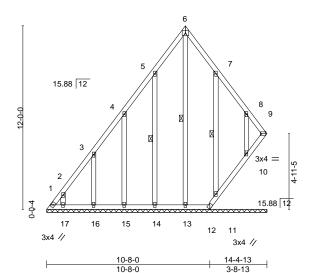


Plate Offsets (X,Y)--[9:Edge,0-1-8] SPACING-**PLATES** GRIP LOADING (psf) 2-0-0 CSI DEFL. in (loc) I/defl L/d Plate Grip DOL TCLL 25.0 1.15 TC 0.07 Vert(LL) n/a n/a 999 MT20 197/144 TCDL 10.0 Lumber DOL 1.15 ВС 0.05 Vert(CT) n/a n/a 999 **BCLL** 0.0 Rep Stress Incr YES WB 0.12 Horz(CT) 0.01 9 n/a n/a Code IRC2018/TPI2014 FT = 10% **BCDL** 10.0 Weight: 93 lb Matrix-S

LUMBER-

OTHERS

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

BRACING-

TOP CHORD **BOT CHORD WEBS**

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

Rigid ceiling directly applied or 10-0-0 oc bracing. 1 Row at midpt 6-13, 5-14, 7-11

REACTIONS. All bearings 14-4-13

Max Horz 1=316(LC 8) (lb) -

2x4 SPF No.2

Max Uplift All uplift 100 lb or less at joint(s) except 1=-237(LC 6), 9=-223(LC 7), 12=-231(LC 9), 14=-177(LC 8),

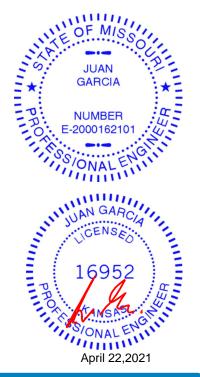
15=-179(LC 8), 16=-181(LC 8), 17=-147(LC 8), 11=-153(LC 9), 10=-160(LC 9)

Max Grav All reactions 250 lb or less at joint(s) 12, 13, 14, 15, 16, 17, 11, 10 except 1=464(LC 8), 9=382(LC

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

TOP CHORD 1-2=-579/310, 2-3=-443/256, 3-4=-259/177 **BOT CHORD** 11-12=-166/290, 10-11=-174/268, 9-10=-172/263

- 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) 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 237 lb uplift at joint 1, 223 lb uplift at joint 9, 231 lb uplift at joint 12, 177 lb uplift at joint 14, 179 lb uplift at joint 15, 181 lb uplift at joint 16, 147 lb uplift at joint 17, 153 lb uplift at joint 11 and 160 lb uplift at joint 10.
- 8) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 9, 11, 10.
- 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.







RELEASE FOR CONSTRUCTION Job Truss Truss Type Qty Lot 138 HT AS NOTED ON PLANS REVIEW CODES ADMINISTRA 150 000 025 210402 LAY3 **GABLE** LEE'S SUMMIT, MISSOURI Job Reference (optional) 8.430 s Mar 22 2021 MiTek Industries, Inc. Wed Apr 21 16:09:04 2021 Page 1 Wheeler Lumber, Waverly, KS - 66871, F61yrGVBWBrUK459Bm2kUIJTyNwLm28zORoD ID:2ncXplsxOfbjlB6l7Q?gPMzrYWU-_m5Q4Ssl 1-10-14 3-2-10 DATE 2x4 || 2x4 || 3x4 // 3 2x4 || 15.88 12 0-0-4 8 6 2x4 || 2x4 || 2x4 // 2x4 || Plate Offsets (X,Y)--[3:0-1-3,Edge] SPACING-**PLATES** GRIP LOADING (psf) 2-0-0 CSI. DEFL. in (loc) I/defl L/d Plate Grip DOL TCLL 25.0 1.15 TC 0.04 Vert(LL) n/a n/a 999 MT20 197/144 TCDL 10.0 Lumber DOL 1.15 ВС 0.02 Vert(CT) n/a n/a 999 **BCLL** 0.0 Rep Stress Incr YES WB 0.02 Horz(CT) -0.00 6 n/a n/a BCDL Code IRC2018/TPI2014 FT = 10% 10.0 Weight: 19 lb Matrix-S LUMBER-BRACING-2x4 SPF No.2 TOP CHORD TOP CHORD Structural wood sheathing directly applied or 5-1-8 oc purlins, **BOT CHORD** except end verticals, and 2-0-0 oc purlins: 3-5.

BOT CHORD

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

2x4 SPF No.2

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

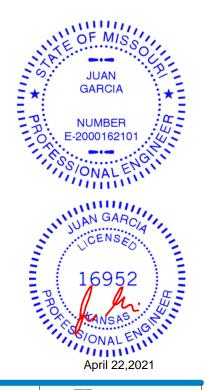
REACTIONS. All bearings 5-1-5.

Max Horz 1=88(LC 5) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 1, 6, 8, 7 Max Grav All reactions 250 lb or less at joint(s) 1, 6, 8, 7

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) 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, 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.





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 138 HT 210402 LAY4 **GABLE** 2 Wheeler Lumber, Waverly, KS - 66871,

RELEASE FOR CONSTRUCTION **AS NOTED ON PLANS REVIEW** CODES ADMINISTRA 15000026 LEE'S SUMMIT, MISSOURI

Job Reference Optional)

8.430 s Mar 22 2021 MiTek Industries, Inc. Wed Apr 21 16:09:05 2021 Page 1 Hoty0PGYP5ilY?ZcJiLaR4UUkz5ca4KaazORoC ID:2ncXplsxOfbjIB6I7Q?gPMzrYWU-Szf

DATE

15-7-9

CSI. DEFL. I/defI L/d (loc) TC 999 0.10 Vert(LL) n/a n/a

Vert(CT)

Horz(CT)

PLATES GRIP 197/144 MT20

Weight: 140 lb FT = 10%

LUMBER-

LOADING (psf)

TCLL

TCDL

BCLL

BCDL

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

WEBS 2x6 SPF No.2 **OTHERS** 2x4 SPF No.2

25.0

10.0

0.0

10.0

BRACING-

TOP CHORD

n/a

11

-0.00

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

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

999

n/a

BOT CHORD WEBS 1 Row at midpt

n/a

n/a

5-15, 6-14, 8-13, 9-12 2 Rows at 1/3 pts

REACTIONS. All bearings 15-7-5.

Max Horz 1=646(LC 8) (lb) -

SPACING-

Plate Grip DOL

Rep Stress Incr

Code IRC2018/TPI2014

Lumber DOL

Max Uplift All uplift 100 lb or less at joint(s) 11, 12 except 1=-183(LC 6), 18=-156(LC 8), 17=-115(LC 8),

16=-126(LC 8), 15=-123(LC 8), 14=-123(LC 8), 13=-133(LC 8)

2-0-0

1.15

1.15

YES

Max Grav All reactions 250 lb or less at joint(s) 11, 17, 16, 15, 14, 13, 12 except 1=620(LC 8), 18=256(LC 15)

ВС

WB

Matrix-S

0.04

0.13

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 1-2=-880/343, 2-3=-732/281, 3-4=-614/239, 4-5=-488/192, 5-6=-363/146

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left exposed; Lumber DOL=1.60 plate grip
- 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, 12 except (jt=lb) 1=183, 18=156, 17=115, 16=126, 15=123, 14=123, 13=133.
- 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 138 HT 210402 LAY5 **GABLE**

RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW CODES ADMINISTRA 1417019027 LEE'S SUMMIT, MISSOURI

Job Reference optional)

8.430 s Mar 22 2021 MiTek li dustries, Inc. Wed Apr 21 16:09:07 2021 Page 1
ID:2ncXplsxOfbjlB6l7Q?gPMzrYWU-OLmZ JuCY1PM/F5sz21iknXdFmvyb8O3uZQfTzORoA JuCY1PWYF5sz21iknXdFmvyb8O3uZQfTzORoA

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

3-12, 4-11, 5-10, 6-9

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

7-8

except end verticals.

1 Row at midpt 2 Rows at 1/3 pts

8-10-12 oc bracing: 13-14.

DATE

10-9-8 10-9-8

			_		
LOADING	G (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d	PLATES GRIP
TCLL	25.0	Plate Grip DOL 1.15	TC 0.70	Vert(LL) n/a - n/a 999	MT20 197/144
TCDL	10.0	Lumber DOL 1.15	BC 0.04	Vert(CT) n/a - n/a 999	
BCLL	0.0 *	Rep Stress Incr YES	WB 0.34	Horz(CT) -0.00 8 n/a n/a	
BCDL	10.0	Code IRC2018/TPI2014	Matrix-S	, ,	Weight: 128 lb FT = 10%

BOT CHORD

WEBS

6x6 =

LUMBER-BRACING-TOP CHORD

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

Wheeler Lumber,

Waverly, KS - 66871,

7-8: 2x6 SPF No.2, 1-13: 2x3 SPF No.2

OTHERS 2x4 SPF No.2

REACTIONS. All bearings 10-9-8.

Max Horz 14=447(LC 8) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 8, 9 except 14=-624(LC 6), 13=-1451(LC 8), 12=-135(LC 8),

11=-121(LC 8), 10=-133(LC 8)

Max Grav All reactions 250 lb or less at joint(s) 8, 12, 11, 10, 9 except 14=1766(LC 8), 13=635(LC 6)

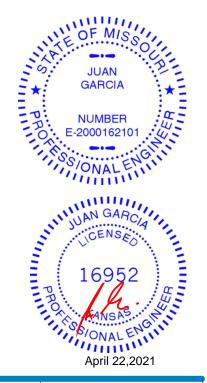
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 1-14=-1740/630, 1-2=-607/237, 2-3=-499/197, 3-4=-365/146

BOT CHORD 13-14=-440/164 **WEBS** 1-13=-518/1394

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) 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) 8, 9 except (jt=lb) 14=624, 13=1451, 12=135, 11=121, 10=133.
- 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 138 HT 210402 LAY6 **GABLE** Wheeler Lumber, Waverly, KS - 66871,

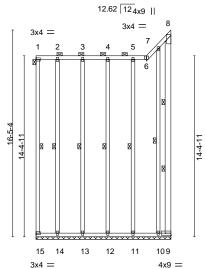
RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW CODES ADMINISTRA 15000028 LEE'S SUMMIT, MISSOURI

Job Reference optional)

8.430 s Mar 22 2021 MiTek Industries, Inc. Wed Apr 21 16:09:08 2021 Page 1 ID:2ncXplsxOfbjlB6l7Q?gPMzrYWU-sYKx qvqJKXQHQhZGExKIAfzFh2hYIYJ_BvzORo9

10-8-10 1-11-6 8-9-4

DATE



10-8-10 10-8-10

Plate Offsets (X,Y) [8:Edge,0-1-8], [9:Edge,0-2-0]												
LOADING (ps)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.)	Plate Grip DOL	1.15	TC	0.46	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL 10.)	Lumber DOL	1.15	BC	0.54	Vert(CT)	n/a	-	n/a	999		
BCLL 0.) *	Rep Stress Incr	YES	WB	0.33	Horz(CT)	-0.00	9	n/a	n/a		
BCDL 10.)	Code IRC2018/TF	PI2014	Matri	x-R						Weight: 150 lb	FT = 10%

LUMBER-BRACING-

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

2x4 SPF No.2 *Except*

8-9: 2x6 SPF No.2 2x4 SPF No.2

BOT CHORD WEBS

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 1-6.

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

1 Row at midpt 1-15, 2-14, 3-13, 4-12, 5-11, 7-10 2 Rows at 1/3 pts 8-9

REACTIONS. All bearings 10-8-10.

Max Horz 15=71(LC 8) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 15, 13, 12, 11 except 9=-1010(LC 8), 14=-288(LC 8), 10=-307(LC

Max Grav All reactions 250 lb or less at joint(s) 15, 14, 13, 12, 11 except 9=387(LC 6), 10=994(LC 8)

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

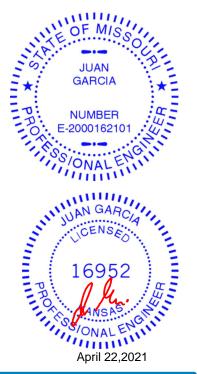
TOP CHORD 7-8=-260/102, 8-9=-158/397

WEBS 7-10=-319/98

NOTES-

OTHERS

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Provide adequate drainage to prevent water ponding.
- 3) 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) 15, 13, 12, 11 except (it=lb) 9=1010, 14=288, 10=307.
- 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.





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



RELEASE FOR CONSTRUCTION Job Truss Truss Type Qty Lot 138 HT AS NOTED ON PLANS REVIEW 210402 P1 Piggyback 8 LEE'S SUMMIT, MISSOURI Job Reference (8.430 s Mar 22 2021 MiTek Ir optional)
dustries, Inc. Wed Apr 21 16:09:09 2021 Page 1 Wheeler Lumber, Waverly, KS - 66871, rT4efEx**₽V_O4Vn9s1V3RbQamhXC2XjLzORo8** ID:2ncXplsxOfbjlB6l7Q?gPMzrYWU-KkuJ7A 5-0-8 2-6-4 2-6-4 **DATE** 4x5 = 3 7.00 12 1-5-10 2 5 0-4-5 0-4-5 0-1-8 1-0 2x4 = 2x4 || 2x4 = LOADING (psf) SPACING-2-0-0 CSI. DEFL. I/defI L/d **PLATES** GRIP (loc)

Vert(LL)

Vert(CT)

Horz(CT)

BRACING-

TOP CHORD

BOT CHORD

0.00

0.00

0.00

120

120

n/a

n/r

n/r

n/a

LUMBER-

REACTIONS.

TCLL

TCDL

BCLL

BCDL

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

BOT CHORD **OTHERS** 2x3 SPF No.2

25.0

10.0

0.0

10.0

2=3-4-10, 4=3-4-10, 6=3-4-10 (size)

Plate Grip DOL

Rep Stress Incr

Code IRC2018/TPI2014

Lumber DOL

Max Horz 2=34(LC 7) Max Uplift 2=-34(LC 8), 4=-38(LC 9)

Max Grav 2=125(LC 1), 4=125(LC 1), 6=130(LC 1)

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

NOTES-

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

TC

ВС

WB

Matrix-P

0.04

0.02

0.02

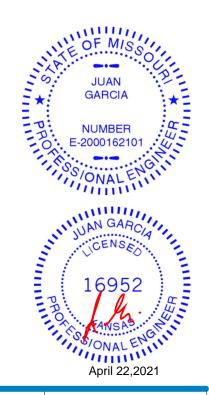
- 3) Gable requires continuous bottom chord bearing.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

1.15

1.15

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.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 4.
- This truss 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) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



197/144

FT = 10%

MT20

Structural wood sheathing directly applied or 5-0-8 oc purlins.

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

Weight: 11 lb



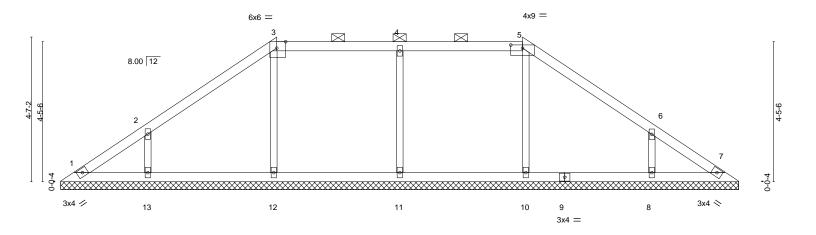
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

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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



						REELAGE I ON CONCINCOTION
Job	Truss	Truss Type	Qty	Ply	Lot 138 HT	AS NOTED ON PLANS REVIEW
						CODES ADMINISTRA 1410 100 100 100 100 100 100 100 100 10
210402	V1	Valley	1	1	Job Reference (pptional) LEE'S SUMMIT, MISSOURI
Wheeler Lumber, War	verly, KS - 66871,		8.4	430 s Mar 2	22 2021 MiTek Ir	dustries, Inc. Wed Apr 21 16:09:10 2021 Page 1
			ID:2ncXplsxOt	bjIB6I7Q?g	gPMzrYWU-pwS	KWx5ryr <mark>₿</mark> XB_gY5bkJMP9dSlx9?7rlso5GozORo7
f.	6-10-11	14-8-5			1	21-7-0
r	6-10-11	7-9-10			1	⁶ DATE



0-0-6 Plate Offsets (X,Y)	[3:0-3-6,Edge], [5:0-4-8,0-1-3]		21-6-10					· ·
LOADING (psf))-0 CSI .	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL 1.	.15 TC	0.21 Vert(LL)	n/a -	n/a	999	MT20	197/144
TCDL 10.0	Lumber DOL 1.	.15 BC	0.15 Vert(CT)	n/a -	n/a	999		
BCLL 0.0 *	Rep Stress Incr YI	ES WB	0.14 Horz(CT)	0.00 7	n/a	n/a		
3CDL 10.0	Code IRC2018/TPI201	4 Matrix	ix-S				Weight: 63 lb	FT = 10%

LUMBER-BRACING-

2x4 SPF No.2 TOP CHORD TOP CHORD

BOT CHORD 2x4 SPF No.2 2-0-0 oc purlins (6-0-0 max.): 3-5.

OTHERS 2x3 SPF No.2 **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 21-6-4. (lb) -Max Horz 1=110(LC 5)

Max Uplift All uplift 100 lb or less at joint(s) 1, 10, 11, 12 except 13=-145(LC 8), 8=-144(LC 9)

Max Grav All reactions 250 lb or less at joint(s) 1, 7 except 10=367(LC 24), 11=461(LC 23), 12=369(LC 15),

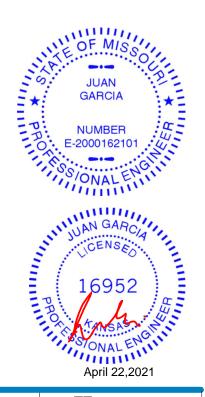
13=412(LC 15), 8=412(LC 16)

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

WEBS 4-11=-311/134, 2-13=-294/187, 6-8=-294/186

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) All plates are 2x4 MT20 unless otherwise indicated.
- 5) Gable requires continuous bottom chord bearing.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 10, 11, 12 except (jt=lb) 13=145, 8=144.
- 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.

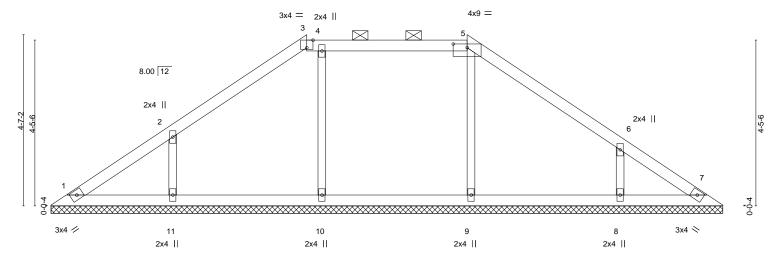


Structural wood sheathing directly applied or 6-0-0 oc purlins, except

DELEASE EOD CONSTRUCTION



							RELEASE I ON CONCINCOTION
Job	Truss	Truss Type		Qty	Ply	Lot 138 HT	AS NOTED ON PLANS REVIEW
							CODES ADMINISTRA 1450 031
210402	V2	Valley		1	1	Job Reference	pptional) LEE'S SUMMIT, MISSOURI
Wheeler Lumber, Way	verly, KS - 66871,			8.4	430 s Mar	22 2021 MiTek Ir	dustries, Inc. Wed Apr 21 16:09:16 2021 Page 1
	•		ID:2n	cXplsxOft	jIB6l7Q?g	PMzrYWU-d4pzt	Z?sQnX <mark>BH6RquMi8ZdfCVtphZkoj8oFPTRzORo1</mark>
1	6-10-11		11-2-5		1		18-1-0
	6-10-11		4-3-10				6-10-11 DATE



0-Q-6			18-1-0	
0-0-6			18-0-10	<u>'</u>
Plate Offsets (X,Y)-	[3:0-2-0,Edge], [5:0-4-8,0-1-3]			
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 0.18	Vert(LL) n/a - n/a 999	MT20 197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.12	Vert(CT) n/a - n/a 999	
BCLL 0.0 *	Rep Stress Incr YES	WB 0.12	Horz(CT) 0.00 7 n/a n/a	
BCDL 10.0	Code IRC2018/TPI2014	Matrix-S	, ,	Weight: 52 lb FT = 10%

LUMBER-BRACING-

2x4 SPF No.2 TOP CHORD BOT CHORD 2x4 SPF No.2 **OTHERS** 2x3 SPF No.2 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 3-5.

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

REACTIONS. All bearings 18-0-4.

(lb) -Max Horz 1=110(LC 7)

Max Uplift All uplift 100 lb or less at joint(s) 1, 9, 10 except 11=-134(LC 8), 8=-144(LC 9)

Max Grav All reactions 250 lb or less at joint(s) 1, 7 except 9=405(LC 24), 10=405(LC 23), 11=412(LC 15),

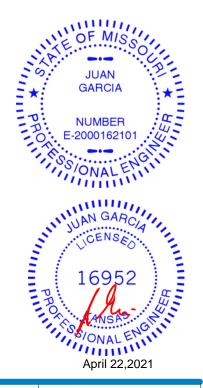
8=410(LC 16)

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

5-9=-280/96, 4-10=-281/112, 2-11=-282/175, 6-8=-293/186

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) 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, with BCDL = 10.0psf.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 9, 10 except (jt=lb) 11=134, 8=144.
- 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.



DELEASE EOD CONSTRUCTION



RELEASE FOR CONSTRUCTION Job Truss Truss Type Qty Lot 138 HT **AS NOTED ON PLANS REVIEW** CODES ADMINISTRA 15000032 210402 V3 Valley LEE'S SUMMIT, MISSOURI Job Reference optional)

8.430 s Mar 22 2021 MiTek Industries, Inc. Wed Apr 21 16:09:18 2021 Page 1 Wheeler Lumber, Waverly, KS - 66871, 16yPozXBYC0nkce2kY1hVY1ev0b6kWYKzORo? ID:2ncXplsxOfbjlB6l7Q?gPMzrYWU-aTxj0F 14-7-0 6-10-11 0-9-10 6-10-11 DATE 3x4 = 4x9 =3 8.00 12 2x4 || 2 -5-6 ₅2x4 || 9 7 8 3x4 > 3x4 / 2x4 || 2x4 || 2x4 ||

TCLL 25.0 Plate Grip DOL 1.15 TC 0.18 Vert(LL) n/a - n/a 999 MT20 19 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 0.09 Horz(CT) 0.00 6 n/a n/a	GRIP 197/144 FT = 10%

14-7-0 14-6-10

LUMBER-

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

OTHERS 2x3 SPF No.2 BRACING-

TOP CHORD

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

2-0-0 oc purlins (6-0-0 max.): 3-4.

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

REACTIONS. All bearings 14-6-4.

(lb) -Max Horz 1=110(LC 7)

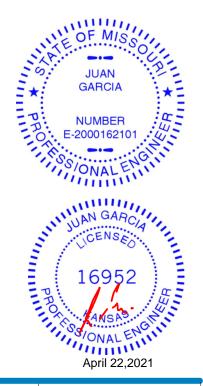
Max Uplift All uplift 100 lb or less at joint(s) 6 except 9=-132(LC 8), 7=-147(LC 9)

Max Grav All reactions 250 lb or less at joint(s) 1, 6 except 8=274(LC 22), 9=374(LC 15), 7=361(LC 16)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. 2-9=-286/173, 5-7=-291/188 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) 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) 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) 6 except (it=lb) 9=132, 7=147.
- 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



RELEASE FOR CONSTRUCTION Job Truss Truss Type Qty Lot 138 HT AS NOTED ON PLANS REVIEW CODES ADMINISTRA 15000033 Valley 210402 V4 LEE'S SUMMIT, MISSOURI Job Reference Optional)

8.430 s Mar 22 2021 MiTek Industries, Inc. Wed Apr 21 16:09:18 2021 Page 1 Wheeler Lumber, Waverly, KS - 66871, ID:2ncXplsxOfbjlB6l7Q?gPMzrYWU-aTxj0 16yPozRhbC0nkce2kV9hTi1es0b6kWYKzORo? 11-1-0 5-6-8 DATE 6x6 = 2 8.00 12 4 3x4 // 3x4 < 11-1-0 11-0-10 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) 999 197/144 0.36 n/a n/a MT20 **TCDL** 10.0 Lumber DOL 1.15 ВС 0.22 Vert(CT) n/a n/a 999 **BCLL** 0.0 Rep Stress Incr YES WB 0.09 Horz(CT) 0.00 3 n/a n/a Code IRC2018/TPI2014 BCDL 10.0 Matrix-S Weight: 29 lb FT = 10% LUMBER-**BRACING-**TOP CHORD TOP CHORD 2x4 SPF No 2 Structural wood sheathing directly applied or 6-0-0 oc purlins. BOT CHORD 2x4 SPF No.2 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. **OTHERS** 2x3 SPF No.2 REACTIONS.

1=11-0-4, 3=11-0-4, 4=11-0-4 (size)

Max Horz 1=-88(LC 4)

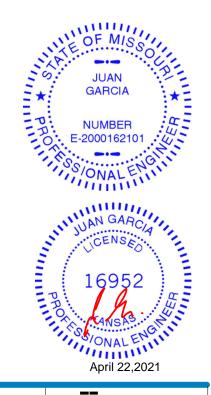
Max Uplift 1=-44(LC 8), 3=-55(LC 9), 4=-17(LC 8) Max Grav 1=234(LC 1), 3=234(LC 1), 4=443(LC 1)

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

2-4=-288/73 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) 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, 3, 4.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



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RELEASE FOR CONSTRUCTION Job Truss Truss Type Qty Lot 138 HT AS NOTED ON PLANS REVIEW CODES ADMINISTRA 15000034 Valley 210402 V5 LEE'S SUMMIT, MISSOURI Job Reference Optional)

8.430 s Mar 22 2021 MiTek Industries, Inc. Wed Apr 21 16:09:19 2021 Page 1 Wheeler Lumber, Waverly, KS - 66871, b1kjiwg&XPZUFrBGHiR5rsm6w9glT34mzORo ID:2ncXplsxOfbjlB6l7Q?gPMzrYWU-2fV5l 3-9-8 3-9-8 **DATE** 4x5 = 2 8.00 12 3 7-0-6 0-0-4 2x4 | 2x4 / 2x4 < 7-6-10 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) 999 197/144 **TCLL** 0.20 n/a n/a MT20 **TCDL** 10.0 Lumber DOL 1.15 ВС 0.09 Vert(CT) n/a n/a 999 **BCLL** 0.0 Rep Stress Incr YES WB 0.04 Horz(CT) 0.00 3 n/a n/a Code IRC2018/TPI2014 BCDL 10.0 Matrix-P Weight: 19 lb FT = 10% LUMBER-**BRACING-**2x4 SPF No 2 TOP CHORD TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.

BOT CHORD

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

BOT CHORD 2x4 SPF No.2

(size)

OTHERS 2x3 SPF No.2

> Max Horz 1=-58(LC 4) Max Uplift 1=-37(LC 8), 3=-44(LC 9)

Max Grav 1=168(LC 1), 3=168(LC 1), 4=261(LC 1)

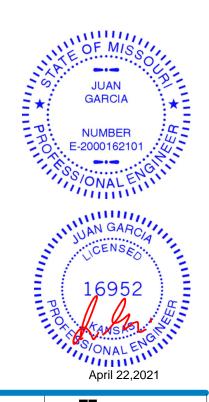
1=7-6-4, 3=7-6-4, 4=7-6-4

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

NOTES-

REACTIONS.

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





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RELEASE FOR CONSTRUCTION Job Truss Truss Type Qty Lot 138 HT AS NOTED ON PLANS REVIEW CODES ADMINISTRA 1500 035 Valley 210402 V₆ LEE'S SUMMIT, MISSOURI Job Reference Optional)

8.430 s Mar 22 2021 MiTek Industries, Inc. Wed Apr 21 16:09:20 2021 Page 1 Wheeler Lumber, Waverly, KS - 66871, 2MU02g<mark>RjK</mark>b7Cm4jTpwiUB0VYkJ3PDcbCzORnz ID:2ncXplsxOfbjlB6l7Q?gPMzrYWU-Wr3TRw 2-0-8 2-0-8 **DATE** 3x4 = 2 8.00 12 3 0-0-4 9-0-0 2x4 / 2x4 < 4-1-0 4-0-10 Plate Offsets (X,Y)--[2:0-2-0,Edge] SPACING-DEFL. **PLATES** GRIP LOADING (psf) CSI. in (loc) I/defI L/d 25.0 Plate Grip DOL TCLL 1.15 TC 0.04 Vert(LL) n/a 999 MT20 197/144 n/a 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 0.00 Horz(CT) 0.00 3 n/a n/a Code IRC2018/TPI2014 FT = 10% **BCDL** 10.0 Matrix-P Weight: 9 lb BRACING-LUMBER-TOP CHORD 2x4 SPF No.2 TOP CHORD Structural wood sheathing directly applied or 4-1-0 oc purlins. BOT CHORD 2x4 SPF No.2 **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc bracing. REACTIONS. 1=4-0-4, 3=4-0-4 (size) Max Horz 1=-27(LC 4) Max Uplift 1=-16(LC 8), 3=-16(LC 9) Max Grav 1=140(LC 1), 3=140(LC 1)

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

NOTES-

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



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RELEASE FOR CONSTRUCTION Job Truss Truss Type Qty Lot 138 HT **AS NOTED ON PLANS REVIEW** CODES ADMINISTRA 141708036 V7 210402 Valley LEE'S SUMMIT, MISSOURI Job Reference optional)

8.430 s Mar 22 2021 MiTek Industries, Inc. Wed Apr 21 16:09:21 2021 Page 1 Wheeler Lumber, Waverly, KS - 66871, ID:2ncXplsxOfbjlB6l7Q?gPMzrYWU-_2cse0 3_FKAXOUnhvIJGhM4SuXwE?zSH3yA7fzORny 3-1-2 3-1-2 DATE 2x4 || 2 7.00 12 -9-11 0-0-4 3 2x4 🖊 2x4 ||

LOADING (psf) TCLL 25.0	SPACING- 2-0-0 Plate Grip DOL 1.15	CSI. TC 0.10	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 0.06	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: 8 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

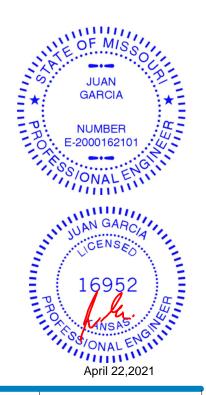
> 1=3-0-11, 3=3-0-11 (size) Max Horz 1=57(LC 5)

Max Uplift 1=-12(LC 8), 3=-29(LC 8) Max Grav 1=110(LC 1), 3=116(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, 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 3-1-2 oc purlins,

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

except end verticals.



Job Truss Truss Type Qty Lot 138 HT 210402 V8 Valley Job Reference Optional)

8.430 s Mar 22 2021 MiTek Industries, Inc. Wed Apr 21 16:09:22 2021 Page 1 Wheeler Lumber, Waverly, KS - 66871, ID:2ncXplsxOfbjlB6l7Q?gPMzrYWU-SEA sc4c0dlBY1u_EdpYouvDmls4zSDcWjijg5zORnx 4-2-0

4-2-0

0-10-8

RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW CODES ADMINISTRA 15000037 LEE'S SUMMIT, MISSOURI

DATE

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

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

except end verticals.

2x4 || 7.00 12 8-8-0 3x6 2x4 ||

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 0.19	Vert(LL) -0.01 1 n/r	120	MT20 197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.12	Vert(CT) 0.00 1 n/r	120	
BCLL 0.0	Rep Stress Incr YES	WB 0.00	Horz(CT) -0.00 4 n/a	n/a	
BCDL 10.0	Code IRC2018/TPI2014	Matrix-R			Weight: 14 lb FT = 10%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-TOP CHORD 2x4 SPF No 2

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

3-4: 2x3 SPF No.2

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

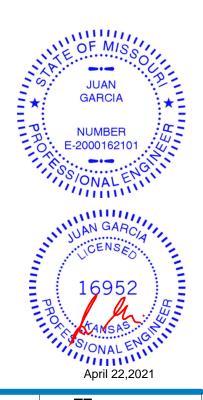
Max Horz 5=120(LC 5)

Max Uplift 5=-40(LC 8), 4=-50(LC 8) Max Grav 5=257(LC 1), 4=183(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.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in 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, 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.





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

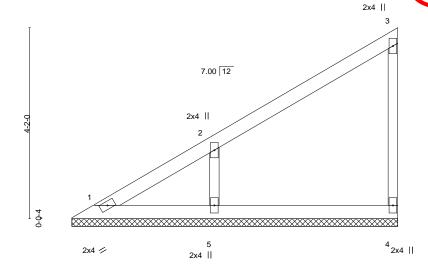
ANSI/TP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



16023 Swingley Ridge Rd Chesterfield, MO 63017

RELEASE FOR CONSTRUCTION Job Truss Truss Type Qty Lot 138 HT **AS NOTED ON PLANS REVIEW** CODES ADMINISTRAITION038 210402 V9 Valley LEE'S SUMMIT, MISSOURI Job Reference optional)

8.430 s Mar 22 2021 MiTek Industries, Inc. Wed Apr 21 16:09:23 2021 Page 1 Wheeler Lumber, Waverly, KS - 66871, ID:2ncXplsxOfbjlB6l7Q?gPMzrYWU-wQkc3 5FnxQFBYTAoKKnL6RNYiChivdllNRHCXzORnw 7-1-11 DATE



LOADING (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip Do	OL 1.15	TC	0.19	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL 10.0	Lumber DOL	. 1.15	BC	0.10	Vert(CT)	n/a	-	n/a	999		
BCLL 0.0	Rep Stress I	ncr YES	WB	0.05	Horz(CT)	-0.00	4	n/a	n/a		
BCDL 10.0	Code IRC20	18/TPI2014	Matrix	x-P						Weight: 21 lb	FT = 10%

TOP CHORD

BOT CHORD

LUMBER-BRACING-

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

WEBS 2x3 SPF No.2 **OTHERS** 2x3 SPF No.2

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

Max Horz 1=151(LC 5)

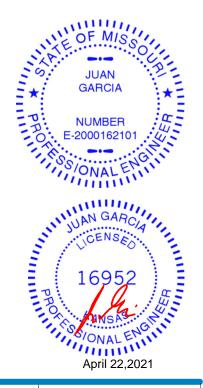
Max Uplift 1=-10(LC 4), 4=-30(LC 5), 5=-128(LC 8) Max Grav 1=91(LC 16), 4=153(LC 15), 5=387(LC 15)

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

2-5=-303/179 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) 1, 4 except (jt=lb) 5=128
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



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 138 HT Valley 210402 V10 Job Reference optional)

8.430 s Mar 22 2021 MiTek Industries, Inc. Wed Apr 21 16:09:11 2021 Page 1 Wheeler Lumber, Waverly, KS - 66871, ID:2ncXplsxOfbjlB6l7Q?gPMzrYWU-H704 sxjcFvyBXYs5p6zsaylLs5duUV_WXeoEzORo6

4-10-5

RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW CODES ADMINISTRA 15000039 LEE'S SUMMIT, MISSOURI

DATE

Structural wood sheathing directly applied or 4-10-5 oc purlins,

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

except end verticals.

2 2x4 || 7.00 12 0-0-4 3 2x4 || 2x4 🖊

LOADIN	\(\(\)	SPACING- 2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL TCDL	25.0 10.0	Plate Grip DOL 1.15 Lumber DOL 1.15	TC 0.34 BC 0.18	· ,	n/a - n/a -	n/a n/a	999 999	MT20	197/144
BCLL	0.0 *	Rep Stress Incr YES	WB 0.00	\ '	0.00 3	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014	Matrix-P	, ,				Weight: 13 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

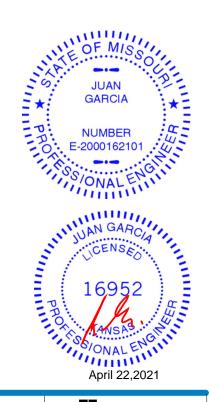
REACTIONS. 1=4-9-14, 3=4-9-14 (size)

Max Horz 1=98(LC 5) Max Uplift 1=-20(LC 8), 3=-50(LC 8) Max Grav 1=190(LC 1), 3=200(LC 15)

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

NOTES-

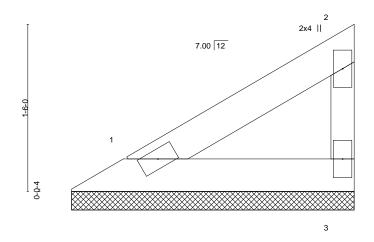
- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Gable requires continuous bottom 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, 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 138 HT AS NOTED ON PLANS REVIEW CODES ADMINISTRA 14508040 Valley 210402 V11 LEE'S SUMMIT, MISSOURI Job Reference optional)

8.430 s Mar 22 2021 MiTek Industries, Inc. Wed Apr 21 16:09:12 2021 Page 1 Wheeler Lumber, Waverly, KS - 66871, ID:2ncXplsxOfbjlB6l7Q?gPMzrYWU-lJaSlBy NZ1pouby/WdCOnUYNGT9dxl7DAHBKgzORo5 2-6-14 DATE



2x4 🥢 2x4 ||

LOADING	VI /	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)	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	0.00	Horz(CT)	-0.00	3	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI	2014	Matri	x-P						Weight: 6 lb	FT = 10%

TOP CHORD

BOT CHORD

LUMBER-BRACING-

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

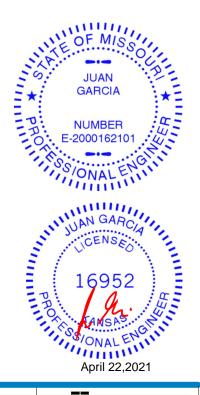
REACTIONS. 1=2-6-7, 3=2-6-7 (size)

Max Horz 1=45(LC 5) Max Uplift 1=-9(LC 8), 3=-23(LC 8) Max Grav 1=87(LC 1), 3=91(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, 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 2-6-14 oc purlins,

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

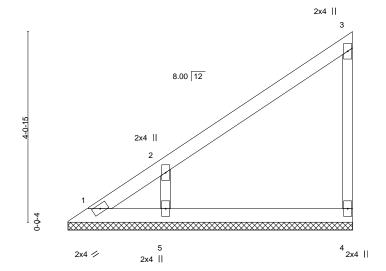
except end verticals.

RELEASE FOR CONSTRUCTION



Job Truss Truss Type Qty Lot 138 HT AS NOTED ON PLANS REVIEW CODES ADMINISTRA 1508041 Valley 210402 V12 LEE'S SUMMIT, MISSOURI Job Reference optional)

8.430 s Mar 22 2021 MiTek Industries, Inc. Wed Apr 21 16:09:12 2021 Page 1 Wheeler Lumber, Waverly, KS - 66871, ID:2ncXplsxOfbjlB6l7Q?gPMzrYWU-IJaSlByL NZ1poU PMVdCOnUVDGS6dxz7DAHBKgzORo5 6-1-7 DATE



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	0.20	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 Y	'ES	WB	0.05	Horz(CT)	-0.00	4	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI201	14	Matri	x-P						Weight: 18 lb	FT = 10%

TOP CHORD

BOT CHORD

LUMBER-BRACING-

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

OTHERS 2x3 SPF No.2

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

Max Horz 1=147(LC 5)

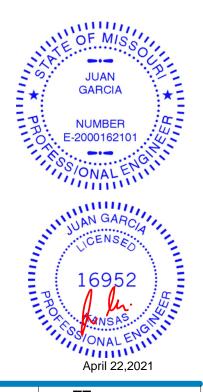
Max Uplift 1=-51(LC 6), 4=-36(LC 5), 5=-139(LC 8) Max Grav 1=78(LC 5), 4=157(LC 15), 5=374(LC 15)

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

2-5=-294/188 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) 1, 4 except (jt=lb) 5=139
- 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.

RELEASE FOR CONSTRUCTION





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 sand 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



RELEASE FOR CONSTRUCTION Job Truss Truss Type Qty Lot 138 HT **AS NOTED ON PLANS REVIEW** CODES ADMINISTRA 150000042 Valley 210402 V13 LEE'S SUMMIT, MISSOURI Job Reference optional)

8.430 s Mar 22 2021 MiTek Industries, Inc. Wed Apr 21 16:09:13 2021 Page 1 Wheeler Lumber, Waverly, KS - 66871, ID:2ncXplsxOfbjlB6l7Q?gPMzrYWU-DV8czXzz8t9@ViFDE8Rx?1fvgnhMO?HSq0ls6zORo4 4-4-7 DATE 2x4 || 2

8.00 12 0-0-4 3 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** 0.27 n/a n/a MT20 **TCDL** 10.0 Lumber DOL 1.15 ВС 0.14 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 Code IRC2018/TPI2014 BCDL 10.0 Matrix-P Weight: 12 lb FT = 10%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

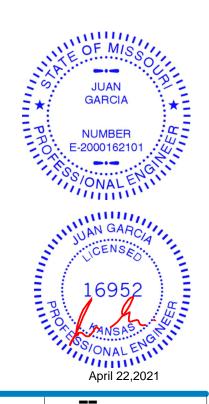
TOP CHORD 2x4 SPF No 2 BOT CHORD 2x4 SPF No.2 WEBS 2x3 SPF No.2

1=4-4-1, 3=4-4-1 (size) Max Horz 1=100(LC 5) Max Uplift 1=-14(LC 8), 3=-49(LC 8) Max Grav 1=170(LC 1), 3=183(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, 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 4-4-7 oc purlins,

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

except end verticals.



RELEASE FOR CONSTRUCTION Job Truss Truss Type Qty Lot 138 HT **AS NOTED ON PLANS REVIEW** CODES ADMINISTRA 1508043 210402 V14 Valley LEE'S SUMMIT, MISSOURI Job Reference optional)

8.430 s Mar 22 2021 MiTek Industries, Inc. Wed Apr 21 16:09:14 2021 Page 1 Wheeler Lumber, Waverly, KS - 66871, ID:2ncXplsxOfbjIB6I7Q?gPMzrYWU-hihC/ bvAHXBYHRnxggUCatl49Z5rFQgUmIPZzORo3 2-7-7 2-7-7 DATE 2x4 || 2 8.00 12 0-0-4

LOADING (psf) TCLL 25.0	SPACING- 2-0-0 Plate Grip DOL 1.15	CSI. TC 0.07	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 0.04	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: 7 lb	FT = 10%

BRACING-

TOP CHORD

BOT CHORD

2x4 ||

except end verticals.

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

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

LUMBER-

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

WEBS 2x3 SPF No.2

REACTIONS. 1=2-7-1, 3=2-7-1 (size) Max Horz 1=54(LC 5)

Max Uplift 1=-8(LC 8), 3=-27(LC 8) Max Grav 1=92(LC 1), 3=98(LC 15)

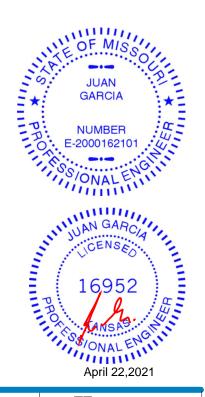
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

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

2x4 /

- 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 138 HT Valley 210402 V15 Wheeler Lumber, Waverly, KS - 66871,

RELEASE FOR CONSTRUCTION **AS NOTED ON PLANS REVIEW** CODES ADMINISTRA 1508044 LEE'S SUMMIT, MISSOURI

Job Reference optional)

8.430 s Mar 22 2021 MiTek Industries, Inc. Wed Apr 21 16:09:15 2021 Page 1 ID:2ncXplsxOfbjlB6l7Q?gPMzrYWU-9uFbND_DgUPEtYsdKfBv0Q63ETUBqlUav8Vrx?zORo2

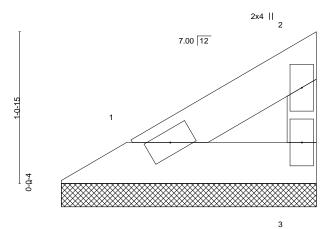
Structural wood sheathing directly applied or 1-10-3 oc purlins,

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

except end verticals.

1-10-3

DATE



2x4 / 2x4 ||

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 0.02	Vert(LL) n/a - n/a 999	MT20 197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.01	Vert(CT) n/a - n/a 999	
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT) -0.00 3 n/a n/a	
BCDL 10.0	Code IRC2018/TPI2014	Matrix-P		Weight: 4 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

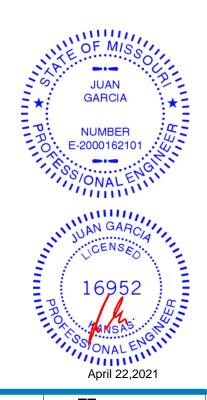
REACTIONS. 1=1-9-13, 3=1-9-13 (size) Max Horz 1=28(LC 5)

Max Uplift 1=-6(LC 8), 3=-14(LC 8) Max Grav 1=54(LC 1), 3=57(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, 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.





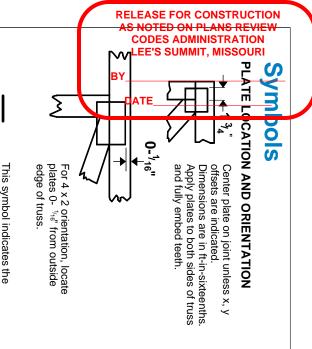


PLATE SIZE

* Plate location details available in MiTek 20/20

connector plates.

required direction of slots in

software or upon request.

4 × 4

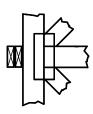
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

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.

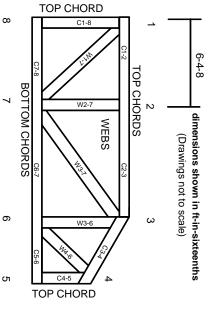
Min size shown is for crushing only

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.
- 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.