

Trenco 818 Soundside Rd Edenton, NC 27932

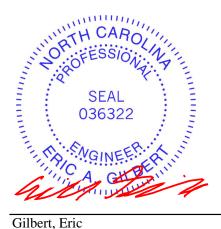
Re: 25-3223-A RVF-LOT #53 ROOF

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

Pages or sheets covered by this seal: I73819832 thru I73819853

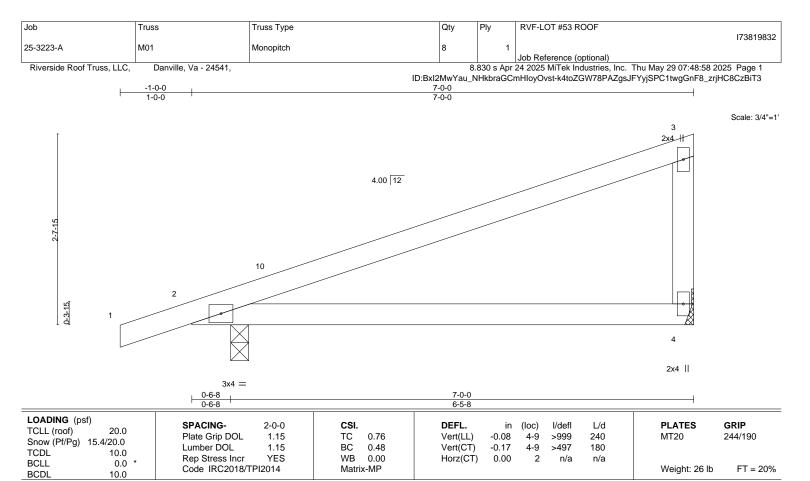
My license renewal date for the state of North Carolina is December 31, 2025.

North Carolina COA: C-0844



May 30,2025

IMPORTANT NOTE: The seal on these truss component designs is a certification that the engineer named is licensed in the jurisdiction(s) identified and that the designs comply with ANSI/TPI 1. These designs are based upon parameters shown (e.g., loads, supports, dimensions, shapes and design codes), which were given to MiTek or TRENCO. Any project specific information included is for MiTek's or TRENCO's customers file reference purpose only, and was not taken into account in the preparation of these 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.



LUMBER-

TOP CHORD BOT CHORD WEBS

2x4 SP No 2 2x4 SP No.2 2x4 SP No.3

BRACING-TOP CHORD

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

REACTIONS. (size) 4=Mechanical, 2=0-3-0 Max Horz 2=86(LC 15) Max Uplift 4=-12(LC 16), 2=-52(LC 16) Max Grav 4=287(LC 21), 2=383(LC 21)

FORCES. (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) 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) -1-0-0 to 2-0-0, Interior(1) 2-0-0 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

3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 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

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 15.4 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.

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

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

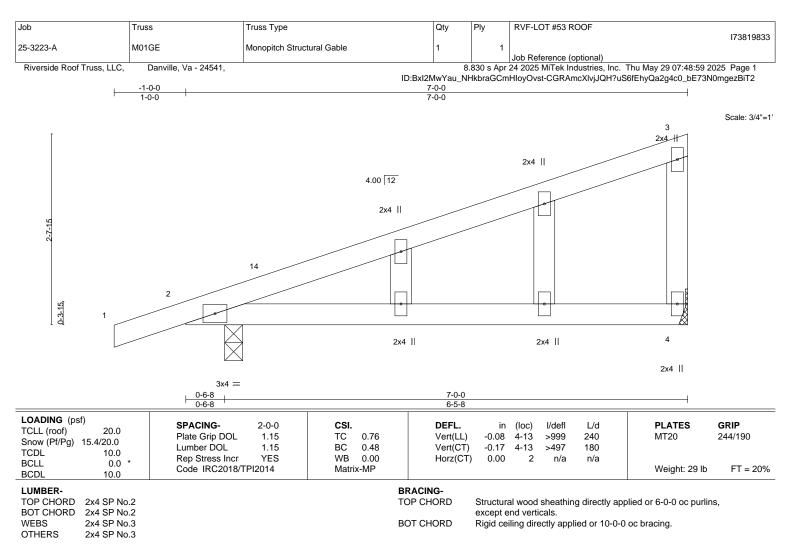
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 12 lb uplift at joint 4 and 52 lb uplift at joint 2.

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.



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 bilding 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)

818 Soundside Road



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

Max Horz 2=86(LC 15)

Max Uplift 4=-12(LC 16), 2=-52(LC 16) Max Grav 4=287(LC 21), 2=383(LC 21)

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

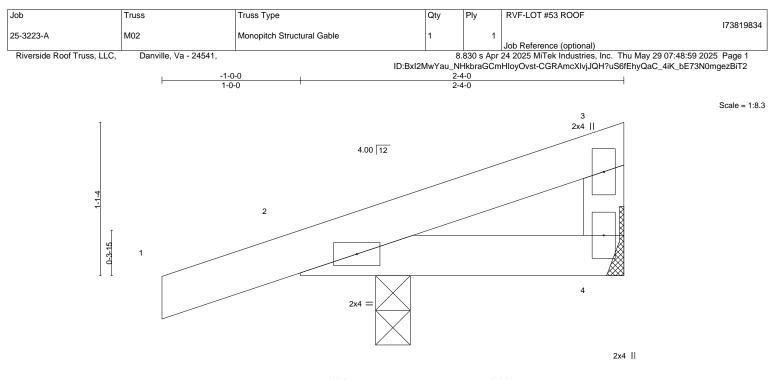
NOTES-

- 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) -1-0-0 to 2-0-0, Interior(1) 2-0-0 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
- 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=20.0 psf; Pf=15.4 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 15.4 psf on overhangs non-concurrent with other live loads.
- 7) Gable studs spaced at 2-0-0 oc.
- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 10) Refer to girder(s) for truss to truss connections.
- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 12 lb uplift at joint 4 and 52 lb uplift at joint 2.
- 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.

SEAL 036322 May 30,2025

> TRENCO A MiTek Affiliate

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		<u>0-6-8</u> + −−−	<u> </u>	4
LOADING (psf) TCLL (roof) 20.0 Snow (Pf/Pg) 15.4/20.0 TCDL 10.0 BCLL 0.0 *	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2018/TPI2014	CSI. TC 0.10 BC 0.07 WB 0.00 Matrix-MP	DEFL. in (loc) l/defl L/d Vert(LL) -0.00 5 >999 240 Vert(CT) -0.00 5 >999 180 Horz(CT) 0.00 4 n/a n/a	PLATES GRIP MT20 244/190 Weight: 10 lb FT = 20%
BCDL 10.0			ACING-	

LUMBER-

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

TOP CHORD Structural wood sheathing directly applied or 2-4-0 oc purlins, except end verticals. BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. 4=Mechanical, 2=0-3-0 (size) Max Horz 2=31(LC 15) Max Uplift 4=-3(LC 20), 2=-59(LC 16) Max Grav 4=31(LC 7), 2=244(LC 21)

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

NOTES-

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

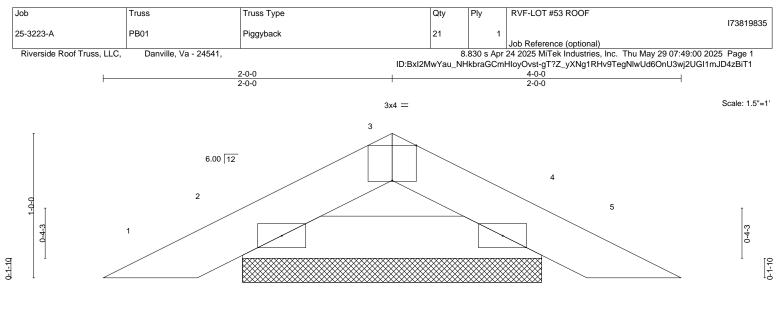
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

3) 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=20.0 psf; Pf=15.4 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 15.4 psf on overhangs non-concurrent with other live loads.
- Gable studs spaced at 2-0-0 oc.
- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide 9) will fit between the bottom chord and any other members.
- 10) Refer to girder(s) for truss to truss connections.
- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 3 lb uplift at joint 4 and 59 lb uplift at joint 2.
- 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.



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2x4 =

2x4 =

L		4-0-0						
		4-0-0						
Plate Offsets (X,Y) [3:0-2-0),Edge]							
LOADING (psf) TCLL (roof) 20.0 Snow (Pf/Pg) 15.4/20.0 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 0.03 BC 0.05 WB 0.00	- ()	-0.00	/defl n/r n/r n/a	L/d 120 120 n/a	PLATES MT20	GRIP 244/190
BCLL 0.0 * BCDL 10.0	Code IRC2018/TPI2014	Matrix-P					Weight: 10 lb	FT = 20%
LUMBER-		BR	ACING-					

TOP CHORD

BOT CHORD

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

REACTIONS. 2=2-0-14, 4=2-0-14 (size) Max Horz 2=14(LC 15) Max Uplift 2=-25(LC 16), 4=-25(LC 16) Max Grav 2=128(LC 21), 4=128(LC 22)

FORCES. (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) 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=20.0 psf; Pf=15.4 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 15.4 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 25 lb uplift at joint 2 and 25 lb uplift at joint 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.

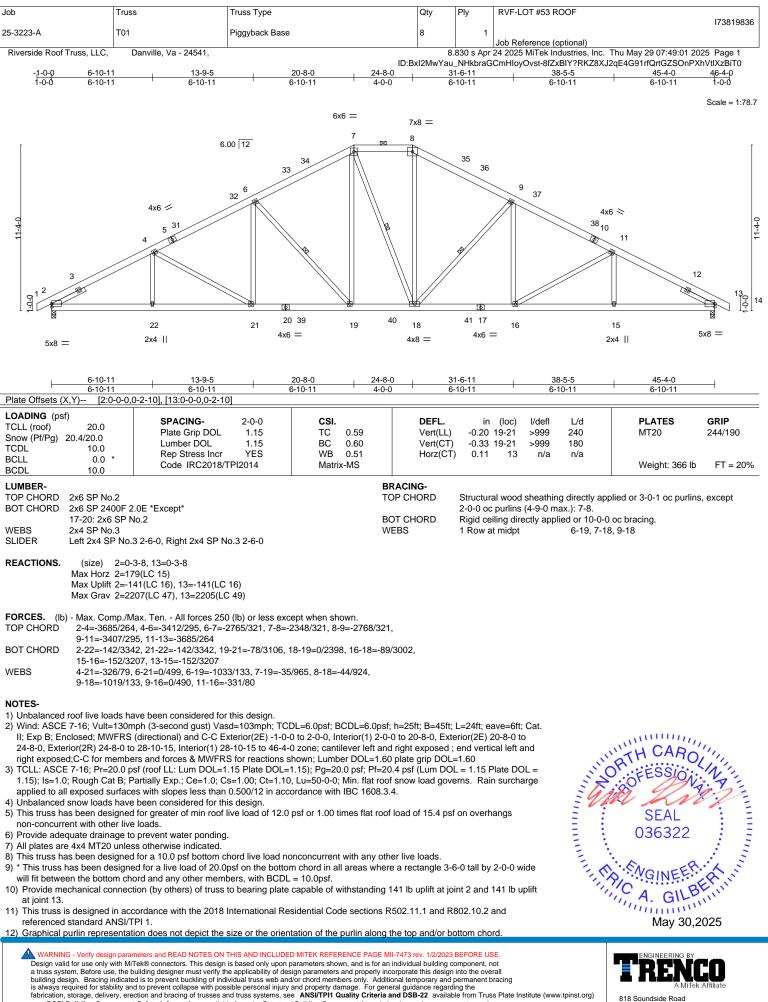
11) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



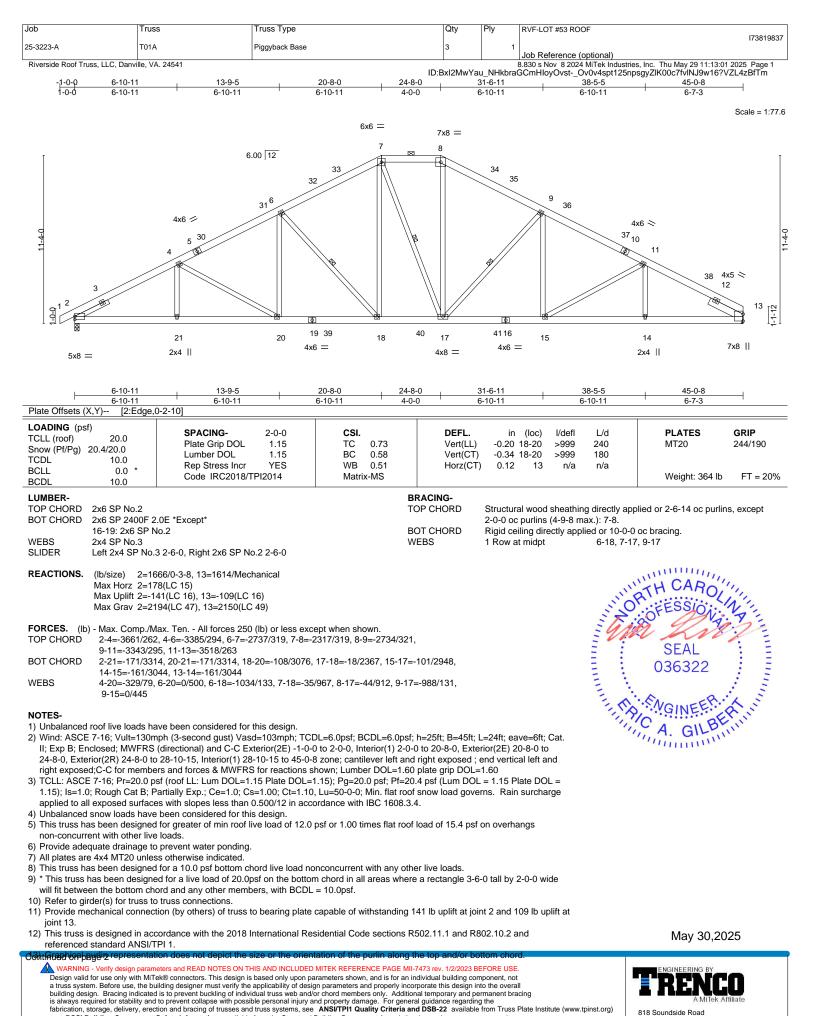
Structural wood sheathing directly applied or 4-0-0 oc purlins.

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

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818 Soundside Road

Job	Truss	Truss Type	Qty	Ply	RVF-LOT #53 ROOF
25-3223-A	T01A	Piggyback Base	3	1	173819837
23-3223-7		riggyback base	5	'	Job Reference (optional)

Riverside Roof Truss, LLC, Danville, VA. 24541

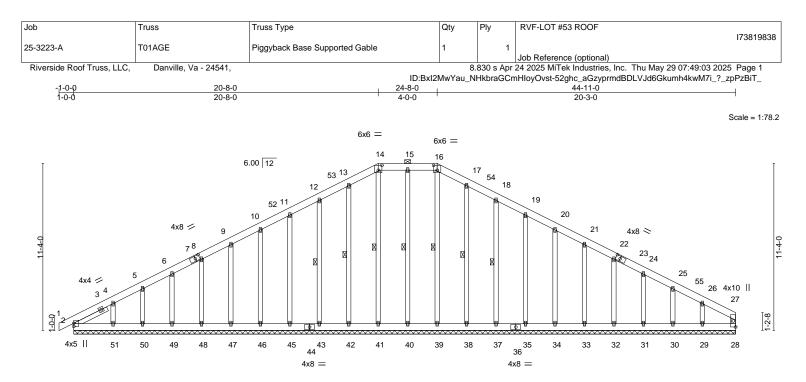
8.830 s Nov 8 2024 MiTek Industries, Inc. Thu May 29 11:13:01 2025 Page 2 ID:BxI2MwYau_NHkbraGCmHloyOvst-_Ov0v4spt125npsgyZlK00c7fvINJ9w16?VZL4zBfTm

LOAD CASE(S) Standard



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L			4	4-11-0						
			4	4-11-0						1
Plate Offsets (2	X,Y) [7:0-3-8,0-2-0	0], [14:0-3-0,0-4-0], [16:0-3-0,0-4-0	0], [23:0-3-8,0-2-0]							
LOADING (ps TCLL (roof) Snow (Pf/Pg) TCDL BCLL BCDL	20.0	SPACING-2-0-0Plate Grip DOL1.15Lumber DOL1.15Rep Stress IncrYESCodeIRC2018/TPI2014	CSI. TC 0.11 BC 0.04 WB 0.20 Matrix-S	DEFL. Vert(LL) Vert(CT) Horz(CT)	in -0.00 0.00 0.00	(loc) 1 1 28	l/defl n/r n/r n/a	L/d 120 120 n/a	PLATES MT20 Weight: 421 lb	GRIP 244/190 FT = 20%
LUMBER-				BRACING-						
TOP CHORD	2x6 SP No.2			TOP CHORD	Structura	al wood	sheathin	g directly ap	plied or 6-0-0 oc purlins	3,
BOT CHORD	2x6 SP No.2				except e	nd verti	cals, and	2-0-0 oc pu	rlins (6-0-0 max.): 14-16	6.
WEBS	2x4 SP No.3			BOT CHORD	Rigid ce	iling dire	ectly appl	ied or 10-0-0) oc bracing.	
OTHERS	2x4 SP No.3			WEBS	1 Row a	t midpt		16-39, 15	5-40, 14-41, 13-42, 12-4	13, 17-38,
SLIDER	Left 2x4 SP No.3 2-	6-0						18-37		

REACTIONS. All bearings 44-11-0. (lb) -

Max Horz 2=194(LC 15)

Max Uplift All uplift 100 lb or less at joint(s) 2, 42, 43, 45, 46, 47, 48, 49, 50, 51, 38, 37, 35, 34, 33, 32, 31, 30, 29

Max Grav All reactions 250 lb or less at joint(s) 28, 2, 39, 40, 41, 42, 43, 45, 46, 47, 48, 49, 50, 51, 38, 37, 35, 34, 33, 32, 31, 30, 29

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

TOP CHORD 11-12=-114/265, 12-13=-131/312, 13-14=-145/351, 14-15=-130/334, 15-16=-130/334, 16-17=-145/351, 17-18=-131/312, 18-19=-114/265

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) -1-0-0 to 2-0-0, Exterior(2N) 2-0-0 to 20-8-0, Corner(3R) 20-8-0 to 23-8-0. Exterior(2N) 23-8-0 to 24-8-0. Corner(3R) 24-8-0 to 27-8-0. Exterior(2N) 27-8-0 to 44-9-4 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

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=20.0 psf; Pf=20.4 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 15.4 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 12) 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, 43, 45, 46, Continue 8049 21, 38, 37, 35, 34, 33, 32, 31, 30, 29

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Job	Truss	Truss Type	Qty	Ply	RVF-LOT #53 ROOF
					173819838
25-3223-A	T01AGE	Piggyback Base Supported Gable	1	1	
					Job Reference (optional)
Riverside Roof Truss, LLC,	Danville, Va - 24541,		8.	830 s Apr	24 2025 MiTek Industries, Inc. Thu May 29 07:49:04 2025 Page 2
		ID:Bxl2	MwYau_N	HkbraGCn	nHloyOvst-ZEE3qKbukFxiOnmPvDqsfTH3W5QzfpNsDfkXLszBiSz

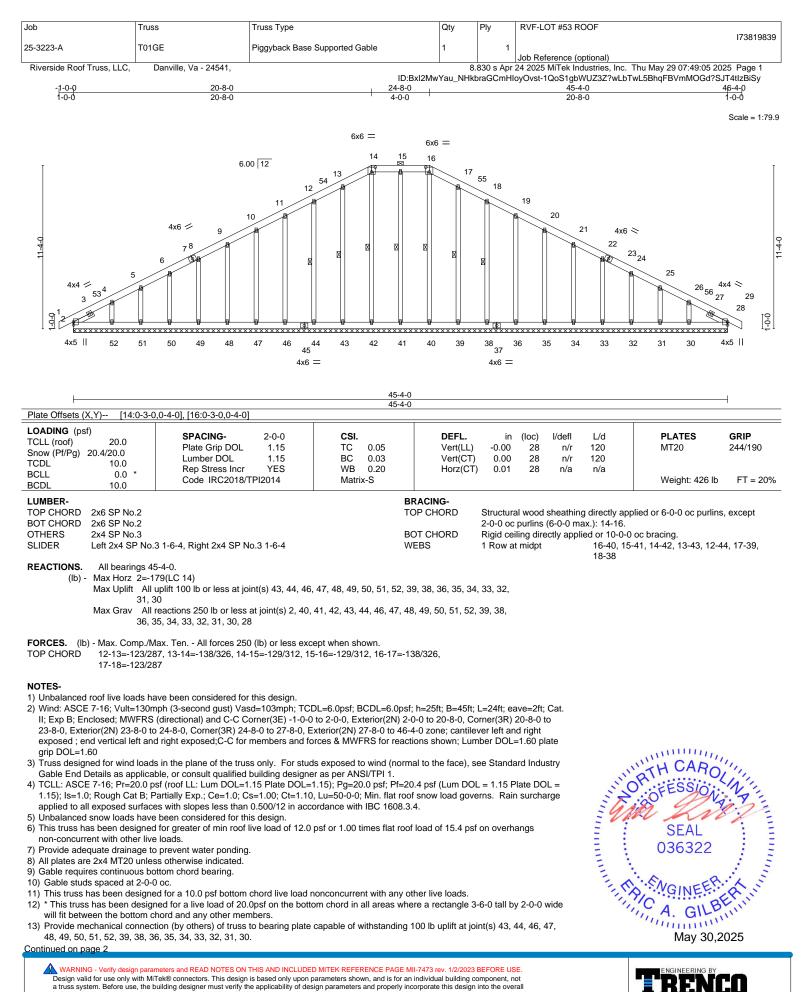
NOTES-

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.



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A MiTe st.org) 818 Soundside Road Edenton, NC 27932

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Job	Truss	Truss Type	Qty	Ply	RVF-LOT #53 ROOF
					173819839
25-3223-A	T01GE	Piggyback Base Supported Gable	1	1	
					Job Reference (optional)
Riverside Roof Truss, LLC,	Danville, Va - 24541,		8.	830 s Apr	24 2025 MiTek Industries, Inc. Thu May 29 07:49:06 2025 Page 2
		ID:Bxl2	MwYau_N	HkbraGC	mHloyOvst-VcMqE?c8FtBQd4wo0dsKkuMQxu6b7jt8gzDePkzBiSx

NOTES-

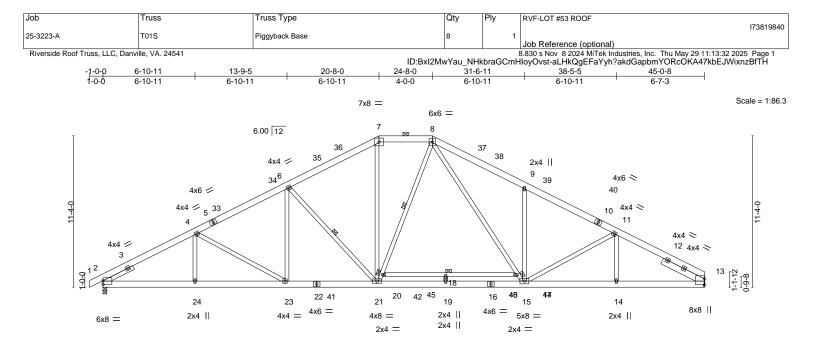
14) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

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



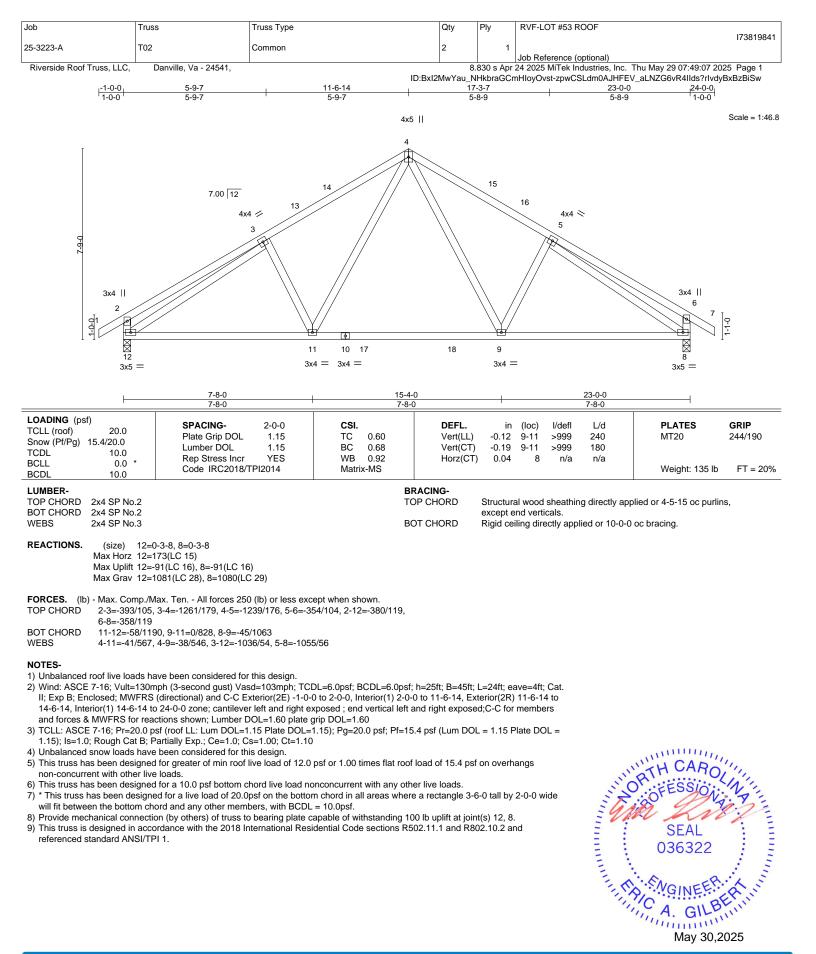
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, 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/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)





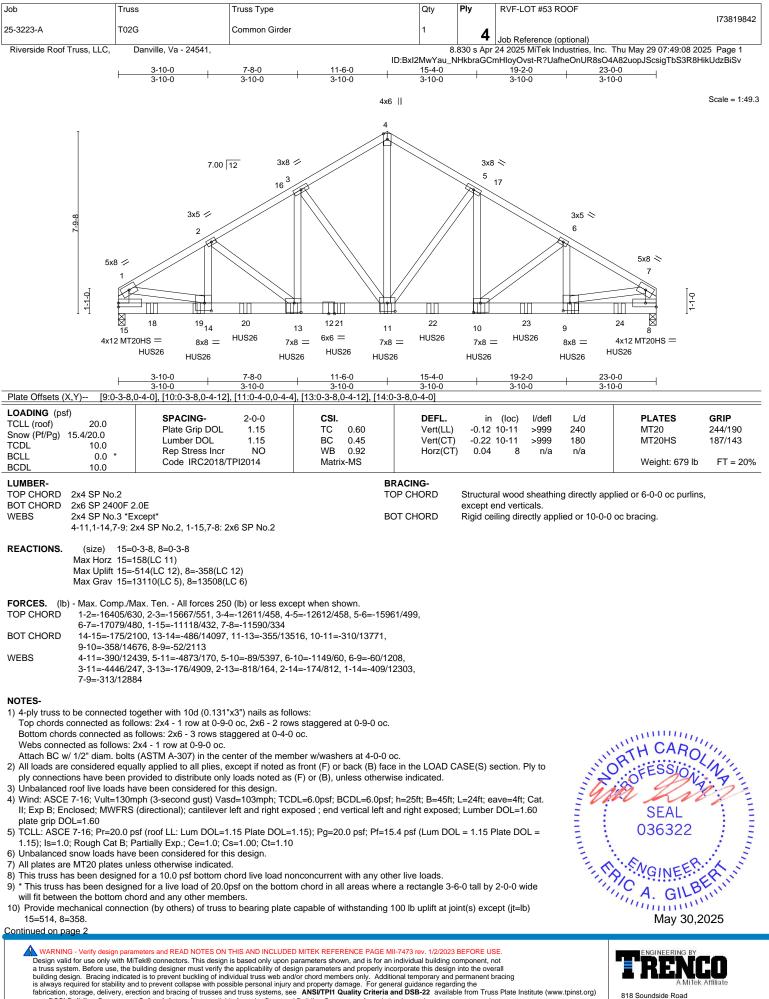
F	<u>6-10-11</u> 6-10-11	13-9-5	20-8-0 6-10-11		1-6-11	38-5-5	45-0-8	
Plate Offsets (X,Y)-			5-10-11	0.0-0 0.	10 11	0 10-11	0-1-0	
LOADING (psf) TCLL (roof) Snow (Pf/Pg) 20.4/ TCDL BCLL BCDL	20.0 1/20.0 10.0 0.0 * 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2018/TPI2014	CSI. TC 0.68 BC 0.61 WB 0.76 Matrix-MS	DEFL. Vert(LL) Vert(CT Horz(CT) -0.62 17-18	l/defl L/d >999 240 >874 180 n/a n/a	PLATES MT20 Weight: 371 lb	GRIP 244/190 FT = 20%
LUMBER- TOP CHORD 2x6 BOT CHORD 2x6 17-2 WEBS 2x4 SLIDER Left REACTIONS. (Ib/ Ma Ma	5 SP No.2 5 SP 2400F 2.01 20: 2x4 SP No.3 t 2x4 SP No.3 2 /size) 2=1752 ax Horz 2=178(ax Uplift 2=-89(1	.2 2-6-0, Right 2x6 SP No.2 3-6-0 2/0-3-8, 13=1732/Mechanical		BRACING- TOP CHORD BOT CHORD WEBS JOINTS	2-0-0 oc purlins	s (4-4-11 max.): 7-8. rectly applied or 10-0 6-21, 8	0-0 oc bracing.	s, except
TOP CHORD 2- 9- BOT CHORD 2- 12 WEBS 4-	-4=-4043/161, 4 -11=-3933/133, -24=-83/3649, 2 4-15=-55/3443, -23=-320/83, 6-	x. Ten All forces 250 (lb) or less 4-6=-3767/191, 6-7=-3213/194, 7 , 11-13=-3962/141 23-24=-83/3649, 21-23=-17/3419 , 13-14=-55/3443 -23=0/364, 6-21=-910/162, 7-21= 15-17=-98/1503, 9-15=-716/191,	-8=-2743/210, 8-9=-402 , 19-21=0/2699, 15-19= 0/1130, 20-21=-160/277	0/2699,				
 Wind: ASCE 7-16 II; Exp B; Encloss 24-8-0, Exterior(2 right exposed;C-1 TCLL: ASCE 7-11 1.15); Is=1.0; Ro applied to all exp 4) Unbalanced snow This truss has be non-concurrent w Provide adequate 7) This truss has be will fit between th Refer to girder(s) Provide mechar joint 13. This truss is det referenced stan 	6; Vult=130mpł ed; MWFRS (d 2R) 24-8-0 to 2 2C for members 16; Pr=20.0 psf bugh Cat B; Par bosed surfaces w loads have b een designed fo with other live lo te drainage to p een designed fo been designed fo been designed he bottom choro) for truss to tru inical connection esigned in accor mdard ANSI/TPI	prevent water ponding. or a 10.0 psf bottom chord live los for a live load of 20.0psf on the b d and any other members, with B uss connections. in (by others) of truss to bearing p rdance with the 2018 International	TCDL=6.0psf; BCDL=6 1-0-0 to 2-0-0, Interior(1 5-0-8 zone; cantilever le ins shown; Lumber DOL DL=1.15); Pg=20.0 psf; 1.10, Lu=50-0-0; Min. fl accordance with IBC 10 12.0 psf or 1.00 times fla ad nonconcurrent with ai ottom chord in all areas CDL = 10.0psf. late capable of withstar I Residential Code secti	 i) 2-0-0 to 20-8-0, Ext and right exposed; and right exposed; and right exposed; and roof snow load goven to a solution of the solution of	erior(2E) 20-8-0 ti end vertical left a =1.60 L = 1.15 Plate DC erns. Rain surcha f on overhangs 6-0 tall by 2-0-0 w ht 2 and 38 lb upli 802.10.2 and	o and DL = arge	SEAL 036322	A A A A A A A A A A A A A A A A A A A
Design valid for us a truss system. Be building design. B is always required	se only with MiTek® efore use, the buildi Bracing indicated is d for stability and to	ers and READ NOTES ON THIS AND INCL ® connectors. This design is based only u ing designer must verify the applicability of to prevent buckling of individual truss wel prevent collapse with possible personal in and breging of trunger god trues eventor	oon parameters shown, and is f design parameters and prope and/or chord members only. jury and property damage. For	for an individual building co erly incorporate this design i Additional temporary and p or general guidance regarding	mponent, not into the overall ermanent bracing ng the	titude (unus triant a)		D ffiliate

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/TPI Quality Criteria and DSE-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)



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and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)

Job	Truss	Truss Type	Qty	Ply	RVF-LOT #53 ROOF
					173819842
25-3223-A	T02G	Common Girder	1	1	
				4	Job Reference (optional)
Riverside Roof Truss, LLC,	Danville, Va - 24541,		8	.830 s Apr	24 2025 MiTek Industries, Inc. Thu May 29 07:49:09 2025 Page 2
		ID:Bx	d2MwYau	NHkbraG	CmHloyOvst-vB2yt1e1YoZ?UYfNimQ1MX_nb60iKvlbNxRI03zBiSu

NOTES-

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

12) Use Simpson Strong-Tie HUS26 (14-10d Girder, 6-10d Truss) or equivalent spaced at 2-0-0 oc max. starting at 1-5-4 from the left end to 15-5-4 to connect truss(es) to front face of bottom chord.

13) Use Simpson Strong-Tie HUS26 (14-10d Girder, 6-10d Truss) or equivalent spaced at 2-0-0 oc max. starting at 17-5-4 from the left end to 21-5-4 to connect truss(es) to front face of bottom chord.

14) 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: 1-4=-51, 4-7=-51, 8-15=-20

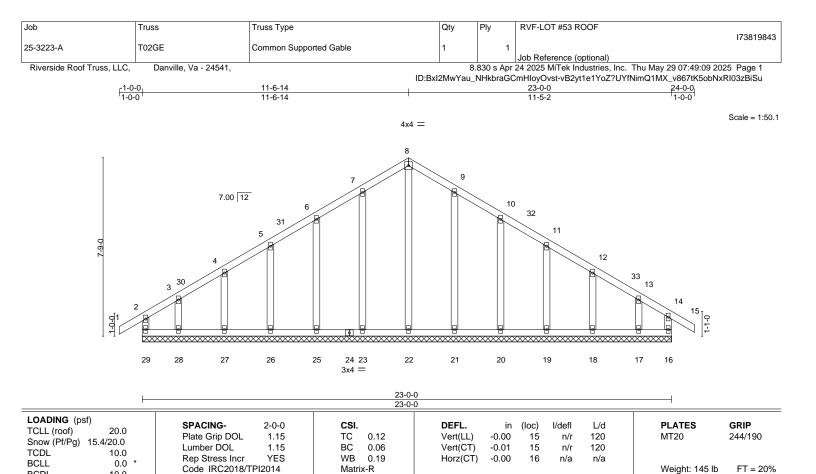
Concentrated Loads (lb)

Vert: 11=-2083(F) 10=-2083(F) 9=-2083(F) 13=-2083(F) 13=-1965(F) 19=-1965(F) 20=-1965(F) 21=-2083(F) 22=-2083(F) 23=-2083(F) 24=-2083(F) 2



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BRACING-

TOP CHORD

BOT CHORD

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

BCDL

WEBS

OTHERS

LUMBER-

TOP CHORD

BOT CHORD

REACTIONS.

(lb) -

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) -1-0-0 to 2-0-0, Exterior(2N) 2-0-0 to 11-6-14, Corner(3R) 11-6-14 to 14-6-14, Exterior(2N) 14-6-14 to 24-0-0 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

Max Uplift All uplift 100 lb or less at joint(s) 29, 16, 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

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=20.0 psf; Pf=15.4 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 15.4 psf on overhangs non-concurrent with other live loads.

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

10.0

2x4 SP No.2

2x4 SP No.2

2x4 SP No.3

2x4 SP No.3

All bearings 23-0-0. Max Horz 29=173(LC 15)

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 12) 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, 16, 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.



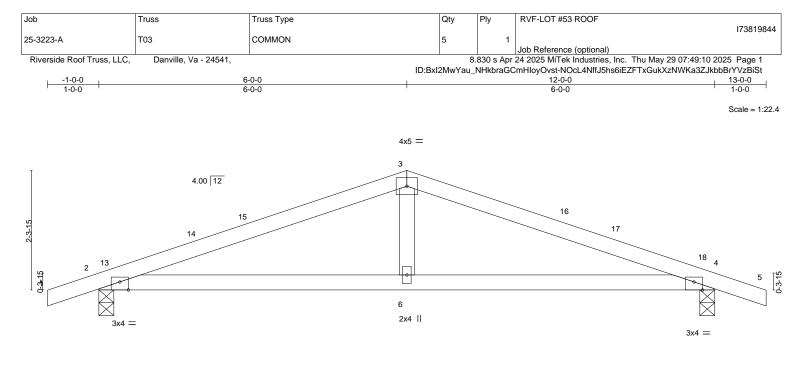
Structural wood sheathing directly applied or 6-0-0 oc purlins,

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

except end verticals.

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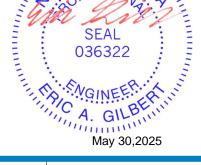
818 Soundside Road



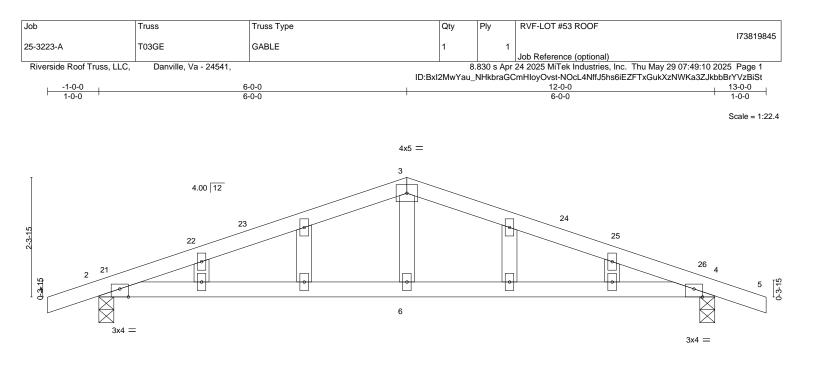
L	6-0-0				12-0-0			
Plate Offsets (X,Y) [2:0-2-0,	6-0-0 Edge], [4:0-2-0,Edge]	Ι			6-0-0		I	
	Edgej, [4.0-2-0,Edge]		1				1	
LOADING (psf) TCLL (roof) 20.0 Snow (Pf/Pg) 15.4/20.0 TCDL 10.0 BCLL 0.0 *	SPACING-2-0-0Plate Grip DOL1.15Lumber DOL1.15Rep Stress IncrYES	CSI. TC 0.54 BC 0.60 WB 0.11	DEFL. Vert(LL) Vert(CT) Horz(CT)	in (lo -0.07 6-1 -0.11 6-1 0.01	2 >999	L/d 240 180 n/a	PLATES MT20	GRIP 244/190
BCDL 10.0	Code IRC2018/TPI2014	Matrix-MS					Weight: 43 lb	FT = 20%
LUMBER- TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No.2 WEBS 2x4 SP No.3 REACTIONS. (size) 2=0-	3-8 4 <u>-</u> 0-3-8	Т				ng directly app lied or 10-0-0	blied or 5-3-8 oc purlin oc bracing.	IS.
Max Horz 2=-2 Max Uplift 2=-6 Max Grav 2=54	4(LC 14) 1(LC 16), 4=-61(LC 16) 13(LC 21), 4=543(LC 22) lax. Ten All forces 250 (lb) or less exc 3-4=-888/291	ept when shown.						
 WEBS 3-6=0/276 NOTES- 1) Unbalanced roof live loads ha 2) Wind: ASCE 7-16; Vult=130n II; Exp B; Enclosed; MWFRS Interior(1) 9-0-0 to 13-0-0 zor MWFRS for reactions shown; 3) TCLL: ASCE 7-16; Pr=20.0 p 1.15); Is=1.0; Rough Cat B; F 4) Unbalanced snow loads have 5) This truss has been designed non-concurrent with other live 6) This truss has been designed non-concurrent with other live 6) This truss has been designed will fit between the bottom choose 	ave been considered for this design. ph (3-second gust) Vasd=103mph; TCI (directional) and C-C Exterior(2E) -1-0- le; cantilever left and right exposed; en- Lumber DOL=1.60 plate grip DOL=1.60 sf (roof LL: Lum DOL=1.15 Plate DOL= 'artially Exp.; Ce=1.0; Cs=1.00; Ct=1.10 been considered for this design. I for greater of min roof live load of 12.0 e loads. I for a 10.0 psf bottom chord live load no ed for a live load of 20.0psf on the bottom) to 2-0-0, Interior(1) 2-0- d vertical left and right ex) 1.15); Pg=20.0 psf; Pf=1 psf or 1.00 times flat root nconcurrent with any oth n chord in all areas wher	0 to 6-0-0, Exterio posed;C-C for me 5.4 psf (Lum DOL = f load of 15.4 psf o her live loads. e a rectangle 3-6-0	or(2R) 6-0-0 f mbers and fe = 1.15 Plate on overhangs 0 tall by 2-0-	o 9-0-0, prces &		TH CARC	N.N.P.

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.



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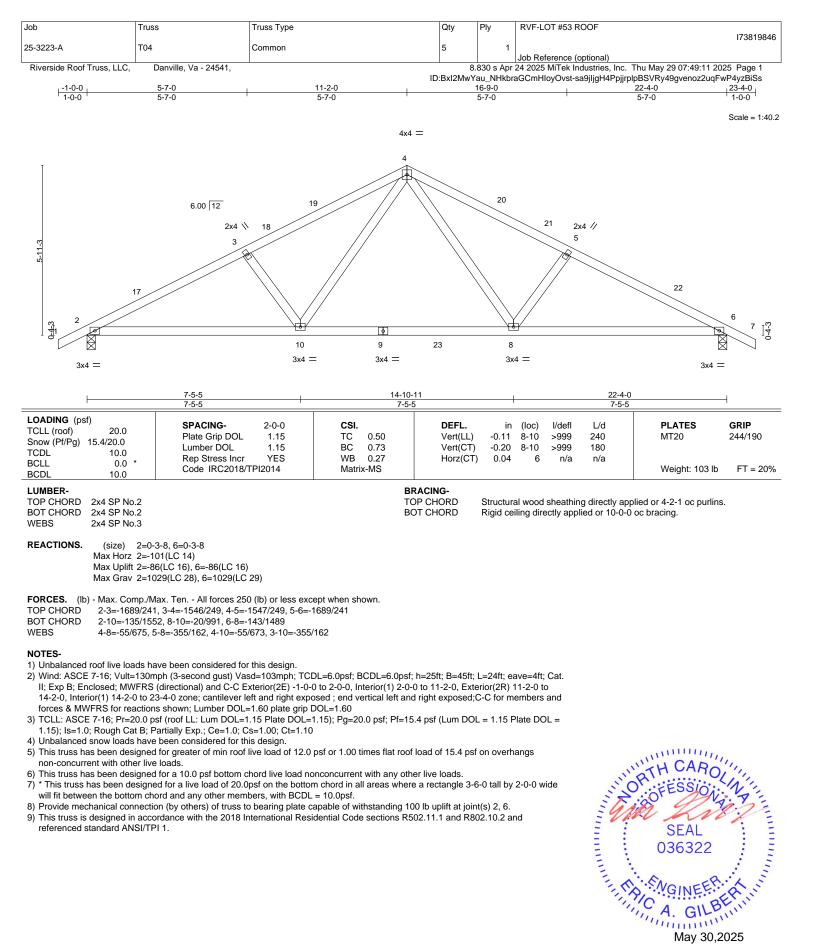


 	<u>6-0-0</u> 6-0-0		-		<u>12-0-0</u> 6-0-0		
Plate Offsets (X,Y) [2:0-2-0	,Edge], [4:0-2-0,Edge]				000		
LOADING (psf) TCLL (roof) 20.0 Snow (Pf/Pg) 15.4/20.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING-2-0-0Plate Grip DOL1.15Lumber DOL1.15Rep Stress IncrYESCode IRC2018/TPI2014	CSI. TC 0.54 BC 0.60 WB 0.11 Matrix-MS	DEFL. Vert(LL) Vert(CT) Horz(CT)	in (loc) -0.07 6-20 -0.11 6-20 0.01 4	>999 2 >999 1	L/d PLATES 240 MT20 180 n/a Weight: 47 lb	GRIP 244/190 FT = 20%
LUMBER-TOP CHORD2x4 SP No.2BOT CHORD2x4 SP No.2WEBS2x4 SP No.3OTHERS2x4 SP No.3						irectly applied or 5-3-8 oc purli or 10-0-0 oc bracing.	ns.
Max Horz 2=2 Max Uplift 2=-0	3-8, 4=0-3-8 !4(LC 15) 61(LC 16), 4=-61(LC 16) !43(LC 21), 4=543(LC 22)						
TOP CHORD 2-3=-888/291	Max. Ten All forces 250 (lb) or less exc , 3-4=-888/291 9, 4-6=-193/810	ept 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) -1-0-0 to 2-0-0, Interior(1) 2-0-0 to 6-0-0, Exterior(2R) 6-0-0 to 9-0-0, Interior(1) 9-0-0 to 13-0-0 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=20.0 psf; Pf=15.4 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 15.4 psf on overhangs non-concurrent with other live loads.
- 7) All plates are 2x4 MT20 unless otherwise indicated.
- 8) Gable studs spaced at 2-0-0 oc.
- 9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 10) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 4. 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.

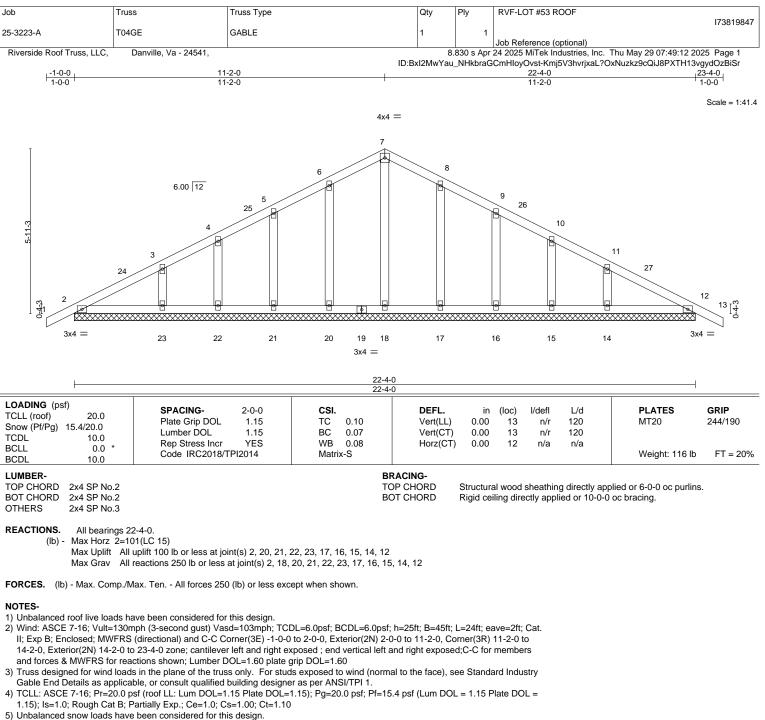


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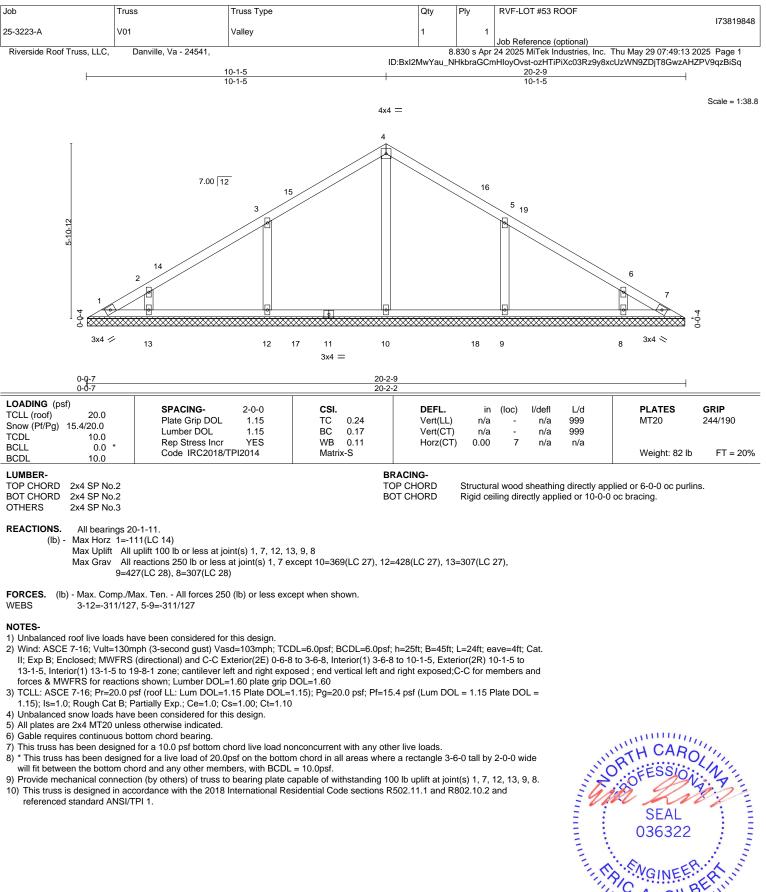




- 6) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- 7) All plates are 2x4 MT20 unless otherwise indicated.
- 8) Gable requires continuous bottom chord bearing.
- 9) Gable studs spaced 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.



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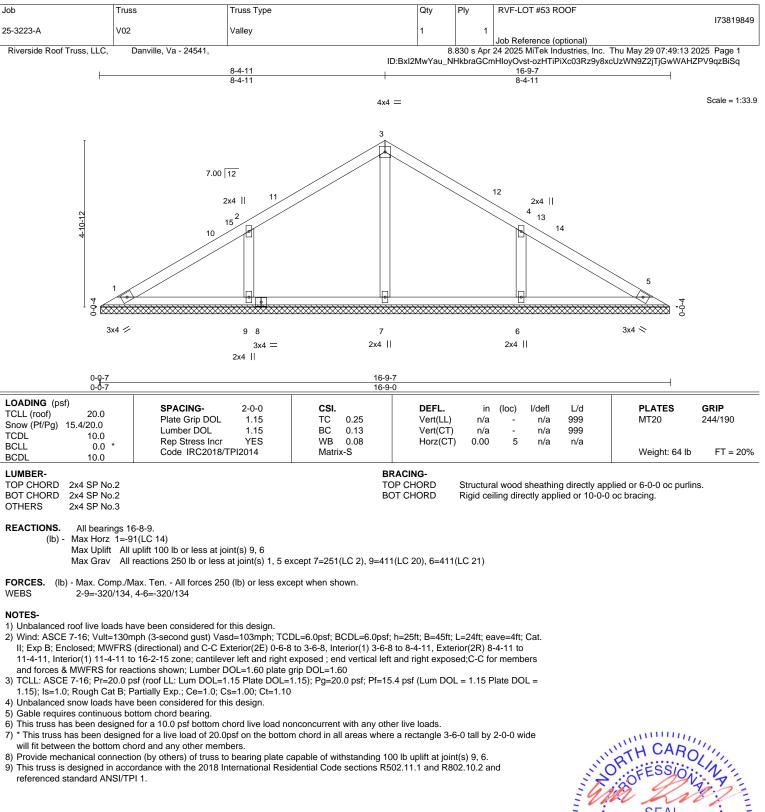




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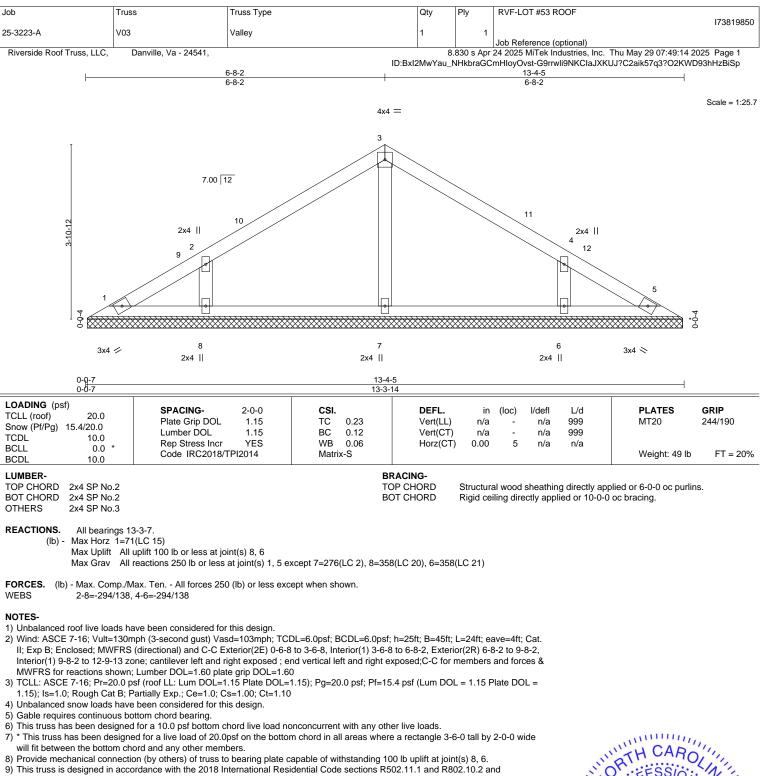
818 Soundside Road

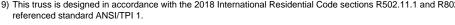




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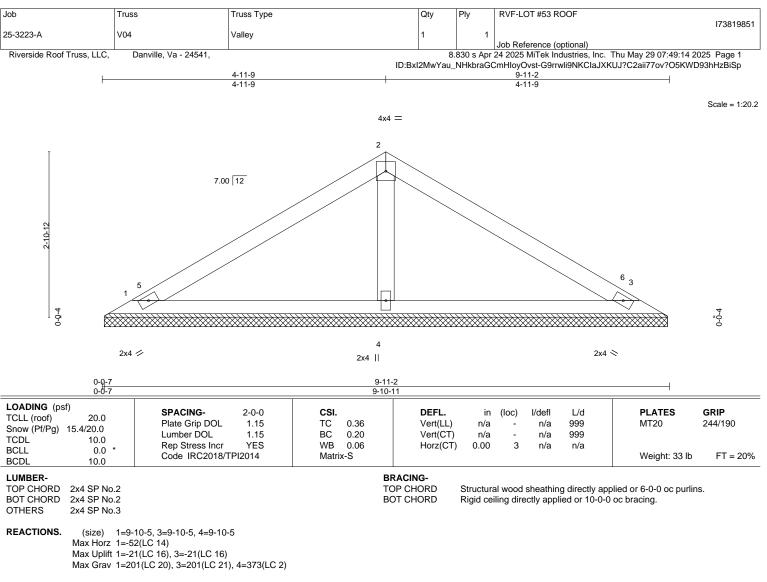
TRENCO A MiTek Affilia







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FORCES. (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) 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 4-11-9, Exterior(2R) 4-11-9 to 7-11-9, Interior(1) 7-11-9 to 9-4-10 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=20.0 psf; Pf=15.4 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.

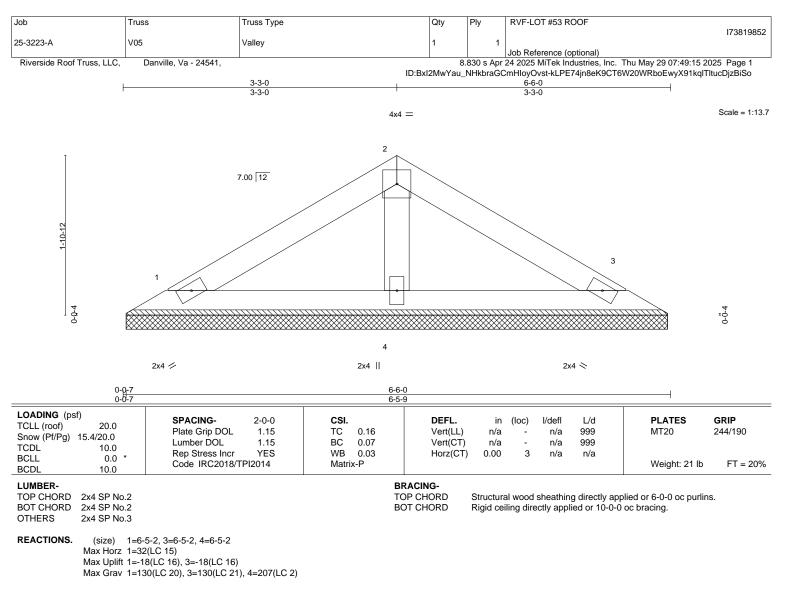
7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.

8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.

 This truss 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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NOTES-

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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=20.0 psf; Pf=15.4 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.

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

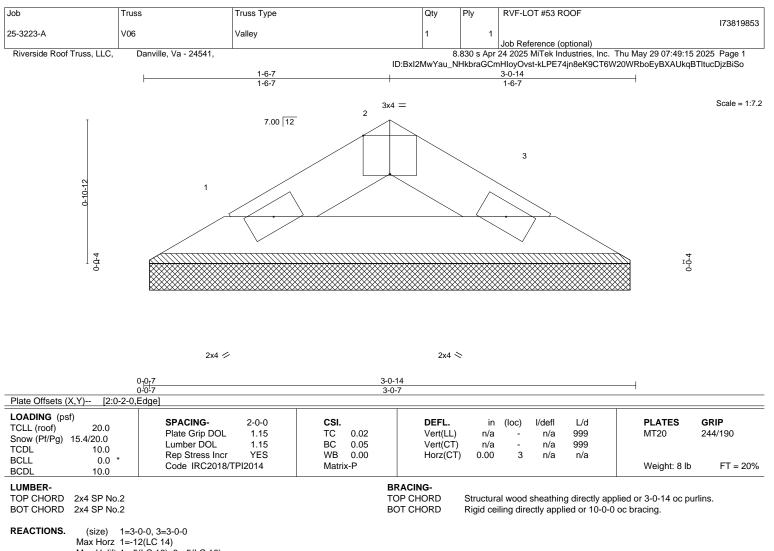
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.

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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A MITEK Affilia 818 Soundside Road



Max Uplift 1=-5(LC 16), 3=-5(LC 16)

Max Grav 1=80(LC 2), 3=80(LC 2)

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

NOTES-

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

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3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 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.

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

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