

RE: 24-5686-A

RVF-LOT #17 ROOF

Trenco 818 Soundside Rd Edenton, NC 27932

Truss Name

V04

V05

V06

Date

5/22/2024

5/22/2024

5/22/2024

Site Information:

Customer: Project Name: 24-5686-A

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

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

No.

21

22

23

Seal#

165708192

165708193

165708194

Design Code: IRC2018/TPI2014 Design Program: MiTek 20/20 8.7

Wind Code: ASCE 7-16 Wind Speed: 130 mph Roof Load: 40.0 psf Floor Load: N/A psf

This package includes 23 individual, dated Truss Design Drawings and 0 Additional Drawings.

No.	Seal#	Truss Name	Date
1	165708172	M01	5/22/2024
2	165708173	M01GE	5/22/2024
3	165708174	M02	5/22/2024
4	165708175	PB01	5/22/2024
5	165708176	T01	5/22/2024
6	165708177	T01GE	5/22/2024
7	165708178	T02	5/22/2024
8	165708179	T02G	5/22/2024
9	165708180	T02GE	5/22/2024
10	165708181	T03	5/22/2024
11	165708182	T03A	5/22/2024
12	165708183	T03AGE	5/22/2024
13	165708184	T03GE	5/22/2024
14	165708185	T04	5/22/2024
15	165708186	T04A	5/22/2024
16	165708187	T05	5/22/2024
17	165708188	T05GE	5/22/2024
18	165708189	V01	5/22/2024
19	165708190	V02	5/22/2024
20	165708191	V03	5/22/2024

The truss drawing(s) referenced above have been prepared by Truss Engineering Co. under my direct supervision based on the parameters provided by Riverside Roof Truss.

Truss Design Engineer's Name: Gilbert, Eric

My license renewal date for the state of North Carolina is December 31, 2024

North Carolina COA: C-0844

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 TRENCO. Any project specific information included is for TRENCO customers file reference purpose only, and was not taken into account in the preparation of these designs. 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.



Gilbert, Eric

May 22, 2024

Job	Truss	Truss Type	Qty	Ply	RVF-LOT #	17 ROOF		
24-5686-A	M01	MONOPITCH	8	1				I65708172
24-3000-A	INIOT	WONOPITCH	°	'		nce (optional)		
Riverside Roof Truss, LLC,	Danville, Va - 24541,			8.730 s Ap	r 25 2024 MiT	ek Industries, Inc. N	Mon May 20 16:21:13 2	024 Page 1
				ı_NHkbraGC	mHloyOvst-dr	rBBwDYExLtmTnf3p	oRx5xEezFsKr1Uo_Vo	cCA7zEYoq
	0-11-0		7-0-0 7-0-0					
	0-11-0		7-0-0					
							2x4	Scale = 1:16.8
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		4.0	00 12					
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2-7-15			////					
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ıar	2							
1 12								
lä		1						
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	5	7						
							2x4	
							2X4	
	3x4 :	=		•				
	0-6-8		7-0- 6-5-	0 8				
101500 (0			1					
LOADING (psf) TCLL (roof) 20.0	SPACING-	2-0-0 CSI.	DEF	ii	n (loc) I/c	defl L/d	PLATES	GRIP
Snow (Pf/Pg) 11.6/15.0	Plate Grip DOL					999 240	MT20	244/190
TCDL 10.0	Lumber DOL	1.15 BC 0.4				35 180		
BCLL 0.0	* Rep Stress Incr			(CT) 0.00) 2	n/a n/a	M	FT 000/
BCDL 10.0	Code IRC2018	/TPI2014 Matrix-MF	,				Weight: 26 lb	FT = 20%
LUMBER-			BRACING-					
TOP CHORD 2x4 SP No	.2		TOP CHORD	Structu	ıral wood she	athing directly app	olied or 6-0-0 oc purlin	ıs.
BOT CHORD 2x4 SP No					end verticals		F	*

BOT CHORD

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

WEBS 2x4 SP No.3

REACTIONS.

(size) 4=Mechanical, 2=0-3-0 Max Horz 2=85(LC 15) Max Uplift 4=-13(LC 16), 2=-49(LC 16) Max Grav 4=254(LC 21), 2=361(LC 2)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) -0-11-0 to 2-1-0, Interior(1) 2-1-0 to 6-10-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60
- 2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=15.0 psf; Pf=11.6 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.
- 4) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 11.6 psf on overhangs non-concurrent with other live loads.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Refer to girder(s) for truss to truss connections.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 2.
- 9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 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/TPII Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)



b	Truss	Truss Type		Qty	Ply	RVF-L0	OT #17 R	OOF		165708173
-5686-A	M01GE	MONOPITCH STRUCTURAL		1	1					165708173
				'	-		ference (d			
Riverside Roof Truss, LLC,	Danville, Va - 24541,								Mon May 20 16:21:13 20	
	0-11-0		ID	:BxI2MwYau_N 7-0-0	NHkbraGCn	nHloyOv	st-drBBw	DYEXLtm I nt3	pRx5xEezFsKr1Uo_Voo	CA/zEYoq
	0-11-0			7-0-0						
									2x4	Scale = 1:16.8
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			2x4	1		2v/	4		4	
			2,4 11			2.	• 11			
	<u> </u>								2x4	
	3x4 =	=								
	0-6-8 0-6-8			7-0-0 6-5-8						
OADING (==f)	0-0-8			0-0-8						
OADING (psf) CLL (roof) 20.0	SPACING-	2-0-0 CSI .		DEFL.	in		l/defl	L/d	PLATES	GRIP
now (Pf/Pg) 11.6/15.0	Plate Grip DOL Lumber DOL	1.15 TC 1.15 BC	0.65 0.43	Vert(LL) Vert(CT		4-13 4-13	>999 >535	240 180	MT20	244/190
CDL 10.0	Dan Ctross Incr		0.43	Horz(C		4-13	>535 n/a	n/a		
CLL 0.0 CDL 10.0	Code IRC2018			(-	,				Weight: 29 lb	FT = 20%
IIMRED.			DD	ACING.						

TOP CHORD 2x4 SP No.2 2x4 SP No.2

BOT CHORD 2x4 SP No.3 WEBS **OTHERS** 2x4 SP No.3

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

except end verticals.

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

REACTIONS.

(size) 4=Mechanical, 2=0-3-0

Max Horz 2=85(LC 15)

Max Uplift 4=-13(LC 16), 2=-49(LC 16) Max Grav 4=254(LC 21), 2=361(LC 2)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) -0-11-0 to 2-1-0, Interior(1) 2-1-0 to 6-10-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=15.0 psf; Pf=11.6 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 4) Unbalanced snow loads have been considered for this design.
- 5) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 11.6 psf on overhangs non-concurrent with other live loads.
- 6) Gable studs spaced at 2-0-0 oc.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 9) Refer to girder(s) for truss to truss connections.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 2.
- 11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



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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/TPII Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)



Job Truss Truss Type Qty RVF-LOT #17 ROOF 165708174 24-5686-A M02 MONOPITCH STRUCTURAL Job Reference (optional) 8.730 s Apr 25 2024 MiTek Industries, Inc. Mon May 20 16:21:14 2024 Page 1 Riverside Roof Truss, LLC, Danville, Va - 24541, ID:Bxl2MwYau_NHkbraGCmHloyOvst-51lZ8ZYthf?d4xEFN9SKTRBH4Fmsmx17jSMljazEYop 2-4-0 0-11-0 Scale = 1:8.3 3 2x4 || 4.00 12 0-3-15 4 2x4 = 2x4 II 0-6-8 0-6-8 1-9-8 LOADING (psf) SPACING-2-0-0 CSI. DEFL. I/defI L/d **PLATES** GRIP in (loc) TCLL (roof) 20.0 Plate Grip DOL TC Vert(LL) -0.00 240 244/190 1.15 0.07 5 >999 MT20 Snow (Pf/Pg) 11.6/15.0 Lumber DOL 1.15 ВС 0.06 Vert(CT) -0.00 >999 180 5 TCDI 10.0 Rep Stress Incr YES WB 0.00 Horz(CT) 0.00 4 n/a n/a **BCLL** 0.0 Code IRC2018/TPI2014 Matrix-MF Weight: 9 lb FT = 20% **BCDL** 10.0 BRACING-

TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

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

WEBS 2x4 SP No.3

> 4=Mechanical, 2=0-3-0 (size) Max Horz 2=31(LC 15)

Max Uplift 4=-1(LC 13), 2=-53(LC 16) Max Grav 4=33(LC 7), 2=205(LC 2)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=15.0 psf; Pf=11.6 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 4) Unbalanced snow loads have been considered for this design.
- 5) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 11.6 psf on overhangs non-concurrent with other live loads.
- 6) Gable studs spaced at 2-0-0 oc.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 9) Refer to girder(s) for truss to truss connections.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 2.
- 11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



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

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

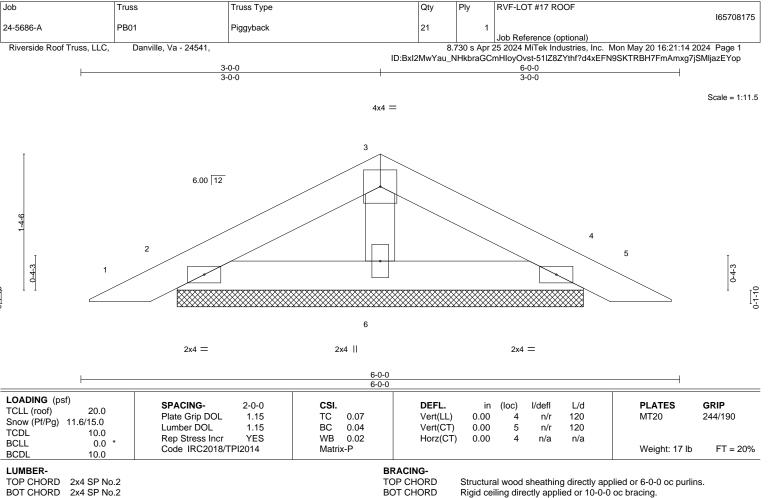
except end verticals.

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 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 and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)





OTHERS REACTIONS.

(size) 2=4-0-14, 4=4-0-14, 6=4-0-14

Max Horz 2=22(LC 15)

2x4 SP No.3

Max Uplift 2=-36(LC 16), 4=-36(LC 16)

Max Grav 2=121(LC 2), 4=121(LC 2), 6=152(LC 2)

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

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=15.0 psf; Pf=11.6 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 4) Unbalanced snow loads have been considered for this design.
- 5) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 11.6 psf on overhangs non-concurrent with other live loads.
- 6) Gable requires continuous bottom chord bearing.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 4.
- 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 11) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

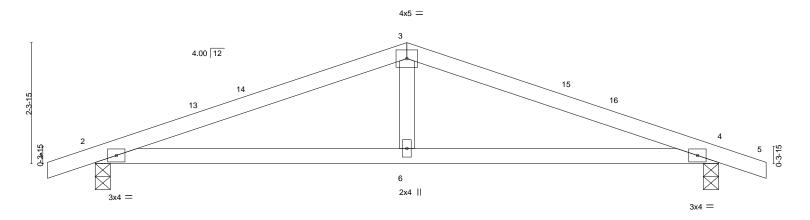
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall

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Job Truss Truss Type Qty RVF-LOT #17 ROOF 165708176 COMMON 24-5686-A T01 5 Job Reference (optional) Riverside Roof Truss, LLC, 8.730 s Apr 25 2024 MiTek Industries, Inc. Mon May 20 16:21:15 2024 Page 1 Danville, Va - 24541, ID:Bxl2MwYau_NHkbraGCmHloyOvst-ZEJyLuZVSz7Ui5pRwszZ0fkMqf_xVNeGy65JF0zEYoo 6-0-0 6-0-0 0-11-0 6-0-0 0-11-0

Scale = 1:22.2



 	6-0-0 6-0-0	+	+ 12-0-0 6-0-0	
LOADING (psf) TCLL (roof) 20.0 Snow (Pf/Pg) 11.6/15.0 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 0.46 BC 0.52 WB 0.11 Matrix-MS		FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-TOP CHORD

2x4 SP No 2 2x4 SP No.2

BOT CHORD WEBS 2x4 SP No.3

REACTIONS. 2=0-3-8, 4=0-3-8 (size) Max Horz 2=24(LC 15)

Max Uplift 2=-58(LC 16), 4=-58(LC 16) Max Grav 2=535(LC 2), 4=535(LC 2)

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

TOP CHORD 2-3=-892/294, 3-4=-892/294 **BOT CHORD**

2-6=-198/813, 4-6=-198/813

WEBS 3-6=0/277

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) -0-11-0 to 2-1-0, Interior(1) 2-1-0 to 6-0-0, Exterior(2R) 6-0-0 to 9-0-0 , Interior(1) 9-0-0 to 12-11-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=15.0 psf; Pf=11.6 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 4) Unbalanced snow loads have been considered for this design.
- 5) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 11.6 psf on overhangs non-concurrent with other live loads.
- 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) 2, 4.
- 9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



Structural wood sheathing directly applied or 5-5-14 oc purlins.

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

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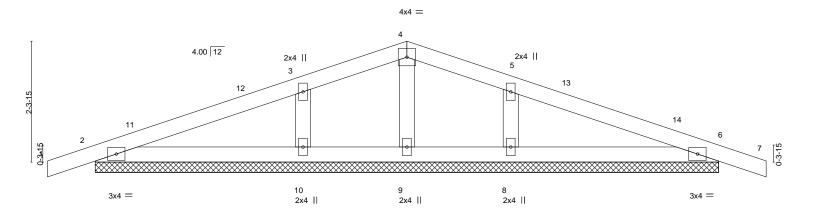


Job Truss Truss Type Qty RVF-I OT #17 ROOF 165708177 24-5686-A T01GE COMMON STRUCTURAL GA Job Reference (optional) 8.730 s Apr 25 2024 MiTek Industries, Inc. Mon May 20 16:21:15 2024 Page 1 Riverside Roof Truss, LLC, Danville, Va - 24541, ID:Bxl2MwYau_NHkbraGCmHloyOvst-ZEJyLuZVSz7Ui5pRwszZ0fkR7f5GVN8Gy65JF0zEYoo

6-0-0

Scale = 1:22.2

0-11-0



			12-0-0 12-0-0							1
	1		12-0-0	J						
LOADING (psf) TCLL (roof) 20.0 Snow (Pf/Pg) 11.6/15.0 TCDL 10.0 BCLL 0.0	Lumber DOL Rep Stress Incr	2-0-0 1.15 1.15 YES	CSI. TC 0.18 BC 0.12 WB 0.07	DEFL. Vert(LL) Vert(CT) Horz(CT)	in 0.00 0.01 0.00	(loc) 7 7 6	l/defl n/r n/r n/a	L/d 120 120 n/a	PLATES MT20	GRIP 244/190
BCDL 10.0	Code IRC2018/TP	12014	Matrix-S						Weight: 46 lb	FT = 20%

LUMBER-BRACING-

6-0-0

TOP CHORD TOP CHORD 2x4 SP No 2 Structural wood sheathing directly applied or 6-0-0 oc purlins. **BOT CHORD** 2x4 SP No.2 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. **OTHERS** 2x4 SP No.3

REACTIONS. All bearings 12-0-0. Max Horz 2=24(LC 15) (lb) -

0-11-0

Max Uplift All uplift 100 lb or less at joint(s) 2, 6, 10, 8

Max Grav All reactions 250 lb or less at joint(s) 2, 6, 9 except 10=338(LC 21), 8=338(LC 22)

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

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=2ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Corner(3E) -0-11-0 to 2-1-0, Exterior(2N) 2-1-0 to 6-0-0, Corner(3R) 6-0-0 to 9-0-0, Exterior(2N) 9-0-0 to 12-11-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=15.0 psf; Pf=11.6 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 5) Unbalanced snow loads have been considered for this design.
- 6) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 11.6 psf on overhangs non-concurrent with other live loads.
- 7) Gable requires continuous bottom chord bearing.
- 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.
- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 6, 10, 8.
- 12) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 6.
- 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.



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 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 and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)



Job Truss Truss Type Qty RVF-I OT #17 ROOF 165708178 COMMON 24-5686-A T02 2 Job Reference (optional) Riverside Roof Truss, LLC, Danville, Va - 24541, 8.730 s Apr 25 2024 MiTek Industries, Inc. Mon May 20 16:21:16 2024 Page 1

5-7-4

ID:Bxl2MwYau_NHkbraGCmHloyOvst-1QtKZEa7DGFLKFOdUaUoYsGYn3lpEdgQBmrsnSzEYon 23-11-0 0-11-0 23-0-0

5-7-4

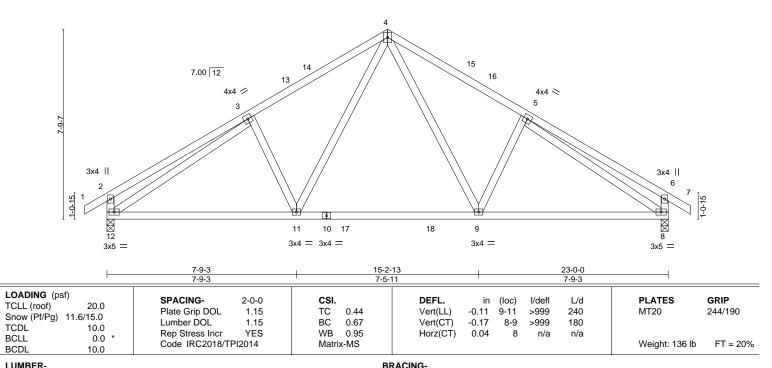
Scale = 1:47.2 4x5 ||

Structural wood sheathing directly applied or 5-1-0 oc purlins,

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

except end verticals.

5-10-12



TOP CHORD

BOT CHORD

LUMBER-TOP CHORD

2x4 SP No.2 2x4 SP No.2

BOT CHORD WEBS 2x4 SP No.3

REACTIONS. (size) 12=0-3-8, 8=0-3-8 Max Horz 12=-172(LC 14)

Max Uplift 12=-88(LC 16), 8=-88(LC 16) Max Grav 12=1075(LC 28), 8=1075(LC 29)

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

5-10-12

TOP CHORD 2-3=-386/112, 3-4=-1236/180, 4-5=-1236/180, 5-6=-386/112, 2-12=-375/122,

6-8=-375/122

BOT CHORD 11-12=-56/1163, 9-11=0/824, 8-9=-45/1061

WFBS 4-9=-43/552, 4-11=-43/552, 3-12=-1028/47, 5-8=-1028/46

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) -0-11-0 to 2-1-0, Interior(1) 2-1-0 to 11-6-0, Exterior(2R) 11-6-0 to 14-6-0, Interior(1) 14-6-0 to 23-11-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=15.0 psf; Pf=11.6 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 4) Unbalanced snow loads have been considered for this design.
- 5) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 11.6 psf on overhangs non-concurrent with other live loads.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 12, 8.
- 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.



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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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 and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)



 Job
 Truss
 Truss Type
 Qty
 Ply
 RVF-LOT #17 ROOF

 24-5686-A
 T02G
 COMMON GIRDER
 1
 3
 Job Reference (optional)

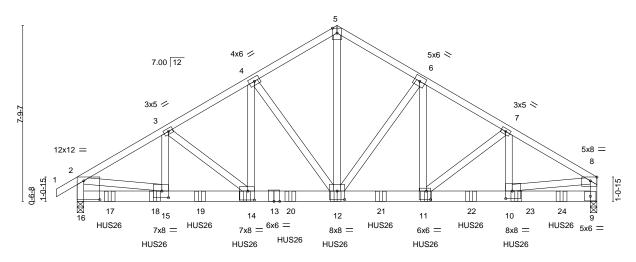
Riverside Roof Truss, LLC,

Danville, Va - 24541,

8.730 s Apr 25 2024 MiTek Industries, Inc. Mon May 20 16:21:17 2024 Page 1

ID:Bxl2MwYau_NHkbraGCmHloyOvst-VcRimabl_aNCxPzq2H?154pb5TfRz3XZQQaQKuzEYom
11-0 3-10-11 7-8-6 11-6-0 15-3-10 19-1-5 23-0-0
11-0 3-10-11 3-9-10 3-9-10 3-9-10 3-9-10 3-10-11

5x6 || Scale = 1:51.0



| 3-10-11 | 7-8-6 | 11-6-0 | 15-3-10 | 19-1-5 | 23-0-0 | | 3-10-11 | 3-9-10 | 3-9-10 | 3-9-10 | 3-9-10 | 3-10-11 | | Plate Offsets (X,Y)-- [2:0-8-8.0-10-0], [8:0-3-8,Edge], [10:0-3-8,0-4-0], [11:0-2-4,0-4-8], [12:0-4-0.0-4-8], [14:0-3-8,0-4-12], [15:0-3-8,0-3-8]

1 tale checks (7,17) [2.6 c c)c (5) [1.6 c c)c (2.2 d)c (1.6 c c)c (2.3 c)c											
LOADING (psf) TCLL (roof) 20.0 Snow (Pf/Pg) 11.6/15.0 TCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr NO	CSI. TC 0.92 BC 0.52 WB 0.98	DEFL. in (loc) l/defl L/d Vert(LL) -0.16 11-12 >999 240 Vert(CT) -0.29 11-12 >947 180 Horz(CT) 0.05 9 n/a n/a	PLATES GRIP MT20 244/190							
BCLL 0.0 * BCDL 10.0	Code IRC2018/TPI2014	Matrix-MS	11012(01) 0.03 9 11/4 11/4	Weight: 512 lb FT = 20%							

LUMBER-

TOP CHORD 2x4 SP No.2

BOT CHORD 2x6 SP 2400F 2.0E WEBS 2x4 SP No.3 *Except*

5-12,2-16: 2x4 SP No.2, 2-15,8-9,8-10: 2x4 SP No.1

BRACING-

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

except end verticals.

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

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

Max Horz 16=166(LC 37)

Max Uplift 16=-554(LC 12), 9=-371(LC 12) Max Grav 16=12532(LC 3), 9=12860(LC 3)

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

TOP CHORD 2-3=-16110/658, 3-4=-15067/569, 4-5=-12131/474, 5-6=-12130/474, 6-7=-15276/518,

7-8=-16649/508, 2-16=-10822/481, 8-9=-11112/347

BOT CHORD 15-16=-173/1646, 14-15=-508/13819, 12-14=-370/12995, 11-12=-325/13172,

10-11=-381/14303, 9-10=-48/1629 WEBS 5-12=-406/11943, 6-12=-4589/175.

5-12=-406/11943, 6-12=-4589/175, 6-11=-96/5102, 7-11=-1454/71, 7-10=-60/1513, 4-12=-4292/251, 4-14=-182/4749, 3-14=-1064/174, 3-15=-176/1144, 2-15=-430/12425,

8-10=-340/12936

NOTES-

1) 3-ply truss to be connected together with 10d (0.131"x3") nails as follows:

Top chords connected as follows: 2x4 - 1 row at 0-7-0 oc.

Bottom chords connected as follows: 2x6 - 3 rows staggered at 0-5-0 oc.

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

- 2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- 3) Unbalanced roof live loads have been considered for this design.
- 4) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 5) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=15.0 psf; Pf=11.6 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 6) Unbalanced snow loads have been considered for this design.
- 7) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 11.6 psf on overhangs non-concurrent with other live loads.
- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 10) Bearing at joint(s) 16, 9 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.





minim

May 22,2024

SEAL

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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ORTH

Job	Truss	Truss Type	Qty	Ply	RVF-LOT #17 ROOF	
24-5686-A	T02G	COMMON GIRDER	4	_		165708179
24-3000-A	1029	COMMON GIRDER	'	3	Job Reference (optional)	

Riverside Roof Truss, LLC,

Danville, Va - 24541,

8.730 s Apr 25 2024 MiTek Industries, Inc. Mon May 20 16:21:17 2024 Page 2 ID:Bxl2MwYau_NHkbraGCmHloyOvst-VcRimabl_aNCxPzq2H?154pb5TfRz3XZQQaQKuzEYom

- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 16=554, 9=371.
- 12) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 13) Use Simpson Strong-Tie HUS26 (14-10d Girder, 6-10d Truss, Single Ply Girder) or equivalent spaced at 2-0-0 oc max. starting at 1-5-4 from the left end to 5-5-4 to connect truss(es) to front face of bottom chord.
- 14) Use Simpson Strong-Tie HUS26 (14-10d Girder, 6-10d Truss) or equivalent spaced at 2-0-0 oc max. starting at 7-5-4 from the left end to 21-5-4 to connect truss(es) to front face of bottom chord.
- 15) Fill all nail holes where hanger is in contact with lumber.

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-2=-43, 2-5=-43, 5-8=-43, 9-16=-20

Concentrated Loads (lb)

Vert: 12=-1818(F) 11=-1818(F) 14=-1818(F) 17=-1703(F) 18=-1703(F) 19=-1703(F) 20=-1818(F) 21=-1818(F) 22=-1818(F) 23=-1818(F) 24=-1818(F)

Job Truss Truss Type Qty RVF-I OT #17 ROOF 165708180 24-5686-A T02GE COMMON SUPPORTED GAB Job Reference (optional)

4x4 =

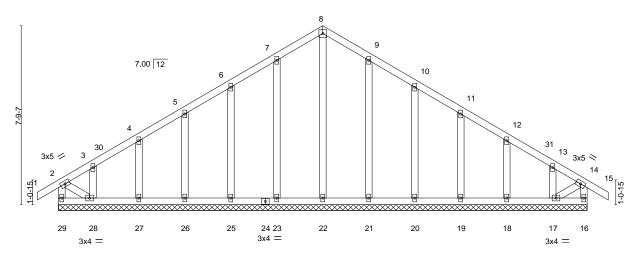
Riverside Roof Truss, LLC,

Danville, Va - 24541,

8.730 s Apr 25 2024 MiTek Industries, Inc. Mon May 20 16:21:18 2024 Page 1

ID:BxI2MwYau_NHkbraGCmHloyOvst-zp?4zwbNluV3ZZX0c?XGeHMz_t7Fij?je4KzsLzEYol 23-11-0 11-6-0 11-6-0 11-6-0

Scale = 1:50.1



23-0-0 LOADING (psf) SPACING-2-0-0 DEFL. **PLATES** GRIP CSI. (loc) I/defl L/d TCLL (roof) 20.0 Plate Grip DOL Vert(LL) 244/190 1.15 TC 0.08 -0.00 15 n/r 120 MT20 Snow (Pf/Pg) 11.6/15.0 Lumber DOL 1.15 ВС 0.03 Vert(CT) -0.00 15 120 n/r TCDI 10.0 Rep Stress Incr YES WB 0.13 Horz(CT) 0.00 16 n/a n/a **BCLL** 0.0 Code IRC2018/TPI2014 Matrix-S Weight: 149 lb FT = 20% **BCDL** 10.0

LUMBER-BRACING-

TOP CHORD 2x4 SP No.2 2x4 SP No.2 **BOT CHORD** WEBS 2x4 SP No.3 **OTHERS** 2x4 SP No.3

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

Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 28-29,16-17.

REACTIONS. All bearings 23-0-0.

Max Horz 29=-172(LC 14) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 29, 23, 25, 26, 27, 28, 21, 20, 19, 18, 17 Max Grav All reactions 250 lb or less at joint(s) 29, 16, 22, 23, 25, 26, 27, 28, 21, 20, 19, 18, 17

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

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; B=25ft; B=45ft; L=24ft; eave=2ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Corner(3E) -0-11-0 to 2-1-0, Exterior(2N) 2-1-0 to 11-6-0, Corner(3R) 11-6-0 to 14-6-0, Exterior(2N) 14-6-0 to 23-11-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=15.0 psf; Pf=11.6 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 5) Unbalanced snow loads have been considered for this design.
- 6) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 11.6 psf on overhangs non-concurrent with other live loads.
- 7) All plates are 2x4 MT20 unless otherwise indicated.
- 8) Gable requires continuous bottom chord bearing.
- 9) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 10) Gable studs spaced at 2-0-0 oc.
- 11) 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.
- 13) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 29, 23, 25, 26, 27, 28, 21, 20, 19, 18, 17,
- 14) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



May 22,2024



Job Truss Truss Type Qty RVF-LOT #17 ROOF 165708181 24-5686-A T03 PIGGYBACK BASE Job Reference (optional) Riverside Roof Truss, LLC, Danville, Va - 24541, 8.730 s Apr 25 2024 MiTek Industries, Inc. Mon May 20 16:21:19 2024 Page 1 ID:Bxl2MwYau_NHkbraGCmHloyOvst-R?ZSBGc?WBdwBi6C9i2VAVu0BGFIR6Cstk3WOnzEYok 25-8-0 32-1-8 38-7-0

6-0-0

6-5-8

1 Row at midpt

2-0-0 oc purlins (4-8-12 max.): 7-8.

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

6-5-8

6-5-8

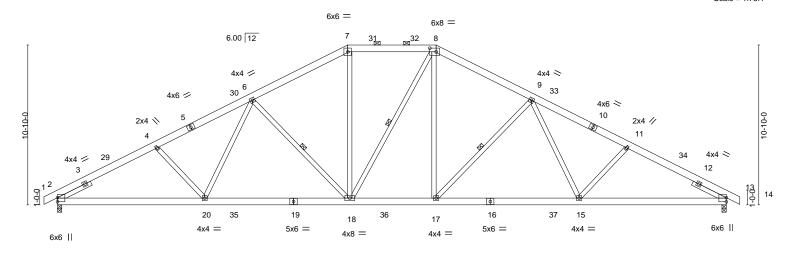
Scale = 1:78.1

6-9-0

45-4-0

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

6-18, 8-18, 9-17



9-11-12		9-8-4		6-0-0		9-8-4			9-11-12	
Plate Offsets (X,Y) [8:0-5-4,0-3-	-0]									
CADING (psf) TCLL (roof) 20.0 Snow (Pf/Pg) 16.5/15.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr Code IRC2018/		ВС	0.62 0.91 0.39 -MS	DEFL. Vert(LL) Vert(CT) Horz(CT)	in (loc) -0.26 15-17 -0.45 15-17 0.13 13	I/defI >999 >999 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 346 lb	GRIP 244/190 FT = 20%

BRACING-

TOP CHORD

BOT CHORD

WEBS

LUMBER-

-0-11-0 0-11-0

6-9-0

6-5-8

2x6 SP No.2 TOP CHORD

BOT CHORD 2x6 SP No.2 WEBS 2x4 SP No.3

Left 2x4 SP No.3 2-6-0, Right 2x4 SP No.3 2-6-0 SLIDER

9-11-12

REACTIONS. (size) 2=0-3-8, 13=0-3-8 Max Horz 2=202(LC 15)

Max Uplift 2=-139(LC 16), 13=-139(LC 16) Max Grav 2=2131(LC 28), 13=2133(LC 29)

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

2-4=-3501/314, 4-6=-3339/316, 6-7=-2592/341, 7-8=-2263/341, 8-9=-2595/341, TOP CHORD

9-11=-3345/316. 11-13=-3507/314

BOT CHORD 2-20=-188/3176, 18-20=-128/2870, 17-18=-28/2295, 15-17=-136/2726, 13-15=-196/3029 **WEBS** 6-20=0/511, 6-18=-826/160, 7-18=-31/883, 8-17=-29/942, 9-17=-830/159, 9-15=0/514

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=45ft; eave=6ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) -0-11-0 to 3-7-6, Interior(1) 3-7-6 to 19-8-0, Exterior(2E) 19-8-0 to 25-8-0, Exterior(2R) 25-8-0 to 32-1-8, Interior(1) 32-1-8 to 46-3-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

19-8-0

- 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=15.0 psf; Pf=16.5 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- 4) Unbalanced snow loads have been considered for this design.
- 5) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 11.6 psf on overhangs non-concurrent with other live loads.
- 6) Provide adequate drainage to prevent water ponding.7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=139, 13=139.
- 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 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

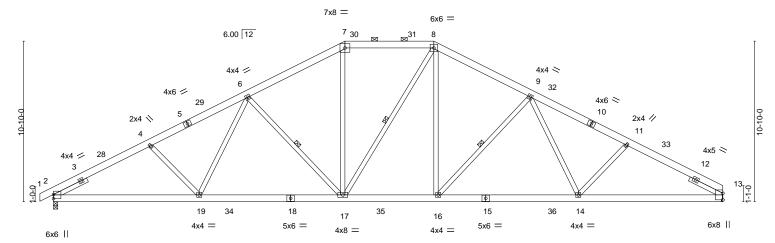
building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TP11 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)



Job Truss Truss Type Qty RVF-I OT #17 ROOF 165708182 24-5686-A T03A Piggyback Base 3 Job Reference (optional) Riverside Roof Truss, LLC, Danville, Va - 24541, 8.730 s Apr 25 2024 MiTek Industries, Inc. Mon May 20 16:21:19 2024 Page 1

ID:Bxl2MwYau_NHkbraGCmHloyOvst-R?ZSBGc?WBdwBi6C9i2VAVu_dGEpR7Vstk3WOnzEYok 25-8-0 32-2-0 38-8-0 45-2-0 6-6-11 6-6-11 6-6-11 6-0-0 6-6-0 6-6-0 6-6-0

Scale = 1:77.7



	9-10-0) ,	19-8-0	1	25-8-0	0 1		35-5-0		1	45-2-0	
	9-10-0) '	9-10-0		6-0-0	'		9-9-0		1	9-9-0	
LOADING TCLL (roo Snow (Pf/I TCDL BCLL BCDL	f) 20.0	SPACING Plate Grip Lumber I Rep Stres Code IRG	DOL 1.15 DOL 1.15	CSI. TC BC WB Matrix	0.72 0.97 0.37 (-MS	DEFL Vert(L Vert(C Horz(L) -0.26 CT) -0.44	14-16 14-16	I/defl >999 >999 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 342 lb	GRIP 244/190 FT = 20%

BOT CHORD

WEBS

LUMBER-BRACING-TOP CHORD

TOP CHORD 2x6 SP No 2 2x6 SP No.2 **BOT CHORD** 2x4 SP No.3 WEBS

SLIDER Left 2x4 SP No.3 2-6-0, Right 2x4 SP No.3 2-6-0

REACTIONS. (size) 2=0-3-8, 13=Mechanical

Max Horz 2=199(LC 15)

Max Uplift 2=-138(LC 16), 13=-109(LC 16) Max Grav 2=2129(LC 28), 13=2082(LC 29)

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

2-4=-3498/314, 4-6=-3340/316, 6-7=-2614/344, 7-8=-2257/344, 8-9=-2613/342, TOP CHORD

9-11=-3292/319, 11-13=-3438/318

BOT CHORD 2-19=-218/3168, 17-19=-158/2869, 16-17=-41/2278, 14-16=-148/2708, 13-14=-207/2957 **WEBS** 6-19=0/495, 6-17=-816/162, 7-17=-31/886, 8-16=-29/947, 9-16=-797/159, 9-14=0/450

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=45ft; eave=6ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) -0-11-0 to 3-7-3, Interior(1) 3-7-3 to 19-8-0, Exterior(2E) 19-8-0 to 25-8-0, Exterior(2R) 25-8-0 to 32-2-0, Interior(1) 32-2-0 to 45-2-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=15.0 psf; Pf=16.5 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- 4) Unbalanced snow loads have been considered for this design.
- 5) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 11.6 psf on overhangs non-concurrent with other live loads.
- 6) Provide adequate drainage to prevent water ponding.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) * This truss has been designed for a live load of 20.0psf on the bottom chord in 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.
- 9) Refer to girder(s) for truss to truss connections
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=138, 13=109.
- 11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



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

6-17, 8-17, 9-16

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

2-0-0 oc purlins (4-8-14 max.): 7-8.

2-2-0 oc bracing: 13-14.

1 Row at midpt

May 22,2024

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 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 and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)



Job Truss Truss Type Qty RVF-I OT #17 ROOF 165708183 24-5686-A T03AGE PIGGYBACK BASE SUPPO Job Reference (optional)

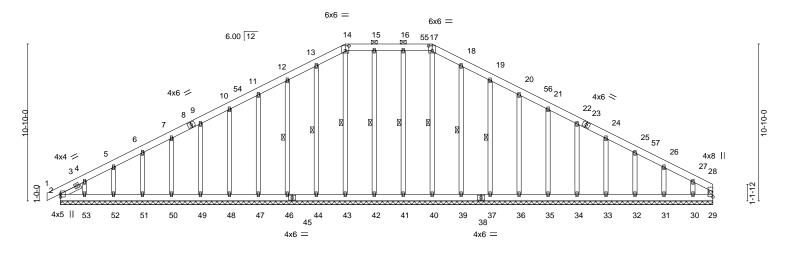
Riverside Roof Truss, LLC, Danville, Va - 24541,

8.730 s Apr 25 2024 MiTek Industries, Inc. Mon May 20 16:21:21 2024 Page 1 ID:Bxl2MwYau_NHkbraGCmHloyOvst-OOgDcyeG2pteQ0GbH74zFw_Ue49pv4Q9K2YdTgzEYoi 45-0-8

19-4-8

-0-11-0 0-11-0 25-8-0 19-8-0 6-0-0

Scale = 1:79.5



45-0-8

Plate Offsets (X,Y) [14:0-3-0),0-4-0 <u>]</u> , [17:0-3-0,0-4-0]			
LOADING (psf) TCLL (roof) 20.0 Snow (Pf/Pg) 16.5/15.0 TCDL 10.0 BCLL 0.0 *	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES	CSI. TC 0.12 BC 0.04 WB 0.15	DEFL. in (loc) I/defl L/d Vert(LL) -0.00 1 n/r 120 Vert(CT) -0.00 1 n/r 120 Horz(CT) 0.00 29 n/a n/r	0
BCDL 10.0	Code IRC2018/TPI2014	Matrix-S		Weight: 419 lb FT = 20%

LUMBER-BRACING-TOP CHORD

TOP CHORD 2x6 SP No.2 **BOT CHORD** 2x6 SP No.2 WEBS 2x4 SP No.3 2x4 SP No.3 **OTHERS** SLIDER Left 2x4 SP No.3 1-6-5

BOT CHORD WEBS

1 Row at midpt

Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 14-17. Rigid ceiling directly applied or 10-0-0 oc bracing.

17-40, 16-41, 15-42, 14-43, 13-44, 12-46, 18-39, 19-37

REACTIONS. All bearings 45-0-8.

Max Horz 2=213(LC 15) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 29, 2, 41, 42, 44, 46, 47, 48, 49, 50, 51, 52, 53, 39, 37, 36,

35, 34, 33, 32, 31, 30

Max Grav All reactions 250 lb or less at joint(s) 29, 2, 40, 41, 42, 43, 44, 46, 47, 48, 49, 50, 51, 52, 53,

39, 37, 36, 35, 34, 33, 32, 31, 30

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

TOP CHORD 12-13=-118/281, 13-14=-132/320, 14-15=-118/307, 15-16=-118/307, 16-17=-118/307,

17-18=-132/320, 18-19=-118/281

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=45ft; eave=2ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Corner(3E) -0-11-0 to 3-8-0, Exterior(2N) 3-8-0 to 19-8-0, Corner(3R) 19-8-0 to 24-2-1. Exterior(2N) 24-2-1 to 25-8-0. Corner(3R) 25-8-0 to 30-2-1. Exterior(2N) 30-2-1 to 44-10-12 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=15.0 psf; Pf=16.5 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- 5) Unbalanced snow loads have been considered for this design.
- 6) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 11.6 psf on overhangs non-concurrent with other live loads.
- 7) Provide adequate drainage to prevent water ponding.
- 8) All plates are 2x4 MT20 unless otherwise indicated.
- 9) Gable requires continuous bottom chord bearing.
- 10) Gable studs spaced at 2-0-0 oc.
- 11) 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.
- 13) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 29, 2, 41, 42, 44,



May 22,2024

Contifficet/70/4% 260, 50, 51, 52, 53, 39, 37, 36, 35, 34, 33, 32, 31, 30

MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE

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Job Truss Truss Type Qty RVF-LOT #17 ROOF 165708183 PIGGYBACK BASE SUPPO 24-5686-A T03AGE Job Reference (optional) 8.730 s Apr 25 2024 MiTek Industries, Inc. Mon May 20 16:21:22 2024 Page 2

Riverside Roof Truss, LLC,

Danville, Va - 24541,

ID:Bxl2MwYau_NHkbraGCmHloyOvst-saEbplfup6?U2ArnrqbCo7WfOUV2eXglZilB?6zEYoh

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



Job Truss Truss Type Qty RVF-I OT #17 ROOF 165708184 24-5686-A T03GE PIGGYBACK BASE SUPPO Job Reference (optional)

Riverside Roof Truss, LLC, Danville, Va - 24541,

19-8-0

-0-11-0 0-11-0

8.730 s Apr 25 2024 MiTek Industries, Inc. Mon May 20 16:21:23 2024 Page 1 ID:Bxl2MwYau_NHkbraGCmHloyOvst-Kmoz1efWaQ7LfKQ_OY6RKL3r9ugaN_wSoM1kXYzEYog

25-8-0 6-0-0 19-8-0

Scale = 1:80.1

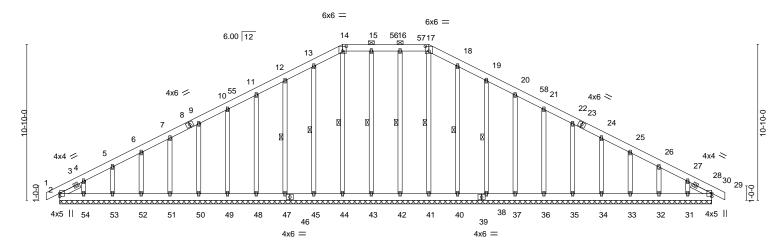


Plate Offsets (X,Y) [14:0-3	Plate Offsets (X,Y) [14:0-3-0,0-4-0], [17:0-3-0,0-4-0]										
LOADING (psf) TCLL (roof) 20.0 Snow (Pf/Pg) 16.5/15.0 TCDL 10.0 BCLL 0.0 *	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES	CSI. TC 0.05 BC 0.02 WB 0.15	DEFL. in (loc) l/defl L/d PLATES GRIP Vert(LL) -0.00 29 n/r 120 MT20 244/1 Vert(CT) -0.00 29 n/r 120 Horz(CT) 0.01 29 n/a n/a								
BCDL 10.0	Code IRC2018/TPI2014	Matrix-S	Weight: 424 lb FT =	= 20%							

LUMBER-BRACING-

2x6 SP No.2 TOP CHORD TOP CHORD

BOT CHORD 2x6 SP No.2 2-0-0 oc purlins (6-0-0 max.): 14-17.

OTHERS 2x4 SP No.3 **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc bracing.

Left 2x4 SP No.3 1-6-5, Right 2x4 SP No.3 1-6-5 SLIDER **WEBS** 17-41, 16-42, 15-43, 14-44, 13-45, 12-47, 1 Row at midpt

18-40, 19-38

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

REACTIONS. All bearings 45-4-0.

Max Horz 2=202(LC 15) (lb) -

Max Uplift All uplift 100 lb or less at ioint(s) 2, 42, 45, 47, 48, 49, 50, 51, 52, 53, 54, 40, 38, 37, 36, 35,

34, 33, 32, 31

All reactions 250 lb or less at joint(s) 2, 41, 42, 43, 44, 45, 47, 48, 49, 50, 51, 52, 53, 54, 40, Max Grav

38, 37, 36, 35, 34, 33, 32, 31, 29

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

TOP CHORD 12-13=-109/266, 13-14=-125/305, 14-15=-117/293, 15-16=-117/293, 16-17=-117/293,

17-18=-125/305, 18-19=-109/266

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=45ft; eave=2ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Corner(3E) -0-11-0 to 3-8-0, Exterior(2N) 3-8-0 to 19-8-0, Corner(3R) 19-8-0 to 24-2-6. Exterior(2N) 24-2-6 to 25-8-0. Corner(3R) 25-8-0 to 30-2-6. Exterior(2N) 30-2-6 to 46-3-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate arip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=15.0 psf; Pf=16.5 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- 5) Unbalanced snow loads have been considered for this design.
- 6) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 11.6 psf on overhangs non-concurrent with other live loads.
- 7) Provide adequate drainage to prevent water ponding.
- 8) All plates are 2x4 MT20 unless otherwise indicated.
- 9) Gable requires continuous bottom chord bearing.
- 10) Gable studs spaced at 2-0-0 oc.
- 11) 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.
- 13) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 42, 45, 47, 48, 49, 50, 51, 52, 53, 54, 40, 38, 37, 36, 35, 34, 33, 32, 31.



Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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Job	Truss	Truss Type	Qty	Ply	RVF-LOT #17 ROOF	٦
					l65708184	-
24-5686-A	T03GE	PIGGYBACK BASE SUPPO	1	1		
					Llob Reference (optional)	

Riverside Roof Truss, LLC,

Danville, Va - 24541,

8.730 s Apr 25 2024 MiTek Industries, Inc. Mon May 20 16:21:24 2024 Page 2 ID:Bxl2MwYau_NHkbraGCmHloyOvst-ozMLEzg8LkGCHU?AyFdgtYc0vHAp6QAb10nH3?zEYof

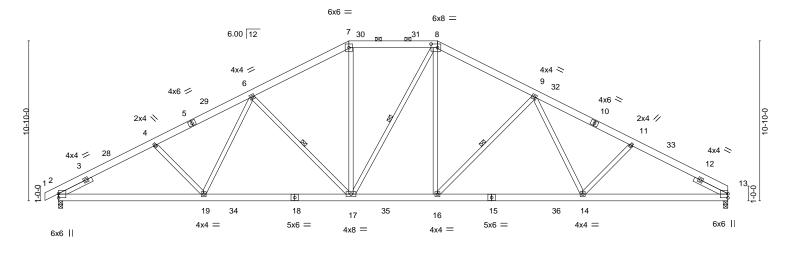
- 14) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 15) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



Job Truss Truss Type Qty RVF-LOT #17 ROOF 165708185 24-5686-A T04 PIGGYBACK BASE Job Reference (optional) 8.730 s Apr 25 2024 MiTek Industries, Inc. Mon May 20 16:21:24 2024 Page 1 Riverside Roof Truss, LLC, Danville, Va - 24541,

ID:Bxl2MwYau_NHkbraGCmHloyOvst-ozMLEzg8LkGCHU?AyFdgtYctzHy56MNb10nH3?zEYof 25-8-0 32-2-11 45-4-0 -0-11-0 0-11-0 6-6-11 6-6-11 6-6-11 6-0-0 6-6-11 6-6-11 6-6-11

Scale = 1:78.0



9-10-0)	9-10-0	l 6-0-	-0	9-10-0		1	9-10-0	
Plate Offsets (X,Y) [8:0-5-4,	0-3-0]								
LOADING (psf) TCLL (roof) 20.0 Snow (Pf/Pg) 16.5/15.0 TCDL 10.0 BCLL 0.0 *	SPACING- Plate Grip D Lumber DO Rep Stress	L 1.15	CSI. TC 0.62 BC 0.90 WB 0.39	DEFL. Vert(LL) Vert(CT Horz(C	,	>999 >999	L/d 240 180 n/a	PLATES MT20	GRIP 244/190
BCDL 10.0	Code IRC2	018/TPI2014	Matrix-MS					Weight: 343 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

WEBS

LUMBER-

REACTIONS.

2x6 SP No.2 TOP CHORD

BOT CHORD 2x6 SP No.2 WEBS 2x4 SP No.3

Left 2x4 SP No.3 2-6-0, Right 2x4 SP No.3 2-6-0 SLIDER

> (size) 2=0-3-8, 13=0-3-8 Max Horz 2=200(LC 15)

9-10-0

Max Uplift 2=-139(LC 16), 13=-110(LC 16) Max Grav 2=2133(LC 28), 13=2086(LC 29)

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

TOP CHORD 2-4=-3509/314, 4-6=-3351/316, 6-7=-2597/343, 7-8=-2267/343, 8-9=-2600/342,

9-11=-3361/322. 11-13=-3520/324

BOT CHORD $2-19 = -216/3177, \ 17-19 = -157/2876, \ 16-17 = -39/2293, \ 14-16 = -150/2737, \ 13-14 = -211/3042$ **WEBS** 6-19=0/503, 6-17=-827/162, 7-17=-31/882, 8-16=-28/941, 9-16=-833/162, 9-14=0/509

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=45ft; eave=6ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) -0-11-0 to 3-7-6, Interior(1) 3-7-6 to 19-8-0, Exterior(2E) 19-8-0 to 25-8-0, Exterior(2R) 25-8-0 to 32-2-11, Interior(1) 32-2-11 to 45-4-0 zone; cantilever left and right exposed; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=15.0 psf; Pf=16.5 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- 4) Unbalanced snow loads have been considered for this design.
- 5) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 11.6 psf on overhangs non-concurrent with other live loads.
- 6) Provide adequate drainage to prevent water ponding.7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=139, 13=110.
- 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



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

6-17, 8-17, 9-16

2-0-0 oc purlins (4-8-12 max.): 7-8.

1 Row at midpt

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

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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Job Truss Truss Type Qty RVF-LOT #17 ROOF 165708186 24-5686-A T04A Piggyback Base 8 Job Reference (optional)

Riverside Roof Truss, LLC, Danville, Va - 24541,

8.730 s Apr 25 2024 MiTek Industries, Inc. Mon May 20 16:21:26 2024 Page 1 ID:Bxl2MwYau_NHkbraGCmHloyOvst-kLU6ffiOtLWwWn9Y4gg8yzhB_5jWaD2uUKGO8tzEYod

Scale = 1:84.3

6-6-11 25-8-0 30-8-0 6-6-11 6-6-11 6-6-11 6-0-0 5-0-0 7-3-0 7-3-0

7x8 = 6x6 = 6.00 12 7 34 _⊠35 8 2x4 || 4x4 // 36 6 4x6 / 4x6 > 33 4x4 > 10 10-10-0 5 2x4 \ 11 38 4x4 > 4x4 / 12 1-1-1 1-9-8 _ 44 15 42 20 23 22 40 43 41 16 39 21 19 14 7x8 || 4x6 =4x4 =2x4 || 4x8 = 5x8 = 2x4 || 5x8 = 2x4 || 2x4 = 2x4 =

4x6 =

	3 -10-0 19-8-0	25-2-0	25-8-0 30-8-0 ₁	37-11-0	45-2-0	
	9-10-0	5-6-0	0-6-0 5-0-0	7-3-0	7-3-0	
Plate Offsets (X,Y) [2:0-0-0	,0-2-10]					
CADING (psf) TCLL (roof) 20.0 Snow (Pf/Pg) 16.5/15.0 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 0.72 BC 0.58 WB 0.64 Matrix-MS	DEFL. in Vert(LL) -0.33 Vert(CT) -0.58 Horz(CT) 0.11	(loc) I/defl L/d 18 >999 240 18-20 >939 180 13 n/a n/a	PLATES MT20 Weight: 357 lb	GRIP 244/190 FT = 20%

TOP CHORD

BOT CHORD

WEBS

LUMBER-BRACING-

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

17-20: 2x4 SP No.2

2x4 SP No.3 WEBS

SLIDER Left 2x4 SP No.3 2-6-0, Right 2x4 SP No.3 2-6-0

REACTIONS. (size) 2=0-3-8, 13=Mechanical

Max Horz 2=199(LC 15)

Max Uplift 2=-83(LC 16), 13=-40(LC 16) Max Grav 2=2321(LC 28), 13=2308(LC 29)

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

TOP CHORD 2-4=-3853/212, 4-6=-3694/213, 6-7=-3069/215, 7-8=-2660/230, 8-9=-3659/274,

9-11=-3592/165, 11-13=-3821/180

2-23=-129/3485, 21-23=-54/3230, 19-21=0/2597, 15-19=0/2597, 14-15=-80/3313, **BOT CHORD**

13-14=-80/3313

WFBS 6-23=0/390, 6-21=-748/178, 7-21=0/1086, 8-20=-123/319, 8-17=-59/1484, 15-17=-93/1398, 9-15=-556/185, 11-15=-298/141, 18-19=-303/0

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=45ft; eave=6ft: Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) -0-11-0 to 3-7-3, Interior(1) 3-7-3 to 19-8-0, Exterior(2E) 19-8-0 to 25-8-0, Exterior(2R) 25-8-0 to 32-0-10, Interior(1) 32-0-10 to 45-2-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=15.0 psf; Pf=16.5 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- Unbalanced snow loads have been considered for this design.
- 5) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 11.6 psf on overhangs non-concurrent with other live loads.
- 6) Provide adequate drainage to prevent water ponding.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) * This truss has been designed for a live load of 20.0psf on the bottom chord in 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.
- 9) Refer to girder(s) for truss to truss connections.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 13.
- 11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



Structural wood sheathing directly applied or 2-7-0 oc purlins, except

6-21, 8-20, 11-15

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

2-0-0 oc purlins (4-4-2 max.): 7-8.

6-0-0 oc bracing: 17-20

1 Row at midpt

May 22,2024

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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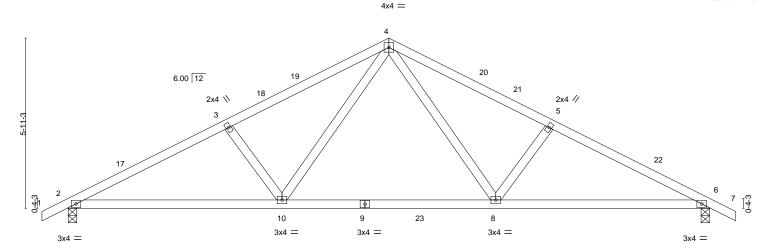
5-7-0

16-9-0 5-7-0 5-7-0

Structural wood sheathing directly applied or 4-1-15 oc purlins.

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

Scale = 1:40.1



<u> </u>	7-5-5 7-5-5	14-10-11 7-5-5		22-4-0 7-5-5	-	
CADING (psf) TCLL (roof) 20.0 Snow (Pf/Pg) 11.6/15.0 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	TC 0.41 BC 0.74	DEFL. in Vert(LL) -0.11 Vert(CT) -0.20 Horz(CT) 0.04	(loc) I/defl L/d 8-10 >999 240 8-10 >999 180 6 n/a n/a	PLATES MT20 Weight: 102 lb	GRIP 244/190 FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-TOP CHORD

REACTIONS.

2x4 SP No 2 2x4 SP No.2

BOT CHORD WEBS 2x4 SP No.3

> 2=0-3-8, 6=0-3-8 (size) Max Horz 2=-100(LC 14)

Max Uplift 2=-83(LC 16), 6=-83(LC 16) Max Grav 2=1025(LC 28), 6=1025(LC 29)

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

TOP CHORD 2-3=-1690/242, 3-4=-1547/250, 4-5=-1548/250, 5-6=-1691/242

BOT CHORD 2-10=-138/1553, 8-10=-22/991, 6-8=-145/1490

WEBS 4-8=-55/676, 5-8=-348/163, 4-10=-55/674, 3-10=-348/163

NOTES-

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

- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) -0-11-0 to 2-1-0, Interior(1) 2-1-0 to 11-2-0, Exterior(2R) 11-2-0 to 14-2-0, Interior(1) 14-2-0 to 23-3-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=15.0 psf; Pf=11.6 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 4) Unbalanced snow loads have been considered for this design.
- 5) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 11.6 psf on overhangs non-concurrent with other live loads.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 6.
- 9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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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 and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)



Job Truss Truss Type Qty RVF-LOT #17 ROOF 165708188 24-5686-A T05GE COMMON SUPPORTED GAB Job Reference (optional)

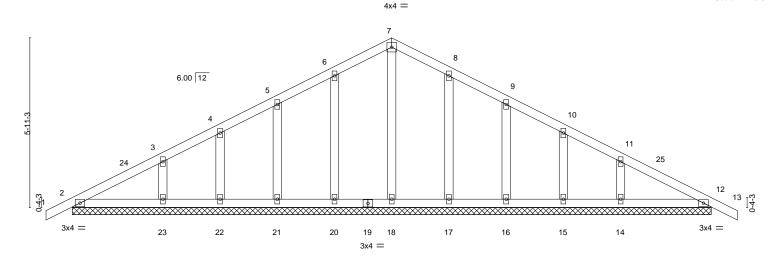
Riverside Roof Truss, LLC, Danville, Va - 24541,

8.730 s Apr 25 2024 MiTek Industries, Inc. Mon May 20 16:21:27 2024 Page 1 ID:Bxl2MwYau_NHkbraGCmHloyOvst-CX2Us?i0dfen8xjldNBNVBDVLVBoJoF1j_?xgJzEYoc

0-11-0 11-2-0 11-2-0

Scale = 1:40.3

0-11-0



-		22-4-0						4
LOADING (psf) TCLL (roof) 20.0 Snow (Pf/Pg) 11.6/15.0 TCDL 10.0 BCLL 0.0 *	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES	CSI. TC 0.10 BC 0.07 WB 0.06	DEFL. Vert(LL) Vert(CT) Horz(CT)	in (loc) 0.00 13 0.00 13 0.00 12	l/defl n/r n/r n/a	L/d 120 120 n/a	PLATES MT20	GRIP 244/190
BCDL 10.0	Code IRC2018/TPI2014	Matrix-S					Weight: 116 lb	FT = 20%

LUMBER-

OTHERS

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

2x4 SP No.3

BRACING-

TOP CHORD BOT CHORD

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

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

REACTIONS. All bearings 22-4-0.

Max Horz 2=-100(LC 14) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 2, 20, 21, 22, 23, 17, 16, 15, 14, 12 Max Grav All reactions 250 lb or less at joint(s) 2, 18, 20, 21, 22, 23, 17, 16, 15, 14, 12

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

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=2ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Corner(3E) -0-11-0 to 2-1-0, Exterior(2N) 2-1-0 to 11-2-0, Corner(3R) 11-2-0 to 14-2-0, Exterior(2N) 14-2-0 to 23-3-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=15.0 psf; Pf=11.6 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 5) Unbalanced snow loads have been considered for this design.
- 6) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 11.6 psf on overhangs non-concurrent with other live loads.
- 7) All plates are 2x4 MT20 unless otherwise indicated.
- 8) Gable requires continuous bottom chord bearing.
- 9) Gable studs spaced at 2-0-0 oc.
- 10) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 11) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 20, 21, 22, 23, 17, 16, 15, 14, 12,
- 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.



May 22,2024

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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Job Truss Truss Type Qty RVF-I OT #17 ROOF 165708189 24-5686-A V01 Valley Job Reference (optional) Riverside Roof Truss, LLC, Danville, Va - 24541, 8.730 s Apr 25 2024 MiTek Industries, Inc. Mon May 20 16:21:28 2024 Page 1 ID:Bxl2MwYau_NHkbraGCmHloyOvst-hkbs4LjfOymem5IxB5ic1OmeVvWX2FnBxeIVCmzEYob 20-2-6 10-1-3 Scale = 1:38.5 4x4 = 7.00 12 15 3 3x4 🖊 3x4 ≥ 11 13 12 16 10 17 3x4 =20-1-15 LOADING (psf) SPACING-2-0-0 DEFL. L/d **PLATES GRIP** CSI. (loc) I/defl TCLL (roof) 20.0 Plate Grip DOL Vert(LL) 244/190 1.15 TC 0.20 n/a n/a 999 MT20 Snow (Pf/Pg) 11.6/15.0

LUMBER-

TCDI

BCLL

BCDL

TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No.2

OTHERS 2x4 SP No.3

All bearings 20-1-8. REACTIONS.

10.0

10.0

0.0

Max Horz 1=-111(LC 14)

Max Uplift All uplift 100 lb or less at joint(s) 1, 7, 12, 13, 9, 8

Lumber DOL

Rep Stress Incr

Code IRC2018/TPI2014

Max Grav All reactions 250 lb or less at joint(s) 1, 7 except 10=369(LC 27), 12=427(LC 27), 13=307(LC 27),

ВС

WB

Matrix-S

0.17

0.11

Vert(CT)

Horz(CT)

BRACING-

TOP CHORD

BOT CHORD

n/a

0.00

999

n/a

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

n/a

n/a

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

9=427(LC 28), 8=307(LC 28)

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

3-12=-268/127, 5-9=-268/127 WEBS

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-6-8 to 3-6-8, Interior(1) 3-6-8 to 10-1-3, Exterior(2R) 10-1-3 to 13-1-3, Interior(1) 13-1-3 to 19-7-14 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=15.0 psf; Pf=11.6 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10

1.15

YES

- 4) Unbalanced snow loads have been considered for this design.
- 5) All plates are 2x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 7, 12, 13, 9, 8.
- 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



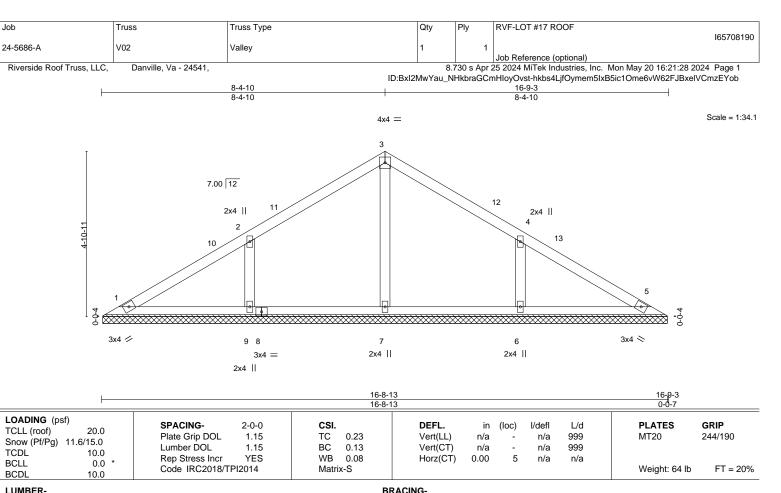
Weight: 82 lb

FT = 20%

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TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x4 SP No.2 2x4 SP No.2

BOT CHORD OTHERS 2x4 SP No.3

REACTIONS. All bearings 16-8-6. Max Horz 1=-91(LC 14)

Max Uplift All uplift 100 lb or less at joint(s) 9, 6

Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 7=251(LC 2), 9=373(LC 33), 6=373(LC 34)

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

2-9=-279/134, 4-6=-279/134 WEBS

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; B=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-6-8 to 3-6-8, Interior(1) 3-6-8 to 8-4-10, Exterior(2R) 8-4-10 to 11-4-10, Interior(1) 11-4-10 to 16-2-11 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=15.0 psf; Pf=11.6 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 4) Unbalanced snow loads have been considered for this design.
- 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) 9, 6.
- 9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



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

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

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Truss Type Qty 165708191 24-5686-A V03 Valley Job Reference (optional) Riverside Roof Truss, LLC, Danville, Va - 24541, 8.730 s Apr 25 2024 MiTek Industries, Inc. Mon May 20 16:21:29 2024 Page 1 ID:Bxl2MwYau_NHkbraGCmHloyOvst-9w9EHhkH9GuVNFt7loDracJpJltSnjtKAHU2lCzEYoa 13-4-1 6-8-1 6-8-1 6-8-1 Scale = 1:25.5 4x4 = 3 7.00 12 10 2x4 || ₄2x4 || ø 8 6 3x4 / 3x4 × 2x4 || 2x4 || 2x4 || 13-3-10 13-4-1 0-0-7 13-3-10 LOADING (psf) SPACING-2-0-0 CSI. DEFL. I/defI L/d **PLATES GRIP** (loc) TCLL (roof) 20.0 Plate Grip DOL Vert(LL) 999 244/190 1.15 TC 0.20 n/a n/a MT20 Snow (Pf/Pg) 11.6/15.0 Lumber DOL 1.15 ВС 0.12 Vert(CT) 999 n/a n/a TCDI 10.0 Rep Stress Incr YES WB 0.06 Horz(CT) 0.00 5 n/a n/a **BCLL** 0.0 Code IRC2018/TPI2014 Matrix-S Weight: 49 lb FT = 20% **BCDL** 10.0 LUMBER-BRACING-

TOP CHORD

BOT CHORD

RVF-LOT #17 ROOF

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

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

Job

Truss

TOP CHORD 2x4 SP No.2 2x4 SP No.2

BOT CHORD **OTHERS** 2x4 SP No.3

REACTIONS. All bearings 13-3-3. Max Horz 1=71(LC 15) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 8, 6

Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 7=276(LC 2), 8=307(LC 20), 6=307(LC 21)

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

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-6-8 to 3-6-8, Interior(1) 3-6-8 to 6-8-1, Exterior(2R) 6-8-1 to 9-8-1, Interior(1) 9-8-1 to 12-9-9 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=15.0 psf; Pf=11.6 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 4) Unbalanced snow loads have been considered for this design.
- 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) 8, 6.
- 9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



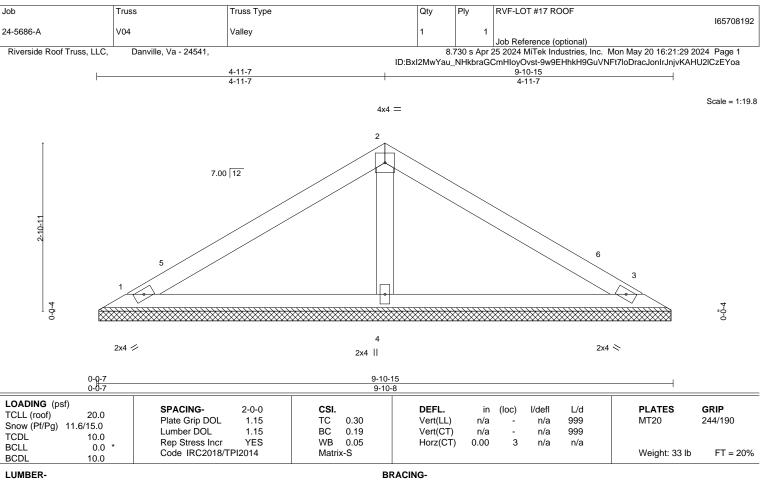


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TOP CHORD

2x4 SP No.2 2x4 SP No.2

BOT CHORD **OTHERS** 2x4 SP No.3

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.

1=9-10-1, 3=9-10-1, 4=9-10-1 (size) Max Horz 1=51(LC 15) Max Uplift 1=-21(LC 16), 3=-21(LC 16)

Max Grav 1=167(LC 2), 3=167(LC 2), 4=372(LC 2)

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

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-6-8 to 3-6-8, Interior(1) 3-6-8 to 4-11-7, Exterior(2R) 4-11-7 to 7-11-7, Interior(1) 7-11-7 to 9-4-7 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=15.0 psf; Pf=11.6 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 4) Unbalanced snow loads have been considered for this design.
- 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, 3.
- 9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

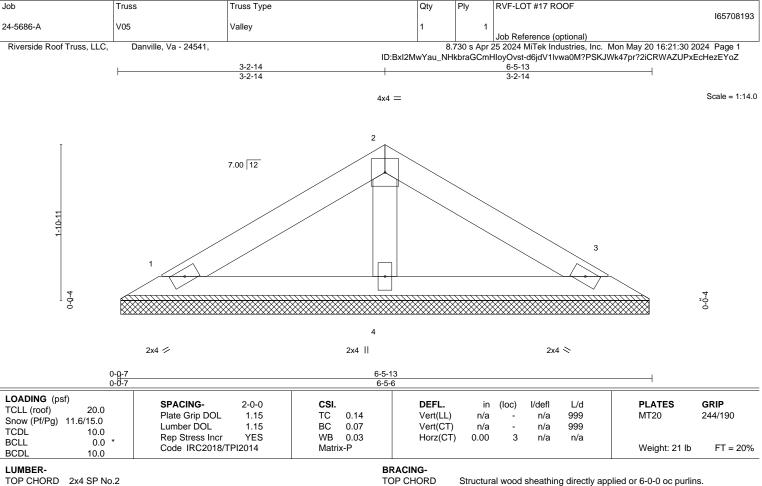


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BOT CHORD

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

TOP CHORD

REACTIONS.

2x4 SP No.2 2x4 SP No.2

BOT CHORD **OTHERS** 2x4 SP No.3

> 1=6-4-15, 3=6-4-15, 4=6-4-15 (size)

Max Horz 1=31(LC 15)

Max Uplift 1=-18(LC 16), 3=-18(LC 16)

Max Grav 1=113(LC 20), 3=113(LC 21), 4=206(LC 2)

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

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=15.0 psf; Pf=11.6 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 4) Unbalanced snow loads have been considered for this design.
- 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, 3.
- 9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

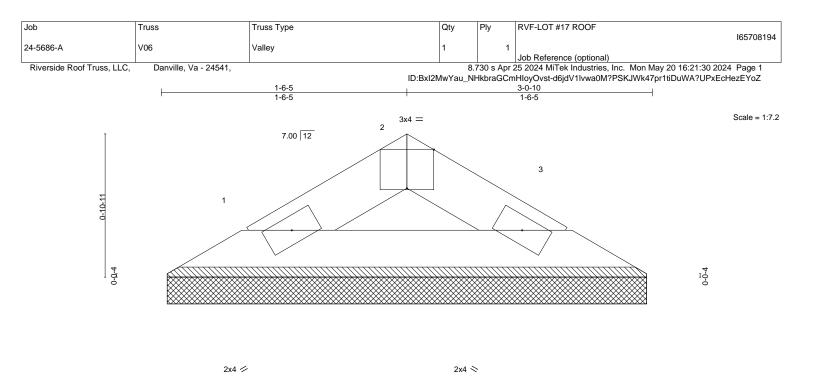


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		3-0-3						0-0-7	
Plate Offsets (X,Y) [2:0-2-0,E	Edge]								
COADING (psf) TCLL (roof) 20.0 Snow (Pf/Pg) 11.6/15.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2018/TPI2014	CSI. TC 0.02 BC 0.04 WB 0.00 Matrix-P	DEFL. Vert(LL) Vert(CT) Horz(CT)	in n/a n/a 0.00	(loc) - - 3	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20 Weight: 8 lb	GRIP 244/190 FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No.2 BRACING-

TOP CHORD **BOT CHORD** Structural wood sheathing directly applied or 3-0-10 oc purlins.

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

REACTIONS.

1=2-11-13, 3=2-11-13 (size) Max Horz 1=11(LC 15) Max Uplift 1=-5(LC 16), 3=-5(LC 16) Max Grav 1=79(LC 2), 3=79(LC 2)

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

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=15.0 psf; Pf=11.6 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 4) Unbalanced snow loads have been considered for this design.
- 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.
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Symbols

PLATE LOCATION AND ORIENTATION



Center plate on joint unless x, y offsets are indicated.
Dimensions are in ft-in-sixteenths.
Apply plates to both sides of truss and fully embed teeth.



For 4 x 2 orientation, locate plates 0- $\frac{1}{16}$ from outside edge of truss.

₹

This symbol indicates the required direction of slots in connector plates.

*Plate location details available in MiTek software or upon request.

PLATE SIZE

4 × 4

The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING LOCATION



Indicated by symbol shown and/or by text in the bracing section of the output. Use T or I bracing if indicated.

BEARING



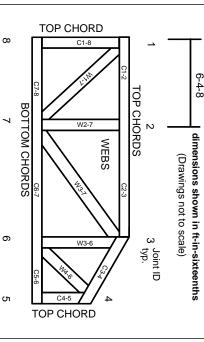
Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number/letter where bearings occur Min size shown is for crushing only.

Industry Standards: ANSI/TPI1: National Design Specification for Metal

DSB-22:

Plate Connected Wood Truss Construction.
Design Standard for Bracing.
Building Component Safety Information,
Guide to Good Practice for Handling,
Installing, Restraining & 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-1988, ESR-2362, ESR-2685, ESR-3282 ESR-4722, ESL-1388

Design General Notes

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. 1/2/2023

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.
- 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.
- 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.
- Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.

9

- Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
- Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
- Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
- Top chords must be sheathed or purlins provided at spacing indicated on design.
- Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
- 15. 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.
- Design assumes manufacture in accordance with ANSI/TPI 1 Quality Criteria.
- The design does not take into account any dynamic or other loads other than those expressly stated.