

RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI 06/28/2022 8:24:22

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

Re: B220101 Lot 156 WO

The truss drawing(s) referenced below have been prepared by MiTek USA, Inc. under my direct supervision based on the parameters provided by Wheeler - Waverly.

Pages or sheets covered by this seal: I52537310 thru I52537420

My license renewal date for the state of Missouri is December 31, 2023.

Missouri COA: Engineering 001193



June 15,2022

Sevier, Scott

,Engineer

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 or TRENCO. Any project specific information included is for MiTek's or TRENCO's customers file reference purpose only, and was not taken into account in the preparation of these designs. MiTek or TRENCO 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 DEVELOPMENT SERVICES LEE'S SUMMIT, MISSO URI 6687 06/28/2022 8:24:25

Truss Type Qty Lot 156 WO 152537310 Half Hip Supported Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Jun 14 11:51:41 2022 Page 1

ID:Ej7EWovY_94Pzt7UVy1gWAz_t70-CFPCZ0DMOrMzg?BF5hhVmzW?jxpuYlQi_Bv5Mcz6NPW

Scale = 1:61.1

22-0-5 5-4-11

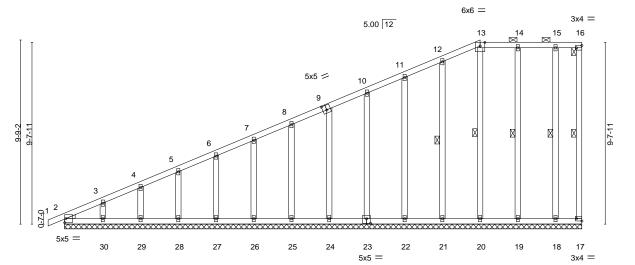


Plate Off	fsets (X,Y)	[9:0-2-8,0-3-0], [16:Edge,	0-1-8], [17:Ed	ge,0-1-8], [2:	3:0-2-8,0-3-0]						
LOADIN	IG (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.40	Vert(LL)	-0.00	` <u>í</u>	n/r	120	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.17	Vert(CT)	-0.00	1	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.15	Horz(CT)	-0.01	17	n/a	n/a		
BCDL	10.0	Code IRC2018/TF	PI2014	Matri	x-S						Weight: 160 lb	FT = 10%

LUMBER-BRACING-

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

OTHERS 2x4 SPF No.2 WEDGE

Left: 2x3 SPF No.2

TOP CHORD

BOT CHORD

WEBS

Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 13-16. Rigid ceiling directly applied or 10-0-0 oc bracing, Except:

6-0-0 oc bracing: 23-24.

1 Row at midpt 16-17, 13-20, 12-21, 14-19, 15-18

REACTIONS. All bearings 27-5-0.

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

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

28, 29, 30, 19, 18

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

27, 28, 29, 30, 19, 18

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

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

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) Provide adequate drainage to prevent water ponding.
- 5) All plates are 2x4 MT20 unless otherwise indicated.
- 6) Gable requires continuous bottom chord bearing.
- 7) Gable studs spaced at 2-0-0 oc.
- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 17, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 19, 18.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



June 15,2022





RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SER₩CES LEE'S SUMMIT, WAS QURIGES 06/28/2022 8:24:25 -8-14 Truss Type Qty Lot 156 WO 152537311 Half Hip Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Jun 14 11:51:42 2022 Page 1

ID:Ej7EWovY_94Pzt7UVy1gWAz_t70-gSzanMD_99UqH9mSfPCkJA35BL2OH4xrDreev2z6NPV 27-5-0 19-1-14 23-7-8 5-11-2 4-5-10 3-9-8

Structural wood sheathing directly applied or 3-0-1 oc purlins,

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

except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 7-8.

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

1 Row at midpt

Scale = 1:60.4

6x6 = 3x4 = 5.00 12 8 2x4 6 3x5 = 3x6 = 10-5-2 10-3-9 X 2x4 💸 12 13 14 11 15 16 10 q 5x5 =3x4 =3x6 = 4x5 = 6x8 = 8-10-10 19-1-14 27-5-0 [8-Edge 0-1-8]

Plate Offsets (X,Y)	[8:Edge,0-1-8]				
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc)	I/defl L/d	PLATES GRIP
TCLL 25.0	Plate Grip DOL 1.15	TC 0.74	(/	>999 360	MT20 197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.60	Vert(CT) -0.44 10-12	>738 240	
BCLL 0.0 *	Rep Stress Incr YES	WB 0.64	Horz(CT) 0.05 9	n/a n/a	
BCDL 10.0	Code IRC2018/TPI2014	Matrix-S	Wind(LL) 0.08 12	>999 240	Weight: 123 lb FT = 10%

BRACING-

TOP CHORD

BOT CHORD

WEBS

7-5-14

LUMBER-

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

WEDGE Left: 2x3 SPF No.2

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

Max Horz 2=438(LC 5)

Max Uplift 9=-206(LC 8), 2=-209(LC 8) Max Grav 9=1341(LC 2), 2=1351(LC 2)

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

TOP CHORD 2-3=-2488/397, 3-4=-2229/319, 4-6=-1138/207, 6-7=-1099/296

BOT CHORD 2-12=-509/2212, 10-12=-296/1550, 9-10=-144/407

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

7-9=-1172/225

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate arip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 6) Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 9=206, 2=209.
- 8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



June 15,2022



RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SER∀ICES LEE'S SUMMIT, WASP, URI 668 06/28/2022 8:24:25

Truss Type Qty Lot 156 WO 152537312 Half Hip Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Jun 14 11:51:43 2022 Page 1

ID:Ej7EWovY_94Pzt7UVy1gWAz_t70-8eXy_iEdwSchvlLeC6kzrObDVlNB0Tl?SVOCRUz6NPU

Structural wood sheathing directly applied, except end verticals, and

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

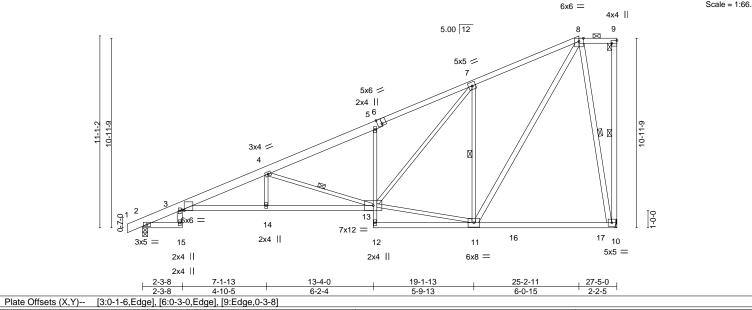
2-0-0 oc purlins (6-0-0 max.): 8-9.

1 Row at midpt

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

Scale = 1:66.6

27-5-0 19-1-13 25-2-11 4-10-5 6-2-4 5-9-13 6-0-15 2-2-5



	.	2012000				555		<i>(</i> 1)	1/1.0		DI 4750	anın
LOADIN	G (pst)	SPACING- 2-	-0-0	CSI.		DEFL.	in	(loc)	I/defI	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL 1	1.15	TC	0.96	Vert(LL)	-0.36	3-14	>909	360	MT20	197/144
TCDL	10.0	Lumber DOL 1	1.15	BC	0.69	Vert(CT)	-0.63	3-14	>518	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.95	Horz(CT)	0.36	10	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI20	14	Matrix	x-S	Wind(LL)	0.30	3-14	>999	240	Weight: 153 lb	FT = 10%

BRACING-

TOP CHORD

BOT CHORD

WEBS

LUMBER-

2x4 SPF No.2 *Except* TOP CHORD

1-6: 2x6 SP 2400F 2.0E

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

WEBS 2x3 SPF No.2 *Except*

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

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

Max Horz 2=470(LC 5)

Max Uplift 10=-237(LC 8), 2=-207(LC 8) Max Grav 10=1319(LC 2), 2=1324(LC 2)

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

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

3-14=-695/3303, 13-14=-694/3302, 5-13=-335/193 **BOT CHORD**

WEBS 4-14=0/269, 4-13=-1586/384, 11-13=-149/920, 7-13=-349/1380, 7-11=-1145/407,

8-11=-350/1444, 8-10=-1145/247

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate arip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 6) Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 10=237, 2=207.
- 8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



June 15,2022





RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SER∀ICES LEE'S SUMMIT, WAS PURI 668 06/28/2022 8:24:25,8 2

Truss Type Qty Lot 156 WO 152537313 Half Hip Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Jun 14 11:51:44 2022 Page 1

ID:Ej7EWovY_94Pzt7UVy1gWAz_t70-cq4KB2FFhmkYXSwqmpFCOb8N99hrlxQ8g97lzxz6NPT 19-1-14 26-9-14 5-9-14 7-8-1

Structural wood sheathing directly applied, except end verticals, and

9-10, 4-13, 7-10

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

1 Row at midpt

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

Scale = 1:70.9

3x4 = 3x4 = 8 9 5.00 12 4x9 / 5x6 = 2x4 || 56 3x4 = 9 14 7x12 = 16 2x4 || 10 3x5 =15 12 11 3x6 = 2x4 || 2x4 || 3x5 =2x4 || 19-1-14 27-5-0 4-10-5

Plate Offse	elS (X,Y)	[3:0-1-6,Edge], [6:0-3-0,E	:agej, [8:0-2-0,	,⊑age], [9:⊑a	ige,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	0.96	Vert(LL)	-0.35	3-14	>919	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.73	Vert(CT)	-0.62	3-14	>525	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.83	Horz(CT)	0.36	10	n/a	n/a		
BCDL	10.0	Code IRC2018/TF	PI2014	Matri	x-S	Wind(LL)	0.33	3-14	>986	240	Weight: 141 lb	FT = 10%

BRACING-

TOP CHORD

BOT CHORD

WEBS

LUMBER-

2x4 SPF No.2 *Except* TOP CHORD

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

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

WEBS 2x3 SPF No.2 *Except*

9-10,3-15,7-10: 2x4 SPF No.2

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

Max Horz 2=470(LC 8)

Max Uplift 10=-317(LC 8), 2=-155(LC 8) Max Grav 10=1305(LC 2), 2=1329(LC 2)

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

TOP CHORD 2-3=-708/0, 3-4=-3463/508, 4-5=-2058/232, 5-7=-1982/322 **BOT CHORD** 3-14=-893/3326, 13-14=-893/3326, 5-13=-277/161, 10-11=-243/965

WEBS 4-14=0/268, 4-13=-1608/446, 11-13=-220/951, 7-13=-366/1340, 7-11=0/303,

7-10=-1354/341

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 exposed; Lumber DOL=1.60 plate grip
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

4-10-5

6-2-4

- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 6) Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 10=317, 2=155.
- 8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



June 15,2022



RELEASE FOR CONSTRUCTION Truss Type Qty Lot 156 WO AS NOTED ON PLANS REVIEW DEVELOPMENT SER∜ICES Monopitch LEE'S SUMMIT, WAS PURI 668 06/28/2022 8:24:25

6-2-4

4-10-5

Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Jun 14 11:51:45 2022 Page 1 ID:Ej7EWovY_94Pzt7UVy1gWAz_t70-51ejPOGtS4sP8cV1KXmRwpgYvZ1?UOclvptIVNz6NPS 19-1-13 27-5-0 5-9-13 8-3-3 Scale = 1:69.7 3x5 ||

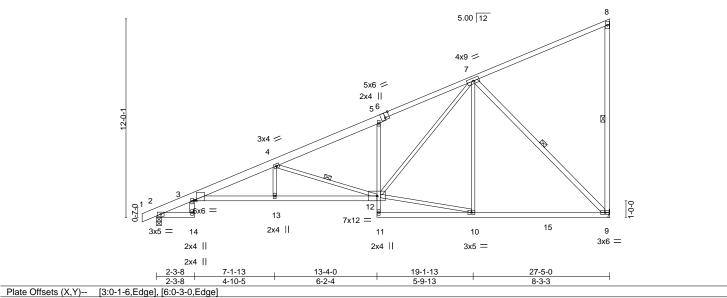
Structural wood sheathing directly applied, except end verticals.

8-9, 4-12, 7-9

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

1 Row at midpt

152537314



1 1010 011	0010 (71)	[0:0 : 0;2490]; [0:0 0 0;2490]			
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 0.96	Vert(LL) -0.35 3-13 >919 360	MT20 197/144
TCDL	10.0	Lumber DOL 1.15	BC 0.73	Vert(CT) -0.62 3-13 >525 240	
BCLL	0.0 *	Rep Stress Incr YES	WB 0.84	Horz(CT) 0.36 9 n/a n/a	
BCDL	10.0	Code IRC2018/TPI2014	Matrix-S	Wind(LL) 0.33 3-13 >985 240	Weight: 142 lb FT = 10%

BRACING-

TOP CHORD

BOT CHORD

WEBS

LUMBER-

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

BOT CHORD 2x4 SPF No.2 *Except*

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

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

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

Max Horz 2=481(LC 8)

Max Uplift 9=-329(LC 8), 2=-150(LC 8) Max Grav 9=1305(LC 2), 2=1329(LC 2)

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

TOP CHORD 2-3=-714/0, 3-4=-3463/497, 4-5=-2057/220, 5-7=-1981/309 **BOT CHORD**

3-13=-895/3326, 12-13=-895/3326, 5-12=-273/159, 9-10=-245/967 WEBS

4-13=0/268, 4-12=-1610/448, 10-12=-221/953, 7-12=-364/1336, 7-10=0/304,

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 9=329, 2=150,
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



June 15,2022



RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SER₩ICES LEE'S SUMMIT, WAS QURIGES 06/28/2022 8:24:25

Truss Type Qty Lot 156 WO 152537315 Monopitch Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Jun 14 11:51:46 2022 Page 1

ID:Ej7EWovY_94Pzt7UVy1gWAz_t70-ZDC5ckHVDN_Gmm4DuEHgT0DlvyPSDrMR8Tcs2pz6NPR 19-1-14

5-8-14 7-5-14 5-11-2 8-3-2

Scale = 1:66.8 3x5 II 5.00 12 3x6 = 6 3x5 / 3x6 = 4 5 2x4 🛇 13 10 14 11 12 8 5x5 q 3x4 = 3x6 = 3x5 = 4x5 = 8-10-10 19-1-14 10-3-4 8-3-2 SPACING-2-0-0 CSI. DEFL. L/d **PLATES GRIP** (loc) I/defl Plate Grip DOL 1.15 TC Vert(LL) -0.26 360 197/144 0.82 9-11 >999 MT20 Lumber DOL 1.15 ВС 0.59 Vert(CT) -0.45 9-11 >721 240

Horz(CT)

Wind(LL)

BRACING-

TOP CHORD

BOT CHORD

WEBS

0.06

0.08

8

9-11

n/a

>999

except end verticals.

1 Row at midpt

n/a

240

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

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

7-8, 4-9, 6-8

Weight: 115 lb

FT = 10%

LUMBER-

TCLL

TCDL

BCLL

BCDL

LOADING (psf)

25.0

10.0

0.0

10.0

TOP CHORD 2x4 SPF No.2 2x4 SPF 2100F 1.8E 2x3 SPF No.2 *Except* BOT CHORD WEBS 7-8,6-8: 2x4 SPF No.2

WEDGE

Left: 2x3 SPF No.2

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

Max Horz 2=478(LC 8)

Max Uplift 8=-329(LC 8), 2=-150(LC 8) Max Grav 8=1330(LC 2), 2=1355(LC 2)

Rep Stress Incr

Code IRC2018/TPI2014

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

TOP CHORD 2-3=-2503/266, 3-4=-2238/181, 4-6=-1143/65 **BOT CHORD** 2-11=-656/2227, 9-11=-423/1549, 8-9=-239/1001

3-11=-407/260, 4-11=-51/728, 4-9=-766/256, 6-9=-56/969, 6-8=-1412/336 **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 exposed; Lumber DOL=1.60 plate grip
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

YES

WB

Matrix-S

0.87

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



June 15,2022



RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSO URI 6687 06/28/2022 8:24:25

Truss Type Qty Lot 156 WO 152537316 Monopitch Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Jun 14 11:51:47 2022 Page 1

ID:Ej7EWovY_94Pzt7UVy1gWAz_t70-1PmTq3H7zh67OwePRyov0Emz3MoJylNaM7MPaGz6NPQ

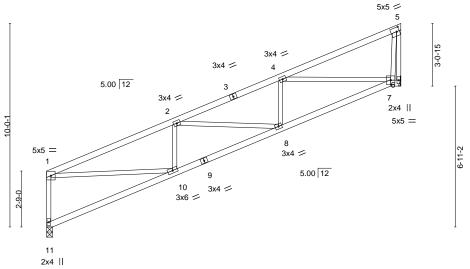
Structural wood sheathing directly applied or 3-7-5 oc purlins,

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

except end verticals.

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

Scale = 1:56.6



11-6-1 16-11-0

Plate Offsets (X,Y)	[5:0-1-11,0-2-8]

LOADING (psf) TCLL 25.0 TCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15	CSI. TC 0.60 BC 0.42	DEFL. in (loc) l/defl L/d Vert(LL) -0.07 8-10 >999 360 Vert(CT) -0.13 10-11 >999 240	PLATES GRIP MT20 197/144
BCLL 0.0 *	Rep Stress Incr YES	WB 0.88	Horz(CT) 0.03 6 n/a n/a	Weight: 66 lb FT = 10%
BCDL 10.0	Code IRC2018/TPI2014	Matrix-S	Wind(LL) 0.05 8-10 >999 240	

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

WEBS 2x3 SPF No.2

REACTIONS. (size) 11=0-3-8, 6=Mechanical

Max Horz 11=231(LC 5) Max Uplift 6=-89(LC 8)

Max Grav 11=774(LC 1), 6=774(LC 1)

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

TOP CHORD 1-11=-732/83, 1-2=-1484/118, 2-4=-1430/133, 5-6=-702/54

BOT CHORD 8-10=-256/1428, 7-8=-196/1372

WFBS 1-10=-68/1258, 2-10=-402/105, 4-7=-1138/181, 5-7=-10/575

- 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) 11 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6.
- 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.



June 15,2022



RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SER ₩CES LEE'S SUMMIT, MISSO URI 6687 06/28/2022 8:24:26

Truss Type Qty Lot 156 WO 152537317 Half Hip Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Jun 14 11:51:47 2022 Page 1

16-11-0

17-5_t0

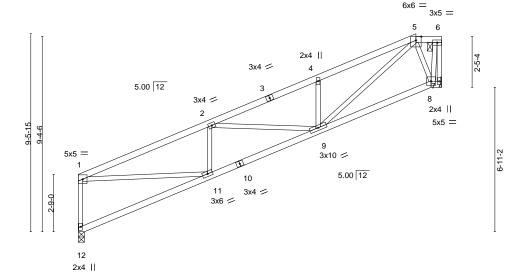
Structural wood sheathing directly applied or 3-9-12 oc purlins,

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

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

ID:Ej7EWovY_94Pzt7UVy1gWAz_t70-1PmTq3H7zh67OwePRyov0Em__MoiyPOaM7MPaGz6NPQ 11-6-0 16-2-5 5-2-7 4-8-4

Scale = 1:55.2



	6-3	3-9 '	5-2-7	5-5-0	0'-6-0	
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL.	in (loc) I/defl	L/d	PLATES GRIP
TCLL 25.0	Plate Grip DOL 1.15	TC 0.54	Vert(LL)	-0.07 9-11 >999	360	MT20 197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.40	Vert(CT)	-0.13 11-12 >999	240	
BCLL 0.0 *	Rep Stress Incr YES	WB 0.44	Horz(CT)	0.02 7 n/a	n/a	
BCDL 10.0	Code IRC2018/TPI2014	Matrix-S	Wind(LL)	0.05 9-11 >999	240	Weight: 67 lb FT = 10%

BRACING-

TOP CHORD

BOT CHORD

11-6-0

LUMBER-

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

REACTIONS. 12=0-3-8, 7=Mechanical (size)

Max Horz 12=211(LC 5) Max Uplift 7=-74(LC 8)

Max Grav 12=774(LC 1), 7=774(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. 1-12=-731/84, 1-2=-1490/121, 2-4=-1405/129, 4-5=-1386/188, 6-7=-750/43 TOP CHORD

BOT CHORD 9-11=-251/1435, 8-9=-54/393

WEBS $1-11=-71/1266,\ 2-11=-404/106,\ 4-9=-320/101,\ 5-9=-176/1213,\ 5-8=-606/110,$

6-8=-52/766

NOTES-

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

6-3-9 6-3-9

6-3-9

- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections
- 7) Bearing at joint(s) 12 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) 7
- 9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



June 15,2022



RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SER ₩CES LEE'S SUMMIT, MISSO URI 6687 06/28/2022 8:24:26

Truss Type Qty Lot 156 WO 152537318 Half Hip Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Jun 14 11:51:48 2022 Page 1

16-11-0

8-3-6 oc bracing: 8-10.

ID:Ej7EWovY_94Pzt7UVy1gWAz_t70-VbKr1Pllk?E_?4Dc?fJ8YRl93m8zhsdkbn5y6iz6NPP 14-7-2 17-5-0

Structural wood sheathing directly applied or 3-10-9 oc purlins,

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

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

Scale = 1:51.9

6-3-9 5-2-7 3-1-1 2-9-14

6x6 = 3x5 = 2x4 || 5.00 12 3 3x4 = 2x4 || 5x5 = 8-9-15 8-8-6 5x5 = 3x10 = 5.00 12 10 3x6 =

6-3-9 LOADING (psf) SPACING-CSI. DEFL. L/d **PLATES** GRIP 2-0-0 (loc) I/defl 25.0 Plate Grip DOL Vert(LL) -0.06 360 197/144 **TCLL** 1.15 TC 0.52 8-10 >999 MT20 **TCDL** 10.0 Lumber DOL 1.15 ВС 0.39 Vert(CT) -0.13 10-11 >999 240 **BCLL** 0.0 Rep Stress Incr YES WB 0.44 Horz(CT) 0.03 6 n/a n/a Code IRC2018/TPI2014 BCDL 10.0 Matrix-S Wind(LL) 0.06 8-10 >999 240 Weight: 65 lb FT = 10%

BRACING-

TOP CHORD

BOT CHORD

11-6-1

LUMBER-

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

REACTIONS.

11=0-3-8, 6=Mechanical (size)

Max Horz 11=239(LC 5) Max Uplift 11=-79(LC 8), 6=-162(LC 8) Max Grav 11=774(LC 1), 6=774(LC 1)

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

11 2x4 ||

1-11=-731/194, 1-2=-1492/325, 2-3=-1396/319, 3-4=-1352/384, 5-6=-747/117 TOP CHORD

BOT CHORD 8-10=-503/1439, 7-8=-209/779

WEBS 1-10=-248/1269, 2-10=-407/181, 3-8=-254/138, 4-8=-254/808, 4-7=-597/195,

5-7=-107/674

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Refer to girder(s) for truss to truss connections.
- Bearing at joint(s) 11 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 11 except (jt=lb)
- 9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



June 15,2022





RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, WSSOURI6687 06/28/2022 8:24:26

Truss Type Qty Lot 156 WO 152537319 Half Hip Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Jun 14 11:51:49 2022 Page 1

5x5 =

ID:Ej7EWovY_94Pzt7UVy1gWAz_t70-zouDFIJOVIMrdDooZNqN5frKEAUMQIgtqRrWf8z6NPO

Structural wood sheathing directly applied or 4-0-15 oc purlins,

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

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

8-4-12 oc bracing: 7-9.

Scale: 1/4"=1"

6-3-10 6-8-5 4-5-2

4x5 = 1-1-4 5.00 12 3x4 = 2x4 || 5x5 = 3x4 = 6-11-2 5x5 = 5.00 12 3x4 = 3x6 = 2-9-0 10 2x4 |

	6-3-10	6-8-5	3-11-2	ძ-6-ბ
Plate Offsets (X,Y) [1:0-2-0,0-1-8]	·			

6-3-10

LOADING	G (psf)	SPACING- 2-0-	0	CSI.		DEFL.	in	(loc)	I/defI	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL 1.1	5	TC	0.56	Vert(LL)	-0.07	7-9	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL 1.1	5	BC	0.45	Vert(CT)	-0.14	7-9	>999	240		
BCLL	0.0 *	Rep Stress Incr YE	S	WB	0.45	Horz(CT)	0.03	5	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matri	x-S	Wind(LL)	0.06	7-9	>999	240	Weight: 63 lb	FT = 10%

12-11-14

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

REACTIONS. (size) 10=0-3-8, 5=Mechanical

Max Horz 10=211(LC 5)

Max Uplift 10=-80(LC 8), 5=-133(LC 8) Max Grav 10=774(LC 1), 5=774(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 1-10=-732/187, 1-2=-1524/320, 2-3=-1282/242, 3-4=-374/67, 4-5=-701/116

BOT CHORD 7-9=-489/1480, 6-7=-275/1189

WFBS 1-9=-247/1308, 2-9=-405/192, 3-7=-9/291, 3-6=-733/196, 4-6=-113/627

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Refer to girder(s) for truss to truss connections.
- Bearing at joint(s) 10 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 10 except (jt=lb)
- 9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



June 15,2022



RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SER♥ICES LEE'S SUMMIT, WSSOURI6687 06/28/2022 8:24:26

Truss Type Qty Ply Lot 156 WO 152537320 **GABLE** | **4** | Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Jun 14 11:51:51 2022 Page 1

ID:Ej7EWovY_94Pzt7UVy1gWAz_t70-vA0_fRKe1wdYsXyAgotrA4waWzF9uDiAHlKdj1z6NPM

6-1-6 5-10-14 5-7-11

> Scale = 1:50.8 6x6 =

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

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

4-5

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

1 Row at midpt

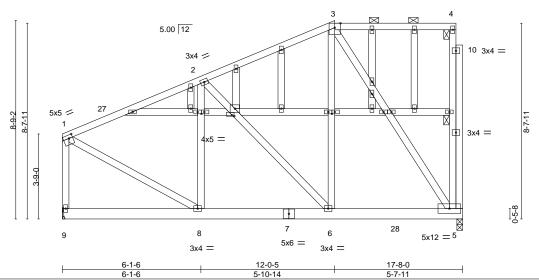


Plate Offsets (X,Y)-- [1:0-2-0,0-1-12], [12:0-1-8,0-1-0], [13:0-1-1,0-0-8], [14:0-1-8,0-1-0]

LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.95	Vert(LL)	-0.01	6-8	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.04	Vert(CT)	-0.02	6-8	>999	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.41	Horz(CT)	0.00	5	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI	2014	Matri	k-S	Wind(LL)	0.01	8	>999	240	Weight: 296 lb	FT = 10%

BRACING-

TOP CHORD

BOT CHORD

WEBS

LUMBER-

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

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

Max Horz 9=342(LC 5)

Max Uplift 5=-184(LC 5), 9=-123(LC 8) Max Grav 5=1219(LC 1), 9=1460(LC 1)

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

1-2=-1181/111, 2-3=-807/134, 1-9=-1391/147 TOP CHORD BOT CHORD 8-9=-325/114, 6-8=-237/888, 5-6=-162/646

WEBS 2-8=-342/120, 2-6=-337/131, 3-6=-40/467, 3-5=-1167/156, 1-8=-65/906

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 0-5-0 oc.

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

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

- 2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- Unbalanced roof live loads have been considered for this design
- 4) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 5) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 6) Provide adequate drainage to prevent water ponding.
- 7) All plates are 2x4 MT20 unless otherwise indicated.
- 8) Gable studs spaced at 2-0-0 oc.
- 9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 10) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 11) Refer to girder(s) for truss to truss connections.
- 12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 5=184, 9=123.
- 13) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 14) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord. Continued on page 2



OF MISS

SCOTT M.

SEVIER

NUMBER

PE-2001018807

🗥 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	Truss Type	Qty	Ply	Lot 156 WO	
AS NOTED ON PLANS REVIEW	, ,				152537
DEWELOPMENT SER₩CES	GABLE	1	2		
LEEIC CUMMIT MICCOURT			_	Job Reference (optional)	
LEE'S SUMMIT, WAS OUR 16687	,	8.4	430 s Aug	16 2021 MiTek Industries, Inc. Tue Jun 14 11:51:51 2	2022 Page 2
06/ <u>2</u> 8/2022 8:24:26		ID:Ej7EWovY_94F	Pzt7UVy1	gWAz_t70-vA0_fRKe1wdYsXyAgotrA4waWzF9uDiAH	IIKdj1z6NPM

152537320 nc. Tue Jun 14 11:51:51 2022 Page 2

15) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 619 lb down and 47 lb up at 2-0-0, and 594 lb down and 52 lb up at 12-0-5 on top chord. The design/selection of such connection device(s) is the responsibility of others.

16) Studding applied to ply: 1(Front)

LOAD CASE(S) Standard

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

Concentrated Loads (lb)

Vert: 1-3=-70, 3-4=-70, 5-9=-20

Vert: 3=-569(B) 27=-569(B)



RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, WAS QURIGES 06/28/2022 8:24:26

Truss Type Qty HALF HIP GIRDER

4-4-9

Lot 156 WO

Ply

152537321

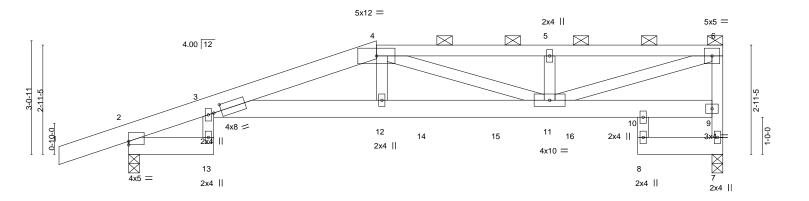
| **Z** | Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Jun 14 11:51:52 2022 Page 1 ID:Ej7EWovY_94Pzt7UVy1gWAz_t70-NNZMtnLGoDIPUhXNEVO4jHTouNP3dg0JWP3AFTz6NPL 11-4-0 13-8-8 16-0-0 4-8-0 2-4-8 2-3-8

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

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

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

Scale = 1:31.0



	2-3-8		6-8-1	I	11-4-0		13-8-8	3 16-0	-0
	2-3-8		4-4-9	I	4-8-0		2-4-8	2-3-	8 '
Plate Offsets (X,Y)	[2:0-0-0,0-1-2], [3:0-2-9	,0-2-0]							
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.72	Vert(LL)	-0.16 3-12	>999	360	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.83	Vert(CT)	-0.28 3-12	>677	240		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.41	Horz(CT)	0.19 7	n/a	n/a		
BCDL 10.0	Code IRC2018/	ΓPI2014	Matrix-S	Wind(LL)	0.14 3-12	>999	240	Weight: 152 lb	FT = 10%

BRACING-

TOP CHORD

BOT CHORD

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

4-6: 2x4 SPF No.2 2x6 SPF No.2 *Except*

BOT CHORD 8-10: 2x4 SPF No.2 WEBS 2x4 SPF No.2

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

Max Horz 2=120(LC 28)

Max Uplift 7=-391(LC 4), 2=-394(LC 4) Max Grav 7=1518(LC 1), 2=1404(LC 1)

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

TOP CHORD 2-3=-680/138, 3-4=-4261/1094, 4-5=-3374/897, 5-6=-3374/897, 7-9=-1474/396,

6-9=-1264/350

BOT CHORD 3-12=-1058/4091, 11-12=-1077/4184

WEBS 4-12=-214/986, 4-11=-856/244, 5-11=-317/164, 6-11=-874/3350

- 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) Unbalanced roof live loads have been considered for this design.
- 4) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph, TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 5) Provide adequate drainage to prevent water ponding.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 7=391, 2=394
- 9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 11) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 449 lb down and 158 lb up at 6-8-1, 230 lb down and 81 lb up at 7-11-4, 230 lb down and 81 lb up at 9-11-4, and 230 lb down and 81 lb up at 11-11-4, and 230 lb down and 79 lb up at 13-10-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.



June 15,2022

Continued on page 2

LOAD CASE(S) Standard



RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, WSSOURI6687 06/28/2022 8:24:26

Truss Type Qty Ply Lot 156 WO HALF HIP GIRDER

| **Z** | Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Jun 14 11:51:52 2022 Page 2 ID:Ej7EWovY_94Pzt7UVy1gWAz_t70-NNZMtnLGoDIPUhXNEVO4jHTouNP3dg0JWP3AFTz6NPL

152537321

LOAD CASE(S) Standard

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

Vert: 1-4=-70, 4-6=-70, 2-13=-20, 3-10=-20, 7-8=-20

Concentrated Loads (lb)

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



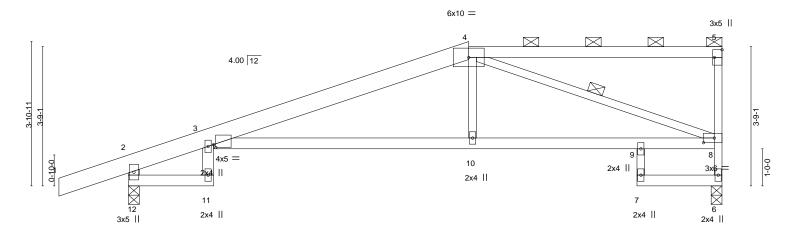
RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI6687 06/28/2022 8:24:26.

Truss Type Qty Lot 156 WO 152537322 Half Hip

Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Jun 14 11:51:54 2022 Page 1 ID:Ej7EWovY_94Pzt7UVy1gWAz_t70-Klh6lTNWKr?7j?hlMwQYoiY8KB6R5WZczjYHKMz6NPJ

16-0-0 4-6-7 2-3-8

Scale = 1:31.1



6-10-9

		200			0 2 1					000	100	, 0
		2-3-8			6-10-9					4-6-7	2-3	-8
Plate Offse	ets (X,Y)	[3:0-0-11,0-0-15], [5:Edo	ge,0-2-8], [8:0-3	3-8,0-1-8]								
LOADING	(psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.72	Vert(LL)	-0.28	3-10	>670	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.71	Vert(CT)	-0.55	3-10	>342	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.60	Horz(CT)	0.32	6	n/a	n/a		
BCDL	10.0	Code IRC2018/T	PI2014	Matri	x-S	Wind(LL)	0.24	3-10	>789	240	Weight: 61 lb	FT = 10%

LUMBER-

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

4-5: 2x4 SPF No.2 **BOT CHORD** 2x4 SPF No.2 *Except* 7-9: 2x3 SPF No.2

WEBS 2x3 SPF No.2 *Except* 3-11,2-12: 2x4 SPF No.2 BRACING-

BOT CHORD

WEBS

TOP CHORD

Structural wood sheathing directly applied or 4-7-1 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 4-5. Rigid ceiling directly applied or 10-0-0 oc bracing, Except:

4-8

6-0-0 oc bracing: 6-7. 1 Row at midpt

REACTIONS.

(size) 6=0-3-8, 12=0-3-8 Max Horz 12=166(LC 5)

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

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

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

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

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

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 6=134, 12=216.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



June 15,2022



RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI6687 06/28/20<u>22</u> 8:24:26

Truss Type Qty Ply Lot 156 WO 152537323 Half Hip Girder Job Reference (optional)

8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Jun 14 11:51:55 2022 Page 1 ID:Ej7EWovY_94Pzt7UVy1gWAz_t70-oyFUVpO8587_L8GyvdxnKw5G2bbKq42mCNlqsoz6NPI

12-8-0

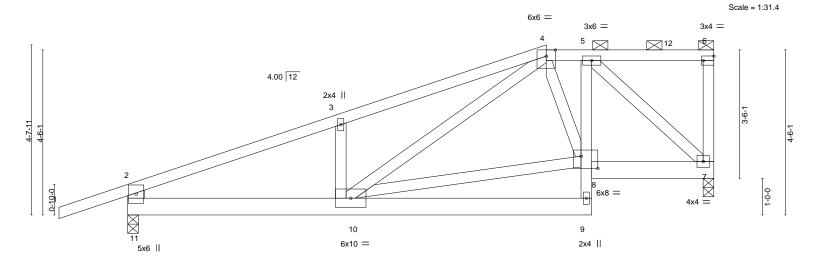
Structural wood sheathing directly applied or 6-0-0 oc purlins,

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

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

16-0-0

11-5-1 12-8-0 16-0-0 5-9-13 5-7-5 1-2-15 3-4-0



			5-9-13		T	5-7-	5			1-2-15	3-4-0	
Plate Off	sets (X,Y)	[6:Edge,0-1-8], [8:0-5-8,0)-4-0]									
LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.92	Vert(LL)	-0.03	9-10	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.16	Vert(CT)	-0.06	9-10	>999	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.14	Horz(CT)	0.01	7	n/a	n/a		
BCDL	10.0	Code IRC2018/TF	PI2014	Matrix	k-S	Wind(LL)	0.02	9-10	>999	240	Weight: 183 lb	FT = 10%

11-5-1

TOP CHORD

BOT CHORD

LUMBER-BRACING-

5-9-13

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

5-9: 2x4 SPF No.2

2x4 SPF No.2 *Except* WEBS 2-11: 2x6 SPF No.2

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

Max Horz 11=178(LC 5)

Max Uplift 7=-224(LC 4), 11=-222(LC 4) Max Grav 7=1989(LC 1), 11=954(LC 1)

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

TOP CHORD 2-3=-1359/198, 3-4=-1288/247, 4-5=-1131/192, 6-7=-985/105, 2-11=-784/232

BOT CHORD 10-11=-218/1220, 5-8=-329/323, 7-8=-156/1172

WEBS 3-10=-340/191, 4-10=-186/295, 8-10=-137/815, 4-8=-115/549, 5-7=-1478/213

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

- 2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- 3) Unbalanced roof live loads have been considered for this design.
- 4) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 5) Provide adequate drainage to prevent water ponding.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 7=224, 11=222,
- 9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 11) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1390 lb down and 131 lb up at 14-9-9 on top chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

Continued on page 2

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

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

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



June 15,2022



16023 Swingley Ridge Rd Chesterfield, MO 63017

RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW D≅VELOPMENT SERVICES LEE'S SUMMIT, WSSOURI6687 06/28/2022 8:24:26

Truss Type Qty Ply Lot 156 WO Half Hip Girder

| **Z** | Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Jun 14 11:51:55 2022 Page 2 ID:Ej7EWovY_94Pzt7UVy1gWAz_t70-oyFUVpO8587_L8GyvdxnKw5G2bbKq42mCNlqsoz6NPI

152537323

LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf) Vert: 1-2=-70, 2-4=-70, 4-6=-70, 9-11=-20, 7-8=-20 Concentrated Loads (lb) Vert: 12=-1390(B)



REL<mark>EASE FOR CONSTRUCTION</mark> AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, WAS QURIGES 06/28/2022 8:24:26

Truss Type Qty Lot 156 WO 152537324 Half Hip Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Jun 14 11:51:56 2022 Page 1

ID:Ej7EWovY_94Pzt7UVy1gWAz_t70-G8ptj8OnsSFrzIq8TLS0t7eSb_qRZQQvR11OOEz6NPH

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

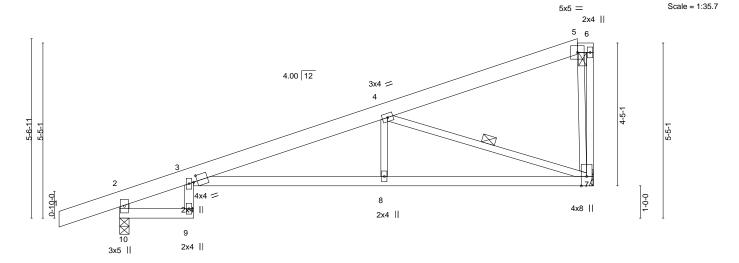
except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 5-6.

4-7

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

1 Row at midpt

2-3-8 2-3-8 5-10-13 5-11-12



5-10-13

BRACING-

TOP CHORD

BOT CHORD

WEBS

Plate Offset	ts (X,Y)	[3:0-1-6,0-2-2]										
LOADING	(nsf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
	25.0	Plate Grip DOL	1.15	TC	0.87	Vert(LL)	-0.19	3-8	>888	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	ВС	0.61	Vert(CT)	-0.38	3-8	>461	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.58	Horz(CT)	0.21	7	n/a	n/a		
BCDL	10.0	Code IRC2018/Ti	PI2014	Matri	k-S	Wind(LL)	0.13	3-8	>999	240	Weight: 62 lb	FT = 10%

LUMBER-

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

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

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

Max Horz 10=168(LC 5)

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

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

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

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

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 7, 10.
- 8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



June 15,2022



RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, WAS OUR 16687 06/28/2022 8:24:26

Truss Type Qty Lot 156 WO 152537325 Monopitch Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Jun 14 11:51:56 2022 Page 1

ID:Ej7EWovY_94Pzt7UVy1gWAz_t70-G8ptj8OnsSFrzIq8TLS0t7eSb_qRZQCvR11OOEz6NPH

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

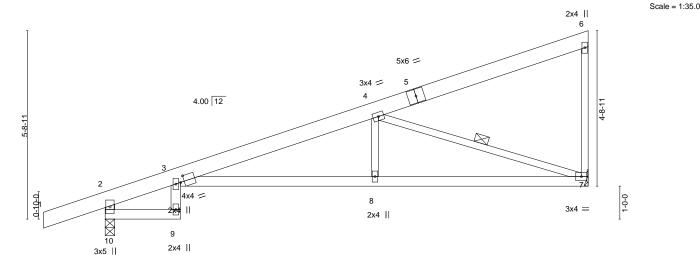
4-7

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

except end verticals.

1 Row at midpt

2-3-8 5-10-13 6-5-11



8-2-5 Plate Offsets (X,Y)-- [3:0-1-6,0-2-2]

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 0.87	Vert(LL)	-0.19	3-8	>894	360	MT20	197/144
TCDL	10.0	Lumber DOL 1.15	BC 0.61	Vert(CT)	-0.37	3-8	>463	240		
BCLL	0.0 *	Rep Stress Incr YES	WB 0.59	Horz(CT)	0.21	7	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014	Matrix-S	Wind(LL)	0.13	3-8	>999	240	Weight: 59 lb	FT = 10%

BRACING-

TOP CHORD

BOT CHORD

WEBS

LUMBER-

REACTIONS.

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

3-9,2-10: 2x4 SPF No.2

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

Max Horz 10=174(LC 5)

Max Uplift 7=-43(LC 8), 10=-86(LC 4) Max Grav 7=639(LC 1), 10=800(LC 1)

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

2-3=-271/0, 3-4=-1347/62, 2-10=-795/102 TOP CHORD

BOT CHORD 3-8=-79/1281, 7-8=-78/1280 **WEBS** 4-8=0/287, 4-7=-1345/118

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 7, 10.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



June 15,2022



REL<mark>EASE FOR CONSTRUCTION</mark> AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSO URI 6687 06/28/2022 8:24;26

Truss Type Qty Lot 156 WO 152537326 Monopitch 3 Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Jun 14 11:51:57 2022 Page 1

ID:Ej7EWovY_94Pzt7UVy1gWAz_t70-kKNFwUPPdmNiaSPK12_FQLAd5OB4Iw_3ghnxxgz6NPG

14-8-0

except end verticals.

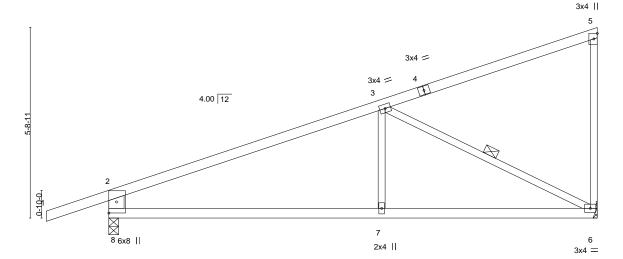
1 Row at midpt

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

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

14-8-0 8-2-5 6-5-11

Scale = 1:34.6



		8-2-5	6-5-11	1
LOADING (psf)	SPACING- 2-0-0	CSI. DEFL.	in (loc) I/defl L/d	PLATES GRIP
TCLL 25.0 TCDL 10.0	Plate Grip DOL 1.15 Lumber DOL 1.15	1 ' '	0.09 7-8 >999 360 0.18 7-8 >934 240	MT20 197/144
BCLL 0.0 * BCDL 10.0	Rep Stress Incr YES Code IRC2018/TPI2014		0.02 6 n/a n/a 0.03 6-7 >999 240	Weight: 50 lb FT = 10%

BRACING-

TOP CHORD

BOT CHORD

WEBS

8-2-5

LUMBER-

2x4 SPF No.2 TOP CHORD 2x4 SPF No.2 **BOT CHORD** 2x3 SPF No.2 *Except* WEBS 2-8: 2x6 SPF No.2

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

Max Horz 8=190(LC 5)

Max Uplift 6=-43(LC 8), 8=-89(LC 4) Max Grav 6=634(LC 1), 8=803(LC 1)

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

TOP CHORD 2-3=-928/38, 2-8=-715/134 **BOT CHORD** 7-8=-49/789, 6-7=-49/789 WFBS 3-7=0/317, 3-6=-873/89

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



June 15,2022

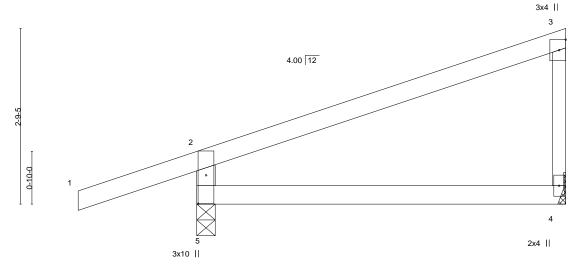


REL<mark>EASE FOR CONSTRUCTION</mark> AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, WSSOURI6687 06/28/2022 8:24:26

Truss Type Qty Lot 156 WO 152537327 Monopitch 5 Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Jun 14 11:51:58 2022 Page 1

ID:Ej7EWovY_94Pzt7UVy1gWAz_t70-CXxd7qQ1O3VZCc_XbmVUyYjw4obZ1TvCuLWUT7z6NPF 1-10-8 5-10-0

Scale = 1:18.2



5-10-0

except end verticals.

Plate Offsets (X,Y)	[5:0-5-6,0-1-8]			
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d	PLATES GRIP
TCLL 25.0	Plate Grip DOL 1.15	TC 0.36	Vert(LL) -0.04 4-5 >999 360	MT20 197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.25	Vert(CT) -0.08 4-5 >846 240	
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT) -0.00 4 n/a n/a	
BCDL 10.0	Code IRC2018/TPI2014	Matrix-R	Wind(LL) 0.01 4-5 >999 240	Weight: 18 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) 4=Mechanical, 5=0-3-8

Max Horz 5=120(LC 5)

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

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

TOP CHORD 2-5=-370/176

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4 except (jt=lb) 5 = 138
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



Structural wood sheathing directly applied or 5-10-0 oc purlins,

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

June 15,2022



REL<mark>EASE FOR CONSTRUCTION</mark> AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSO URI 6687 06/28/2022 8:24:26

Truss Type Qty Lot 156 WO 152537328 Half Hip

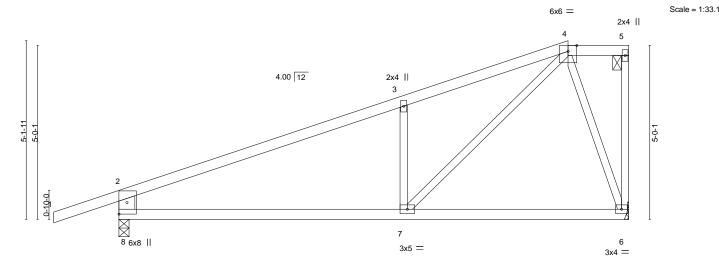
Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Jun 14 11:51:58 2022 Page 1 ID:Ej7EWovY_94Pzt7UVy1gWAz_t70-CXxd7qQ1O3VZCc_XbmVUyYjoeoXF1OOCuLWUT7z6NPF

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

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

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

14-8-0 12-11-1 8-2-5 4-8-12 1-8-15



			8-2-5	5		_		4-8	-12	1-8-15	
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	0.90	Vert(LL)	-0.09	7-8	>999	360	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC	0.46	Vert(CT)	-0.18	7-8	>933	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB	0.35	Horz(CT)	0.01	6	n/a	n/a		
BCDL 10.0	Code IRC2018/	TPI2014	Matrix	x-S	Wind(LL)	0.03	6-7	>999	240	Weight: 52 lb	FT = 10%

BOT CHORD

LUMBER-BRACING-TOP CHORD

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

2-8: 2x6 SPF No.2

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

Max Horz 8=220(LC 5)

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

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

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

BOT CHORD 7-8=-141/772

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

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 6=129, 8=201.
- 8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



June 15,2022



RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSO URI 6687 06/28/2022 8:24:26

Truss Type Qty Lot 156 WO 152537329 Roof Special Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Jun 14 11:51:59 2022 Page 1

5-2-11

ID:Ej7EWovY_94Pzt7UVy1gWAz_t70-gjU?LARf9NdQqmZj8T0jVmG_XCqvmsVL7?G2?Zz6NPE 14-8-0

3-0-0

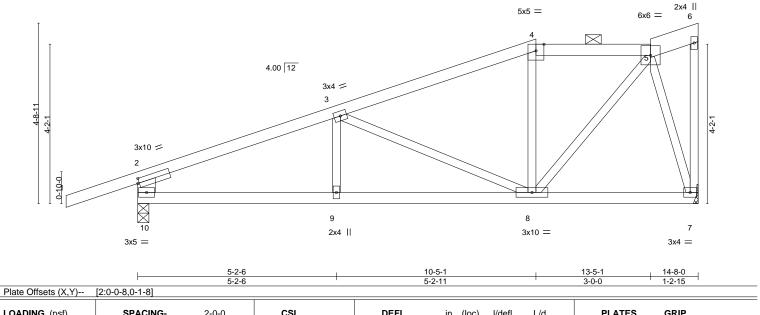
Structural wood sheathing directly applied or 4-2-2 oc purlins,

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

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

Scale = 1:30.2

1-2-15



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	0.82	Vert(LL)	-0.09	8-9	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.69	Vert(CT)	-0.16	8-9	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.30	Horz(CT)	0.02	7	n/a	n/a		
BCDL	10.0	Code IRC2018/Ti	PI2014	Matri	x-S	Wind(LL)	0.07	8-9	>999	240	Weight: 58 lb	FT = 10%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

WEBS 2x3 SPF No.2 *Except* 2-10: 2x6 SP DSS

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

Max Horz 10=203(LC 5)

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

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

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

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

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate
- 2) Provide adequate drainage to prevent water ponding.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 7=130, 10=204.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



June 15,2022



RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSO URI 6687 06/28/2022 **8**;**2**4:26

Truss Type Qty Lot 156 WO 152537330 Roof Special Girder Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Jun 14 11:51:53 2022 Page 1

ID:Ej7EWovY_94Pzt7UVy1gWAz_t70-sZ7k47MuZXtG6r6ZoCvJFV0wHnnkM0DTl3pjovz6NPK

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

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

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

Scale = 1:30.2

14-8-0 7-11-1 3-0-0 3-8-15

10-11-1

2x4 || 4x5 = 6x6 =4.00 12 6 6x6 =8x8 || 4x5 =

Plate Offs	sets (X,Y)	[7:0-2-8,0-4-4], [8:0-5-4,0)-4-0]											
LOADING	G (psf)	SPACING-	2-0-0	CSI.		DEI	FL.	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL	25.0	Plate Grip DOL	1.15	TC	0.94	Ver	t(LL) ·	-0.15	6-7	>999	360	MT20	197/144	
TCDL	10.0	Lumber DOL	1.15	BC	0.68	Ver	t(CT)	-0.27	6-7	>629	240			
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.80	Hor	z(CT)	0.02	6	n/a	n/a			
BCDL	10.0	Code IRC2018/Ti	PI2014	Matri	x-S	Win	ıd(LL)	0.14	6-7	>999	240	Weight: 60 lb	FT = 10%	

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

2x4 SPF No.2 *Except* TOP CHORD

1-3: 2x4 SPF 2100F 1.8E **BOT CHORD** 2x6 SPF 1650F 1.4E WEBS 2x3 SPF No.2 *Except* 2-8: 2x10 SP DSS

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

Max Horz 8=204(LC 5)

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

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

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

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

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

NOTES-

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

7-11-1

- 2) Provide adequate drainage to prevent water ponding.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb)
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 9) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 503 lb down and 181 lb up at 7-11-1, 211 lb down and 76 lb up at 8-11-13, and 238 lb down and 83 lb up at 10-11-4, and 238 lb down and 83 lb up at 12-11-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 10) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B)

LOAD CASE(S) Standard

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

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



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Continued on page 2





RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW PEVELOPMENT SERVICES LEE'S SUMMIT, WSSOURI6687 06/28/2022 8:24:26

Truss Type Qty Ply Lot 156 WO 152537330 Roof Special Girder

Job Reference (optional)

8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Jun 14 11:51:53 2022 Page 2
ID:Ej7EWovY_94Pzt7UVy1gWAz_t70-sZ7k47MuZXtG6r6ZoCvJFV0wHnnkM0DTl3pjovz6NPK

LOAD CASE(S) Standard Concentrated Loads (lb)

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



RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, WISSOURI6687

Truss Type Qty Lot 156 WO 152537331 Hip Girder Job Reference (optional)

8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Jun 14 11:52:00 2022 Page 1 ID:Ej7EWovY_94Pzt7UVy1gWAz_t70-8v2NYWRHwhlHRw8viAXy1zoAnc6qVMuVMf?bX?z6NPD

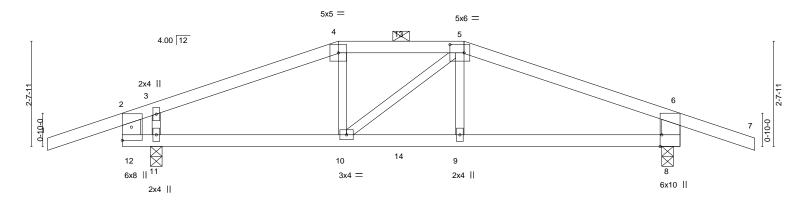
Structural wood sheathing directly applied or 5-6-6 oc purlins,

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

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

1-10-8

Scale = 1:28.9



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

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

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

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

Max Horz 11=22(LC 29)

0-10-4

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

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

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

6-8=-813/284

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

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

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 8=269, 11=303.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 9) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 79 lb down and 64 lb up at 7-0-0 on top chord, and 197 lb down and 86 lb up at 5-5-1, and 27 lb down at 7-0-0, and 197 lb down and 86 lb up at 8-6-15 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 10) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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



June 15,2022

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



RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW D≇VELOPMENT SERVICES LEE'S SUMMIT, WSSOURI6687 06/28/2022 8:24:26

Truss Type Qty Ply Lot 156 WO Hip Girder

| Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Jun 14 11:52:01 2022 Page 2 ID:Ej7EWovY_94Pzt7UVy1gWAz_t70-d6cmmsSvg_t833j5Gu2BaBLLX?S3Ep8eaJl84Sz6NPC

152537331

LOAD CASE(S) Standard

Uniform Loads (plf)

Vert: 1-2=-70, 2-4=-70, 4-5=-70, 5-6=-70, 6-7=-70, 8-12=-20

Concentrated Loads (lb)

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

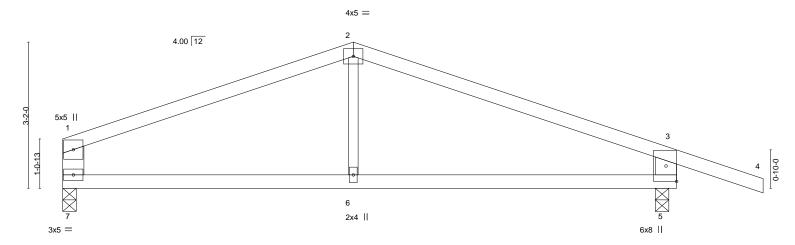


REL<mark>EASE FOR CONSTRUCTION</mark> AS NOTED ON PLANS REVIEW DEVELOPMENT SER ₩CES LEE'S SUMMIT, MISSO URI 6687 06/28/2022 8:24:27

Truss Type Qty Lot 156 WO 152537332 Common Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Jun 14 11:52:01 2022 Page 1

ID:Ej7EWovY_94Pzt7UVy1gWAz_t70-d6cmmsSvg_t833j5Gu2BaBLLH?YeEpYeaJl84Sz6NPC 15-2-0 7-0-0 1-10-8

Scale = 1:24.9



		6-3-8	+	6-10-0	0-2-0
LOADING TCLL TCDL BCLL	25.0 10.0 0.0 *	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES	CSI. TC 0.74 BC 0.55 WB 0.07	DEFL. in (loc) l/defl L/d PLATE Vert(LL) -0.10 5-6 >999 360 MT20 Vert(CT) -0.20 5-6 >760 240 Horz(CT) 0.01 5 n/a n/a	197/144
BCDL	10.0	Code IRC2018/TPI2014	Matrix-R	Wind(LL) 0.06 5-6 >999 240 Weight:	38 lb FT = 10%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

2-6: 2x3 SPF No.2

REACTIONS.

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

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

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

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

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

NOTES-

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



12.2.0

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

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

except end verticals.

June 15,2022



REL<mark>EASE FOR CONSTRUCTION</mark> AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, WSSOURI6687 06/28/2022 8:24:27

Truss Type Qty Lot 156 WO 152537333 Common

Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Jun 14 11:52:02 2022 Page 1 ID:Ej7EWovY_94Pzt7UVy1gWAz_t70-5IA8zCTXRI??hDIIqbZQ7OuWbPx1zHTopzUicuz6NPB

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

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

except end verticals.

6-3-8 1-3-8

> Scale = 1:21.1 4x5 =

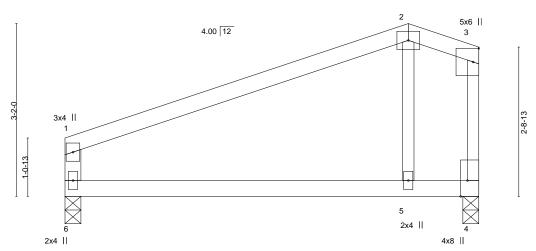


Plate Olise	Plate Offsets (X,Y) [4:0-3-8,Edge]											
LOADING	i (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.64	Vert(LL)	-0.07	5-6	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.34	Vert(CT)	-0.17	5-6	>529	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code IRC2018/TP	PI2014	Matri	x-R	Wind(LL)	0.06	5-6	>999	240	Weight: 23 lb	FT = 10%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

1-6: 2x4 SPF No.2

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

Max Horz 6=100(LC 5)

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

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

TOP CHORD 1-6=-257/90

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



June 15,2022



REL<mark>EASE FOR CONSTRUCTION</mark> AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSO URI 6687 06/28/2022 8:24:27

Truss Type Qty Lot 156 WO 152537334 Common Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Jun 14 11:52:03 2022 Page 1

ID:Ej7EWovY_94Pzt7UVy1gWAz_t70-ZUkWBYUACb7sINtUNJ5ffcQiEpHlikjx2cEF8Kz6NPA

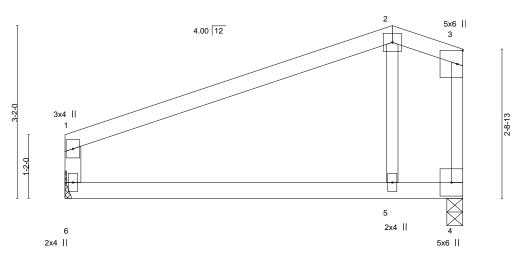
Structural wood sheathing directly applied or 6-0-0 oc purlins,

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

except end verticals.

7-3-8 6-0-0 1-3-8

> Scale = 1:21.1 4x4 =



	1	6-0-0	1-3-8	<u>'</u>
LOADING (psf)	SPACING- 2-0-0	CSI. DEFL.	()	PLATES GRIP
TCLL 25.0 TCDL 10.0	Plate Grip DOL 1.15 Lumber DOL 1.15	TC 0.59 Vert(L BC 0.31 Vert(C	,	MT20 197/144
BCLL 0.0 *	Rep Stress Incr YES	WB 0.03 Horz(0	,	
BCDL 10.0	Code IRC2018/TPI2014	Matrix-R Wind(I	L) 0.05 5-6 >999 240	Weight: 22 lb FT = 10%

BRACING-

TOP CHORD

BOT CHORD

6-0-0

LUMBER-

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

1-6: 2x4 SPF No.2

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

Max Horz 6=99(LC 5)

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

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

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



June 15,2022



RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, WAS QURIGES 06/28/2022,8:24:27

Truss Type Qty Lot 156 WO Roof Special Girder

Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Jun 14 11:52:04 2022 Page 1 ID:Ej7EWovY_94Pzt7UVy1gWAz_t70-1gluOtVozvFiwXSgx0cuCpzqxDYAR?M5HGzpgmz6NP9 25-6-0 18-6-13 21-1-3 26-7-0 28-5-8 3-1-13 2-6-6 4-4-13 1-1-0 1-10-8

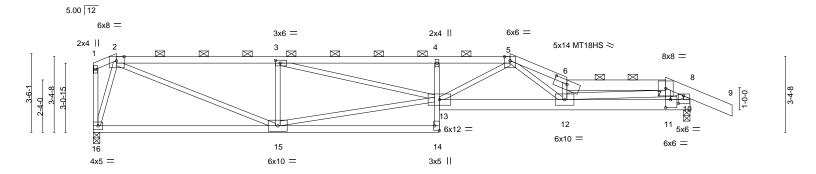
Structural wood sheathing directly applied or 2-0-5 oc purlins,

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

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

Scale = 1:51.3

152537335



	1-0-5	8-2-10			15-5-0		18-6-13	21-1-3	-		26-7-0
	1-0-5	7-2-6			7-2-6	·	3-1-13	2-6-6	<u>'</u>	4-4-13	1-1-0 '
Plate Offs	sets (X,Y)	[2:0-4-3,Edge], [3:0-2-8,0-	1-8], [6:0-7-0,	0-2-3], [10:0	-2-12,0-4-0]	[11:0-2-8,0-4-4], [[14:Edge,0-2-8]				
LOADING	(psf)	SPACING-	2-0-0	CSI.		DEFL.	in (loc)	I/defI	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.78	Vert(LL)	-0.35 12-13	>907	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.62	Vert(CT)	-0.64 12-13	>496	240	MT18HS	197/144
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.77	Horz(CT)	0.09 10	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI	I2014	Matri	x-S	Wind(LL)	0.27 12-13	>999	240	Weight: 11	5 lb FT = 10%

BOT CHORD

LUMBER-BRACING-TOP CHORD

TOP CHORD 2x4 SPF No.2 *Except*

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

BOT CHORD 2x4 SPF No.2 *Except*

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

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

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

Max Horz 16=-120(LC 6)

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

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

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

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

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

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

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

8-11=-247/1535

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) All plates are MT20 plates unless otherwise indicated
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 10=295, 16=201,
- 8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 56 lb down and 51 lb up at 25-6-0 on top chord, and 105 lb down and 509 lb up at 25-4-15 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 11) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

OF MISS SCOTT M. SEVIER NUMBER ROLL STONAL PE-2001018807

June 15,2022

COARLGASE(S)geStandard

🗥 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
AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, WSSOURI6687 06/28/2022 8:24:27

Truss Type Qty Ply Lot 156 WO

| Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Jun 14 11:52:04 2022 Page 2 ID:Ej7EWovY_94Pzt7UVy1gWAz_t70-1gluOtVozvFiwXSgx0cuCpzqxDYAR?M5HGzpgmz6NP9

152537335

LOAD CASE(S) Standard

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

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

Roof Special Girder

Concentrated Loads (lb)

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



RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SER ₩CES LEE'S SUMMIT, MISSOURI6687 06/28/2022 8:24:27

Truss Type Qty Lot 156 WO 152537336 Roof Special Job Reference (optional)

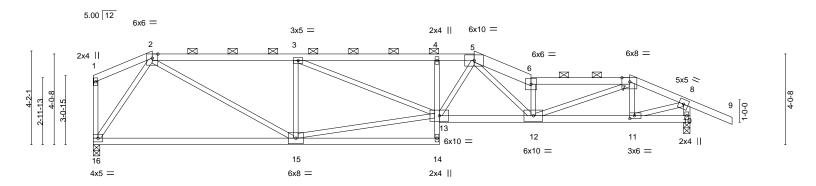
8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Jun 14 11:52:05 2022 Page 1 ID:Ej7EWovY_94Pzt7UVy1gWAz_t70-VtsGbDVQkDOZYh1tVk77k1V1QdsiAUgEVwjMDDz6NP8 16-11-10 19-6-0 26-7-0 28-5-8 23-10-13 1-6-10 2-6-6 4-4-13 2-8-3 1-10-8

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

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

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

Scale = 1:51.3



6-4-12

	7-8 9-0- 7-8 6-4-		15-5-0 16-11 6-4-12 1-6-7		23-10-13 4-4-13	26-7-0 2-8-3	
	7-0 [7:0-4-3,Edge], [11:0-2-8,0-		0-4-12	2-0-0	T-T-13	2-0-3	
LOADING (psf) TCLL 25.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr Code IRC2018/TPI2	2-0-0 CSI. 1.15 TC 0.67 1.15 BC 0.73 YES WB 0.70 2014 Matrix-S	Vert(CT) -0 Horz(CT) (in (loc) I/defl .22 12-13 >999 .45 15-16 >709 .08 10 n/a .17 12-13 >999	360 N 240 n/a		GRIP 197/144 FT = 10%

TOP CHORD

BOT CHORD

LUMBER-BRACING-

6-4-12

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

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

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

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

Max Horz 16=-120(LC 6)

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

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

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

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

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

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

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

8-11=-235/1586

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 10=236, 16=176,
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



June 15,2022





RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, WAS OURIGEST 06/28/2022 8:24:27

Truss Type Qty Lot 156 WO 152537337 Roof Special Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Jun 14 11:52:06 2022 Page 1

ID:Ej7EWovY_94Pzt7UVy1gWAz_t70-z3QfpZW2VWWQArb33ReMHE2FJ0A2vufNkaSvlfz6NP7

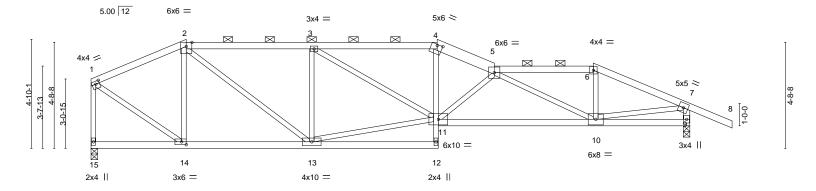
Structural wood sheathing directly applied or 4-0-0 oc purlins,

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

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

17-10-13 22-3-10 26-7-0 28-5-8 5-6-14 5-6-14 2-6-6 4-4-13 4-3-6 1-10-8

Scale = 1:51.1



<u> </u>	4-2-11 4-2-11	9-9-9 5-6-14	-	15-5-0 5-7-7	17-10-13 2-5-13	22-3-10 4-4-13	26-7-0 4-3-6	-
Plate Offsets (X,Y) [1:0-2-0,0-1-8], [4:0-3		8,0-1-8]	• • • • • • • • • • • • • • • • • • • •				
LOADING (psf) TCLL 25.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING- Plate Grip DO Lumber DOL Rep Stress In Code IRC201	1.15 cr YES	CSI. TC 0.4 BC 0.8 WB 0.8 Matrix-S	7 Ve 55 Ve 55 Ho	EFL. in (lo ort(LL) -0.15 10-1 ort(CT) -0.32 10-1 orz(CT) 0.07 ind(LL) 0.11 10-1	11 >999 36 11 >999 24 9 n/a n	40 /a	GRIP 197/144 FT = 10%

BOT CHORD

LUMBER-BRACING-TOP CHORD

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

4-12: 2x3 SPF No.2 **WEBS** 2x3 SPF No.2 *Except* 7-9: 2x4 SPF No.2

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

Max Horz 15=-118(LC 6)

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

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

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

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

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

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 15=153, 9=219.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1
- 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



June 15,2022





RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, WAS OURIGEST 06/28/2022 8:24:27

Truss Type Qty Lot 156 WO 152537338 Roof Special Job Reference (optional)

8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Jun 14 11:52:07 2022 Page 1 ID:Ej7EWovY_94Pzt7UVy1gWAz_t70-RFz10vXgGqeHn_AFc99bqSbNLQaReMrXzECTH5z6NP6 15-5-0 19-6-0 23-10-13 26-7-0 28-5-8 1-7-13 4-1-0 4-4-13 2-8-3 1-10-8

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

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

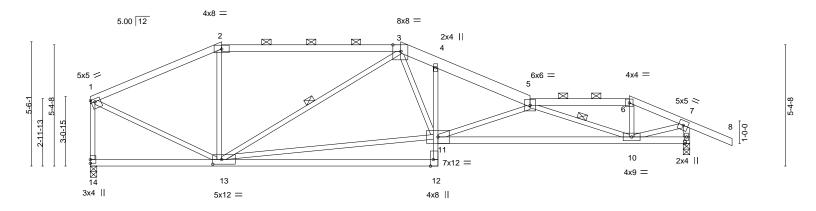
6-0-0 oc bracing: 9-10.

1 Row at midpt

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

3-13, 5-10

Scale = 1:51.1



7-11-5

	<u> </u>	5-9-14		13-9-3		15-5-0	19-6-0		23-10-13	26-7-0	4
		5-9-14	'	7-11-5		1-7-13	4-1-0		4-4-13	2-8-3	<u> </u>
Plate Offsets	s (X,Y)	[1:0-2-0,0-1-8], [3:0-4-3,E	dge], [12:0-3-	3,Edge], [13:	0-4-12,0-2-8]					
LOADING (psf)	SPACING-	2-0-0	CSI.		DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 2	25.0	Plate Grip DOL	1.15	TC	0.64	Vert(LL)	-0.25 12-13	>999	360	MT20	197/144
TCDL 1	0.0	Lumber DOL	1.15	BC	0.58	Vert(CT)	-0.54 12-13	>590	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.79	Horz(CT)	0.09 9	n/a	n/a		
BCDL 1	0.0	Code IRC2018/TF	PI2014	Matrix	k-S	Wind(LL)	0.12 10-11	>999	240	Weight: 112 lb	FT = 10%

BRACING-

TOP CHORD

BOT CHORD

WEBS

LUMBER-

TOP CHORD 2x4 SPF No.2 *Except*

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

BOT CHORD 2x4 SPF No.2 *Except*

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

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

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

Max Horz 14=-117(LC 6)

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

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

TOP CHORD $1\hbox{-}2\hbox{--}1249/182, 2\hbox{-}3\hbox{--}1097/189, 3\hbox{-}4\hbox{--}2277/320, 4\hbox{-}5\hbox{--}2409/309, 5\hbox{-}6\hbox{--}1522/159,}$

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

BOT CHORD 10-11=-428/3413

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

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

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 14=124, 9=207.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1
- 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



June 15,2022





RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, WAS QURIGES 06/28/2022 8:24:27,5

Truss Type Qty Lot 156 WO 152537339 Roof Special Girder Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Jun 14 11:52:09 2022 Page 1

1 Row at midpt

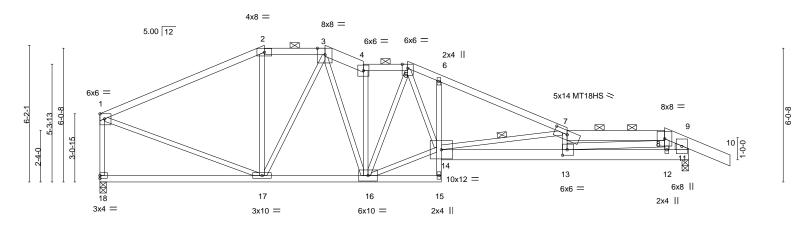
ID:Ej7EWovY_94Pzt7UVy1gWAz_t70-Oe5nRbYwoRu?1IKekZB3vtghaECt6GCqQYhaM_z6NP4 26-7-0 28-5-8 1-1-0 1-10-8 11-10-13 13-10-13 15-5-0 25-6-0 2-0-0 1-6-3 5-8-3 4-4-13

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

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

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

Scale = 1:52.0



 	7-5-2 7-5-2		-10-13 15-5-0 2-0-0 1-6-3	21-1-3 5-8-3	25-6-0 26-7-0 4-4-13 1-1-0
Plate Offsets (X,Y) [1:E	dge,0-2-12], [3:0-4-3,Edge], [7:0-7-			***	
LOADING (psf) TCLL 25.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr NO Code IRC2018/TPI2014	CSI. TC 0.79 BC 0.84 WB 0.80 Matrix-S	DEFL. Vert(LL) Vert(CT) Horz(CT) Wind(LL)	in (loc) l/defl L/d -0.29 13-14 >999 360 -0.53 13-14 >594 240 0.08 11 n/a n/a 0.22 13-14 >999 240	PLATES GRIP MT20 197/144 MT18HS 197/144 Weight: 130 lb FT = 10%

BRACING-

TOP CHORD

BOT CHORD

WEBS

LUMBER-

2x4 SPF No.2 *Except* TOP CHORD

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

BOT CHORD 2x4 SPF No.2 *Except*

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

WEBS 2x3 SPF No.2 *Except*

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

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

Max Horz 18=-116(LC 34)

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

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

TOP CHORD $1-2=-1277/166,\ 2-3=-1095/178,\ 3-4=-1660/295,\ 4-5=-1490/249,\ 5-6=-2375/413,$ 6-7=-2448/345, 7-8=-4396/628, 8-9=-1445/225, 1-18=-1102/134, 9-11=-1073/209

BOT CHORD 16-17=-57/1250, 6-14=-276/183, 13-14=-572/4305, 12-13=-165/1235, 11-12=-163/1238 3-17=-461/116, 3-16=-192/848, 4-16=-743/165, 5-16=-605/106, 14-16=-126/1756, WFBS 5-14=-269/1463, 7-14=-2133/356, 7-13=-806/204, 8-13=-453/3241, 1-17=-78/1118

NOTES-

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

2-8-14

1-8-13

- 3) Provide adequate drainage to prevent water ponding.
- 4) All plates are MT20 plates unless otherwise indicated
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 18 except (jt=lb) 11=270.
- 8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 56 lb down and 51 lb up at 25-6-0 on top chord, and 105 lb down and 509 lb up at 25-4-15 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 11) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

Continued on page 2



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

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



OF MISS

SCOTT M.

SEVIER

NUMBER

PE-2001018807

June 15,2022

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW DEVELOPMENT SER VICES LEE'S SUMMIT, WSSOURI6687 06/28/2022 8:24:27

Truss Type Qty Ply Lot 156 WO 152537339 Roof Special Girder | Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Jun 14 11:52:09 2022 Page 2

ID:Ej7EWovY_94Pzt7UVy1gWAz_t70-Oe5nRbYwoRu?1IKekZB3vtghaECt6GCqQYhaM_z6NP4

LOAD CASE(S) Standard

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

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

Concentrated Loads (lb)

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



RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, WAS QURIGES 06/28/2022 8:24:27

Truss Type Qty Lot 156 WO 152537340 Half Hip Girder Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Jun 14 11:52:10 2022 Page 1

ID:Ej7EWovY_94Pzt7UVy1gWAz_t70-sqf9fxZZZI0seSvqIHjIR4DrAeV0rk7zfCQ7uQz6NP3 20-2-3 6-7-8 5-4-13 h-10-8

Structural wood sheathing directly applied or 3-3-10 oc purlins,

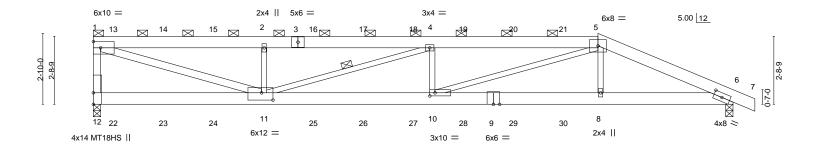
except end verticals, and 2-0-0 oc purlins (2-5-12 max.): 1-5.

4-11

Rigid ceiling directly applied or 8-0-10 oc bracing.

1 Row at midpt

Scale = 1:46.1



6-8-12

 	6-10-0	13-6-11		20-2-3	25-7-0	
Plate Offsets (X,Y)-	6-10-0 [6:0-4-0,0-2-2], [10:0-2-8,0-1-8], [11:0	6-8-12 -5-8,0-3-8]		6-7-8	5-4-13	
LOADING (psf) TCLL 25.0 TCDL 10.0 BCLL 0.0 *	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr NO	CSI. TC 0.86 BC 0.98 WB 0.75	DEFL. Vert(LL) Vert(CT) Horz(CT		PLATES GRIP MT20 197/144 MT18HS 197/144	
BCDL 10.0	Code IRC2018/TPI2014	Matrix-S	Wind(LL	,	Weight: 120 lb FT = 10%	1

BRACING-

TOP CHORD

BOT CHORD

WEBS

LUMBER-TOP CHORD 2x6 SPF No.2 *Except*

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

BOT CHORD 9-12: 2x6 SPF 1650F 1.4E **WEBS** 2x3 SPF No.2 *Except*

1-12: 2x4 SPF No.2, 1-11: 2x4 SPF 2100F 1.8E

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

Max Horz 12=-103(LC 27)

Max Uplift 12=-428(LC 4), 6=-397(LC 5) Max Grav 12=2127(LC 1), 6=2050(LC 1)

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

TOP CHORD 1-12=-1968/489, 1-2=-4781/983, 2-4=-4781/983, 4-5=-6027/1242, 5-6=-4514/877

10-11=-1163/6024, 8-10=-749/4048, 6-8=-749/4074 **BOT CHORD**

1-11=-992/4906, 2-11=-868/400, 4-11=-1311/280, 4-10=-470/305, 5-10=-438/2189, **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 arip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) All plates are MT20 plates unless otherwise indicated.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 12=428, 6=397.
- 8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPL1
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 115 lb down and 87 lb up at 0-9-8, 108 lb down and 90 lb up at 2-9-8, 108 lb down and 90 lb up at 4-9-8, 108 lb down and 90 lb up at 6-9-8, 108 lb down and 90 lb up at 8-9-8, 108 lb down and 90 lb up at 10-9-8, 108 lb down and 90 lb up at 12-9-8, 108 lb down and 90 lb up at 14-9-8, and 108 lb down and 90 lb up at 16-9-8, and 108 lb down and 90 lb up at 18-9-8 on top chord, and 74 lb down at 0-9-8, 67 lb down at 2-9-8, 67 lb down at 4-9-8, 67 lb down at 6-9-8, 67 lb down at 8-9-8, 67 lb down at 10-9-8, 67 lb down at 12-9-8, 67 lb down at 14-9-8, 67 lb down at 16-9-8, and 67 lb down at 18-9-8, and 354 lb down and 117 lb up at 20-2-3 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

Odn timutes வெள்ள Ease(S) section, loads applied to the face of the truss are noted as front (F) or back (B).



June 15,2022

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

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

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



ELEASE FOR CONSTRUCTION	
RELEASE FOR CONSTRUCTION	
AS NOTED ON PLANS REVIEW	
DEVELOPMENT SERVICES	
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06/28/2022 8:24:27 I	
00/20/2022 0.2 1.21	

Truss Type Qty Ply Lot 156 WO 152537340 Half Hip Girder | Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Jun 14 11:52:10 2022 Page 2

ID:Ej7EWovY_94Pzt7UVy1gWAz_t70-sqf9fxZZZI0seSvqIHjIR4DrAeV0rk7zfCQ7uQz6NP3

LOAD CASE(S) Standard

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

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

Concentrated Loads (lb)

Vert: 11=-43(F) 2=-103(F) 8=-354(F) 13=-115(F) 14=-103(F) 15=-103(F) 16=-103(F) 17=-103(F) 18=-103(F) 19=-103(F) 20=-103(F) 21=-103(F) 21=-103(23=-43(F) 24=-43(F) 25=-43(F) 26=-43(F) 27=-43(F) 28=-43(F) 29=-43(F) 30=-43(F)



RELEASE FOR CONSTRUCTION Truss Type Qty Lot 156 WO AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES Roof Special LEE'S SUMMIT, MISSO URI 6687 06/28/2022 8:24:27 13-2-11 15-2-11 19-9-6 4-3-6 4-8-4 2-0-0 4-6-11

152537341 Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Jun 14 11:52:13 2022 Page 1 ID:Ej7EWovY_94Pzt7UVy1gWAz_t70-GPLIHybRsgORVwePzPG?3jrUhrcl11iPLAfnVlz6NP0 24-3-14 26-2-6 4-6-8 1-10-8

Structural wood sheathing directly applied or 4-2-15 oc purlins,

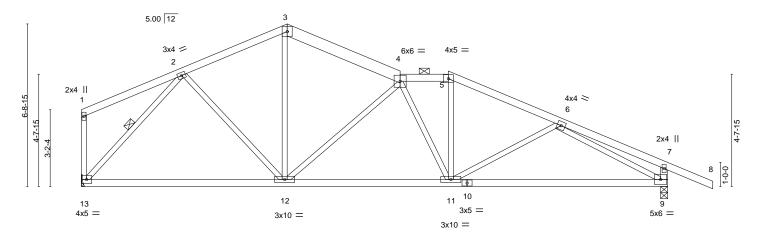
except end verticals, and 2-0-0 oc purlins (4-10-15 max.): 4-5.

2-13

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

1 Row at midpt

Scale: 1/4"=1 5x5 =



⊢	8-6-7 8-6-7	15-2-11 6-8-4	24-3-14 9-1-3	—
LOADING (psf) TCLL 25.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2018/TPI2014	CSI. DEFL. TC 0.33 Vert(LL) -0.1 BC 0.65 Vert(CT) -0.3 WB 0.96 Horz(CT) 0.0	in (loc) I/defl L/d PLATES 7 9-11 >999 360 MT20 85 9-11 >827 240	GRIP 197/144 Ib FT = 10%

BRACING-

TOP CHORD

BOT CHORD

WEBS

LUMBER-

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

WEBS 2x3 SPF No.2 *Except*

7-9: 2x4 SPF No.2

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

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

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

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

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

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

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

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 9.
- 8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



June 15,2022



RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSO URI 6687 06/28/2022 8:24:27

Truss Type Qty Lot 156 WO Roof Special

Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Jun 14 11:52:14 2022 Page 1

ID:Ej7EWovY_94Pzt7UVy1gWAz_t70-kcugUlc3d_Wl73DbX7nEcwNZcFz0mUZZaqOL1Bz6NP?

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

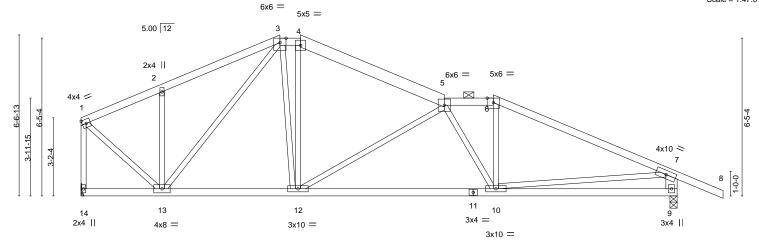
Rigid ceiling directly applied or 10-0-0 oc bracing.

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

16-9-14 24-3-14 26-2-6 0-10-2 4-9-12 5-10-6 2-0-0 7-6-0 1-10-8

Scale = 1:47.0

152537342



	4-1-15 4-1-15	8-11-8 4-9-9	1	16-9-14 7-10-6		<u> </u>	24-3-14 7-6-0	—
LOADING (psf) TCLL 25.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incl Code IRC2018	1.15 YES	CSI. TC 0.77 BC 0.59 WB 0.92 Matrix-S	Vert(CT) - Horz(CT)	in (loc) 0.10 10-12 0.22 10-12 0.03 9 0.03 10-12	I/defl L/d >999 360 >999 240 n/a n/a >999 240	PLATES MT20 Weight: 107 lk	GRIP 197/144

BRACING-

TOP CHORD

BOT CHORD

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

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

7-9: 2x6 SPF No.2

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

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

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

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

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

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

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

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

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

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



June 15,2022



RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, WAS QURIGES 06/28/2022 8:24:27

Truss Type Qty Lot 156 WO 152537343 Roof Special Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Jun 14 11:52:15 2022 Page 1

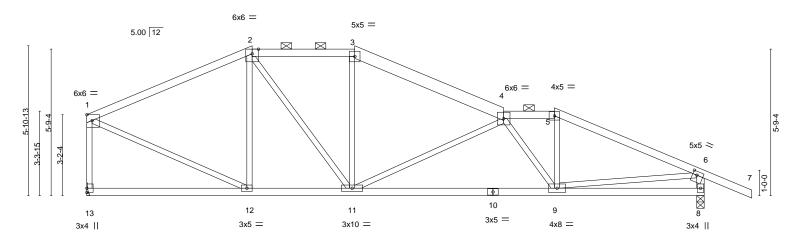
ID:Ej7EWovY_94Pzt7UVy1gWAz_t70-CoS2iedhNHe9lDno4qlT88wkBfJnVzFipU8uZez6NP_ 18-5-1 24-3-14 26-2-6 5-10-6 2-0-0 5-10-13 1-10-8

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

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

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

Scale = 1:45.4



4-0-8

10-6-11

	0-0-3	10-6-11	10-3-1	10-0-1	24-3-14
	6-6-3	4-0-8	5-10-6	2-0-0	5-10-13
Plate Offsets (X,Y)	[1:Edge,0-2-12], [6:0-2-0,0-1-12]				
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 0.71	Vert(LL) -0.12 9-11	>999 360	MT20 197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.62	Vert(CT) -0.27 9-11	>999 240	
BCLL 0.0 *	Rep Stress Incr YES	WB 0.82	Horz(CT) 0.03 8	n/a n/a	
BCDL 10.0	Code IRC2018/TPI2014	Matrix-S	Wind(LL) 0.04 9-11	>999 240	Weight: 101 lb FT = 10%

TOP CHORD

BOT CHORD

LUMBER-BRACING-

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

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

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

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

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

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

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

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

BOT CHORD

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

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 8.
- 8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



June 15,2022



RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, WAS OUR 16687 06/28/2022 8:24:27

Truss Type Qty Lot 156 WO 152537344 Roof Special Job Reference (optional)

5-10-6

8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Jun 14 11:52:16 2022 Page 1 ID:Ej7EWovY_94Pzt7UVy1gWAz_t70-g_0Rv_eJ8bm?MNM_eYpihLTyR2dCESNs18tR54z6NOz 20-0-4 24-3-14 26-2-6 2-0-0

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

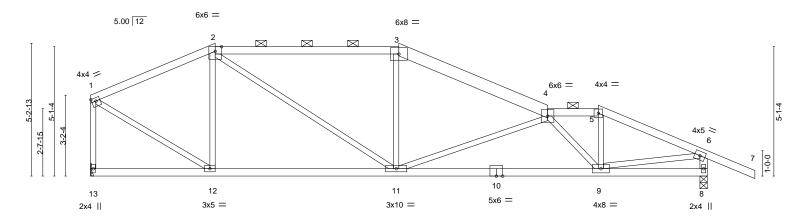
Rigid ceiling directly applied or 10-0-0 oc bracing.

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

4-3-10

Scale = 1:45.4

1-10-8



7-2-14

DI . 0"		4-11-0		7-2-14		5-10-6	2-0-0	4-3-10	
Plate Offs	sets (X,Y)	[1:0-2-0,0-1-8]							
LOADING	G (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	I/defI L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC 0.55	Vert(LL)	-0.11 9-11	>999 360	MT20	197/144
CDL	10.0	Lumber DOL	1.15	BC 0.67	Vert(CT)	-0.25 9-11	>999 240		
3CLL	0.0 *	Rep Stress Incr	YES	WB 0.70	Horz(CT)	0.04 8	n/a n/a		
BCDL	10.0	Code IRC2018/T	PI2014	Matrix-S	Wind(LL)	0.04 9-11	>999 240	Weight: 98 lb	FT = 10%

TOP CHORD

BOT CHORD

LUMBER-BRACING-

2x4 SPF No.2 *Except* TOP CHORD

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

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

6-8: 2x4 SPF No.2

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

Max Horz 13=-110(LC 6)

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

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

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

6-8=-1194/51

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

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

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 13, 8.
- 8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



June 15,2022



RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSO URI 6687 06/28/2022 8:24:27

Truss Type Qty Lot 156 WO 152537345 Roof Special Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Jun 14 11:52:17 2022 Page 1

ID:Ej7EWovY_94Pzt7UVy1gWAz_t70-9Bap7Kfyvvus_XxACFLxDZ?A4SyUztH?God?dWz6NOy 24-3-14 21-7-8 26-2-6 5-10-6 2-0-0 2-8-6 1-10-8

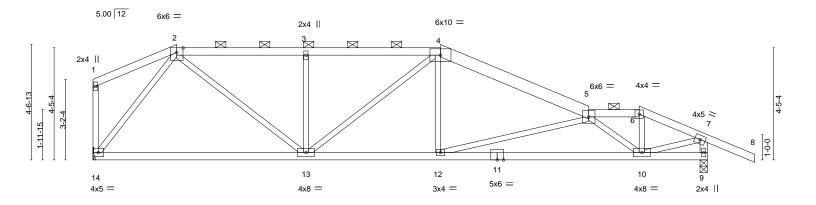
Structural wood sheathing directly applied or 4-7-6 oc purlins,

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

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

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

Scale = 1:45.6



5-3-14

	3-3-12 8-5-3 3-3-12 5-1-6	13-9-1 5-3-14	19-7-8 5-10-6	21-7-8
LOADING (psf) TCLL 25.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2018/TPI2014	CSI. DEFL. TC 0.37 Vert(LL) BC 0.73 Vert(CT) WB 0.79 Horz(CT) Matrix-S Wind(LL)	7) 0.05 9 n/a n/a	PLATES GRIP MT20 197/144 Weight: 97 lb FT = 10%

BOT CHORD

LUMBER-BRACING-TOP CHORD

8-5-3 5-1-6

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

7-9: 2x4 SPF No.2

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

Max Horz 14=-139(LC 4)

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

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

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

7-9=-1223/173

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

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

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

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 14=143, 9=189
- 8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



June 15,2022



RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, WAS QURI 6687 06/28/2022 8:24:27

Truss Type Qty Lot 156 WO 152537346 Roof Special Girder Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Jun 14 11:52:18 2022 Page 1

ID:Ej7EWovY_94Pzt7UVy1gWAz_t70-dN8BKgfagC0jchWNmysAmmYDQsJwiIU8VSMY9zz6NOx 23-2-11 24-3-14 26-2-6 2-0-0 1-1-3 1-10-8 21-2-11 15-4-4 3-5-6 5-10-6

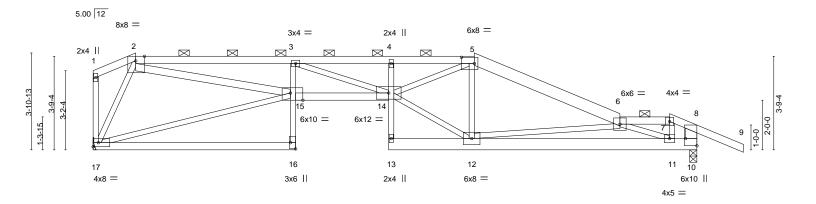
Structural wood sheathing directly applied or 4-9-4 oc purlins,

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

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

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

Scale = 1:46.4



11-10-14

3-9-0

	1-8-	9 8-1-14		11	1-10-14	15-4-4	1	21-	-2-11	23-2-11 24-3-	14 ₁
	1-8-	9 6-5-5		1	3-9-0	3-5-6		5-	10-6	2-0-0 1-1-1	3 1
Plate Offse	ets (X,Y)	[2:0-4-3,Edge], [5:0-6-4,0-3-0	0], [10:Edge,0-5	5-8], [15:0	-6-0,Edge], [1	6:Edge,0-2-8]					
LOADING	(psf)	SPACING- 2	-0-0	CSI.		DEFL.	in (loc) l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.78	Vert(LL)	-0.33 14-1	>865	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.65	Vert(CT)	-0.60 14-1	5 >480	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.92	Horz(CT)	0.29 1	0 n/a	n/a		
BCDL	10.0	Code IRC2018/TPI20)14	Matrix-	-S	Wind(LL)	0.24 14-1	5 >999	240	Weight: 114 lb	FT = 10%

TOP CHORD

BOT CHORD

LUMBER-BRACING-

6-5-5

2x4 SPF No.2 *Except* TOP CHORD

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

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

10-13: 2x6 SPF No.2

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

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

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

Max Horz 17=-140(LC 6)

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

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

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

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

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

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

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

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 10=270 17=170
- 8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 55 lb down and 12 lb up at 23-2-11 on top chord, and 168 lb down and 874 lb up at 23-1-11 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 11) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

OF MISSO SCOTT M. SEVIER NUMBER A STONAL PE-2001018807

June 15,2022

COARLGASE(S)geStandard

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

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

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



RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, WSSOURI6687 06/28/2022 8:24:27

Truss Type Qty Ply Lot 156 WO

Roof Special Girder

| Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Jun 14 11:52:18 2022 Page 2 ID:Ej7EWovY_94Pzt7UVy1gWAz_t70-dN8BKgfagC0jchWNmysAmmYDQsJwilU8VSMY9zz6NOx

152537346

LOAD CASE(S) Standard

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

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

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



RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSO URI 6687 06/28/2022 8:24;28

Truss Type Qty Lot 156 WO 152537347 Half Hip Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Jun 14 11:52:19 2022 Page 1

5-5-6

ID:Ej7EWovY_94Pzt7UVy1gWAz_t70-5ZiZY0gCRW8aDr5ZJgNPJ_5UpGejRozlj665hPz6NOw 16-11-8 22-3-14

5-4-6

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

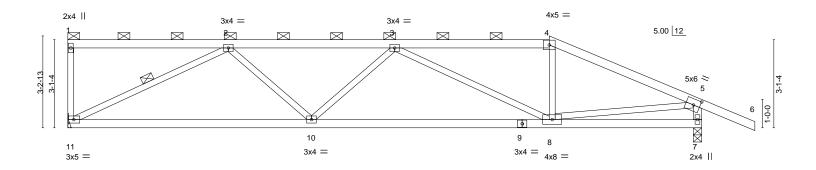
except end verticals, and 2-0-0 oc purlins (4-0-11 max.): 1-4.

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

1 Row at midpt

Scale = 1:40.6

1-10-8



5-10-4

	8-7-0		16-11-8		22-3-14	⊣
<u> </u>	8-7-0	'	8-4-8	"	5-4-6	· ·
Plate Offsets (X,Y)	[5:0-2-12,0-2-8]					
LOADING (psf) TCLL 25.0 TCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15	CSI. TC 0.42 BC 0.75	DEFL. in (loc) I/d Vert(LL) -0.14 10-11 >9 Vert(CT) -0.31 10-11 >8			RIP 97/144
BCLL 0.0 * BCDL 10.0	Rep Stress Incr YES Code IRC2018/TPI2014	WB 0.71 Matrix-S	Horz(CT) 0.05 7 r Wind(LL) 0.05 8-10 >9	n/a n/a 99 240	Weight: 79 lb	FT = 10%

BRACING-

TOP CHORD

BOT CHORD

WEBS

LUMBER-

REACTIONS.

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

5-7: 2x4 SPF No.2

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

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

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

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

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

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

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 11, 7.
- 8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



June 15,2022



RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, WAS QURIGES 06/28/2022 8:24:28

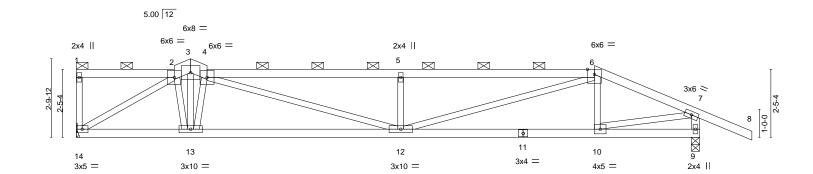
Truss Type Qty Roof Special

Lot 156 WO

Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Jun 14 11:52:20 2022 Page 1 ID:Ej7EWovY_94Pzt7UVy1gWAz_t70-ZIGxlMhqCqGRr_gltNuerBdeag1fAGwRymrfErz6NOv

Scale = 1:41.3

152537348



	3-6-1 4-1-2-4-8-3	11-7-7	18-6-11	22-3-14
	3-6-1 0-7-10-7-1	6-11-4	6-11-4	3-9-3
LOADING (psf) TCLL 25.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2018/TPI2014	CSI. TC 0.48 BC 0.57 WB 0.67 Matrix-S	DEFL. in (loc) l/defl L/d Vert(LL) -0.15 12 >999 360 Vert(CT) -0.30 12-13 >886 240 Horz(CT) 0.05 9 n/a n/a Wind(LL) 0.08 12 >999 240	PLATES GRIP MT20 197/144 Weight: 83 lb FT = 10%

LUMBER-BRACING-TOP CHORD

2x4 SPF No.2 *Except* TOP CHORD

Structural wood sheathing directly applied or 4-6-15 oc purlins, 2-3,3-4: 2x6 SPF No.2, 4-6: 2x4 SPF 2100F 1.8E except end verticals, and 2-0-0 oc purlins (4-2-0 max.): 1-2, 4-6.

BOT CHORD 2x4 SPF No.2 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. WEBS 2x3 SPF No.2 *Except*

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

7-9: 2x4 SPF No.2

Max Horz 14=-83(LC 4)

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

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

TOP CHORD 2-3=-1440/39, 3-4=-1517/57, 4-5=-2691/131, 5-6=-2694/133, 6-7=-1523/65,

7-9=-1115/77

BOT CHORD 13-14=0/1347, 12-13=-18/1734, 10-12=-22/1376

WEBS 2-14=-1571/27, 4-12=-63/1060, 5-12=-568/131, 6-12=-74/1380, 7-10=-32/1388,

3-13=-20/579, 4-13=-974/114, 2-13=-13/573

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 14, 9.
- 8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



June 15,2022



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



RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, WAS QURI 6687

Truss Type Qty Lot 156 WO 152537349 Roof Special Girder Job Reference (optional)

8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Jun 14 11:52:12 2022 Page 1 ID:Ej7EWovY_94Pzt7UVy1gWAz_t70-oDnw3dbp5MGaum3DPilmXVI9sRFyJZ6G6WvEzJz6NP1 20-1-14 22-3-14 24-2-6

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

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

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

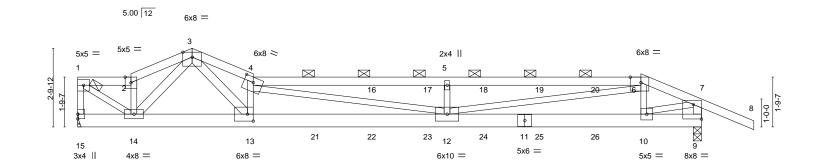
except end verticals, and 2-0-0 oc purlins (2-9-7 max.): 1-2, 4-6.

6-11-4

Scale = 1:41.2

1-10-8

2-2-0



6-11-4

·
GRIP
197/144
FT = 10%
:

TOP CHORD

BOT CHORD

LUMBER-BRACING-

2x4 SPF No.2 *Except* TOP CHORD 4-6: 2x4 SPF 2400F 2.0E

BOT CHORD 2x6 SPF 1650F 1.4E *Except*

9-11: 2x6 SPF No.2 **WEBS** 2x3 SPF No.2 *Except* 3-14,3-13,7-9: 2x4 SPF No.2

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

Max Horz 15=-73(LC 4)

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

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

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

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

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

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

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 15=155, 9=277,
- 8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 65 lb down and 26 lb up at 10-6-7, 65 lb down and 26 lb up at 12-6-7, 65 lb down and 26 lb up at 14-6-7, and 65 lb down and 26 lb up at 16-6-7, and 65 lb down and 26 lb up at 18-6-7 on top chord, and 250 lb down and 57 lb up at 8-6-2, 19 lb down at 10-6-7, 19 lb down at 12-6-7, 19 lb down at 14-6-7, 19 lb down at 16-6-7, and 19 lb down at 18-6-7, and 97 lb down and 287 lb up at 20-1-14 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 11) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

Continued on page 2

LOAD CASE(S) Standard

AD CASE(S) Standard

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

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

ANSI/TP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information

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



June 15,2022



RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, WSSOURI6687 06/28/2022 8:24:28

Lot 156 WO Truss Type Qty Ply 152537349 Roof Special Girder | Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Jun 14 11:52:12 2022 Page 2

ID:Ej7EWovY_94Pzt7UVy1gWAz_t70-oDnw3dbp5MGaum3DPilmXVI9sRFyJZ6G6WvEzJz6NP1

LOAD CASE(S) Standard

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

Vert: 1-2=-70, 2-3=-70, 3-4=-70, 4-6=-70, 6-7=-70, 7-8=-70, 9-15=-20

Concentrated Loads (lb)

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



RELEASE FOR CONSTRUCTION Truss Type Qty Lot 156 WO AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES Common LEE'S SUMMIT, WSSOURI6687 06/28/2022 8:24:28 4-1-2 4-4-4

152537350 Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Jun 14 11:52:21 2022 Page 1 ID:Ej7EWovY_94Pzt7UVy1gWAz_t70-1yqKyhiSz7PIT8FxR5PtOPAt13R1vt0bBQbCmHz6NOu

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

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

except end verticals.

Scale = 1:19.1 4x4 = 2 5.00 12 3x5 || 4x4 || 1-1-5 9-0-2x4 || 3x4 || 3x4 II LOADING (psf) SPACING-2-0-0 CSI. DEFL. I/defI L/d **PLATES** GRIP (loc) 25.0 Plate Grip DOL TC Vert(LL) -0.03 >999 360 197/144 **TCLL** 1.15 0.24 5 MT20 **TCDL** 10.0 Lumber DOL 1.15 ВС 0.31 Vert(CT) -0.06 5 >999 240 **BCLL** 0.0 Rep Stress Incr YES WB 0.04 Horz(CT) 0.00 n/a n/a Code IRC2018/TPI2014 BCDL 10.0 Matrix-R Wind(LL) 0.01 5 >999 240 Weight: 23 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**

2-5: 2x3 SPF No.2

REACTIONS.

(size) 6=Mechanical, 4=Mechanical

Max Horz 6=-27(LC 6) Max Uplift 6=-4(LC 8), 4=-5(LC 9) Max Grav 6=367(LC 1), 4=367(LC 1)

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

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

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

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



June 15,2022



REL<mark>EASE FOR CONSTRUCTION</mark> AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSO URI 6687 06/28/2022 8:24:28

Truss Type Qty Lot 156 WO Common 2

Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Jun 14 11:52:21 2022 Page 1 ID:Ej7EWovY_94Pzt7UVy1gWAz_t70-1yqKyhiSz7PIT8FxR5PtOPAqL3SQvtwbBQbCmHz6NOu 10-7-0

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

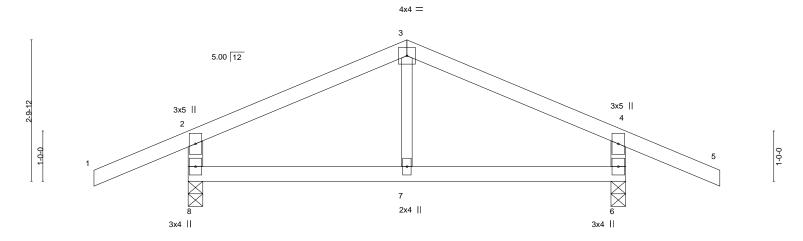
Rigid ceiling directly applied or 10-0-0 oc bracing.

except end verticals.

1-10-8

Scale = 1:22.9

152537351



		-		4-4-4		+			1-4-4			
LOADING	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	I/defI	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DC	L 1.15	TC	0.42	Vert(LL)	-0.03	7	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.22	Vert(CT)	-0.05	7	>999	240		
BCLL	0.0 *	Rep Stress In	cr YES	WB	0.04	Horz(CT)	0.00	6	n/a	n/a		
BCDL	10.0	Code IRC201	8/TPI2014	Matri	k-R	Wind(LL)	0.01	7	>999	240	Weight: 29	lb FT = 10%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

3-7: 2x3 SPF No.2

REACTIONS. (size) 8=0-3-8, 6=0-3-8 Max Horz 8=-23(LC 6)

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

Max Grav 8=520(LC 1), 6=520(LC 1)

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

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

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

4-4-4

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



June 15,2022



REL<mark>EASE FOR CONSTRUCTION</mark> AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, WAS OUR 16687 06/28/2022 8:24:28

Truss Type Qty Lot 156 WO Hip

Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Jun 14 11:52:22 2022 Page 1 ID:Ej7EWovY_94Pzt7UVy1gWAz_t70-V8NiA1i4kRX94lq8?ow6wcj?GTmPeKRkQ4Kmlkz6NOt 10-7-0 8-8-8

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

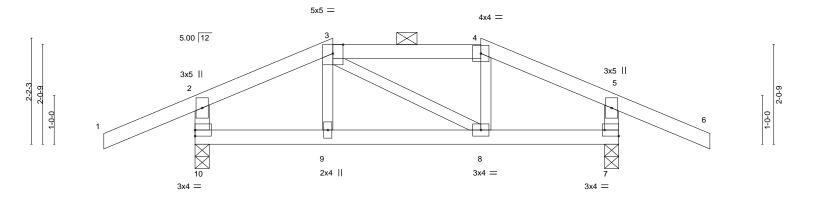
except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 3-4.

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

2-10-0 5-10-8 2-10-0 3-0-8 2-10-0 1-10-8

Scale = 1:23.7

152537352



		L	2-10-0			5-10-8				-8-8		
			2-10-0	ı		3-0-8			2-	10-0	<u> </u>	
Plate Offse	ets (X,Y)	[7:Edge,0-1-8]										
LOADING	(psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DO	L 1.15	TC 0	.40	Vert(LL)	-0.04	8-9	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC 0	.30	Vert(CT)	-0.07	8-9	>999	240		
BCLL	0.0 *	Rep Stress Inc	cr YES	WB 0	.03	Horz(CT)	0.00	7	n/a	n/a		
BCDL	10.0	Code IRC201	8/TPI2014	Matrix-S	3	Wind(LL)	0.02	8-9	>999	240	Weight: 32 lb	FT = 10%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

REACTIONS. (size) 10=0-3-8, 7=0-3-8 Max Horz 10=-24(LC 6)

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

Max Grav 10=520(LC 1), 7=520(LC 1)

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

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

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 10=107, 7=107.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



June 15,2022



RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, WAS OUR 16687 06/28/2022 8:24;28

Truss Type Qty Lot 156 WO Hip Girder

Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Jun 14 11:52:23 2022 Page 1

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

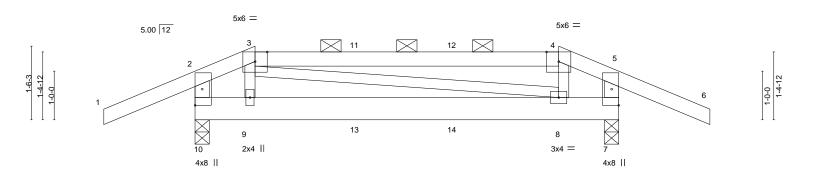
except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 3-4.

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

ID:Ej7EWovY_94Pzt7UVy1gWAz_t70-zKx4NNjiVlf0iSPKYWRLTqF7mt8NNmduek4JqAz6NOs 10-7-0 8-8-8 6-2-14 1-2-13 1-10-8

Scale = 1:23.7

152537353



	1-2-13 1-2-13		7-5-11 6-2-14		8-8- 1-2-1		
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 0.61	Vert(LL) -0	0.02 8-9	>999 360	MT20	197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.19	Vert(CT) -0	0.04 8-9	>999 240		
BCLL 0.0 *	Rep Stress Incr NO	WB 0.09	Horz(CT) C	0.00 7	n/a n/a		
BCDL 10.0	Code IRC2018/TPI2014	Matrix-S	Wind(LL) -0	0.02 8-9	>999 240	Weight: 38 lb	FT = 10%

BOT CHORD

LUMBER-BRACING-TOP CHORD

1-2-13

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

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

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

Max Horz 10=24(LC 7) Max Uplift 10=-420(LC 29), 7=-420(LC 28) Max Grav 10=502(LC 45), 7=502(LC 44)

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

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

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

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 10=420, 7=420.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 9) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 45 lb down and 12 lb up at 1-2-13, 50 lb down and 12 lb up at 3-4-4, and 50 lb down and 12 lb up at 5-4-4, and 45 lb down and 12 lb up at 7-5-11 on top chord , and 145 lb down and 761 lb up at 1-2-13, 14 lb down and 16 lb up at 3-4-4, and 14 lb down and 16 lb up at 5-4-4, and 145 lb down and 761 lb up at 7-4-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 10) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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

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



June 15,2022





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

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



RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SER FICES LEE'S SUMMIT, WSSOURI6687 06/28/2022 8:24:28

Truss Type Qty Ply Lot 156 WO 152537353 Hip Girder

Job Reference (optional)

8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Jun 14 11:52:23 2022 Page 2
ID:Ej7EWovY_94Pzt7UVy1gWAz_t70-zKx4NNjiVlf0iSPKYWRLTqF7mt8NNmduek4JqAz6NOs

LOAD CASE(S) Standard Concentrated Loads (lb) Vert: 9=56(B) 8=56(B)



RELEASE FOR CONSTRUCTION **AS NOTED ON PLANS REVIEW** DEVELOPMENT SERVICES LEE'S SUMMIT, MISSO URI 6687 06/28/2022 8:24:28

Truss Type Qty Lot 156 WO 152537354 Diagonal Hip Girder Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Jun 14 11:52:24 2022 Page 1

ID:Ej7EWovY_94Pzt7UVy1gWAz_t70-RXVSbjkLG2ntKczW6Dza01oF1HNK6EL1tOpsNcz6NOr

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

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

except end verticals.

Scale = 1:20.5

2-10-0

5x6 || 3.12 12 2 3 3x8 = 5 13 15 3x5 || 6 2x4 ||

2-10-0 2-9-11 Plate Offsets (X,Y)-- [3:0-5-9.Edge], [4:0-0-1.0-0-0], [5:Edge.0-2-8], [7:0-3-8.Edge]

	0010 (71,)	Total a citagali I ma a ria	o oj, [o.=ugo	0 = 0], [o 0,= ago]							
LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.77	Vert(LL)	-0.18	3	>531	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.59	Vert(CT)	-0.33	3-5	>300	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.00	Horz(CT)	0.17	5	n/a	n/a		
BCDL	10.0	Code IRC2018/TP	12014	Matri	x-R	Wind(LL)	0.17	3	>571	240	Weight: 28 lb	FT = 10%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

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

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

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

Max Horz 7=109(LC 5)

Max Uplift 7=-172(LC 4), 5=-126(LC 8) Max Grav 7=577(LC 1), 5=481(LC 1)

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

3x10 ||

TOP CHORD 2-7=-563/186, 4-5=-259/103

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 7=172, 5=126
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 72 lb down and 134 lb up at 2-1-6, 63 lb down and 36 lb up at 2-4-9, 108 lb down and 63 lb up at 4-11-5, and 92 lb down and 48 lb up at 5-3-12, and 98 lb down and 67 lb up at 7-6-1 on top chord, and 18 lb down and 21 lb up at 2-1-6, 3 lb down at 2-4-9, at 4-11-5, and 22 lb down and 24 lb up at 5-3-12, and 63 lb down and 27 lb up at 7-6-1 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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

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

Concentrated Loads (lb)

Vert: 8=35(B) 9=-39(F) 10=-1(B) 11=-62(F) 14=-20(B) 15=-63(F)



June 15,2022



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 AS NOTED ON PLANS REVIEW DÉVELOPMENT SERVICES LEE'S SUMMIT, MISSO URI 6687 06/28/2022 8:24:28

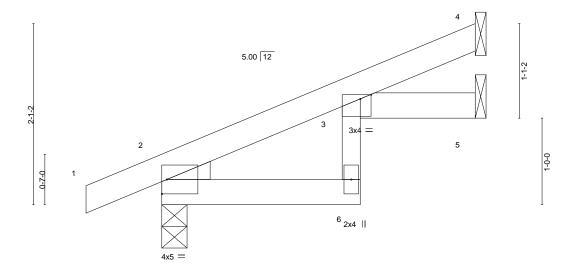
Truss Type Qty Lot 156 WO 152537355 Jack-Open Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Jun 14 11:52:32 2022 Page 1

ID:Ej7EWovY_94Pzt7UVy1gWAz_t70-C3_UGSqMNWnkHqb3av6TKj7mjVEP_r8CjdlHf9z6NOj 1-3-15

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

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

Scale = 1:13.3



2-3-8 2-3-8

Plate Offs	ets (X,Y)	[3:0-1-8,0-0-9]											
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	0.21	Vert(LL)	-0.02	6	>999	360	MT20	197/144	
TCDL	10.0	Lumber DOL	1.15	BC	0.06	Vert(CT)	-0.03	6	>999	240			
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.01	Horz(CT)	0.02	5	n/a	n/a			
BCDL	10.0	Code IRC2018/T	PI2014	Matri	x-P	Wind(LL)	0.02	6	>999	240	Weight: 11 lb	FT = 10%	

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

WEDGE

Left: 2x3 SPF No.2

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

Max Horz 2=75(LC 8)

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

Max Grav 4=129(LC 1), 2=236(LC 1), 5=27(LC 3)

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

NOTES-

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

0-10-8

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



June 15,2022



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Truss Type Qty Lot 156 WO 152537356 Jack-Open Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Jun 14 11:52:39 2022 Page 1

ID:Ej7EWovY_94Pzt7UVy1gWAz_t70-VPv7krwlkfgldvdPUtk67CwxwKdC70tEKDy9PFz6NOc

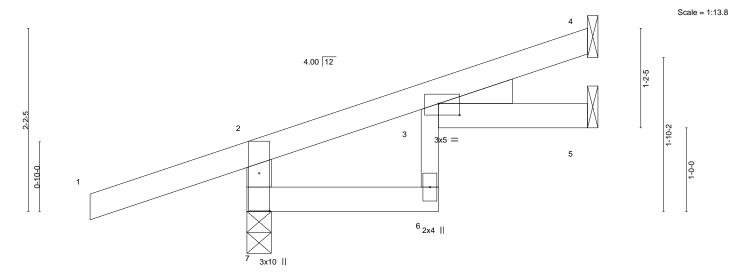
4-0-14

except end verticals.

Structural wood sheathing directly applied or 4-0-14 oc purlins,

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

4-0-14 2-3-8 2-3-8 1-10-8 1-9-6



				1		2-3-8		1		1-9-6	1	
Plate Offsets	s (X,Y)	[3:0-3-0,0-1-10], [7:0-5-6,	0-1-8]									
LOADING ((psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 2	25.0	Plate Grip DOL	1.15	TC	0.28	Vert(LL)	-0.01	3	>999	360	MT20	197/144
TCDL 1	10.0	Lumber DOL	1.15	BC	0.12	Vert(CT)	-0.02	6	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.01	Horz(CT)	0.02	5	n/a	n/a		
BCDL 1	10.0	Code IRC2018/TF	PI2014	Matrix	x-P	Wind(LL)	0.02	6	>999	240	Weight: 14 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*

3-6: 2x3 SPF No.2

WEDGE

Right: 2x4 SP No.3

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

Max Horz 7=79(LC 4)

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

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

TOP CHORD 2-7=-320/135

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 5 except (jt=lb) 7=122.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



June 15,2022



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Truss Type Qty Lot 156 WO 152537357 Jack-Open Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Jun 14 11:52:46 2022 Page 1

ID:Ej7EWovY_94Pzt7UVy1gWAz_t70-omqmCF?84pYlz_flPrMlvgi8980TGBoGxp818Lz6NOV

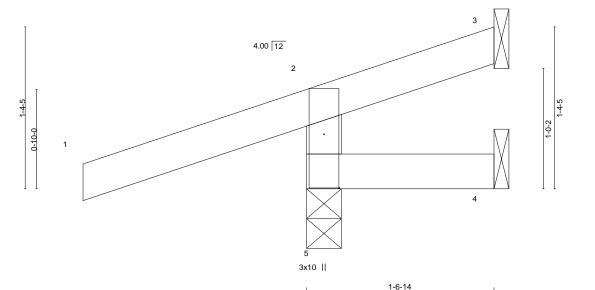
Structural wood sheathing directly applied or 1-6-14 oc purlins,

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

except end verticals.

1-10-8 1-6-14

Scale = 1:9.7



			1-6-14	
Plate Offsets (X,Y)	[5:0-5-6,0-1-8]			
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d PLATES GRIP	
TCLL 25.0	Plate Grip DOL 1.15	TC 0.28	Vert(LL) 0.00 5 >999 360 MT20 197/144	
TCDL 10.0	Lumber DOL 1.15	BC 0.08	Vert(CT) 0.00 4-5 >999 240	
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT) -0.00 3 n/a n/a	
BCDL 10.0	Code IRC2018/TPI2014	Matrix-R	Wind(LL) -0.00 5 >999 240 Weight: 6 lb FT = 10%	

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=46(LC 4)

Max Uplift 5=-143(LC 4), 3=-22(LC 1), 4=-16(LC 1) Max Grav 5=306(LC 1), 3=16(LC 4), 4=18(LC 4)

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

TOP CHORD 2-5=-262/142

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 4 except (jt=lb) 5 = 143
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



June 15,2022

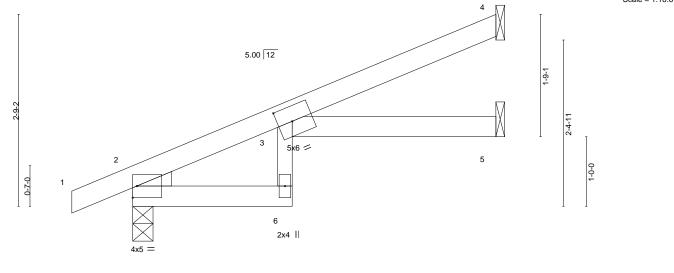


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Truss Type Qty Lot 156 WO 152537358 Jack-Open Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Jun 14 11:52:53 2022 Page 1

ID:Ej7EWovY_94Pzt7UVy1gWAz_t70-56lQge4XRzRll3h5Jp_Oh9VHEzL6PLXIYOLvuRz6NOO 5-2-10 2-11-2 2-3-8 2-3-8 0-10-8

Scale = 1:16.6



		2-3-8	₁ 5-2-10	1
		2-3-8	2-11-2	_
Plate Offsets (X Y)	[3:0-2-8 0-2-9]			

Plate Off	sets (X,Y)	[3:0-2-8,0-2-9]										
LOADING	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	0.48	Vert(LL)	-0.06	` ź	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	ВС	0.33	Vert(CT)	-0.10	3	>583	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.07	5	n/a	n/a		
BCDL	10.0	Code IRC2018/T	PI2014	Matri	x-R	Wind(LL)	0.06	3	>966	240	Weight: 15 lb	FT = 10%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

3-6: 2x3 SPF No.2

WEDGE

Left: 2x3 SPF No.2

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

Max Horz 2=102(LC 8)

Max Uplift 4=-58(LC 8), 2=-44(LC 8), 5=-6(LC 8) Max Grav 4=135(LC 1), 2=304(LC 1), 5=87(LC 3)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 2, 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 5-2-10 oc purlins.

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

June 15,2022



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Truss Type Qty Lot 156 WO 152537359 Jack-Open Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Jun 14 11:52:53 2022 Page 1

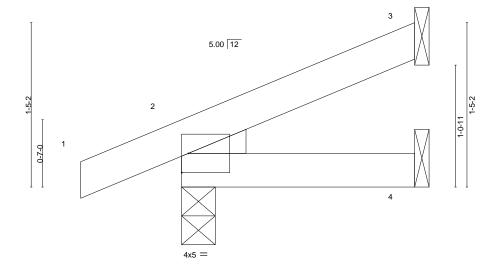
ID:Ej7EWovY_94Pzt7UVy1gWAz_t70-56lQge4XRzRll3h5Jp_Oh9VNlzQtPLXIYOLvuRz6NOO

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

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

2-0-4 0-10-8

Scale = 1:10.0



BRACING-

TOP CHORD

BOT CHORD

LOADING TCLL TCDL	25.0 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15	CSI. TC 0.06 BC 0.03	Vert(CT) -0	in (loc) 0.00 2 0.00 2-4	l/defl >999 >999	L/d 360 240	PLATES MT20	GRIP 197/144
BCLL	0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT) -0	0.00	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014	Matrix-P	Wind(LL)	0.00 2	****	240	Weight: 6 lb	FT = 10%

LUMBER-

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

WEDGE

Left: 2x3 SPF No.2

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

Max Horz 2=48(LC 8)

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

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

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

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



June 15,2022



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Truss Type Qty Lot 156 WO 152537360 Jack-Closed 3 Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Jun 14 11:52:54 2022 Page 1

ID:Ej7EWovY_94Pzt7UVy1gWAz_t70-ZIJou_59CGZcwDGHtWVdDM1QANgP8omSm24SRtz6NON

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

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

except end verticals.

3-7-12

2-3-8

0-10-8

Scale = 1:19.1

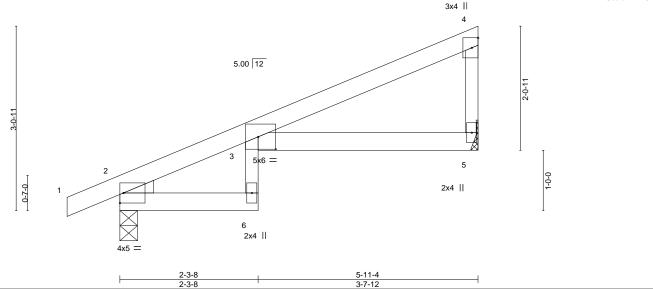


Plate Offs	ets (X,Y)	[3:0-3-8,0-2-7]										
LOADING	(nsf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.60	Vert(LL)	-0.10	6	>711	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	ВС	0.33	Vert(CT)	-0.17	6	>397	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.11	5	n/a	n/a		
BCDL	10.0	Code IRC2018/Ti	PI2014	Matri	x-R	Wind(LL)	0.10	6	>705	240	Weight: 18 lb	FT = 10%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

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

WEBS WEDGE

Left: 2x3 SPF No.2

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

Max Horz 2=104(LC 5)

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

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

- 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.
- Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 2.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



June 15,2022



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-0-10-8 0-10-8

Truss Type Qty Lot 156 WO 152537361 Jack-Closed Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Jun 14 11:52:55 2022 Page 1

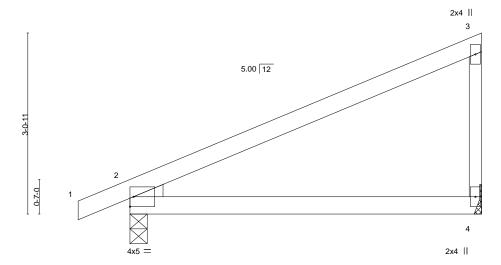
ID:Ej7EWovY_94Pzt7UVy1gWAz_t70-1UtA5K6nzahTYNrUQE0smaabvn0OtF0b?iq?zJz6NOM 5-11-4 5-11-4

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

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

except end verticals.

Scale = 1:19.5



5-11-4

BRACING-

TOP CHORD

BOT CHORD

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	0.60	Vert(LL)	-0.06	2-4	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL 1	.15	BC	0.35	Vert(CT)	-0.13	2-4	>544	240		
BCLL	0.0 *	Rep Stress Incr Y	ES	WB	0.00	Horz(CT)	-0.00	4	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI201	14	Matri	x-P	Wind(LL)	0.00	2	****	240	Weight: 18 lb	FT = 10%

LUMBER-

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

WEDGE

Left: 2x3 SPF No.2

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

Max Horz 2=120(LC 5)

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

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

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate 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, 2.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



June 15,2022



RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DÉVELOPMENT SERVICES LEE'S SUMMIT, WSSOURI6687 06/28/2022 8:24:28

Truss Type Qty Lot 156 WO 152537362 Jack-Closed Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Jun 14 11:52:55 2022 Page 1

ID:Ej7EWovY_94Pzt7UVy1gWAz_t70-1UtA5K6nzahTYNrUQE0smaaajn05tF0b?iq?zJz6NOM

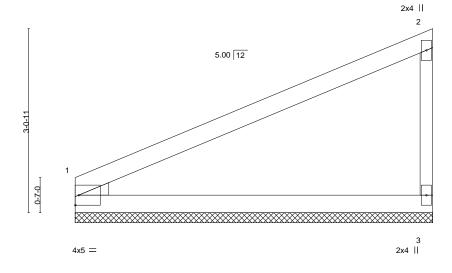
Structural wood sheathing directly applied or 5-11-4 oc purlins,

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

except end verticals.

5-11-4

Scale = 1:19.1



LOADING (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** 0.67 n/a n/a MT20 **TCDL** 10.0 Lumber DOL 1.15 ВС 0.36 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: 17 lb FT = 10%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

WEDGE

Left: 2x3 SPF No.2

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

Max Horz 1=118(LC 5)

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

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

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate 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) 3, 1.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



June 15,2022



REL<mark>EASE FOR CONSTRUCTION</mark> AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSO URI 6687 06/28/2022 8:24:28

Truss Type Qty Lot 156 WO 152537363 Diagonal Hip Girder Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Jun 14 11:52:25 2022 Page 1

ID:Ej7EWovY_94Pzt7UVy1gWAz_t70-wj3qo3lz1MvkxmYjgxUpYFLPHhlmrd0A62ZQv3z6NOq

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

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

Scale = 1:22.8

5

4x4 =

4-8-1 4-8-1

6

2x4 ||

except end verticals.

3x4 II 10 3.12 12 3x4 =2 1-0-0 11

4-8-1 LOADING (psf) SPACING-2-0-0 CSI. DEFL. L/d **PLATES** GRIP (loc) I/defl 25.0 Plate Grip DOL Vert(LL) 197/144 **TCLL** 1.15 TC 0.87 -0.05 5-6 >999 360 MT20 **TCDL** 10.0 Lumber DOL 1.15 ВС 0.45 Vert(CT) -0.08 >999 240 5-6 **BCLL** 0.0 Rep Stress Incr NO WB 0.29 Horz(CT) 0.00 5 n/a n/a **BCDL** 10.0 Code IRC2018/TPI2014 Matrix-S Wind(LL) 0.04 5-6 >999 240 Weight: 39 lb FT = 10%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

2-7: 2x6 SPF No.2

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

Max Horz 7=145(LC 5)

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

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

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

WFBS 3-5=-490/167

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.

6x8 II

- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 7=266, 5=149,
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 55 lb down and 94 lb up at 2-11-15, 78 lb down and 36 lb up at 3-0-9, and 79 lb down and 54 lb up at 5-6-11, and 102 lb down and 86 lb up at 8-1-6 on top chord, and 10 lb down and 16 lb up at 2-11-15, 9 lb down and 7 lb up at 3-0-9, 16 lb down and 2 lb up at 5-6-11, and 168 lb down and 75 lb up at 6-2-15, and 40 lb down at 8-1-6 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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

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

Concentrated Loads (lb)

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



June 15,2022



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



REL<mark>EASE FOR CONSTRUCTION</mark> AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, WSSOURI6687 06/28/2022 8:24:28

Truss Type Qty Lot 156 WO 152537364 Jack-Open Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Jun 14 11:52:26 2022 Page 1

ID:Ej7EWovY_94Pzt7UVy1gWAz_t70-OvdD0Pmbog1bZv7vEe?25Stjy49ra8rKKhlzRVz6NOp

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

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

except end verticals.

-1-10-8 5-0-4 5-0-4 1-10-8

Scale = 1:19.1 0-4-7 5.00 12 2x4 || 3x4

					5-0-4						<u> </u>	
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	0.30	Vert(LL)	-0.02	4-5	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.20	Vert(CT)	-0.05	4-5	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.02	3	n/a	n/a		
BCDL	10.0	Code IRC2018/TF	PI2014	Matri	ix-R	Wind(LL)	0.02	4-5	>999	240	Weight: 15 lb	FT = 10%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

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

WEBS 2x4 SPF No.2

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

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

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

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

TOP CHORD 2-5=-340/110

- 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.



June 15,2022



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Truss Type Qty Lot 156 WO 152537365 Jack-Open Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Jun 14 11:52:27 2022 Page 1

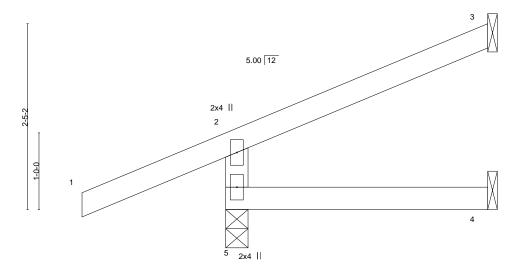
ID:Ej7EWovY_94Pzt7UVy1gWAz_t70-s6BbDImDZz9SB3i5nLWHdgQuvUX1Jb5TZL2Xzxz6NOo

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

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

-1-10-8 1-10-8

Scale = 1:15.0



except end verticals.

LOADING TCLL TCDL	25.0 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15	CSI. TC 0.28 BC 0.08	Vert(LL) -0.0 Vert(CT) -0.0		l/defl L/ >999 36 >999 24	0		GRIP 97/144
BCLL	0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT) -0.0	00 3	n/a n/	а		
BCDL	10.0	Code IRC2018/TPI2014	Matrix-R	Wind(LL) 0.0	00 4-5	>999 24	0	Weight: 11 lb	FT = 10%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

REACTIONS. 5=0-3-8, 3=Mechanical, 4=Mechanical

(size)

Max Horz 5=73(LC 8)

Max Uplift 5=-71(LC 4), 3=-48(LC 8)

Max Grav 5=330(LC 1), 3=77(LC 1), 4=57(LC 3)

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

TOP CHORD 2-5=-289/94

- 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.



June 15,2022



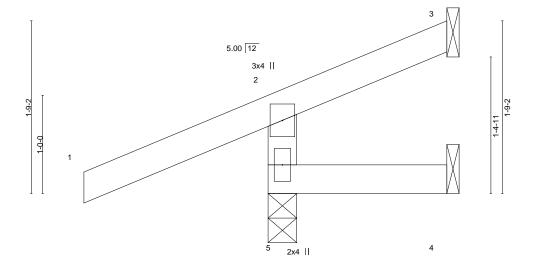
REL<mark>EASE FOR CONSTRUCTION</mark> AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSO URI 6687 06/28/2022 8:24:29

Truss Type Qty Lot 156 WO 152537366 Jack-Open Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Jun 14 11:52:27 2022 Page 1

ID:Ej7EWovY_94Pzt7UVy1gWAz_t70-s6BbDImDZz9SB3i5nLWHdgQuvUX3Jb5TZL2Xzxz6NOo

1-10-8 1-9-13

Scale = 1:11.7



				1-9-13 1-9-13			
ADING (psf)	SPACING- 2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	_
L 25.0	Plate Grip DOL 1.15	TC 0.28	Vert(LL)	0.00 4-5	>999	360	

TCLL TCDL 10.0 Lumber DOL 1.15 вс 0.08 Vert(CT) 0.00 4-5 >999 240 **BCLL** 0.0 Rep Stress Incr YES WB 0.00 Horz(CT) -0.01 3 n/a n/a **BCDL** 10.0 Code IRC2018/TPI2014 Matrix-R Wind(LL) -0.00 5 >999 240 **PLATES** GRIP 197/144 MT20

Weight: 7 lb FT = 10%

LUMBER-

LOA

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

BRACING-TOP CHORD

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

except end verticals.

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

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

TOP CHORD 2-5=-262/96

- 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.



June 15,2022



REL<mark>EASE FOR CONSTRUCTION</mark> AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSO URI 6687 06/28/2022 8:24:29

Truss Type Qty Lot 156 WO 152537367 Jack-Closed Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Jun 14 11:52:28 2022 Page 1

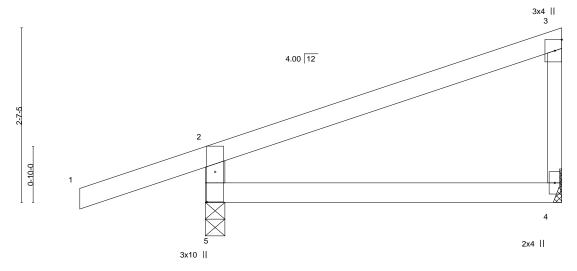
ID:Ej7EWovY_94Pzt7UVy1gWAz_t70-KIIzQ5nrKHHloDHIL31WAty3YurK22Ldo?n4WNz6NOn

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

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

5-3-14 1-10-8

Scale = 1:17.2



except end verticals.

LOADING (psf) SPACING- 2-0-0 CSI. DEFL. in (loc) l/defl L/d PLATES GRIP TCLL 25.0 Plate Grip DOL 1.15 TC 0.29 Vert(LL) -0.03 4-5 >999 360 MT20 197/144 TCDL 10.0 Lumber DOL 1.15 BC 0.20 Vert(CT) -0.05 4-5 >999 240 BCLL 0.0 * Rep Stress Incr YES WB 0.00 Horz(CT) -0.00 4 n/a n/a	Plate Offsets (X,Y) [5:0-5-6,0-1-8]										
TCDL 10.0 Lumber DOL 1.15 BC 0.20 Vert(CT) -0.05 4-5 >999 240	\(\(\dot{\chi}\)										
	TCDL 10.0 BCLL 0.0	999 240 n/a n/a									

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

3-4: 2x3 SPF No.2

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

Max Horz 5=112(LC 5)

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

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

TOP CHORD 2-5=-352/170

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4 except (jt=lb) 5 = 136
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



June 15,2022



REL<mark>EASE FOR CONSTRUCTION</mark> AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, WSSOURI6687 06/28/2022 8:24:29

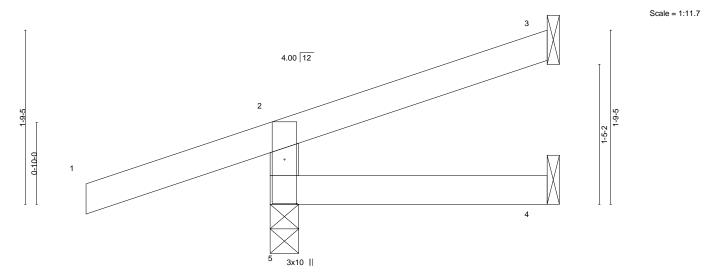
Truss Type Qty Ply Lot 156 WO 152537368 Jack-Open Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Jun 14 11:52:29 2022 Page 1

ID:Ej7EWovY_94Pzt7UVy1gWAz_t70-oUILeRoT4bP9QNsUvmYlj5VESICcnUam1fXd2qz6NOm

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

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

1-10-8 2-9-14



2-9-14

except end verticals.

Plate Off	rsets (X,Y)	[5:0-5-6,0-1-8]			
LOADIN	G (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d PLATES GRIP	
TCLL	25.0	Plate Grip DOL 1.15	TC 0.28	Vert(LL) 0.00 4-5 >999 360 MT20 197/144	
TCDL	10.0	Lumber DOL 1.15	BC 0.07	Vert(CT) -0.00 4-5 >999 240	
BCLL	0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT) -0.00 3 n/a n/a	
BCDL	10.0	Code IRC2018/TPI2014	Matrix-R	Wind(LL) -0.00 4-5 >999 240 Weight: 9 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=62(LC 4)

Max Uplift 5=-124(LC 4), 3=-31(LC 8) Max Grav 5=314(LC 1), 3=52(LC 1), 4=44(LC 3)

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

TOP CHORD 2-5=-273/139

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3 except (jt=lb) 5=124
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



June 15,2022



REL<mark>EASE FOR CONSTRUCTION</mark> AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSO URI 6687 06/28/2022 8:24:29

Truss Type Qty Lot 156 WO 152537369 Jack-Closed Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Jun 14 11:52:29 2022 Page 1

ID:Ej7EWovY_94Pzt7UVy1gWAz_t70-oUILeRoT4bP9QNsUvmYlj5VDrl9anUam1fXd2gz6NOm

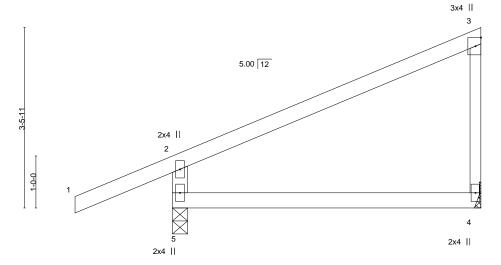
Structural wood sheathing directly applied or 5-11-4 oc purlins,

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

except end verticals.

1-10-8 1-10-8 5-11-4

Scale = 1:22.2



5-11-4

BRACING-

TOP CHORD

BOT CHORD

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	0.38	Vert(LL)	-0.04	4-5	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.26	Vert(CT)	-0.09	4-5	>773	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/TPI	12014	Matri	x-R	Wind(LL)	0.02	4-5	>999	240	Weight: 19 lb	FT = 10%

LUMBER-

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

3-4: 2x3 SPF No.2

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

Max Horz 5=150(LC 5)

Max Uplift 5=-85(LC 8), 4=-56(LC 8) Max Grav 5=423(LC 1), 4=231(LC 1)

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

TOP CHORD 2-5=-373/129

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



June 15,2022



REL<mark>EASE FOR CONSTRUCTION</mark> AS NOTED ON PLANS REVIEW DÉVELOPMENT SERV*I*CES LEE'S SUMMIT, MISSO URI 6687 06/28/2022 8:24:29

Truss Type Qty Lot 156 WO 152537370 Jack-Closed 2

Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Jun 14 11:52:30 2022 Page 1 ID:Ej7EWovY_94Pzt7UVy1gWAz_t70-Ghsjrmp5ruX02XRgTU4_Fl2MhiVWWxqvFJGBaGz6NOI

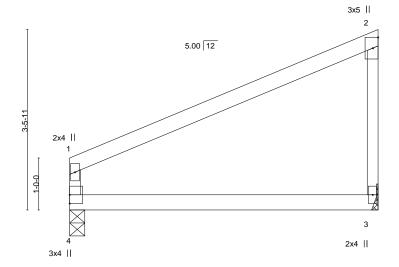
Structural wood sheathing directly applied or 5-11-4 oc purlins,

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

except end verticals.

5-11-4

Scale = 1:22.2



LOADING (psf) SPACING-2-0-0 CSI. DEFL. I/defI L/d **PLATES** GRIP (loc) 25.0 Plate Grip DOL Vert(LL) -0.05 >999 360 197/144 **TCLL** 1.15 TC 0.50 MT20 **TCDL** 10.0 Lumber DOL 1.15 ВС 0.28 Vert(CT) -0.10 3-4 >707 240 **BCLL** 0.0 Rep Stress Incr YES WB 0.00 Horz(CT) -0.00 3 n/a n/a Code IRC2018/TPI2014 BCDL 10.0 Matrix-R Wind(LL) 0.02 3-4 >999 240 Weight: 17 lb FT = 10%

5-11-4

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

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

4=0-3-8, 3=Mechanical (size) Max Horz 4=133(LC 5) Max Uplift 4=-33(LC 8), 3=-63(LC 8) Max Grav 4=258(LC 1), 3=258(LC 1)

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

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



June 15,2022



RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, WAS OUR 16687 06/28/2022 8:24:29

Truss Type Qty Lot 156 WO 152537371 Diagonal Hip Girder 2 Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Jun 14 11:52:31 2022 Page 1

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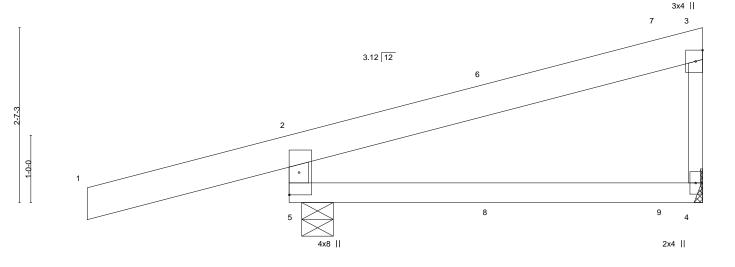
Structural wood sheathing directly applied or 6-0-0 oc purlins,

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

except end verticals.

6-1-12

Scale = 1:17.1



6-1-12 5-11-8 LOADING (psf) SPACING-CSI. DEFL. L/d **PLATES** GRIP 2-0-0 (loc) I/def

Plate Grip DOL 25.0 Vert(LL) -0.05 197/144 **TCLL** 1.15 TC 0.80 4-5 >999 360 MT20 **TCDL** 10.0 Lumber DOL 1.15 ВС 0.29 Vert(CT) -0.09 4-5 >764 240 **BCLL** 0.0 Rep Stress Incr NO WB 0.00 Horz(CT) 0.00 n/a n/a Code IRC2018/TPI2014 BCDL 10.0 Matrix-R Wind(LL) -0.02 4-5 >999 240 Weight: 26 lb FT = 10%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x6 SPF 1650F 1.4E 2x4 SPF No.2 **BOT CHORD** 2x4 SPF No.2 *Except* **WEBS**

3-4: 2x3 SPF No.2

REACTIONS. (size) 5=0-5-10, 4=Mechanical

Max Horz 5=108(LC 7)

Max Uplift 5=-212(LC 4), 4=-54(LC 8) Max Grav 5=926(LC 41), 4=229(LC 1)

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

TOP CHORD 2-5=-849/249

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4 except (jt=lb) 5=212
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 7) Load case(s) 40, 41 has/have been modified. Building designer must review loads to verify that they are correct for the intended use
- 8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 78 lb down and 36 lb up at 3-0-9, and 68 lb down and 65 lb up at 3-0-14, and 67 lb down and 54 lb up at 5-7-10 on top chord, and 9 lb down and 7 lb up at 3-0-9, and 10 lb down and 16 lb up at 3-0-14, and 24 lb down at 5-7-10 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 9) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard Except:

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

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

Vert: 7=-20(B) 8=7(F) 9=-8(B)



June 15,2022

Continued on page 2

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

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



RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, WSSOURI6687 06/28/2022 8:24:29

Lot 156 WO Truss Type Qty Ply 2

Diagonal Hip Girder

| Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Jun 14 11:52:31 2022 Page 2 ID:Ej7EWovY_94Pzt7UVy1gWAz_t70-ktQ536pkcCftfh0s0BbEoWaSp5raFO43Uz0k7iz6NOk

152537371

LOAD CASE(S)

40) Reversal: User defined: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

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

Concentrated Loads (lb)

Vert: 1=-250 6=1(B) 7=-20(B) 8=22(F=7, B=16) 9=-8(B)

41) User defined: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

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

Concentrated Loads (lb)

Vert: 1=-250 7=-20(B) 8=7(F) 9=-8(B)



REL<mark>EASE FOR CONSTRUCTION</mark> AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, WSSOURI6687 06/28/2022 8:24:29

Truss Type Qty Lot 156 WO 152537372 Jack-Open 2 Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Jun 14 11:52:31 2022 Page 1

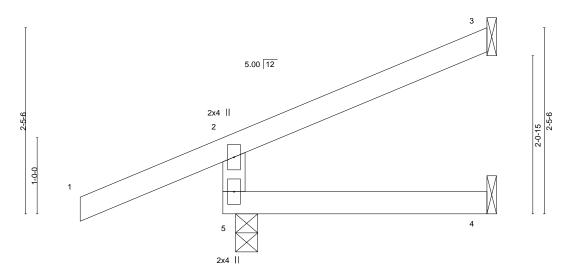
ID:Ej7EWovY_94Pzt7UVy1gWAz_t70-ktQ536pkcCftfh0s0BbEoWaau5uwFO43Uz0k7iz6NOk 3-5-10

Structural wood sheathing directly applied or 3-5-10 oc purlins,

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

except end verticals.

Scale = 1:15.1



Q-2-Q	3-5-10	
0-2-0	3-3-10	

BRACING-

TOP CHORD

BOT CHORD

LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.28	Vert(LL)	-0.01	4-5	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.08	Vert(CT)	-0.01	4-5	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.00	3	n/a	n/a		
BCDL	10.0	Code IRC2018/TP	I2014	Matri	x-R	Wind(LL)	0.00	4-5	>999	240	Weight: 11 lb	FT = 10%

LUMBER-

REACTIONS.

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

WEBS 2x4 SPF No.2

(size)

Max Horz 5=74(LC 8)

Max Uplift 5=-71(LC 4), 3=-49(LC 8) Max Grav 5=332(LC 1), 3=79(LC 1), 4=58(LC 3)

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

5=0-3-8, 3=Mechanical, 4=Mechanical

TOP CHORD 2-5=-290/95

NOTES-

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

-1-10-8 1-10-8

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.



June 15,2022



REL<mark>EASE FOR CONSTRUCTION</mark> AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSO URI 6687 06/28/2022 8:24:29

Truss Type Qty Lot 156 WO 152537373 Jack-Open 2 Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Jun 14 11:52:33 2022 Page 1

1-10-7

except end verticals.

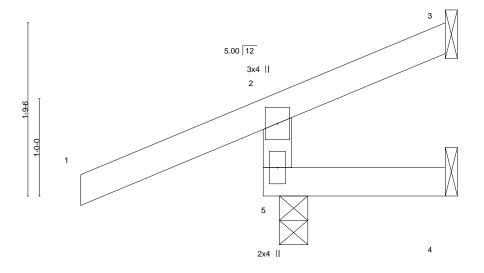
ID:Ej7EWovY_94Pzt7UVy1gWAz_t70-hGYsUor_8pvbv_AF8cditxgwOvaTjlaMxHVrBbz6NOi

Structural wood sheathing directly applied or 1-10-7 oc purlins,

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

1-10-8 1-10-7

Scale = 1:11.8



						0-2-0		1-0-	٠,				
LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL	25.0	Plate Grip DOL	1.15	TC	0.28	Vert(LL)	0.00	4-5	>999	360	MT20	197/144	
TCDL	10.0	Lumber DOL	1.15	BC	0.08	Vert(CT)	0.00	4-5	>999	240			
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.01	3	n/a	n/a			
BCDI.	10.0	Code IRC2018/TI	PI2014	Matri	v-R	Wind(LL)	-0.00	5	~aaa	240	Meight: 7 lb	FT - 10%	

0-2-0

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

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

3=Mechanical, 4=Mechanical, 5=0-3-8 (size) Max Horz 5=53(LC 5) Max Uplift 3=-16(LC 8), 4=-6(LC 1), 5=-86(LC 4) Max Grav 3=5(LC 19), 4=25(LC 3), 5=302(LC 1)

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

TOP CHORD 2-5=-262/95

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



June 15,2022



REL<mark>EASE FOR CONSTRUCTION</mark> AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, WSSOURI6687 06/28/2022 8:24:29

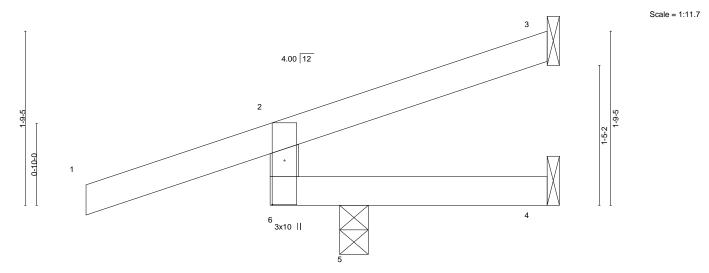
Truss Type Qty Lot 156 WO 152537374 Jack-Open Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Jun 14 11:52:33 2022 Page 1

ID:Ej7EWovY_94Pzt7UVy1gWAz_t70-hGYsUor_8pvbv_AF8cditxgw3vW2jlaMxHVrBbz6NOi

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

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

1-10-8 2-9-14



0-8-8	2-9-14
0-8-8	2-1-6

except end verticals.

Plate Offsets (X,Y)-	[6:0-5-6,0-1-8]							
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. i	n (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL 1.15	TC 0.30	Vert(LL) 0.0	1 4-5	>999	360	MT20	197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.36	Vert(CT) 0.0	1 4-5	>999	240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT) -0.03	3	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014	Matrix-R	Wind(LL) -0.0	1 4-5	>999	240	Weight: 9 lb	FT = 10%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

2x4 SPF No.2 TOP CHORD

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

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

Max Horz 5=62(LC 4)

Max Uplift 3=-25(LC 8), 4=-78(LC 1), 5=-187(LC 4) Max Grav 3=25(LC 1), 4=55(LC 4), 5=430(LC 1)

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

TOP CHORD 2-6=-300/150

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 4 except (jt=lb) 5=187
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



June 15,2022



REL<mark>EASE FOR CONSTRUCTION</mark> AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, WSSOURI6687 06/28/2022 8:24:29

Truss Type Qty Ply Lot 156 WO 152537375 Jack-Open Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Jun 14 11:52:34 2022 Page 1

2-7-14

except end verticals.

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

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

1-10-8 2-9-14

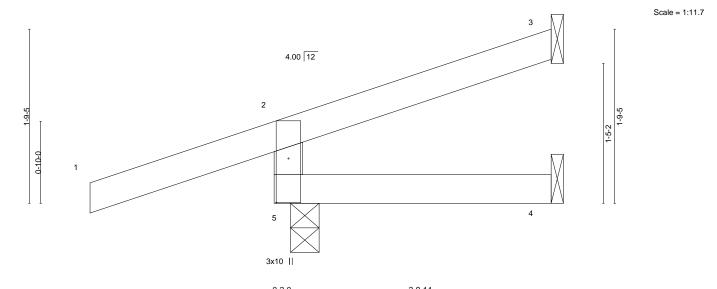


Plate Offsets (X,Y)	[5:0-5-6,0-1-8]										
LOADING (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC	0.28	Vert(LL)	0.00	4-5	>999	360	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC	0.07	Vert(CT)	-0.00	4-5	>999	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.00	3	n/a	n/a		
BCDL 10.0	Code IRC2018/T	PI2014	Matri	x-R	Wind(LL)	-0.00	4-5	>999	240	Weight: 9 lb	FT = 10%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

WEBS 2x4 SPF No.2

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

Max Horz 5=62(LC 4)

Max Uplift 5=-124(LC 4), 3=-31(LC 8) Max Grav 5=314(LC 1), 3=52(LC 1), 4=44(LC 3)

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

TOP CHORD 2-5=-273/139

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3 except (jt=lb) 5=124
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



June 15,2022



RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSO URI 6687 06/28/2022 8:24:29

Truss Type Qty Lot 156 WO 152537376 Jack-Open Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Jun 14 11:52:34 2022 Page 1

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

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

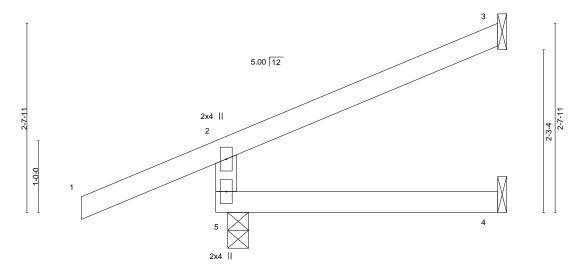
except end verticals.

3-11-4

-1-10-8

1-10-8

Scale: 3/4"=1"



				0-	2-0		3-9-4						
LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL	25.0	Plate Grip DOL	1.15	TC	0.28	Vert(LL)	-0.01	4-5	>999	360	MT20	197/144	
TCDL	10.0	Lumber DOL	1.15	BC	0.11	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/TI	PI2014	Matri	x-R	Wind(LL)	0.01	4-5	>999	240	Weight: 12 lb	FT = 10%	

BRACING-

TOP CHORD

BOT CHORD

0-2-0

LUMBER-

REACTIONS.

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

5=0-3-8, 3=Mechanical, 4=Mechanical (size) Max Horz 5=82(LC 8)

Max Uplift 5=-69(LC 4), 3=-57(LC 8)

Max Grav 5=348(LC 1), 3=98(LC 1), 4=67(LC 3)

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

TOP CHORD 2-5=-305/97

- 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.



June 15,2022



RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, WAS OUR 16687 06/28/2022 8:24:29

Truss Type Qty Lot 156 WO 152537377 Diagonal Hip Girder Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Jun 14 11:52:35 2022 Page 1

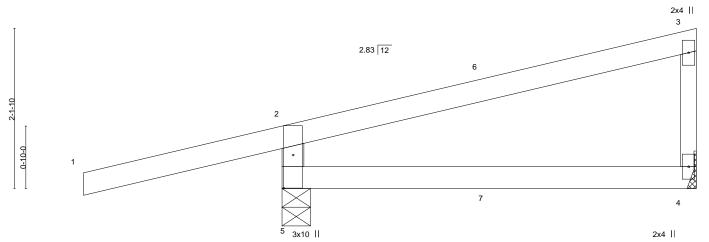
ID:Ej7EWovY_94Pzt7UVy1gWAz_t70-degcuUtEgR9J8IJeF1fAyMIAOjDYBC3fPb_yGUz6NOg

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

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

5-6-6

Scale = 1:15.4



5-6-6

except end verticals.

Plate Offs	sets (X,Y)	[5:0-5-5,0-1-8]			
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 0.63	Vert(LL) -0.03 4-5 >999 360 MT20 197/144	
TCDL	10.0	Lumber DOL 1.15	BC 0.23	Vert(CT) -0.06 4-5 >999 240	
BCLL	0.0 *	Rep Stress Incr NO	WB 0.00	Horz(CT) 0.00 4 n/a n/a	
BCDL	10.0	Code IRC2018/TPI2014	Matrix-R	Wind(LL) -0.02 4-5 >999 240 Weight: 18 lb FT = 10%	

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

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

Max Horz 5=88(LC 5)

Max Uplift 5=-186(LC 4), 4=-31(LC 8) Max Grav 5=485(LC 1), 4=186(LC 1)

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

TOP CHORD 2-5=-429/217

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4 except (jt=lb) 5 = 186
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 70 lb down and 14 lb up at 2-9-8, and 70 lb down and 14 lb up at 2-9-8 on top chord, and 14 lb down and 16 lb up at 2-9-8, and 14 lb down and 16 lb up at 2-9-8 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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

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



June 15,2022



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



REL<mark>EASE FOR CONSTRUCTION</mark> AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, WSSOURI6687 06/28/2022 8:24:29

Truss Type Qty Lot 156 WO 152537378 Jack-Open 2

Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Jun 14 11:52:36 2022 Page 1 ID:Ej7EWovY_94Pzt7UVy1gWAz_t70-5qE_6qtsRkHAmSuqpkAPVZIQh6b4wfJoeFjVowz6NOf

Structural wood sheathing directly applied or 1-10-15 oc purlins,

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

Scale = 1:10.2

-1-10-8 1-10-15 1-10-8 1-10-15

4.00 12 0-10-0

	1-10-15	
1	1-10-15	

except end verticals.

Plate Offsets (X,Y)	[5:0-5-6,0-1-8]						
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL.	in (loc)	l/defl L/d	PLATES GRIP	
TCLL 25.0	Plate Grip DOL 1.15	TC 0.28	Vert(LL) 0	0.00 4-5	>999 360	MT20 197/144	
TCDL 10.0	Lumber DOL 1.15	BC 0.08	Vert(CT) 0	0.00 4-5	>999 240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT) -0	0.00	n/a n/a		
BCDL 10.0	Code IRC2018/TPI2014	Matrix-R	Wind(LL) -0	0.00 5	>999 240	Weight: 7 lb FT = 10%	

3x10 ||

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=51(LC 4)

Max Uplift 5=-134(LC 4), 3=-13(LC 8), 4=-7(LC 1) Max Grav 5=302(LC 1), 3=5(LC 18), 4=26(LC 3)

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

TOP CHORD 2-5=-260/138

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 4 except (jt=lb) 5=134
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



June 15,2022



REL<mark>EASE FOR CONSTRUCTION</mark> AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, WSSOURI6687 06/28/2022 8:24:29

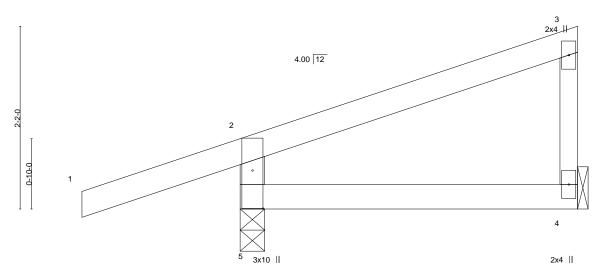
Truss Type Qty Lot 156 WO 152537379 Jack-Closed 2 Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Jun 14 11:52:36 2022 Page 1

ID:Ej7EWovY_94Pzt7UVy1gWAz_t70-5qE_6qtsRkHAmSuqpkAPVZIQh6blwfJoeFjVowz6NOf 4-0-0

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

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

Scale = 1:13.7



4-0-0

except end verticals.

Plate Offsets (X,Y)	[5:0-5-6,0-1-8]		
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d PLATES GRIP
TCLL 25.0	Plate Grip DOL 1.15	TC 0.28	Vert(LL) -0.01 4-5 >999 360 MT20 197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.10	Vert(CT) -0.02 4-5 >999 240
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT) -0.00 4 n/a n/a
BCDL 10.0	Code IRC2018/TPI2014	Matrix-R	Wind(LL) 0.00 4-5 >999 240 Weight: 13 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 *Except* 3-4: 2x3 SPF No.2

Max Horz 5=93(LC 5)

Max Uplift 5=-132(LC 4), 4=-27(LC 8) Max Grav 5=348(LC 1), 4=131(LC 1)

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

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

TOP CHORD 2-5=-308/154

NOTES-

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

1-10-8

- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4 except (jt=lb) 5 = 132
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



June 15,2022



REL<mark>EASE FOR CONSTRUCTION</mark> AS NOTED ON PLANS REVIEW DÉVELOPMENT SERVICES LEE'S SUMMIT, WSSOURI6687 06/28/2022 8:24:29

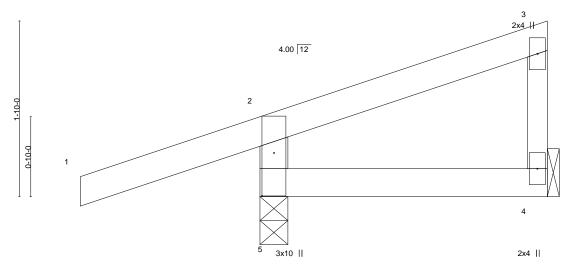
Truss Type Qty Lot 156 WO 152537380 Jack-Closed Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Jun 14 11:52:37 2022 Page 1

ID:Ej7EWovY_94Pzt7UVy1gWAz_t70-Z1nNJAuUC2Q1OcT0NSie1nqbQWyof6ZxsvT2KMz6NOe 3-0-0

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

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

Scale: 1"=1



except end verticals.

Plate Offsets (X,Y)	[5:0-5-6,0-1-8]			
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d	PLATES GRIP
TCLL 25.0	Plate Grip DOL 1.15	TC 0.28	Vert(LL) -0.00 4-5 >999 360	MT20 197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.05	Vert(CT) -0.00 4-5 >999 240	
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT) -0.00 4 n/a n/a	
BCDL 10.0	Code IRC2018/TPI2014	Matrix-R	Wind(LL) -0.00 5 >999 240	Weight: 11 lb FT = 10%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

3-4: 2x3 SPF No.2

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

Max Horz 5=78(LC 5)

Max Uplift 5=-133(LC 4), 4=-17(LC 5) Max Grav 5=317(LC 1), 4=72(LC 1)

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

TOP CHORD 2-5=-279/145

NOTES-

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

1-10-8

- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4 except (jt=lb) 5 = 133
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



June 15,2022



REL<mark>EASE FOR CONSTRUCTION</mark> AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, WSSOURI6687 06/28/2022 8:24:29

Truss Type Qty Lot 156 WO 152537381 Jack-Closed

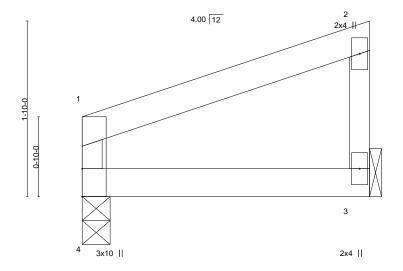
Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Jun 14 11:52:38 2022 Page 1 ID:Ej7EWovY_94Pzt7UVy1gWAz_t70-1DLIXWv7zMYu?l2Dx9Dta_NpvwltOZp55ZCcsoz6NOd

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

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

except end verticals.

Scale: 1"=1



LOADING TCLL TCDL	G (psf) 25.0 10.0	SPACING- Plate Grip DOL Lumber DOL	2-0-0 1.15 1.15	CSI. TC BC	0.10 0.06	DEFL. Vert(LL) Vert(CT)	in -0.00 -0.01	(loc) 3-4 3-4	l/defl >999 >999	L/d 360 240	PLATES MT20	GRIP 197/144
BCLL BCDL	0.0 * 10.0	Rep Stress Incr Code IRC2018/TPI2	YES	WB Matri	0.00	Horz(CT) Wind(LL)	-0.00 0.00	3 4	n/a >999	n/a 240	Weight: 8 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

4=0-3-8, 3=Mechanical (size) Max Horz 4=63(LC 5) Max Uplift 4=-19(LC 4), 3=-29(LC 8)

Max Grav 4=126(LC 1), 3=126(LC 1)

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

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



June 15,2022



RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, WAS QURIGES 06/28/2022 8:24:29

Truss Type Qty Lot 156 WO 152537382 Jack-Closed Girder Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Jun 14 11:52:38 2022 Page 1

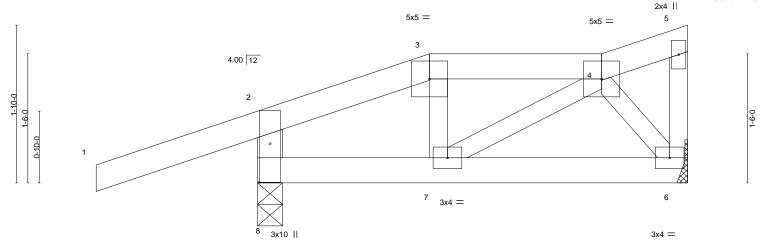
ID:Ej7EWovY_94Pzt7UVy1gWAz_t70-1DLIXWv7zMYu?l2Dx9Dta_NIXwH?OZO55ZCcsoz6NOd 2-0-0 1-0-0

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

except end verticals, and 2-0-0 oc purlins: 3-4.

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

Scale = 1:13.4



2-0-0

		2-0-0	4-0-	-0 1 5-0-0	1
	I	2-0-0	2-0-	-0 1-0-0	
Plate Offsets (X,Y)	[8:0-5-6,0-1-8]				

LOADING (psf) TCLL 25.0 TCDL 10.0 BCLL 0.0 *	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr NO	CSI. TC 0.32 BC 0.12 WB 0.03		in (loc -0.01 -0.01 6-7	7 >999	L/d 360 240 n/a	PLATES GRIP MT20 197/144
BCDL 10.0	Code IRC2018/TPI2014	Matrix-S	Wind(LL)	0.00	7 >999	n/a 240	Weight: 19 lb FT = 10%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

2-8: 2x4 SPF No.2

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

Max Horz 8=78(LC 5)

Max Uplift 8=-166(LC 4), 6=-52(LC 8) Max Grav 8=364(LC 1), 6=170(LC 1)

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

TOP CHORD 2-8=-313/160

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Provide adequate drainage to prevent water ponding.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6 except (jt=lb) 8=166
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 9) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 59 lb down and 126 lb up at 2-0-0 on top chord, and 29 lb down and 60 lb up at 2-0-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 10) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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

Vert: 1-2=-70, 2-3=-70, 3-4=-70, 4-5=-70, 6-8=-20 Concentrated Loads (lb)

Vert: 3=35(B)



June 15,2022



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



REL<mark>EASE FOR CONSTRUCTION</mark> AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSO URI 6687 06/28/2022 8:24:30

Truss Type Qty Lot 156 WO 152537383 Jack-Closed Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Jun 14 11:52:40 2022 Page 1

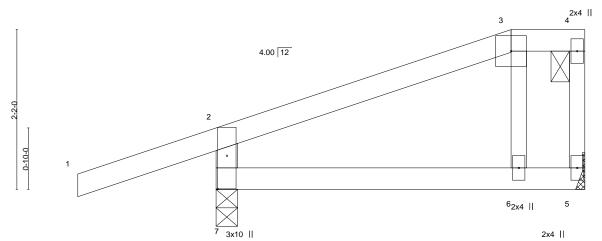
ID:Ej7EWovY_94Pzt7UVy1gWAz_t70-zcTVyBwNVzocF3Cb2aFLfPS6gky3sT4OYthjxhz6NOb 5-0-0 1-10-8 4-0-0 1-0-0

> Scale = 1:15.6 5x5 =

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

except end verticals, and 2-0-0 oc purlins: 3-4.

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



	2-6-0	4-0-0	5-0-0
	2-6-0	1-6-0	1-0-0
- [7·0-5-6 0-1-8]			

Plate Off	fsets (X,Y)	[7:0-5-6,0-1-8]										
LOADIN	C (nof)	SPACING-	2-0-0	CSI.		DEFL.	in	(100)	l/defl	L/d	PLATES	GRIP
	· /						in	(loc)			1	
TCLL	25.0	Plate Grip DOL	1.15	TC	0.28	Vert(LL)	-0.01	6-7	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.14	Vert(CT)	-0.03	6-7	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.02	Horz(CT)	0.00	5	n/a	n/a		
BCDL	10.0	Code IRC2018/T	PI2014	Matri	x-R	Wind(LL)	0.01	6-7	>999	240	Weight: 17 lb	FT = 10%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

2-7: 2x4 SPF No.2

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

Max Horz 7=95(LC 5)

Max Uplift 7=-137(LC 4), 5=-32(LC 5) Max Grav 7=385(LC 1), 5=184(LC 1)

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

TOP CHORD 2-7=-326/156

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Provide adequate drainage to prevent water ponding.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5 except (jt=lb) 7=137.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



June 15,2022



REL<mark>EASE FOR CONSTRUCTION</mark> AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, WSSOURI6687 06/28/2022 8:24:30

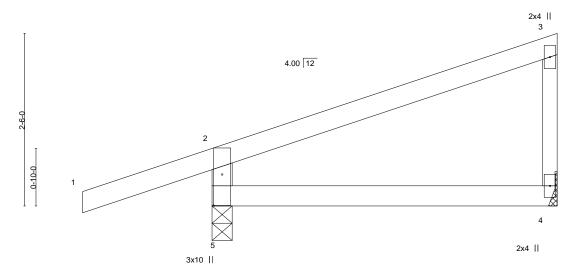
Truss Type Qty Lot 156 WO 152537384 Jack-Closed Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Jun 14 11:52:40 2022 Page 1

ID:Ej7EWovY_94Pzt7UVy1gWAz_t70-zcTVyBwNVzocF3Cb2aFLfPS6gkyasTJOYthjxhz6NOb 5-0-0

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

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

Scale = 1:16.7



5-0-0 5-0-0

except end verticals.

_Plate Off	fsets (X,Y)	[5:0-5-6,0-1-8]			
LOADIN	IG (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d	PLATES GRIP
TCLL	25.0	Plate Grip DOL 1.15	TC 0.28	Vert(LL) -0.02 4-5 >999 360	MT20 197/144
TCDL	10.0	Lumber DOL 1.15	BC 0.17	Vert(CT) -0.04 4-5 >999 240	
BCLL	0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT) -0.00 4 n/a n/a	
BCDL	10.0	Code IRC2018/TPI2014	Matrix-R	Wind(LL) 0.01 4-5 >999 240	Weight: 16 lb FT = 10%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

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

Max Horz 5=108(LC 5)

Max Uplift 5=-134(LC 4), 4=-40(LC 8) Max Grav 5=385(LC 1), 4=184(LC 1)

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

TOP CHORD 2-5=-340/166

NOTES-

- 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.

1-10-8

- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4 except (jt=lb) 5 = 134
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



June 15,2022



REL<mark>EASE FOR CONSTRUCTION</mark> AS NOTED ON PLANS REVIEW DÉVELOPMENT SERVICES LEE'S SUMMIT, MISSO URI 6687 06/28/2022 8:24:30 -1-10-8 1-10-8

Truss Type Qty Lot 156 WO 152537385 Jack-Closed 6 Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Jun 14 11:52:41 2022 Page 1

ID:Ej7EWovY_94Pzt7UVy1gWAz_t70-So1t9Xx?GHwSsDnnclmaCd?Cj7FcbwYXnXRGT7z6NOa

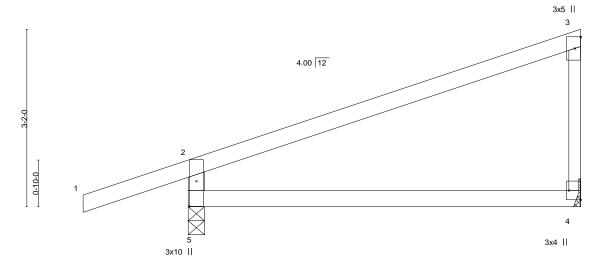
Structural wood sheathing directly applied or 6-0-0 oc purlins,

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

except end verticals.

7-0-0 7-0-0

Scale = 1:20.6



7-0-0

Plate Off	fsets (X,Y)	[4:Edge,0-2-8], [5:0-5-6,0)-1-8]									
LOADIN	· /	SPACING-	2-0-0	CSI.	0.50	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC TC	0.58	Vert(LL)	-0.08	4-5	>985	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.38	Vert(CT)	-0.17	4-5	>472	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code IRC2018/TI	PI2014	Matri	x-R	Wind(LL)	0.03	4-5	>999	240	Weight: 21 lb	FT = 10%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

3-4: 2x3 SPF No.2

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

Max Horz 5=137(LC 5)

Max Uplift 5=-144(LC 4), 4=-62(LC 8) Max Grav 5=466(LC 1), 4=283(LC 1)

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

TOP CHORD 2-5=-412/192

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4 except (jt=lb) 5=144.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



June 15,2022



RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, WSSOURI6687 06/28/2022 8:24:30

Truss Type Qty Lot 156 WO 152537386 Diagonal Hip Girder Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Jun 14 11:52:42 2022 Page 1

ID:Ej7EWovY_94Pzt7UVy1gWAz_t70-w_bGMtyd1a2JUNM_A?HpkqYN2XcTKNog0BAp?az6NOZ

Structural wood sheathing directly applied or 2-8-7 oc purlins,

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

except end verticals.

2-7-13 2-8-7

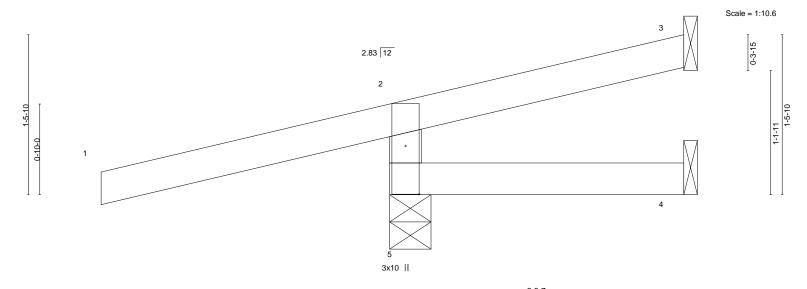


Plate Offsets (X,Y)--[5:0-5-5,0-1-8] LOADING (psf) SPACING-2-0-0 CSI DEFL. in (loc) I/defl L/d **PLATES** GRIP TCLL 25.0 Plate Grip DOL 1.15 TC 0.61 Vert(LL) 0.01 4-5 >999 360 197/144 MT20 TCDL 10.0 Lumber DOL 1.15 ВС 0.21 Vert(CT) 0.01 4-5 >999 240 **BCLL** 0.0 Rep Stress Incr NO WB 0.00 Horz(CT) -0.01 3 n/a n/a Code IRC2018/TPI2014 FT = 10% **BCDL** 10.0 Wind(LL) 240 Weight: 10 lb Matrix-R -0.01 4-5 >999

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

2x4 SPF No.2 **WEBS**

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

Max Horz 5=52(LC 7)

Max Uplift 5=-158(LC 4), 3=-42(LC 17), 4=-26(LC 1) Max Grav 5=276(LC 1), 3=23(LC 4), 4=28(LC 4)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 4 except (jt=lb) 5=158.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 46 lb down and 16 lb up at -2-7-13, and 46 lb down and 16 lb up at -2-7-13 on top chord. The design/selection of such connection device(s) is the
- 8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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

Concentrated Loads (lb)

Vert: 1=-71(F=-36, B=-36)

Trapezoidal Loads (plf)

Vert: 1=-0(F=35, B=35)-to-2=-49(F=11, B=11), 2=-5(F=33, B=33)-to-3=-49(F=10, B=10), 5=0(F=10, B=10)-to-4=-14(F=3, B=10)-to-4=-B=3)



June 15,2022



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



RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, WAS OUR 16687 06/28/2022 8:24:30_{4.0}

Truss Type Qty Lot 156 WO 152537387 Diagonal Hip Girder Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Jun 14 11:52:42 2022 Page 1

ID:Ej7EWovY_94Pzt7UVy1gWAz_t70-w_bGMtyd1a2JUNM_A?HpkqYKxXbEKNog0BAp?az6NOZ

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

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

7-6-11

except end verticals.

Scale = 1:18.9

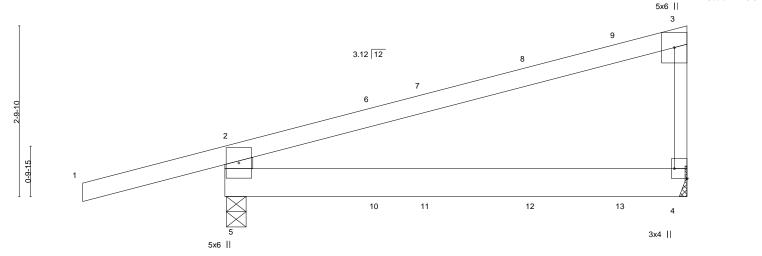


Plate Offsets (X,) [3:0-0-1,0-0-0], [4:Edge,0-2-8]			
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d	PLATES GRIP
TCLL 25.0	Plate Grip DOL 1.15	TC 0.81	Vert(LL) -0.04 4-5 >999 360	MT20 197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.29	Vert(CT) -0.08 4-5 >999 240	
BCLL 0.0	* Rep Stress Incr NO	WB 0.00	Horz(CT) -0.00 4 n/a n/a	
BCDL 10.0	Code IRC2018/TPI2014	Matrix-R	Wind(LL) 0.02 4-5 >999 240	Weight: 27 lb FT = 10%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

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

3-4: 2x3 SPF No.2

(size) 5=0-3-14, 4=Mechanical

Max Horz 5=115(LC 5)

Max Uplift 5=-191(LC 4), 4=-91(LC 8) Max Grav 5=553(LC 1), 4=380(LC 1)

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

TOP CHORD 2-5=-501/250, 3-4=-261/131

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4 except (jt=lb) 5=191.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 64 lb down and 38 lb up at 2-6-8, 77 lb down and 29 lb up at 3-4-9, and 89 lb down and 71 lb up at 5-1-4, and 101 lb down and 78 lb up at 6-6-15 on top chord , and 4 lb down at 2-6-8, 10 lb down and 8 lb up at 3-4-9, and 20 lb down at 5-1-4, and 39 lb down at 6-6-15 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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

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

Concentrated Loads (lb)

Vert: 8=-23(F) 9=-52(B) 11=8(B) 12=-10(F) 13=-24(B)



June 15,2022



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



REL<mark>EASE FOR CONSTRUCTION</mark> AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, WAS OUR 16687 06/28/2022 8:24:30

Truss Type Qty Lot 156 WO 152537388 Jack-Open 10 Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Jun 14 11:52:43 2022 Page 1

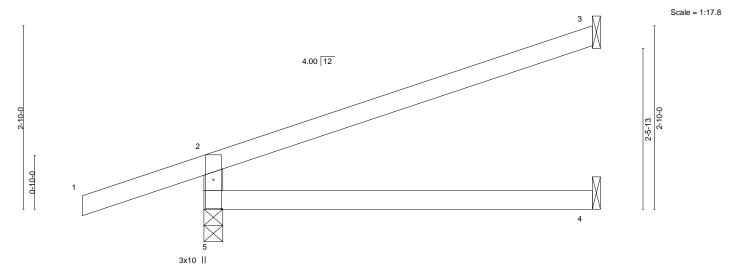
ID:Ej7EWovY_94Pzt7UVy1gWAz_t70-OB9eaDzFnuAA6XwAjio2H24apxxC3g2gFrwNY0z6NOY

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

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

except end verticals.

6-0-0 -10-8 6-0-0



6-0-0
6-0-0

Plate Offse	ets (X, Y)	[5:0-5-6,0-1-8]			
LOADING	(psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d	PLATES GRIP
TCLL	25.0	Plate Grip DOL 1.15	TC 0.48	Vert(LL) -0.05 4-5 >999 360	MT20 197/144
TCDL	10.0	Lumber DOL 1.15	BC 0.31	Vert(CT) -0.11 4-5 >632 240	
BCLL	0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT) 0.03 3 n/a n/a	
BCDL	10.0	Code IRC2018/TPI2014	Matrix-R	Wind(LL) 0.04 4-5 >999 240	Weight: 17 lb FT = 10%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

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

WEBS 2x4 SPF No.2

> (size) 5=0-3-8, 3=Mechanical, 4=Mechanical Max Horz 5=106(LC 4)

Max Uplift 5=-127(LC 4), 3=-82(LC 8)

Max Grav 5=427(LC 1), 3=173(LC 1), 4=107(LC 3)

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

TOP CHORD 2-5=-374/174

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3 except (jt=lb) 5=127
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



June 15,2022



RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSO URI 6687 06/28/2022 8:24:30

Truss Type Qty Lot 156 WO 152537389 Jack-Open Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Jun 14 11:52:44 2022 Page 1

ID:Ej7EWovY_94Pzt7UVy1gWAz_t70-sNj0nZztYCI1jgVMHQKHqFdoJLI1oHlzTVfw4Sz6NOX

Structural wood sheathing directly applied or 5-0-12 oc purlins,

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

except end verticals.

1-10-8 5-0-12

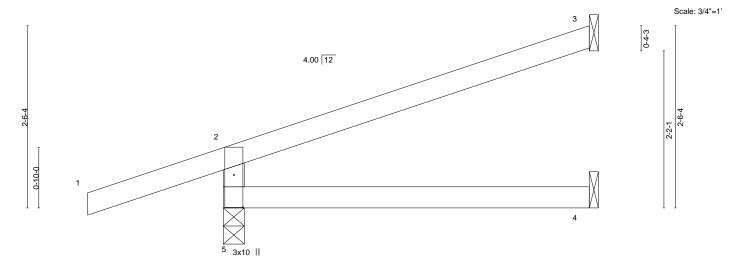


Plate Of	Plate Offsets (X,Y) [5:0-5-6,0-1-8]											
LOADIN	IG (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.30	Vert(LL)	-0.03	4-5	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.20	Vert(CT)	-0.05	4-5	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.02	3	n/a	n/a		
BCDL	10.0	Code IRC2018/TI	PI2014	Matri	x-R	Wind(LL)	0.02	4-5	>999	240	Weight: 15 lb	FT = 10%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x4 SPF No.2

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

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

Max Horz 5=93(LC 4)

Max Uplift 5=-124(LC 4), 3=-68(LC 8)

Max Grav 5=389(LC 1), 3=140(LC 1), 4=89(LC 3)

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

TOP CHORD 2-5=-341/162

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3 except (jt=lb) 5=124
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



June 15,2022



REL<mark>EASE FOR CONSTRUCTION</mark> AS NOTED ON PLANS REVIEW DÉVELOPMENT SERVICES LEE'S SUMMIT, WSSOURI6687 06/28/2022 8:24:30

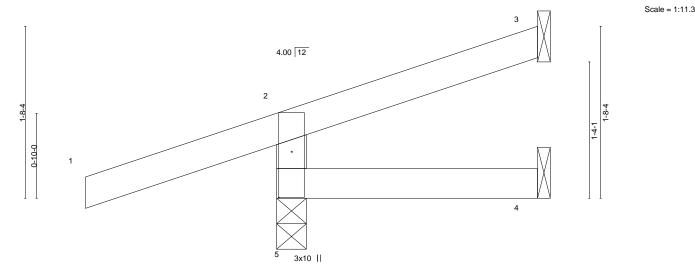
Truss Type Qty Lot 156 WO 152537390 Jack-Open 2 Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Jun 14 11:52:44 2022 Page 1

ID:Ej7EWovY_94Pzt7UVy1gWAz_t70-sNj0nZztYCl1jgVMHQKHqFdofLK2oHlzTVfw4Sz6NOX 2-6-12

Structural wood sheathing directly applied or 2-6-12 oc purlins,

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

-1-10-8 1-10-8 2-6-12



except end verticals.

Plate Off	sets (X,Y)	[5:0-5-6,0-1-8]										
LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.28	Vert(LL)	0.00	4-5	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.07	Vert(CT)	-0.00	4-5	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.00	3	n/a	n/a		
BCDL	10.0	Code IRC2018/Ti	PI2014	Matri	x-R	Wind(LL)	-0.00	4-5	>999	240	Weight: 9 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=59(LC 4)

Max Uplift 5=-126(LC 4), 3=-26(LC 8)

Max Grav 5=308(LC 1), 3=39(LC 1), 4=38(LC 3)

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

TOP CHORD 2-5=-267/137

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3 except (jt=lb) 5=126
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



June 15,2022



RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSO URI 6687 06/28/2022 8:24:30

Truss Type Qty Lot 156 WO 152537391 Jack-Open Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Jun 14 11:52:45 2022 Page 1

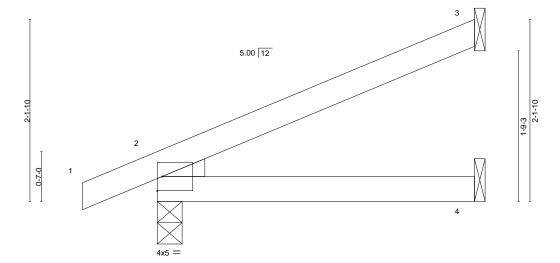
ID:Ej7EWovY_94Pzt7UVy1gWAz_t70-KZGO?v_WJVQuLq4Zr7rWMTA?qlgYXkY7i9PUcuz6NOW 3-8-10

Structural wood sheathing directly applied or 3-8-10 oc purlins.

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

3-8-10

Scale = 1:13.5



3-8-10

BRACING-

TOP CHORD

BOT CHORD

LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	I/defI	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.19	Vert(LL)	-0.01	2-4	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.12	Vert(CT)	-0.02	2-4	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.00	3	n/a	n/a		
BCDL	10.0	Code IRC2018/TP	PI2014	Matri	x-P	Wind(LL)	0.00	2	****	240	Weight: 10 lb	FT = 10%

LUMBER-

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

WEDGE Left: 2x3 SPF No.2

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

Max Horz 2=77(LC 8)

Max Uplift 3=-66(LC 8), 2=-37(LC 8)

Max Grav 3=113(LC 1), 2=240(LC 1), 4=70(LC 3)

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

NOTES-

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

0-10-8

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



June 15,2022



REL<mark>EASE FOR CONSTRUCTION</mark> AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSO URI 6687 06/28/2022 8:24:30

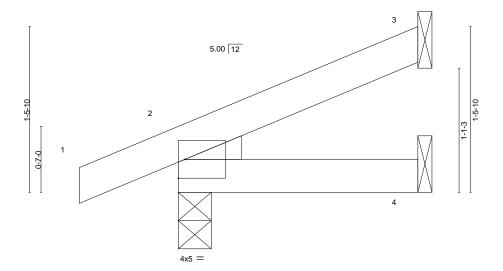
Truss Type Qty Lot 156 WO 152537392 Jack-Open Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Jun 14 11:52:46 2022 Page 1

ID:Ej7EWovY_94Pzt7UVy1gWAz_t70-omqmCF?84pYlz_flPrMlvgiBW81AGBoGxp818Lz6NOV 2-1-7

Structural wood sheathing directly applied or 2-1-7 oc purlins.

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

Scale = 1:10.2



BRACING-

TOP CHORD

BOT CHORD

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 0.06	Vert(LL) -0	0.00 2	>999 360	MT20 197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.03	Vert(CT) -0	0.00 2-4	>999 240	
BCLL 0.0	Rep Stress Incr YES	WB 0.00	Horz(CT) -0	0.00 3	n/a n/a	
BCDL 10.0	Code IRC2018/TPI2014	Matrix-P	Wind(LL)	0.00 2	**** 240	Weight: 7 lb FT = 10%

LUMBER-

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

WEDGE Left: 2x3 SPF No.2

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

Max Horz 2=49(LC 8)

Max Uplift 3=-35(LC 8), 2=-35(LC 4)

Max Grav 3=48(LC 1), 2=177(LC 1), 4=38(LC 3)

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

NOTES-

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

-0-10-8 0-10-8

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



June 15,2022



RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DÉVELOPMENT SER∀ICES LEE'S SUMMIT, WSSOURI6687 06/28/2022 8:24:30

Truss Type Qty Lot 156 WO 152537393 Jack-Closed Girder 2 Job Reference (optional)

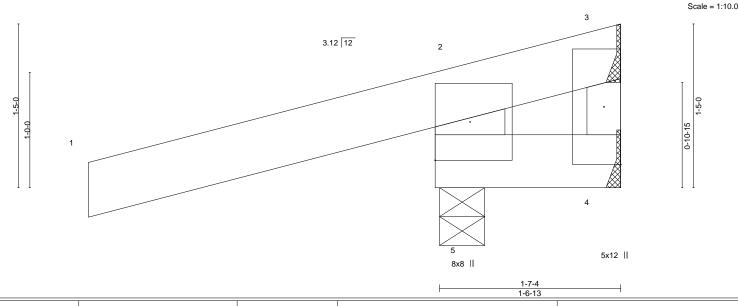
8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Jun 14 11:52:47 2022 Page 1 ID:Ej7EWovY_94Pzt7UVy1gWAz_t70-GyO9Qa0mr7gca8ExyYt_RuFAtYL7?d2Q9Tuahnz6NOU

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

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

except end verticals.

3-0-0 1-7-4



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	0.86	Vert(LL)	0.00	5	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.18	Vert(CT)	0.00	5	>999	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.00	Horz(CT)	-0.00	3	n/a	n/a		
BCDL	10.0	Code IRC2018/TF	PI2014	Matri	x-R	Wind(LL)	-0.00	5	>999	240	Weight: 14 lb	FT = 10%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x6 SPF 1650F 1.4E **BOT CHORD** 2x6 SP DSS

2x8 SP DSS *Except* **WEBS** 3-4: 2x4 SPF No.2

REACTIONS. (size) 5=0-4-11, 4=Mechanical, 3=Mechanical

Max Horz 5=66(LC 7)

Max Uplift 5=-345(LC 4), 4=-480(LC 21), 3=-511(LC 21) Max Grav 5=1576(LC 21), 4=96(LC 4), 3=89(LC 4)

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

TOP CHORD 2-5=-1073/263 **BOT CHORD** 4-5=-381/80

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 5=345, 4=480, 3=511,
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 7) Load case(s) 21 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of
- 8) Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.
- 9) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard Except:

21) User defined: Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

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

Concentrated Loads (lb)

Vert: 1=-250



June 15,2022



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



REL<mark>EASE FOR CONSTRUCTION</mark> AS NOTED ON PLANS REVIEW DÉVELOPMENT SER∀ICES LEE'S SUMMIT, WSSOURI6687 06/28/2022 8:24:30

Truss Type Qty Lot 156 WO 152537394 Jack-Open 2 Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Jun 14 11:52:47 2022 Page 1

Structural wood sheathing directly applied or 1-10-4 oc purlins,

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

Scale = 1:10.1

1-10-8 1-10-4

4.00 12 2 1-5-7 1-1-4 0-10-0 3x10 ||

> 1-10-4 1-10-4

> > except end verticals.

Plate Offsets (X,Y)	[5:0-5-6,0-1-8]			
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d	PLATES GRIP
TCLL 25.0	Plate Grip DOL 1.15	TC 0.28	Vert(LL) 0.00 4-5 >999 360	MT20 197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.08	Vert(CT) 0.00 4-5 >999 240	
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT) -0.00 3 n/a n/a	
BCDL 10.0	Code IRC2018/TPI2014	Matrix-R	Wind(LL) -0.00 5 >999 240	Weight: 7 lb FT = 10%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

WEBS 2x4 SPF No.2

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

Max Horz 5=50(LC 4)

Max Uplift 5=-135(LC 4), 3=-11(LC 8), 4=-8(LC 1) Max Grav 5=302(LC 1), 3=4(LC 4), 4=24(LC 3)

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

TOP CHORD 2-5=-260/138

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 4 except (jt=lb) 5=135
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



June 15,2022



RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DÉVELOPMENT SER∀RCES LEE'S SUMMIT, WSSOURI6687 06/28/2022 8:24:30

Truss Type Qty Lot 156 WO 152537395 JACK-CLOSED GIRDER Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Jun 14 11:52:48 2022 Page 1

ID:Ej7EWovY_94Pzt7UVy1gWAz_t70-k8yXdw1OcQoTClp8WGOD_5nM3yfpk4HZO7d8DDz6NOT

Structural wood sheathing directly applied or 1-7-9 oc purlins,

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

except end verticals.

Scale = 1:10.0

3-0-0 1-7-9

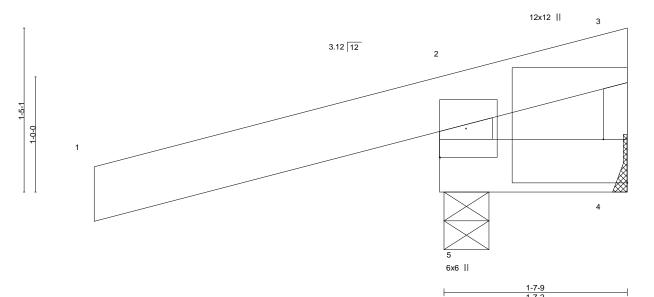


Plate Offset	ts (X,Y)	[3:Edge,0-2-8]										
LOADING	(psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.83	Vert(LL)	0.00	5	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.21	Vert(CT)	0.00	4-5	>999	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.00	Horz(CT)	-0.00	4	n/a	n/a		
BCDL	10.0	Code IRC2018/TF	PI2014	Matri	x-R	Wind(LL)	-0.00	5	>999	240	Weight: 12 lb	FT = 10%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

2x6 SPF 1650F 1.4E TOP CHORD **BOT CHORD** 2x6 SPF No.2 WEBS 2x6 SPF No.2 *Except*

3-4: 2x3 SPF No.2

REACTIONS. (size) 5=0-4-11, 4=Mechanical

Max Horz 5=66(LC 7)

Max Uplift 5=-314(LC 4), 4=-846(LC 21) Max Grav 5=1438(LC 21), 4=155(LC 4)

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

TOP CHORD 2-5=-1210/287, 3-4=-112/643

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 5=314, 4=846
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 7) Load case(s) 21 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of
- 8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard Except:

21) User defined: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

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

Concentrated Loads (lb) Vert: 1=-250



June 15,2022



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



REL<mark>EASE FOR CONSTRUCTION</mark> AS NOTED ON PLANS REVIEW DÉVELOPMENT SERVICES LEE'S SUMMIT, WSSOURI6687 06/28/2022 8:24:30

Truss Type Qty Lot 156 WO 152537396 Jack-Open Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Jun 14 11:52:49 2022 Page 1

ID:Ej7EWovY_94Pzt7UVy1gWAz_t70-DLWvqG10NkwKqSOK4zvSWJKfPM16TXXidmNhlgz6NOS

Structural wood sheathing directly applied or 1-10-8 oc purlins,

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

Scale = 1:10.2

1-10-8 1-10-8 1-10-8

4.00 12 2 -5-8 1-1-5 3x10 ||

1-10-8

except end verticals.

Plate Off	sets (X,Y)	[5:0-5-6,0-1-8]										
LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.28	Vert(LL)	0.00	4-5	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.08	Vert(CT)	0.00	4-5	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.00	3	n/a	n/a		
BCDL	10.0	Code IRC2018/TF	12014	Matri	x-R	Wind(LL)	-0.00	5	>999	240	Weight: 7 lb	FT = 10%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

WEBS 2x4 SPF No.2

REACTIONS.

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

Max Horz 5=50(LC 4)

Max Uplift 5=-135(LC 4), 3=-12(LC 8), 4=-8(LC 1) Max Grav 5=302(LC 1), 3=4(LC 19), 4=25(LC 3)

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

TOP CHORD 2-5=-260/138

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 4 except (jt=lb) 5=135
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



June 15,2022



RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, WSSOURI6687 06/28/2022 8:24:30

Truss Type Qty Lot 156 WO 152537397 Diagonal Hip Girder Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Jun 14 11:52:50 2022 Page 1

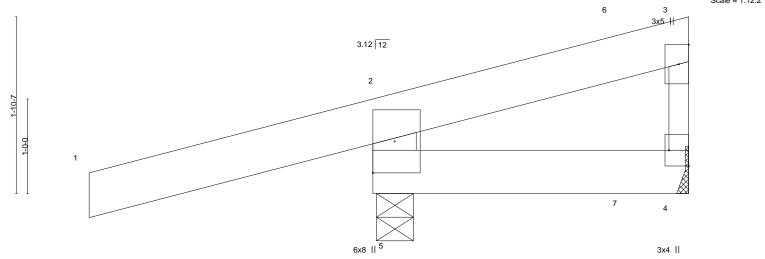
ID:Ej7EWovY_94Pzt7UVy1gWAz_t70-hX4H2c2e822BRbzWehQh3WthXmKNC_nssQ6El6z6NOR

3-0-0 3-4-1

Scale = 1:12.2

FT = 10%

Weight: 19 lb



3-3-10 Plate Offsets (X,Y)--[4:Edge,0-2-8] SPACING-**PLATES** LOADING (psf) CSI DEFL. in (loc) I/defl L/d GRIP TCLL 25.0 Plate Grip DOL 1.15 TC 0.83 Vert(LL) 0.00 4-5 >999 360 197/144 MT20 TCDL 10.0 Lumber DOL 1.15 ВС 0.27 Vert(CT) 0.01 4-5 >999 240 **BCLL** 0.0 Rep Stress Incr NO WB 0.00 Horz(CT) -0.00 4 n/a n/a

Wind(LL)

TOP CHORD

BOT CHORD

-0.00

>999

except end verticals.

4-5

240

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

Structural wood sheathing directly applied or 3-4-1 oc purlins,

LUMBER-BRACING-

Code IRC2018/TPI2014

TOP CHORD 2x6 SPF 1650F 1.4E **BOT CHORD** 2x6 SPF No.2 WEBS 2x6 SPF No.2 *Except*

10.0

3-4: 2x3 SPF No.2

REACTIONS. (size) 5=0-4-11, 4=Mechanical

Max Horz 5=85(LC 7)

Max Uplift 5=-231(LC 4), 4=-261(LC 37) Max Grav 5=1000(LC 37), 4=100(LC 21)

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

TOP CHORD 2-5=-857/233

NOTES-

BCDL

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

Matrix-R

- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 5=231, 4=261,
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 7) Load case(s) 37 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of
- 8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 55 lb down and 28 lb up at 2-8-7 on top chord, and 14 lb down and 8 lb up at 2-8-7 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 9) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard Except:

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

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

Concentrated Loads (lb)

Vert: 7=8(F)



June 15,2022

Continued on page 2

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

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

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



RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, WSSOURI6687 06/28/2022 8:24:30

Truss Type Qty Ply Lot 156 WO Diagonal Hip Girder

| Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Jun 14 11:52:50 2022 Page 2 ID:Ej7EWovY_94Pzt7UVy1gWAz_t70-hX4H2c2e822BRbzWehQh3WthXmKNC_nssQ6EI6z6NOR

152537397

LOAD CASE(S)

37) User defined: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf) Vert: 1-2=-70(F), 2-3=-70(F), 4-5=-20(F) Concentrated Loads (lb) Vert: 1=-250 7=8(F)

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

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

ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information

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



RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DÉVELOPMENT SER∀ICES LEE'S SUMMIT, WSSOURI6687 06/28/2022 8:24:30

Truss Type Qty Lot 156 WO 152537398 Jack-Closed Girder Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Jun 14 11:52:50 2022 Page 1

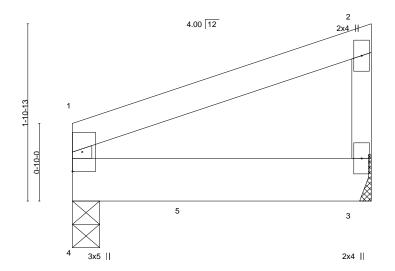
ID:Ej7EWovY_94Pzt7UVy1gWAz_t70-hX4H2c2e822BRbzWehQh3WtrlmKbC_nssQ6El6z6NOR

Structural wood sheathing directly applied or 3-2-8 oc purlins,

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

except end verticals.

Scale = 1:12.4



LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	I/defI	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.14	Vert(LL)	-0.01	3-4	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.26	Vert(CT)	-0.01	3-4	>999	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.00	Horz(CT)	0.00	3	n/a	n/a		
BCDL	10.0	Code IRC2018/TP	I2014	Matri	x-R	Wind(LL)	0.00	3-4	>999	240	Weight: 11 lb	FT = 10%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

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

WEBS 2x3 SPF No.2

> 4=0-3-8, 3=Mechanical (size) Max Horz 4=63(LC 5) Max Uplift 4=-31(LC 4), 3=-37(LC 8) Max Grav 4=347(LC 1), 3=270(LC 1)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 3.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 347 lb down and 25 lb up at 1-3-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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

Vert: 1-2=-70, 3-4=-20 Concentrated Loads (lb) Vert: 5=-347(F)



June 15,2022



RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DÉVELOPMENT SERVICES LEE'S SUMMIT, WSSOURI6687 06/28/2022 8:24:30

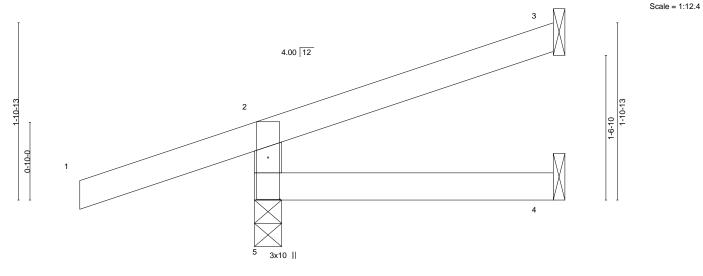
Truss Type Qty Lot 156 WO 152537399 Jack-Open 5 Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Jun 14 11:52:51 2022 Page 1

ID:Ej7EWovY_94Pzt7UVy1gWAz_t70-9jefFy3GvLA23IYiBOywckP_u9jrxR1?44soqYz6NOQ 3-2-8

Structural wood sheathing directly applied or 3-2-8 oc purlins,

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

1-10-8



except end verticals.

Plate Offsets (X,Y)	[5:0-5-6,0-1-8]			
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d PLATES GRIP	
TCLL 25.0	Plate Grip DOL 1.15	TC 0.28	Vert(LL) -0.00 4-5 >999 360 MT20 197/144	
TCDL 10.0	Lumber DOL 1.15	BC 0.06	Vert(CT) -0.01 4-5 >999 240	
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT) -0.00 3 n/a n/a	
BCDL 10.0	Code IRC2018/TPI2014	Matrix-R	Wind(LL) -0.00 4-5 >999 240 Weight: 10 lb FT = 10%	

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

WEBS 2x4 SPF No.2

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

Max Horz 5=49(LC 4)

Max Uplift 5=-76(LC 4), 3=-23(LC 8)

Max Grav 5=324(LC 1), 3=69(LC 1), 4=52(LC 3)

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

TOP CHORD 2-5=-283/94

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



June 15,2022



RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DÉVELOPMENT SER∀ICES LEE'S SUMMIT, WSSOURI6687 06/28/2022 8:24:30

Truss Type Qty Lot 156 WO 152537400 Jack-Closed Girder 2 Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Jun 14 11:52:52 2022 Page 1

ID:Ej7EWovY_94Pzt7UVy1gWAz_t70-dvB2TI4vgflvhv6vl5T98xy11Z13guH9JkbLM_z6NOP

Scale = 1:10.3

3-0-0

12x14 || 3 3.12 12 4 6x8 ||

1-10-2

except end verticals.

Structural wood sheathing directly applied or 1-10-2 oc purlins,

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

Plate Off	Plate Offsets (X,Y) [3:Edge,0-3-8]													
LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP		
TCLL	25.Ó	Plate Grip DOL	1.15	TC	0.83	Vert(LL)	0.00	` ź	>999	360	MT20	197/144		
TCDL	10.0	Lumber DOL	1.15	BC	0.19	Vert(CT)	0.00	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/Ti	PI2014	Matri	x-R	Wind(LL)	-0.00	5	>999	240	Weight: 13 lb	FT = 10%		

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

2x6 SPF 1650F 1.4E TOP CHORD **BOT CHORD** 2x6 SPF No.2 WEBS 2x6 SPF No.2 *Except* 3-4: 2x4 SPF No.2

REACTIONS. (size) 5=0-4-11, 4=Mechanical

Max Horz 5=68(LC 7)

Max Uplift 5=-295(LC 4), 4=-731(LC 21) Max Grav 5=1340(LC 21), 4=134(LC 4)

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

TOP CHORD 2-5=-1121/271, 3-4=-92/542

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 5=295, 4=731,
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 7) Load case(s) 21 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of
- 8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard Except:

21) User defined: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

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

Vert: 1=-250



June 15,2022



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



REL<mark>EASE FOR CONSTRUCTION</mark> AS NOTED ON PLANS REVIEW DÉVELOPMENT SER∀ICES LEE'S SUMMIT, WSSOURI6687 06/28/2022 8:24:31

Truss Type Qty Lot 156 WO 152537401 Jack-Open Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Jun 14 11:52:52 2022 Page 1

ID:Ej7EWovY_94Pzt7UVy1gWAz_t70-dvB2TI4vgflvhv6vl5T98xy9eZ3oguH9JkbLM_z6NOP

Structural wood sheathing directly applied or 2-0-8 oc purlins,

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

Scale = 1:10.4

1-10-8 2-0-8

4.00 12 2 1-6-3 0-110-0 3x10 ||

> 2-0-8 2-0-8

> > except end verticals.

Plate Off	sets (X,Y)	[5:0-5-6,0-1-8]										
LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL	25.Ó	Plate Grip DOL	1.15	TC	0.28	Vert(LL)	0.00	`4-5	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.08	Vert(CT)	0.00	4-5	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.00	3	n/a	n/a		
BCDL	10.0	Code IRC2018/T	PI2014	Matri	x-R	Wind(LL)	-0.00	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=0-5-8, 3=Mechanical, 4=Mechanical

Max Horz 5=52(LC 4)

Max Uplift 5=-133(LC 4), 3=-15(LC 8), 4=-5(LC 1) Max Grav 5=302(LC 1), 3=10(LC 1), 4=27(LC 3)

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

TOP CHORD 2-5=-260/137

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 4 except (jt=lb) 5=133
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



June 15,2022



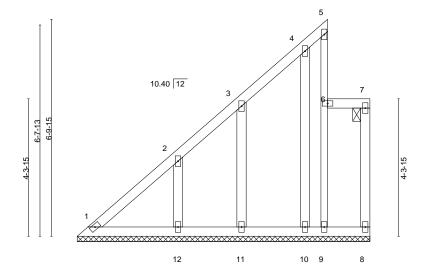
RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSO URI 6687 06/28/2022 8:24:31

Truss Type Qty Lot 156 WO 152537402 **GABLE** Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Jun 14 11:52:56 2022 Page 1

ID:Ej7EWovY_94Pzt7UVy1gWAz_t70-VhRYIf7PkupK9WQg_xX5Jn7tSAQ0chkkEMZZVmz6NOL

7-10-9 7-10-9 9-2-9

Scale = 1:36.3



7-10-9

BRACING-

TOP CHORD

BOT CHORD

7-10-9 LOADING (psf) SPACING-CSI. DEFL. I/defI L/d 2-0-0 (loc) 25.0 Plate Grip DOL Vert(LL) **TCLL** 1.15 TC 0.16 n/a n/a 999 **TCDL** 10.0 Lumber DOL 1.15 ВС 0.06 Vert(CT) n/a 999 n/a **BCLL** 0.0 Rep Stress Incr YES WB 0.10 Horz(CT) -0.00 8 n/a n/a Code IRC2018/TPI2014 BCDL 10.0 Matrix-S

PLATES GRIP 197/144 MT20

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

Rigid ceiling directly applied or 6-0-0 oc bracing, Except:

10-0-0 oc bracing: 8-9.

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

Weight: 46 lb FT = 10%

LUMBER-

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

5-9: 2x3 SPF No.2 **OTHERS** 2x4 SPF No.2

REACTIONS. All bearings 9-2-9.

Max Horz 1=277(LC 8) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 1, 9, 8, 11, 10 except 12=-135(LC 8) Max Grav All reactions 250 lb or less at joint(s) 1, 9, 8, 11, 10 except 12=277(LC 15)

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

TOP CHORD 1-2=-364/211

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) All plates are 2x4 MT20 unless otherwise indicated.
- 5) Gable requires continuous bottom chord bearing.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 9, 8, 11, 10 except (jt=lb) 12=135.
- 9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



June 15,2022



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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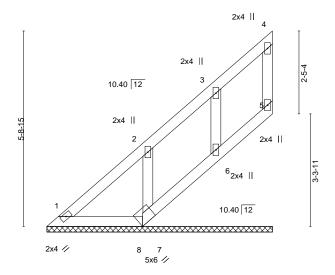


RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, WSSOURI6687 06/28/2022 8:24:31

Truss Type Qty Lot 156 WO 152537403 **GABLE** Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Jun 14 11:52:57 2022 Page 1

ID:Ej7EWovY_94Pzt7UVy1gWAz_t70-_t?xW?81UBxBng?sYf3Kr?f3GanPL94uT0J61Cz6NOK 6-7-9

Scale = 1:33.9



ı		2-9-12	3-9	9-13		-	
	CSI.		DEFL.	in	(loc)	I/defl	L/d
	TC	0.09	Vert(LL)	n/a	-	n/a	999
l	_		1				

6-7-9

ВС 0.05 Vert(CT) 999 n/a n/a WB 0.03 Horz(CT) -0.00 5 n/a n/a Matrix-P

197/144 MT20

PLATES

Weight: 25 lb FT = 10%

GRIP

LUMBER-

25.0

10.0

0.0

10.0

LOADING (psf)

TCLL

TCDL

BCLL

BCDL

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

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

BOT CHORD

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

6-0-0 oc bracing: 5-6.

REACTIONS. All bearings 6-7-9.

Max Horz 1=175(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) 1, 5, 8, 6 except 7=-121(LC 8) Max Grav All reactions 250 lb or less at joint(s) 1, 5, 8, 6 except 7=271(LC 15)

2-0-0

1.15

1.15

YES

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

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Gable requires continuous bottom chord bearing.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 5, 8, 6 except (jt=lb) 7=121.
- 6) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 5, 7, 6.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



June 15,2022



Truss Type Qty Lot 156 WO 152537404 Lay-In Gable 2 Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Jun 14 11:52:57 2022 Page 1

ID:Ej7EWovY_94Pzt7UVy1gWAz_t70-_t?xW?81UBxBng?sYf3Kr?f0AanrL8WuT0J61Cz6NOK

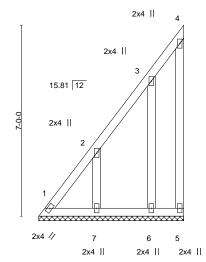
Structural wood sheathing directly applied or 5-3-12 oc purlins,

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

except end verticals.

5-3-12 5-3-12

Scale = 1:42.2



LOADING (psf) TCLL 25.0 TCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15	CSI. TC 0.29 BC 0.03	DEFL. Vert(LL) n/ Vert(CT) n/	l/defl n/a n/a	L/d 999 999	PLATES MT20	GRIP 197/144
BCLL 0.0 * BCDL 10.0	Rep Stress Incr YES Code IRC2018/TPI2014	WB 0.06 Matrix-P	Horz(CT) -0.0	n/a	n/a	Weight: 31 lb	FT = 10%

TOP CHORD

BOT CHORD

LUMBER-BRACING-

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

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

(lb) -

REACTIONS. All bearings 5-3-12.

Max Horz 1=254(LC 5) Max Uplift All uplift 100 lb or less at joint(s) except 1=-125(LC 6), 5=-115(LC 7), 7=-197(LC 8), 6=-138(LC 8)

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

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

TOP CHORD 1-2=-301/225

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Gable requires continuous bottom chord bearing.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 125 lb uplift at joint 1, 115 lb uplift at joint 5, 197 lb uplift at joint 7 and 138 lb uplift at joint 6.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



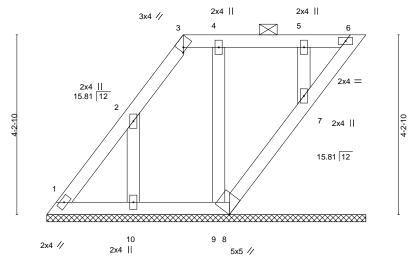
June 15,2022



Truss Type Qty Lot 156 WO 152537405 **GABLE** 2 Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Jun 14 11:52:58 2022 Page 1

ID:Ej7EWovY_94Pzt7UVy1gWAz_t70-S3ZJjL8gFV32Pqa36MaZOCCFp_724cE1hg2gaez6NOJ 7-5-13 4-3-6

Scale = 1:27.0



3-2-7 3-2-7

4-3-6	7-5-13
 4-3-6	3-2-7

Plate Offsets (X,Y)	[3:0-1-3,Edge]			
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 0.04	Vert(LL) n/a - n/a 999	MT20 197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.03	Vert(CT) n/a - n/a 999	
BCLL 0.0 *	Rep Stress Incr YES	WB 0.03	Horz(CT) -0.00 6 n/a n/a	
BCDL 10.0	Code IRC2018/TPI2014	Matrix-P		Weight: 29 lb FT = 10%

LUMBER-

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

OTHERS 2x4 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.): 3-6.

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

REACTIONS. All bearings 7-5-13.

Max Horz 1=160(LC 8) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 1, 6, 8, 9, 7 except 10=-159(LC 8)

Max Grav All reactions 250 lb or less at joint(s) 1, 6, 8, 10, 9, 7

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

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- 4) Gable requires continuous bottom chord bearing.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 6, 8, 9, 7 except (it=lb) 10=159.
- 8) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 6, 7.
- 9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



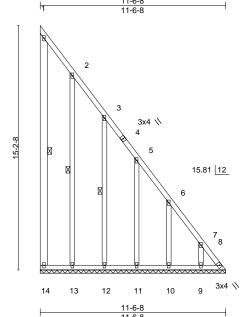
June 15,2022



Truss Type Qty Lot 156 WO 152537406 **GABLE**

Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Jun 14 11:52:59 2022 Page 1 ID:Ej7EWovY_94Pzt7UVy1gWAz_t70-wG7hxh9I0pBv0_9Ff45owQlPuOS4p1hBwKoD64z6NOI

Scale = 1:71.7



LOADING TCLL	G (psf) 25.0	SPACING- 2-0-0 Plate Grip DOL 1.15	CSI. TC 0.09	DEFL. Vert(LL)	in (loc) n/a -	l/defl n/a	L/d 999		SRIP 97/144
TCDL	10.0	Lumber DOL 1.15	BC 0.11	Vert(CT)	n/a -	n/a	999		
BCLL BCDL	0.0 * 10.0	Rep Stress Incr YES Code IRC2018/TPI2014	WB 0.15 Matrix-S	Horz(CT)	0.01 8	n/a	n/a	Weight: 99 lb	FT = 10%

LUMBER-BRACING-TOP CHORD

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

Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals. BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. **WEBS** 1 Row at midpt 1-14, 2-13, 3-12

REACTIONS. All bearings 11-6-8. Max Horz 14=-592(LC 9) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 14 except 8=-290(LC 7), 13=-165(LC 9), 12=-180(LC 9), 11=-174(LC

9), 10=-179(LC 9), 9=-158(LC 9)

Max Grav All reactions 250 lb or less at joint(s) 14, 13, 12, 11, 10, 9 except 8=743(LC 9)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-3=-252/120, 3-5=-433/193, 5-6=-609/266, 6-7=-791/343, 7-8=-940/404

BOT CHORD 13-14=-247/591, 12-13=-247/591, 11-12=-247/591, 10-11=-247/591, 9-10=-247/591,

8-9=-247/591

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) All plates are 2x4 MT20 unless otherwise indicated.
- 3) Gable requires continuous bottom chord bearing.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 14 except (jt=lb) 8=290, 13=165, 12=180, 11=174, 10=179, 9=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.







Truss Type Qty Lot 156 WO 152537407 **GABLE**

Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Jun 14 11:53:00 2022 Page 1 ID:Ej7EWovY_94Pzt7UVy1gWAz_t70-OSg381Awn6Jme8kRDnc1TdHaTooDYSFK9_XmeXz6NOH

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

1-14, 2-13

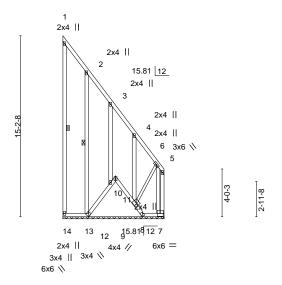
Rigid ceiling directly applied or 6-0-0 oc bracing.

except end verticals.

1 Row at midpt

8-5-15

Scale: 1/8"=1



2-2-2 4-5-1 6-8-0 8-5-15 2-2-2 2-2-15 2-2-15 1-9-15

LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL 1.15	TC 0.10	Vert(LL)	n/a -	n/a	999	MT20	197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.11	Vert(CT)	n/a -	n/a	999		
BCLL 0.0	Rep Stress Incr YES	WB 0.26	Horz(CT) 0	0.01 8	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014	Matrix-P					Weight: 87 lb	FT = 10%

TOP CHORD

BOT CHORD

WEBS

LUMBER-BRACING-

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

2x4 SPF No.2 *Except* WEBS

5-9: 2x3 SPF No.2

OTHERS 2x4 SPF No.2

REACTIONS. All bearings 8-5-15. (lb) -

Max Horz 14=-387(LC 9)

Max Uplift All uplift 100 lb or less at joint(s) 14, 8 except 7=-493(LC 7), 12=-548(LC 9), 10=-770(LC 7),

13=-164(LC 9), 11=-169(LC 9), 9=-1288(LC 9)

Max Grav All reactions 250 lb or less at joint(s) 14, 8, 11 except 7=1068(LC 9), 12=373(LC 7), 10=1019(LC 9),

13=262(LC 16), 9=787(LC 7)

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

TOP CHORD 2-3=-261/124, 3-4=-450/202, 4-5=-596/256

BOT CHORD 13-14=-293/387, 12-13=-293/387, 11-12=-506/667, 10-11=-501/635, 9-10=-498/643

5-7=-843/451, 5-9=-431/753 **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) gable end zone; cantilever left and right exposed; end vertical right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Gable requires continuous bottom chord bearing.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 14, 8 except (jt=lb) 7=493, 12=548, 10=770, 13=164, 11=169, 9=1288.
- 6) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 10, 11, 9.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



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Truss Type Qty Lot 156 WO 152537408 **GABLE** Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Jun 14 11:53:01 2022 Page 1

ID:Ej7EWovY_94Pzt7UVy1gWAz_t70-seERMNBYYQRdGlJdnU7G0rqlSB7vHxPTNeHKAzz6NOG 8-9-1

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

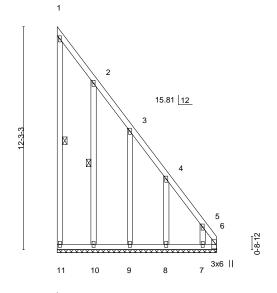
1-11, 2-10

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

except end verticals.

1 Row at midpt

Scale = 1:63.4



LOADING (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) n/a -	n/a 999	MT20 197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.08	Vert(CT) n/a -	n/a 999	
BCLL 0.0 *	Rep Stress Incr YES	WB 0.13	Horz(CT) 0.01 6	n/a n/a	
BCDL 10.0	Code IRC2018/TPI2014	Matrix-P			Weight: 64 lb FT = 10%

BOT CHORD

WEBS

LUMBER-BRACING-TOP CHORD

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

OTHERS 2x4 SPF No.2 WEDGE

Right: 2x4 SPF No.2

REACTIONS. All bearings 8-9-1.

Max Horz 11=-477(LC 9) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 11 except 10=-186(LC 9), 9=-172(LC 9), 6=-337(LC 7), 8=-185(LC

9), 7=-348(LC 9)

Max Grav All reactions 250 lb or less at joint(s) 11, 10, 9, 8, 7 except 6=812(LC 9)

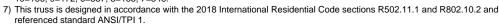
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 2-3=-264/126, 3-4=-439/195, 4-5=-626/275, 5-6=-940/406

BOT CHORD 10-11=-199/477, 9-10=-199/477, 8-9=-199/477, 7-8=-199/477, 6-7=-199/477

WEBS 5-7=-216/368

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) All plates are 2x4 MT20 unless otherwise indicated.
- 3) Gable requires continuous bottom chord bearing.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 11 except (jt=lb) 10=186, 9=172, 6=337, 8=185, 7=348.





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Truss Type Qty Lot 156 WO 152537409 **GABLE** Job Reference (optional)

8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Jun 14 11:53:02 2022 Page 1 ID:Ej7EWovY_94Pzt7UVy1gWAz_t70-KroqZjBAJkZUtRtqLCeVY2NwHbT70OWdcI0tjPz6NOF <u>11-3-11</u>

Scale = 1:58.6

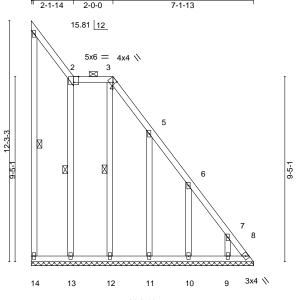


Plate Offsets (X,Y)--[2:0-3-0,Edge], [4:0-1-3,Edge] SPACING-**PLATES** LOADING (psf) CSI. DEFL. in (loc) I/defl L/d GRIP TCLL 25.0 Plate Grip DOL 1.15 TC 0.08 Vert(LL) 999 197/144 n/a n/a MT20 TCDL 10.0 Lumber DOL 1.15 BC 0.08 Vert(CT) n/a n/a 999 **BCLL** 0.0 Rep Stress Incr YES WB 0.14 Horz(CT) 0.01 8 n/a n/a Code IRC2018/TPI2014 FT = 10% **BCDL** 10.0 Weight: 79 lb Matrix-S

11-3-11

LUMBER-**BRACING-**

TOP CHORD 2x4 SPF No.2 Structural wood sheathing directly applied or 6-0-0 oc purlins, TOP CHORD **BOT CHORD** 2x4 SPF No.2 except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 2-4. WEBS 2x4 SPF No.2 **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc bracing. **OTHERS** 2x4 SPF No.2 **WEBS** 1-14, 2-13, 3-12 1 Row at midpt

REACTIONS. All bearings 11-3-11.

Max Horz 14=-477(LC 9) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 14 except 8=-243(LC 7), 12=-227(LC 9), 11=-192(LC 9), 10=-173(LC

9). 9=-152(LC 9)

Max Grav All reactions 250 lb or less at joint(s) 14, 13, 12, 11, 10, 9 except 8=606(LC 9)

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

TOP CHORD 4-5=-251/112, 5-6=-444/201, 6-7=-621/276, 7-8=-763/333

BOT CHORD 13-14=-201/476, 12-13=-201/476, 11-12=-201/476, 10-11=-201/476, 9-10=-201/476,

8-9=-201/476 WEBS 3-12=-156/250

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Provide adequate drainage to prevent water ponding.
- All plates are 2x4 MT20 unless otherwise indicated.
- 4) Gable requires continuous bottom chord bearing.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 14 except (jt=lb) 8=243, 12=227, 11=192, 10=173, 9=152.
- 8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



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Truss Type Qty Ply Lot 156 WO 152537410 **GABLE** Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Jun 14 11:53:02 2022 Page 1

ID:Ej7EWovY_94Pzt7UVy1gWAz_t70-KroqZjBAJkZUtRtqLCeVY2NxjbU00QHdcl0tjPz6NOF 3-0-12 3-0-12

> Scale = 1:27.1 3x4 =

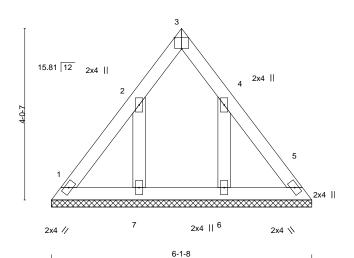


Plate Offsets (X,Y)--[3:Edge,0-3-2] SPACING-**PLATES** GRIP LOADING (psf) CSI DEFL. in (loc) I/defl L/d Plate Grip DOL TCLL 25.0 1.15 TC 0.05 Vert(LL) n/a 999 MT20 197/144 n/a TCDL 10.0 Lumber DOL 1.15 BC 0.03 Vert(CT) n/a n/a 999 **BCLL** 0.0 Rep Stress Incr YES WB 0.03 Horz(CT) 0.00 5 n/a n/a **BCDL** Code IRC2018/TPI2014 FT = 10% 10.0 Matrix-P Weight: 23 lb

BRACING-LUMBER-

TOP CHORD 2x4 SPF No.2 2x4 SPF No.2 BOT CHORD **OTHERS** 2x4 SPF No.2 TOP CHORD **BOT CHORD** Structural wood sheathing directly applied or 6-0-0 oc purlins.

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

REACTIONS. All bearings 6-1-8. (lb) -Max Horz 1=-103(LC 4)

Max Uplift All uplift 100 lb or less at joint(s) 1, 5 except 7=-149(LC 8), 6=-148(LC 9)

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

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

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Gable requires continuous bottom chord bearing.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 5 except (jt=lb) 7=149 6=148
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



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Truss Type Qty Ply Lot 156 WO 152537411 Half Hip Girder | **Z** | Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Jun 14 11:53:04 2022 Page 1

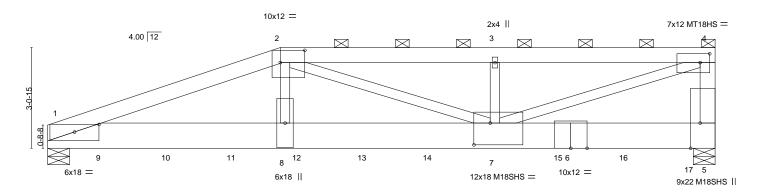
ID:Ej7EWovY_94Pzt7UVy1gWAz_t70-GDwa_PDQrLpC7l1CSdhzdTS5SPyZU6uw4cV_nlz6NOD 6-6-13 6-8-13

Structural wood sheathing directly applied or 3-6-12 oc purlins,

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

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

Scale = 1:35.2



⊢		7-1-6				13-8-3		-			20-5-0	
		7-1-6				6-6-13					6-8-13	
Plate Offs	ets (X,Y)	[1:0-9-0,0-2-13], [2:0-9-0,	,0-4-8], [4:0-3-8	3,0-3-4], [5:0	-9-4,Edge], [7:0-6-0,0-8-0]						
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	0.80	Vert(LL)	-0.30	7-8	>795	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.92	Vert(CT)	-0.53	7-8	>450	240	M18SHS	197/144
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.92	Horz(CT)	0.06	5	n/a	n/a	MT18HS	197/144
BCDL	10.0	Code IRC2018/TF	PI2014	Matri	x-S	Wind(LL)	0.18	7-8	>999	240	Weight: 280 lb	FT = 10%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x6 SPF 1650F 1.4E **BOT CHORD** 2x10 SP DSS WEBS 2x4 SPF No.2 *Except*

4-5: 2x6 SPF No.2, 2-7,4-7: 2x4 SPF 2100F 1.8E

REACTIONS.

(size) 1=0-8-0, 5=0-8-0 Max Horz 1=83(LC 5)

Max Uplift 1=-890(LC 4), 5=-95(LC 4) Max Grav 1=8861(LC 1), 5=10216(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. $1\hbox{-}2\hbox{--}19330/1745, 2\hbox{-}3\hbox{--}17184/1025, 3\hbox{-}4\hbox{--}17184/1025, 4\hbox{-}5\hbox{--}6569/432}$ TOP CHORD

BOT CHORD 1-8=-1626/18122. 7-8=-1670/18506. 5-7=-20/840

WEBS 2-8=-737/6490, 2-7=-1412/758, 3-7=-362/265, 4-7=-1069/17478

- 1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows: Top chords connected as follows: 2x6 - 2 rows staggered at 0-4-0 oc. Bottom chords connected as follows: 2x10 - 2 rows staggered at 0-5-0 oc. Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
- 2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- 3) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 4) Provide adequate drainage to prevent water ponding.
- 5) All plates are MT20 plates unless otherwise indicated
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5 except (jt=lb) 1=890.
- 9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



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Continued on page 2

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

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

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



DELEASE FOR CONSTRUCTION	
RE LEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW	
AS NOTED ON PLANS REVIEW	
DEVELOPMENT SERVICES	
LEE'S SUMMIT, WASP URI 6687	
- wheeler Lumber; waverly, KS - 6687	,
06/28/2022 8:24:31	
NOTES-	

Truss Type	Qty	Ply	Lot 156 WO	
,,	1			152537411
Half Hip Girder	1	_		
Tidii Tiip Girdoi		-	Job Reference (optional)	
	8.	430 s Aug	16 2021 MiTek Industries, Inc. Tue Jun 14 11:53:04 2022	Page 2

ID:Ej7EWovY_94Pzt7UVy1gWAz_t70-GDwa_PDQrLpC7l1CSdhzdTS5SPyZU6uw4cV_nlz6NOD

11) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 754 lb down and 153 lb up at 1-7-12, 347 lb down and 24 lb up at 1-7-12, 1123 lb down and 175 lb up at 3-7-12, 754 lb down and 182 lb up at 3-7-12, 967 lb down and 31 lb up at 5-7-12, 754 lb down and 94 lb up at 5-7-12, 967 lb down and 70 lb up at 7-7-12, 754 lb down and 109 lb up at 7-7-12, 1051 lb down and 190 lb up at 9-7-12, 754 lb down and 109 lb up at 9-7-12, 1057 lb down and 163 lb up at 11-7-12, 754 lb down and 109 lb up at 11-7-12, 1053 lb down and 23 lb up at 13-7-12, 754 lb down and 109 lb up at 15-7-12, 1057 lb down and 109 lb up at 15-7-12, 1057 lb down and 109 lb up at 15-7-12, 1057 lb down and 109 lb up at 15-7-12, 1057 lb down and 109 lb up at 15-7-12, 1053 lb down and 109 lb up at 15-7-12, 1053 lb down and 104 lb up at 15-7-12, 1053 lb down and 104 lb up at 15-7-12, 1053 lb down and 105 lb up at 15-7-12, 1053 l 19-7-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

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

Uniform Loads (plf)

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

Concentrated Loads (lb)

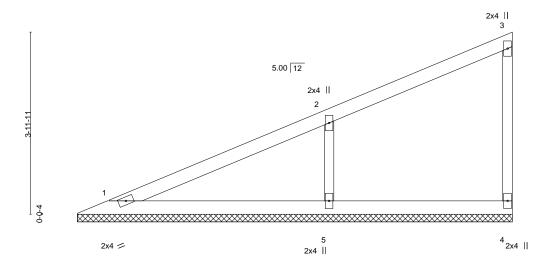
Vert: 7=-1812(F=-754, B=-1057) 9=-1101(F=-754, B=-347) 10=-1878(F=-754, B=-1123) 11=-1721(F=-754, B=-967) 12=-1721(F=-754, B=-967) 13=-1805(F=-754, B=-967) 12=-1721(F=-754, B=-967) 13=-1805(F=-754, B=-967) 12=-1721(F=-754, B=-967) 13=-1805(F=-754, B=-967) 13=-1805(F=-754 B=-1051) 14=-1812(F=-754, B=-1057) 15=-1812(F=-754, B=-1057) 16=-1807(F=-754, B=-1053) 17=-1821(F=-759, B=-1062)



Truss Type Qty Lot 156 WO 152537412 Valley

Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Jun 14 11:53:04 2022 Page 1 ID:Ej7EWovY_94Pzt7UVy1gWAz_t70-GDwa_PDQrLpC7l1CSdhzdTSDPP8SUJ7w4cV_nlz6NOD 9-6-8 9-6-8

Scale = 1:25.1



LOADING (psf) TCLL 25.0	SPACING- 2-0-0 Plate Grip DOL 1.15	CSI. TC 0.29	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 0.16	Vert(CT)	n/a	-	n/a	999		
BCLL 0.0 * BCDL 10.0	Rep Stress Incr YES Code IRC2018/TPI2014	WB 0.07 Matrix-S	Horz(CT)	-0.00	4	n/a	n/a	Weight: 26 lb	FT = 10%

LUMBER-BRACING-TOP CHORD

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

BOT CHORD

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

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

REACTIONS. (size) 1=9-5-14, 4=9-5-14, 5=9-5-14

Max Horz 1=159(LC 5)

Max Uplift 4=-23(LC 5), 5=-129(LC 8)

Max Grav 1=172(LC 1), 4=122(LC 1), 5=487(LC 1)

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

2-5=-370/182 WEBS

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Gable requires continuous bottom chord bearing.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4 except (jt=lb) 5=129
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



June 15,2022



Truss Type Qty Lot 156 WO 152537413 Valley

Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Jun 14 11:53:05 2022 Page 1 ID:Ej7EWovY_94Pzt7UVy1gWAz_t70-IQUyBkE3cfx3lvcP0KCCAh?PhpVYDng3IGFXJkz6NOC

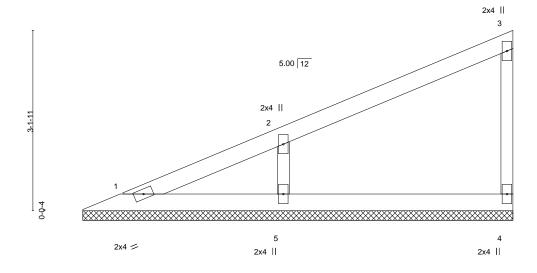
Structural wood sheathing directly applied or 6-0-0 oc purlins,

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

except end verticals.

7-6-8 7-6-8

Scale = 1:20.1



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

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

2x3 SPF No.2 WEBS **OTHERS** 2x3 SPF No.2

REACTIONS. (size) 1=7-5-14, 4=7-5-14, 5=7-5-14

Max Horz 1=122(LC 5)

Max Uplift 4=-26(LC 8), 5=-102(LC 8)

Max Grav 1=81(LC 16), 4=141(LC 1), 5=384(LC 1)

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

2-5=-299/153 WEBS

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Gable requires continuous bottom chord bearing.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4 except (jt=lb) 5=102
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



June 15,2022



Truss Type Qty Lot 156 WO 152537414 Valley

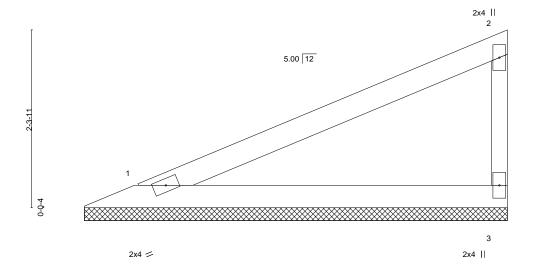
Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Jun 14 11:53:06 2022 Page 1 ID:Ej7EWovY_94Pzt7UVy1gWAz_t70-Dc2KP4FhNy3vM3Bba2jRjuXWyCpgyDIDXw_5sBz6NOB

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

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

except end verticals.

Scale = 1:15.0



LOADING (psf) TCLL 25.0	SPACING- 2-0-0 Plate Grip DOL 1.15	CSI. TC 0.42	DEFL. ir Vert(LL) n/a	٠,	l/defl n/a	L/d 999	PLATES MT20	GRIP 197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.23	Vert(CT) n/a		n/a	999	25	
BCLL 0.0 * BCDL 10.0	Rep Stress Incr YES Code IRC2018/TPI2014	WB 0.00 Matrix-P	Horz(CT) -0.00	3	n/a	n/a	Weight: 14 lb	FT = 10%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

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

1=5-5-14, 3=5-5-14 (size) Max Horz 1=86(LC 5) Max Uplift 1=-31(LC 8), 3=-48(LC 8) Max Grav 1=211(LC 1), 3=211(LC 1)

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

- 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.



June 15,2022



Truss Type Qty Lot 156 WO 152537415 Valley

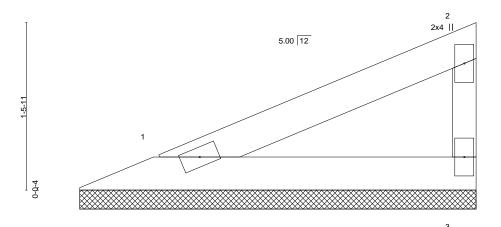
Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Jun 14 11:53:06 2022 Page 1 ID:Ej7EWovY_94Pzt7UVy1gWAz_t70-Dc2KP4FhNy3vM3Bba2jRjuXbWCrJyDIDXw_5sBz6NOB

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

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

except end verticals.

Scale = 1:10.1



2x4 || 2x4 =

BRACING-

TOP CHORD

BOT CHORD

LOADING (psf) TCLL 25.0	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d	PLATES GRIP
	Plate Grip DOL 1.15	TC 0.13	Vert(LL) n/a - n/a 999	MT20 197/144
TCDL 10.0 BCLL 0.0 * BCDL 10.0	Lumber DOL 1.15 Rep Stress Incr YES Code IRC2018/TPI2014	BC 0.07 WB 0.00 Matrix-P	Vert(CT) n/a - n/a 999 Horz(CT) -0.00 3 n/a n/a	Weight: 8 lb FT = 10%

LUMBER-

REACTIONS.

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

1=3-5-14, 3=3-5-14 (size) Max Horz 1=49(LC 5) Max Uplift 1=-18(LC 8), 3=-28(LC 8) Max Grav 1=121(LC 1), 3=121(LC 1)

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

- 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.



June 15,2022



Truss Type Qty Lot 156 WO 152537416 Valley

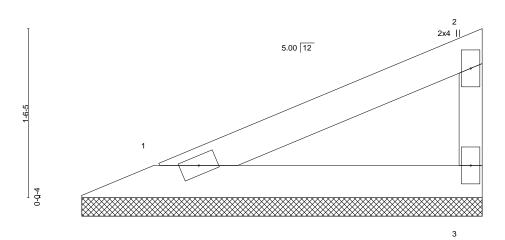
Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Jun 14 11:53:07 2022 Page 1 ID:Ej7EWovY_94Pzt7UVy1gWAz_t70-hobicQFJ8GBm_Dmn7IEgF64l4cARhg_MmakeOdz6NOA 3-8-0

Structural wood sheathing directly applied or 3-8-0 oc purlins,

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

except end verticals.

Scale = 1:10.4



2x4 / 2x4 ||

BRACING-

TOP CHORD

BOT CHORD

LOADIN TCLL	G (psf) 25.0	SPACING- 2-0-0 Plate Grip DOL 1.15	CSI. TC 0.14	DEFL. Vert(LL)	in (loc) n/a -	l/defl n/a	L/d 999	PLATES MT20	GRIP 197/144
TCDL	10.0	Lumber DOL 1.15	BC 0.07	Vert(CT)	n/a -	n/a	999	WITZO	137/144
BCLL BCDL	0.0 * 10.0	Rep Stress Incr YES Code IRC2018/TPI2014	WB 0.00 Matrix-P	Horz(CT) -0	0.00 3	n/a	n/a	Weight: 8 lb	FT = 10%

LUMBER-

REACTIONS.

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

WEBS 2x3 SPF No.2

> 1=3-7-6, 3=3-7-6 (size) Max Horz 1=52(LC 5)

Max Uplift 1=-18(LC 8), 3=-29(LC 8) Max Grav 1=126(LC 1), 3=126(LC 1)

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

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



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Truss Type Qty Lot 156 WO 152537417 Valley

Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Jun 14 11:53:07 2022 Page 1 ID:Ej7EWovY_94Pzt7UVy1gWAz_t70-hobicQFJ8GBm_Dmn7IEgF64hJc8shg_MmakeOdz6NOA

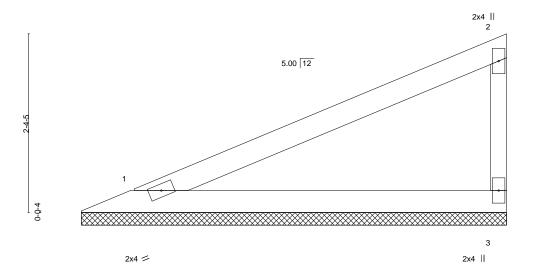
Structural wood sheathing directly applied or 5-8-0 oc purlins,

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

except end verticals.

5-8-0

Scale = 1:15.2



LOADING	VI /	SPACING- 2-0-0	CSI.	DEFL.		(loc)	l/defl	L/d	PLATES	GRIP
TCLL TCDL	25.0 10.0	Plate Grip DOL 1.15 Lumber DOL 1.15	TC 0.44 BC 0.24	Vert(LL) Vert(CT)	n/a	-	n/a	999 999	MT20	197/144
BCLL	0.0 *	Rep Stress Incr YES	WB 0.00	- (- /	n/a -0.00	3	n/a n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014	Matrix-P	(51)				.,.	Weight: 14 lb	FT = 10%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

REACTIONS. 1=5-7-6, 3=5-7-6 (size) Max Horz 1=88(LC 5)

Max Uplift 1=-32(LC 8), 3=-49(LC 8) Max Grav 1=216(LC 1), 3=216(LC 1)

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

- 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.



June 15,2022



Truss Type Qty Lot 156 WO 152537418 Valley

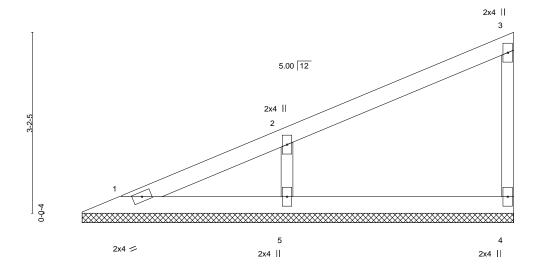
Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Jun 14 11:53:08 2022 Page 1 ID:Ej7EWovY_94Pzt7UVy1gWAz_t70-9_95qmGxvaKdcML_hSlvoJcvt0WEQ7OV?ETBw3z6NO9 7-8-0

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

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

except end verticals.

Scale = 1:20.3



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)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL 1.15	BC 0.10	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr YES	WB 0.05	Horz(CT)	-0.00	4	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014	Matrix-P						Weight: 20 lb	FT = 10%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

2x3 SPF No.2 WEBS **OTHERS** 2x3 SPF No.2

REACTIONS. (size) 1=7-7-6, 4=7-7-6, 5=7-7-6

Max Horz 1=124(LC 5)

Max Uplift 4=-25(LC 8), 5=-103(LC 8)

Max Grav 1=86(LC 16), 4=140(LC 1), 5=389(LC 1)

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

2-5=-303/155 WEBS

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Gable requires continuous bottom chord bearing.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4 except (jt=lb) 5=103
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



June 15,2022



Truss Type Qty Lot 156 WO 152537419 Valley

Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Jun 14 11:53:09 2022 Page 1 ID:Ej7EWovY_94Pzt7UVy1gWAz_t70-dBjT16HZgtSUDWwAFAG8KX93MQsc9azfDuDISVz6NO8

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

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

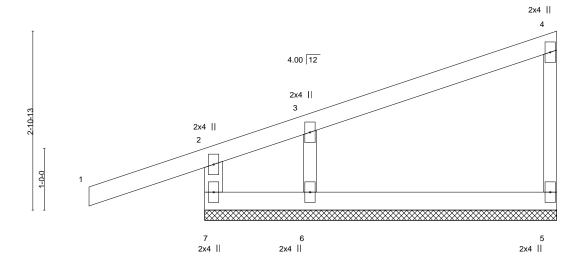
except end verticals.

5-8-8 5-8-8

-1-10-8

1-10-8

Scale = 1:18.7



LOADING	(psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.28	Vert(LL)	0.01	1	n/r	120	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.09	Vert(CT)	-0.01	1	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.03	Horz(CT)	-0.00	5	n/a	n/a		
BCDL	10.0	Code IRC2018/TF	PI2014	Matri	x-R						Weight: 19 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

4-5: 2x3 SPF No.2

OTHERS 2x3 SPF No.2

REACTIONS.

(size) 7=5-8-8, 5=5-8-8, 6=5-8-8

Max Horz 7=124(LC 5)

Max Uplift 7=-102(LC 4), 5=-28(LC 4), 6=-76(LC 8) Max Grav 7=248(LC 1), 5=153(LC 1), 6=232(LC 1)

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

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Gable requires continuous bottom chord bearing.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 6 except (jt=lb) 7=102
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



June 15,2022



Truss Type Qty Lot 156 WO 152537420 Valley

Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Jun 14 11:53:09 2022 Page 1 ID:Ej7EWovY_94Pzt7UVy1gWAz_t70-dBjT16HZgtSUDWwAFAG8KX9?iQpi9aUfDuDISVz6NO8

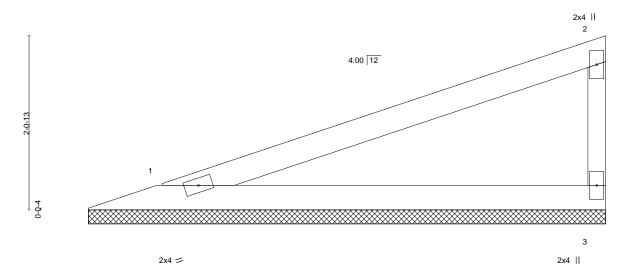
Structural wood sheathing directly applied or 6-2-8 oc purlins,

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

except end verticals.

6-2-8

Scale = 1:13.7



LOADING (psf) TCLL 25.0 TCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15	CSI. TC 0.51 BC 0.28	DEFL. in (loc) l/defl L/d Vert(LL) n/a - n/a 999 Vert(CT) n/a - n/a 999	PLATES GRIP MT20 197/144
BCLL 0.0 * BCDL 10.0	Rep Stress Incr YES Code IRC2018/TPI2014	WB 0.00 Matrix-P	Horz(CT) -0.00 3 n/a n/a	Weight: 15 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=6-1-12, 3=6-1-12 (size) Max Horz 1=77(LC 5)

Max Uplift 1=-38(LC 4), 3=-49(LC 8) Max Grav 1=232(LC 1), 3=232(LC 1)

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

- 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.

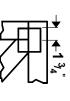


June 15,2022

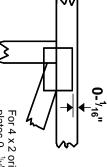


Symbols

PLATE LOCATION AND ORIENTATION



Center plate on joint unless x, y offsets are indicated.
Dimensions are in ft-in-sixteenths.
Apply plates to both sides of truss and fully embed teeth.



For 4 x 2 orientation, locate plates 0- ¹/16" from outside edge of truss.

This symbol indicates the required direction of slots in connector plates.

* Plate location details available in MiTek 20/20 software or upon request.

PLATE SIZE

1 × 1

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.

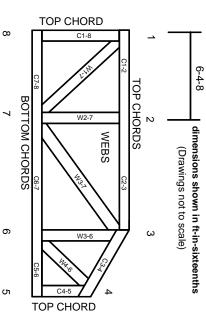
Min size shown is for crushing only

EVELOPMENT 24 Plate Co. Design S Building Guide to Installing Connectte

RELEASE FOR CONSTRUCTION

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.

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.