

Trenco
818 Soundside Rd
Edenton, NC 27932

Re: 25-3407-B
CLB-LOT #5 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: I74047357 thru I74047382

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

North Carolina COA: C-0844



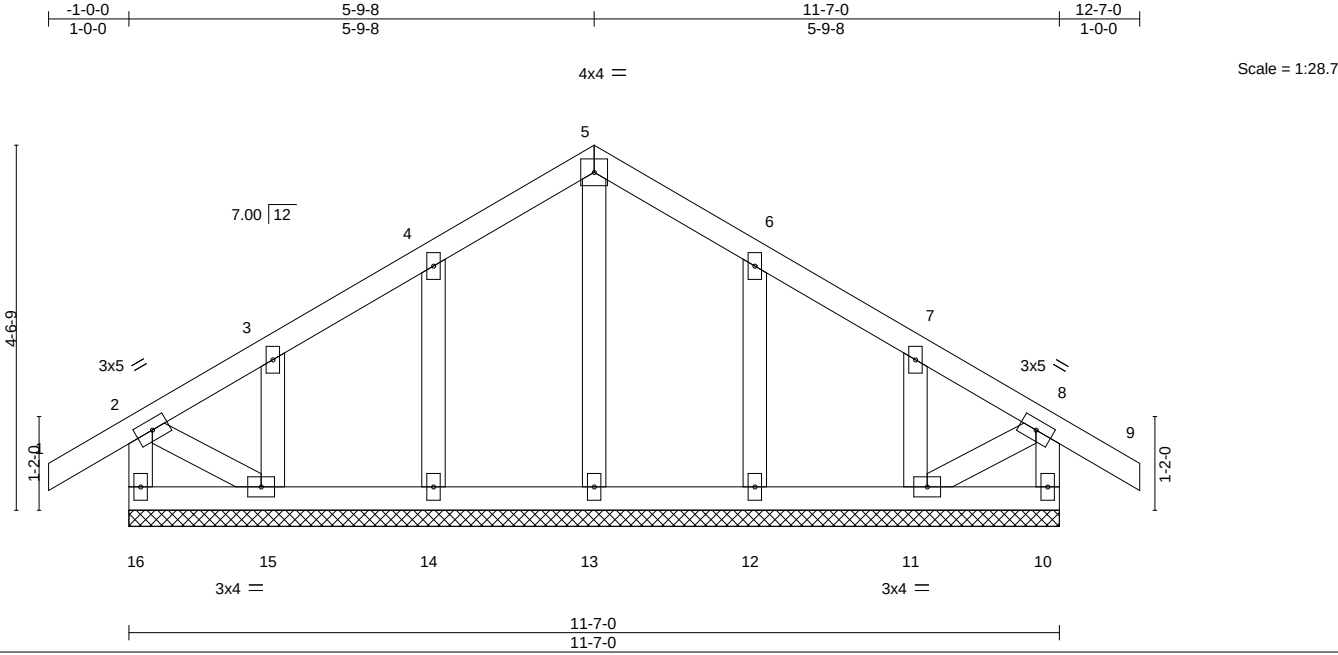
June 10, 2025

Gilbert, Eric

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

Job	Truss	Truss Type	Qty	Ply	CLB-LOT #5 Roof
25-3407-B	GE01	Common Supported Gable	1	1	174047357

Riverside Roof Truss, LLC, Danville, Va - 24541, 8.830 s May 29 2025 MiTek Industries, Inc. Mon Jun 9 05:15:00 2025 Page 1
ID:Bx12MwYau_NHkbraGCmHloyOvst-iBsURqzHBeol77BENtotl6wAocr5GpniySMI1z86hP



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.09	in (loc) l/defl L/d	MT20	244/190
Snow (Pf/Pg) 11.6/15.0	Plate Grip DOL 1.15	BC 0.03	Vert(LL) -0.00 9 n/r 120		
TCDL 10.0	Lumber DOL 1.15	WB 0.04	Vert(CT) -0.00 9 n/r 120		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-S	Horz(CT) 0.00 10 n/a n/a		
BCDL 10.0	Code IRC2018/TPI2014			Weight: 67 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 2x4 SP No.3	
OTHERS 2x4 SP No.3	

REACTIONS. All bearings 11-7-0.
(lb) - Max Horz 16=109(LC 15)
Max Uplift All uplift 100 lb or less at joint(s) 16, 10, 14, 15, 12, 11
Max Grav All reactions 250 lb or less at joint(s) 16, 10, 13, 14, 15, 12, 11

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

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - 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 1-9-8, Exterior(2N) 1-9-8 to 5-9-8, Corner(3R) 5-9-8 to 8-9-8, Exterior(2N) 8-9-8 to 12-7-0 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
 - 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
 - Unbalanced snow loads have been considered for this design.
 - 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.
 - All plates are 2x4 MT20 unless otherwise indicated.
 - Gable requires continuous bottom chord bearing.
 - Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
 - Gable studs spaced at 2-0-0 oc.
 - 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.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 16, 10, 14, 15, 12, 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.



June 10,2025

Job	Truss	Truss Type	Qty	Ply	CLB-LOT #5 Roof
25-3407-B	M01	MONOPITCH	6	1	174047358

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

8.830 s May 29 2025 MiTek Industries, Inc. Mon Jun 9 05:15:01 2025 Page 1
ID:BxI2MwYau_NHkbraGcmHloyOvst-ANQtFA_wyywclHmQxbK6Izf0BCt7qbnwxcCwqTz86hO

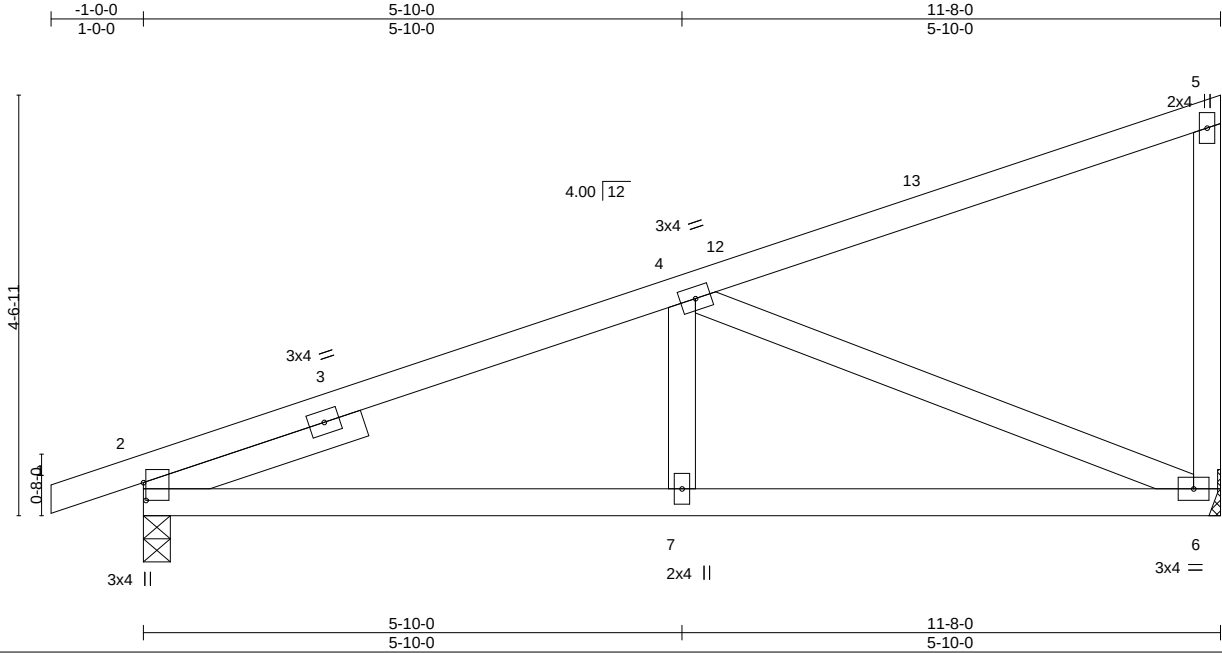


Plate Offsets (X,Y)-- [2:0-2-5,0-0-5]									
LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.39	Vert(LL)	-0.03 6-7 >999 240	MT20	244/190
Snow (Pf/Pg)	11.6/15.0	Lumber DOL	1.15	BC	0.34	Vert(CT)	-0.06 6-7 >999 180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.51	Horz(CT)	0.01 6 n/a n/a		
BCLL	0.0 *	Code IRC2018/TPI2014		Matrix-MS					
BCDL	10.0							Weight: 59 lb	FT = 20%

LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	2x4 SP No.2	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	2x4 SP No.3		
SLIDER	Left 2x4 SP No.3 2-6-0		

REACTIONS. (size) 2=0-3-8, 6=Mechanical
Max Horz 2=148(LC 15)
Max Uplift 2=-56(LC 16), 6=-31(LC 16)
Max Grav 2=523(LC 2), 6=458(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-4=-660/179
BOT CHORD 2-7=-273/666, 6-7=-273/666
WEBS 4-6=-698/233

NOTES-

- Unbalanced roof live loads have been considered for this design.
- 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 11-6-4 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
- 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
- Unbalanced snow loads have been considered for this design.
- 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.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 6.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



June 10,2025

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)

ENGINEERING BY
TRENCO
A MiTek Affiliate

818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	CLB-LOT #5 Roof
25-3407-B	M01GE	MONOPITCH SUPPORTED	1	1	174047359

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

8.830 s May 29 2025 MiTek Industries, Inc. Mon Jun 9 05:15:01 2025 Page 1

ID:Bxl2MwYau_NHkbraGcmHloyOvst-ANQtfA_wyywclHmQxbK6lfz3WCxNqiswxcCwqTz86hO

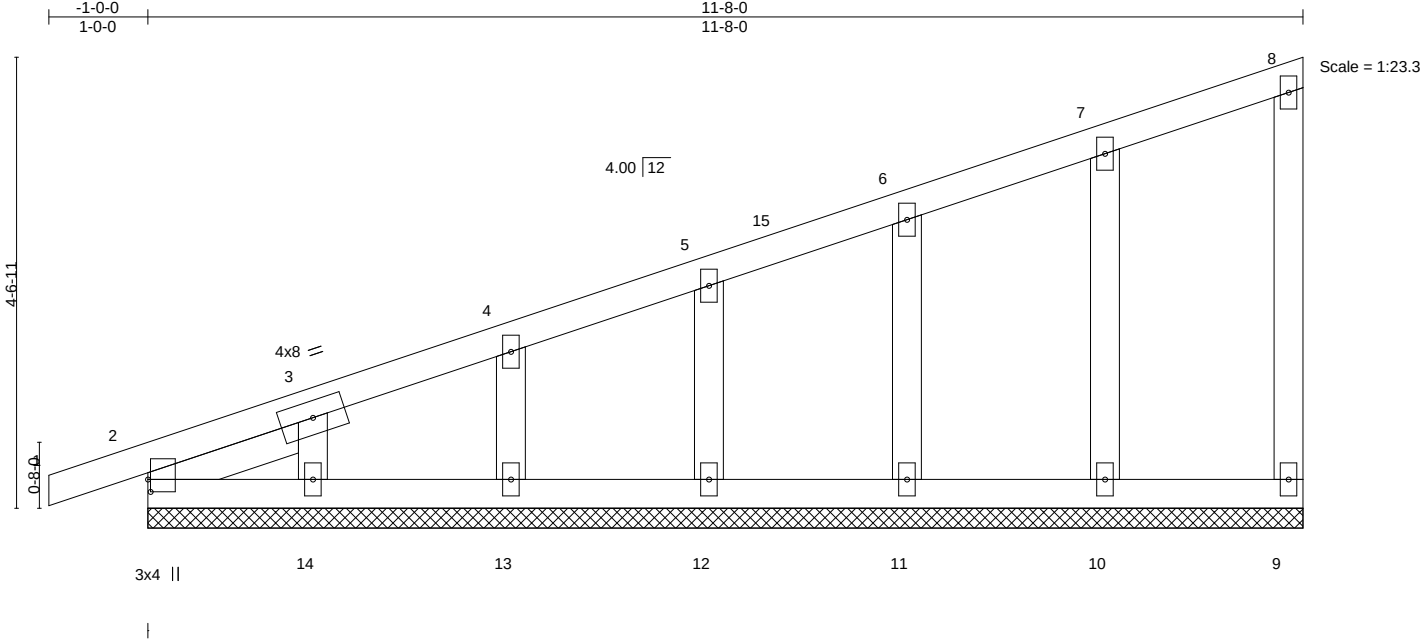


Plate Offsets (X,Y)-- [2:0-1-8,0-0-5]									
LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.24	Vert(LL)	-0.00 1 n/r 120	MT20	244/190
Snow (Pf/Pg)	11.6/15.0	Lumber DOL	1.15	BC	0.07	Vert(CT)	-0.00 1 n/r 120		
TCDL	10.0	Rep Stress Incr	YES	WB	0.05	Horz(CT)	0.00 9 n/a n/a		
BCLL	0.0 *	Code	IRC2018/TPI2014	Matrix-S				Weight: 61 lb	FT = 20%
BCDL	10.0								

LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	2x4 SP No.2	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	2x4 SP No.3		
OTHERS	2x4 SP No.3		
SLIDER	Left 2x4 SP No.3 1-7-8		

REACTIONS. All bearings 11-8-0.
(lb) - Max Horz 2=146(LC 13)
Max Uplift All uplift 100 lb or less at joint(s) 9, 2, 10, 11, 12, 13, 14
Max Grav All reactions 250 lb or less at joint(s) 9, 2, 10, 11, 12, 13, 14

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-340/173, 3-4=-261/141

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - 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 11-6-4 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
 - 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
 - Unbalanced snow loads have been considered for this design.
 - 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.
 - All plates are 2x4 MT20 unless otherwise indicated.
 - Gable requires continuous bottom chord bearing.
 - Gable studs spaced at 2-0-0 oc.
 - 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.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 9, 2, 10, 11, 12, 13, 14.
 - Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 2.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



June 10,2025

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.sbcacompnents.com)

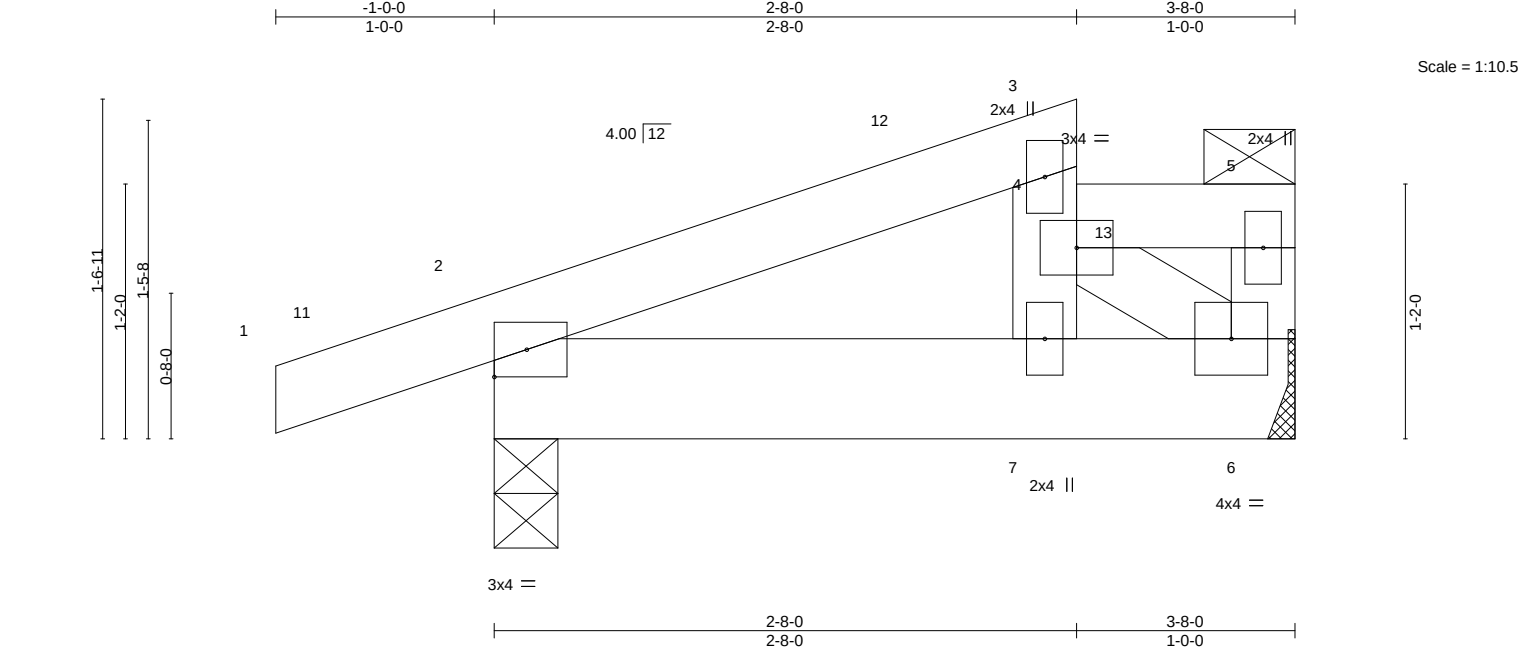
ENGINEERING BY
TRENCO
A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	CLB-LOT #5 Roof
25-3407-B	M02	HALF HIP	3	1	174047360

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

8.830 s May 29 2025 MiTek Industries, Inc. Mon Jun 9 05:15:02 2025 Page 1

ID:Bxl2MwYau_NHkbraGcmHloyOvst-ea_FsW_YiF2TMQLcUlrLqACFLbHfZ9C4AGxTMvz86hN



LOADING (psf)	SPACING-	CSI.	DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.18	Vert(LL)	-0.00	10	>999	240	MT20	244/190
Snow (Pf/Pg) 16.5/15.0	Plate Grip DOL 1.15	BC 0.07	Vert(CT)	-0.00	7	>999	180		
TCDL 10.0	Lumber DOL 1.15	WB 0.05	Horz(CT)	0.00	2	n/a	n/a		
BCLL 0.0 *	Rep Stress Incr NO	Matrix-MP							
BCDL 10.0	Code IRC2018/TPI2014							Weight: 19 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD
BOT CHORD 2x6 SP No.2	Structural wood sheathing directly applied or 3-8-0 oc purlins, except end verticals, and 2-0-0 oc purlins: 4-7, 4-5.
WEBS 2x4 SP No.3	BOT CHORD
	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 2=0-3-8, 6=Mechanical
Max Horz 2=42(LC 13)
Max Uplift 2=-8(LC 16)
Max Grav 2=263(LC 36), 6=325(LC 3)

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

NOTES-

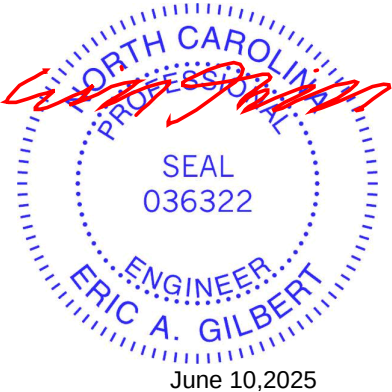
- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-0-0 to 2-0-0, Interior(1) 2-0-0 to 3-6-4 zone; 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
- 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.
- 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.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Load case(s) 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-3=-43, 6-8=-20, 4-5=-83

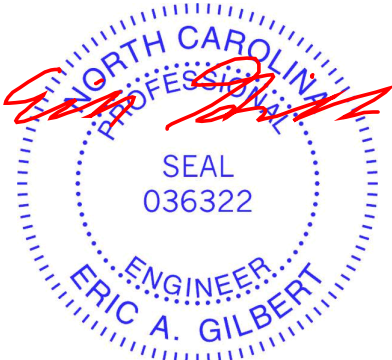


Job	Truss	Truss Type	Qty	Ply	CLB-LOT #5 Roof
25-3407-B	M02	HALF HIP	3	1	174047360

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

8.830 s May 29 2025 MiTek Industries, Inc. Mon Jun 9 05:15:02 2025 Page 2
ID:Bxl2MwYau_NHkbraGcmHloyOvst-ea_FsW_YiF2TMQLcUlrLqACFLbHfZ9C4AGxTMvz86hN

- LOAD CASE(S)** Standard
- Concentrated Loads (lb)
Vert: 13=-160
- 2) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
Vert: 1-3=-60, 6-8=-20, 4-5=-90
- Concentrated Loads (lb)
Vert: 13=-160
- 3) Dead + 0.75 Roof Live (balanced) + 0.75 Attic Floor: Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
Vert: 1-3=-50, 6-8=-20, 4-5=-139
- Concentrated Loads (lb)
Vert: 13=-160
- 4) Dead + 0.75 Snow (balanced) + 0.75 Attic Floor: Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
Vert: 1-3=-37, 6-8=-20, 4-5=-133
- Concentrated Loads (lb)
Vert: 13=-160
- 5) Dead + 0.75 Snow (Unbal. Left) + 0.75 Attic Floor: Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
Vert: 1-11=-37, 3-11=-42, 6-8=-20, 4-5=-114
- Concentrated Loads (lb)
Vert: 13=-160
- 6) Dead + 0.75 Snow (Unbal. Right) + 0.75 Attic Floor: Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
Vert: 1-3=-25, 6-8=-20, 4-5=-135
- Concentrated Loads (lb)
Vert: 13=-160
- 7) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25
- Uniform Loads (plf)
Vert: 1-3=-20, 6-8=-40, 4-5=-50
- Concentrated Loads (lb)
Vert: 13=-160
- 8) Dead + 0.6 C-C Wind (Pos. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60
- Uniform Loads (plf)
Vert: 1-2=60, 2-12=50, 3-12=34, 6-8=-12, 4-5=16
Horz: 1-2=-72, 2-12=-62, 3-12=-46, 3-4=10, 5-6=38
- Concentrated Loads (lb)
Vert: 13=-160
- 9) Dead + 0.6 C-C Wind (Pos. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60
- Uniform Loads (plf)
Vert: 1-2=45, 2-3=50, 6-8=-12, 4-5=32
Horz: 1-2=-57, 2-3=-62, 3-4=-51, 5-6=-24
- Concentrated Loads (lb)
Vert: 13=-160
- 10) Dead + 0.6 C-C Wind (Neg. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60
- Uniform Loads (plf)
Vert: 1-2=1, 2-3=-46, 6-8=-20, 4-5=-64
Horz: 1-2=-21, 2-3=26, 3-4=-30, 5-6=-35
- Concentrated Loads (lb)
Vert: 13=-160
- 11) Dead + 0.6 C-C Wind (Neg. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60
- Uniform Loads (plf)
Vert: 1-2=-41, 2-3=-46, 6-8=-20, 4-5=-64
Horz: 1-2=21, 2-3=26, 3-4=31, 5-6=27
- Concentrated Loads (lb)
Vert: 13=-160
- 12) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
- Uniform Loads (plf)
Vert: 1-2=28, 2-3=13, 6-8=-12, 4-5=8
Horz: 1-2=-40, 2-3=-25, 3-4=-11, 5-6=18
- Concentrated Loads (lb)
Vert: 13=-160
- 13) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
- Uniform Loads (plf)
Vert: 1-2=3, 2-3=8, 6-8=-12, 4-5=8
Horz: 1-2=-15, 2-3=-20, 3-4=-26, 5-6=-15
- Concentrated Loads (lb)
Vert: 13=-160
- 14) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
- Uniform Loads (plf)
Vert: 1-2=-16, 2-3=-21, 6-8=-20, 4-5=-39
Horz: 1-2=-4, 2-3=1, 3-4=31, 5-6=7
- Concentrated Loads (lb)
Vert: 13=-160
- 15) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60



June 10,2025

Continued on page 3

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)

ENGINEERING BY
TRENCO
A MiTek Affiliate

818 Soundside Road
Edenton, NC 27932

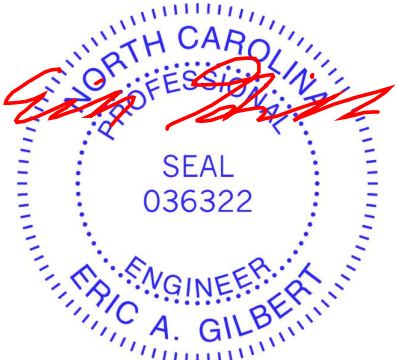
Job	Truss	Truss Type	Qty	Ply	CLB-LOT #5 Roof
25-3407-B	M02	HALF HIP	3	1	174047360

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

8.830 s May 29 2025 MiTek Industries, Inc. Mon Jun 9 05:15:02 2025 Page 3
ID:Bxl2MwYau_NHkbraGCMHloyOvst-ea_FsW_YiF2TMQLcUlrLqACFLbHfZ9C4AGxTMvz86hN

LOAD CASE(S) Standard

- Uniform Loads (plf)
Vert: 1-2=-5, 2-3=-10, 6-8=-20, 4-5=-39
Horz: 1-2=-15, 2-3=-10, 3-4=-4, 5-6=-25
- Concentrated Loads (lb)
Vert: 13=-160
- 16) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=32, 2-3=17, 6-8=-12, 4-5=-1
Horz: 1-2=-44, 2-3=-29, 3-4=-34, 5-6=23
Concentrated Loads (lb)
Vert: 13=-160
- 17) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=21, 2-3=6, 6-8=-12, 4-5=-12
Horz: 1-2=-33, 2-3=-18, 3-4=-24, 5-6=23
Concentrated Loads (lb)
Vert: 13=-160
- 18) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-16, 2-3=-21, 6-8=-20, 4-5=-39
Horz: 1-2=-4, 2-3=1, 3-4=6, 5-6=12
Concentrated Loads (lb)
Vert: 13=-160
- 19) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-16, 2-3=-21, 6-8=-20, 4-5=-39
Horz: 1-2=-4, 2-3=1, 3-4=6, 5-6=12
Concentrated Loads (lb)
Vert: 13=-160
- 20) Dead + Snow on Overhangs: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-43, 2-3=-20, 6-8=-20, 4-5=-50
Concentrated Loads (lb)
Vert: 13=-160
- 21) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-11=-43, 3-11=-49, 6-8=-20, 4-5=-57
Concentrated Loads (lb)
Vert: 13=-160
- 22) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-3=-27, 6-8=-20, 4-5=-85
Concentrated Loads (lb)
Vert: 13=-160
- 23) Dead: Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-3=-20, 6-8=-20, 4-5=-50
Concentrated Loads (lb)
Vert: 13=-160
- 24) Dead + 0.75 Snow (bal.) + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-34, 2-3=-38, 6-8=-20, 4-5=-124
Horz: 1-2=-3, 2-3=1, 3-4=23, 5-6=5
Concentrated Loads (lb)
Vert: 13=-160
- 25) Dead + 0.75 Snow (bal.) + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-26, 2-3=-30, 6-8=-20, 4-5=-124
Horz: 1-2=-11, 2-3=-7, 3-4=-3, 5-6=-19
Concentrated Loads (lb)
Vert: 13=-160
- 26) Dead + 0.75 Snow (bal.) + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-34, 2-3=-38, 6-8=-20, 4-5=-124
Horz: 1-2=-3, 2-3=1, 3-4=5, 5-6=9
Concentrated Loads (lb)
Vert: 13=-160
- 27) Dead + 0.75 Snow (bal.) + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-34, 2-3=-38, 6-8=-20, 4-5=-124
Horz: 1-2=-3, 2-3=1, 3-4=5, 5-6=9
Concentrated Loads (lb)
Vert: 13=-160



June 10,2025

Continued on page 4

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)

ENGINEERING BY
TRENCO
A MiTek Affiliate

818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	CLB-LOT #5 Roof
25-3407-B	M02	HALF HIP	3	1	174047360

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

8.830 s May 29 2025 MiTek Industries, Inc. Mon Jun 9 05:15:02 2025 Page 4
ID:Bxl2MwYau_NHkbraGcmHloyOvst-ea_FsW_YiF2TMQLcUlrLqACFLbHfZ9C4AGxTMvz86hN

LOAD CASE(S) Standard

- 28) Dead + 0.75 Roof Live (bal.) + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-47, 2-3=-51, 6-8=-20, 4-5=-129
Horz: 1-2=-3, 2-3=1, 3-4=23, 5-6=5
Concentrated Loads (lb)
Vert: 13=-160
- 29) Dead + 0.75 Roof Live (bal.) + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-39, 2-3=-43, 6-8=-20, 4-5=-129
Horz: 1-2=-11, 2-3=-7, 3-4=-3, 5-6=-19
Concentrated Loads (lb)
Vert: 13=-160
- 30) Dead + 0.75 Roof Live (bal.) + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-47, 2-3=-51, 6-8=-20, 4-5=-129
Horz: 1-2=-3, 2-3=1, 3-4=5, 5-6=9
Concentrated Loads (lb)
Vert: 13=-160
- 31) Dead + 0.75 Roof Live (bal.) + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-47, 2-3=-51, 6-8=-20, 4-5=-129
Horz: 1-2=-3, 2-3=1, 3-4=5, 5-6=9
Concentrated Loads (lb)
Vert: 13=-160
- 32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-3=-20, 6-8=-20, 4-5=-80
Concentrated Loads (lb)
Vert: 13=-160
- 33) Dead + 0.6 C-C Wind Min. Down: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=4, 2-3=-28, 6-8=-12, 4-5=-46
Horz: 1-2=-16, 2-3=16, 3-4=-16, 5-6=-16
Concentrated Loads (lb)
Vert: 13=-160
- 34) Dead + 0.6 C-C Wind Min. Upward: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-3=4, 6-8=-12, 4-5=-14
Horz: 1-3=-16, 3-4=16, 5-6=16
Concentrated Loads (lb)
Vert: 13=-160
- 35) 3rd Unbal.Dead + Snow (balanced) + Parallel: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-3=-27, 6-8=-20, 4-5=-100
Concentrated Loads (lb)
Vert: 13=-160
- 36) 4th Unbal.Dead + Snow (balanced) + Parallel: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-3=-70, 6-8=-20, 4-5=-57
Concentrated Loads (lb)
Vert: 13=-160
- 37) 5th Unbal.Dead + 0.75 Snow (balanced) + 0.75 Attic Floor + Parallel: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-3=-25, 6-8=-20, 4-5=-146
Concentrated Loads (lb)
Vert: 13=-160
- 38) 6th Unbal.Dead + 0.75 Snow (balanced) + 0.75 Attic Floor + Parallel: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-3=-57, 6-8=-20, 4-5=-114
Concentrated Loads (lb)
Vert: 13=-160
- 39) 7th Unbal.Dead + 0.75 Snow (unbal.) + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) Left) + Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-22, 2-3=-26, 6-8=-20, 4-5=-137
Horz: 1-2=-3, 2-3=1, 3-4=23, 5-6=5
Concentrated Loads (lb)
Vert: 13=-160
- 40) 8th Unbal.Dead + 0.75 Snow (unbal.) + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) Left) + Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-54, 2-3=-58, 6-8=-20, 4-5=-105
Horz: 1-2=-3, 2-3=1, 3-4=23, 5-6=5
Concentrated Loads (lb)
Vert: 13=-160



June 10,2025

Continued on page 5

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.sbcacompnents.com)

ENGINEERING BY
TRENCO
A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	CLB-LOT #5 Roof
25-3407-B	M02	HALF HIP	3	1	174047360

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

8.830 s May 29 2025 MiTek Industries, Inc. Mon Jun 9 05:15:02 2025 Page 5
ID:Bxl2MwYau_NHkbraGCmHloyOvst-ea_FsW_YiF2TMQLcUlrLqACFLbHfZ9C4AGxTMvz86hN

LOAD CASE(S) Standard

- 41) 9th Unbal.Dead + 0.75 Snow (unbal.) + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) Right) + Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-14, 2-3=-18, 6-8=-20, 4-5=-137
Horz: 1-2=-11, 2-3=-7, 3-4=-3, 5-6=-19
Concentrated Loads (lb)
Vert: 13=-160
- 42) 10th Unbal.Dead + 0.75 Snow (unbal.) + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) Right) + Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-46, 2-3=-50, 6-8=-20, 4-5=-105
Horz: 1-2=-11, 2-3=-7, 3-4=-3, 5-6=-19
Concentrated Loads (lb)
Vert: 13=-160
- 43) 11th Unbal.Dead + 0.75 Snow (unbal.) + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-22, 2-3=-26, 6-8=-20, 4-5=-137
Horz: 1-2=-3, 2-3=1, 3-4=5, 5-6=9
Concentrated Loads (lb)
Vert: 13=-160
- 44) 12th Unbal.Dead + 0.75 Snow (unbal.) + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-54, 2-3=-58, 6-8=-20, 4-5=-105
Horz: 1-2=-3, 2-3=1, 3-4=5, 5-6=9
Concentrated Loads (lb)
Vert: 13=-160
- 45) 13th Unbal.Dead + 0.75 Snow (unbal.) + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-22, 2-3=-26, 6-8=-20, 4-5=-137
Horz: 1-2=-3, 2-3=1, 3-4=5, 5-6=9
Concentrated Loads (lb)
Vert: 13=-160
- 46) 14th Unbal.Dead + 0.75 Snow (unbal.) + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-54, 2-3=-58, 6-8=-20, 4-5=-105
Horz: 1-2=-3, 2-3=1, 3-4=5, 5-6=9
Concentrated Loads (lb)
Vert: 13=-160
- 47) 15th Unbal.Dead + Minimum Snow + Parallel: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-3=-27, 6-8=-20, 4-5=-100
Concentrated Loads (lb)
Vert: 13=-160
- 48) 16th Unbal.Dead + Minimum Snow + Parallel: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-3=-70, 6-8=-20, 4-5=-57
Concentrated Loads (lb)
Vert: 13=-160
- 49) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-3=-60, 6-8=-20, 4-5=-50
Concentrated Loads (lb)
Vert: 13=-160
- 50) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-3=-20, 6-8=-20, 4-5=-90
Concentrated Loads (lb)
Vert: 13=-160
- 51) 3rd Dead + 0.75 Roof Live (unbalanced) + 0.75 Attic Floor: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-3=-50, 6-8=-20, 4-5=-109
Concentrated Loads (lb)
Vert: 13=-160
- 52) 4th Dead + 0.75 Roof Live (unbalanced) + 0.75 Attic Floor: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-3=-20, 6-8=-20, 4-5=-139
Concentrated Loads (lb)
Vert: 13=-160



June 10,2025

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.sbcacompnents.com)

ENGINEERING BY
TRENCO
A MiTek Affiliate

818 Soundside Road
Edenton, NC 27932

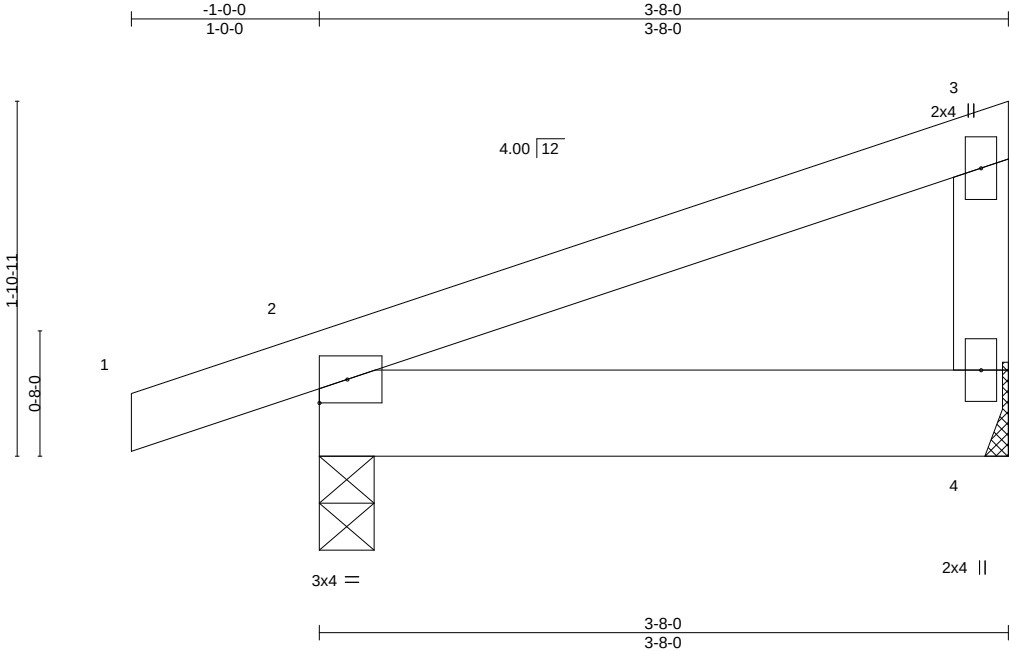
Job	Truss	Truss Type	Qty	Ply	CLB-LOT #5 Roof
25-3407-B	M03	Monopitch	6	1	174047361

Riverside Roof Truss, LLC,

Danville, Va - 24541,

8.830 s May 29 2025 MiTek Industries, Inc. Mon Jun 9 05:15:02 2025 Page 1

ID:Bx12MwYau_NHkbraGCmHloyOvst-ea_FsW_YiF2TMQLcUlrLqACFzbHdZ9w4AGxTMvz86hN



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0		TC	0.14					MT20	244/190
Snow (Pf/Pg)	11.6/15.0		BC	0.07						
TCDL	10.0		WB	0.00						
BCLL	0.0 *		Matrix-MP							
BCDL	10.0									

LUMBER-										
TOP CHORD	2x4 SP No.2									
BOT CHORD	2x6 SP No.2									
WEBS	2x4 SP No.3									

BRACING-										
TOP CHORD	Structural wood sheathing directly applied or 3-8-0 oc purlins, except end verticals.									
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.									

REACTIONS.	(size) 4=Mechanical, 2=0-3-8									
	Max Horz 2=53(LC 15)									
	Max Uplift 4=-6(LC 16), 2=-43(LC 16)									
	Max Grav 4=136(LC 21), 2=215(LC 21)									

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

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



June 10,2025

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)



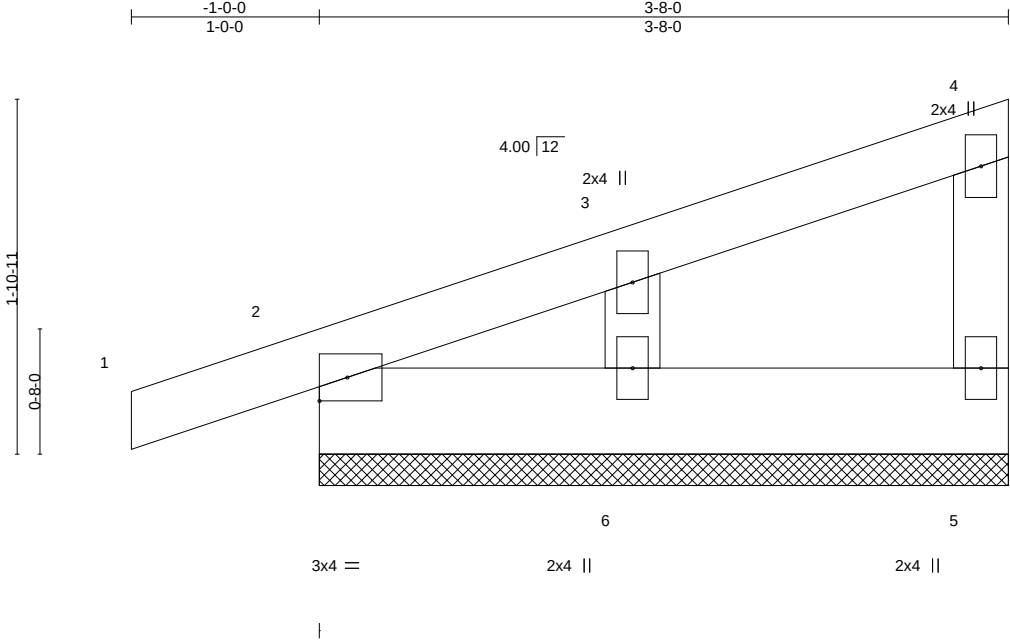
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	CLB-LOT #5 Roof
25-3407-B	M03GE	Monopitch Supported Gable	1	1	174047362

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

8.830 s May 29 2025 MiTek Industries, Inc. Mon Jun 9 05:15:03 2025 Page 1

ID:Bxl2MwYau_NHkbraGcmHloyOvst-6mYd4r?ATZAK_awp20MaNNkRa?emlcHDowh1uLz86hM



LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof) 20.0	2'-0-0	TC 0.08	Vert(LL)	-0.00	1	n/r	MT20	244/190
Snow (Pf/Pg) 11.6/15.0	Plate Grip DOL 1.15	BC 0.01	Vert(CT)	-0.00	1	n/r		
TCDL 10.0	Lumber DOL 1.15	WB 0.06	Horz(CT)	0.00	5	n/a		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-P						
BCDL 10.0	Code IRC2018/TPI2014						Weight: 18 lb	FT = 20%

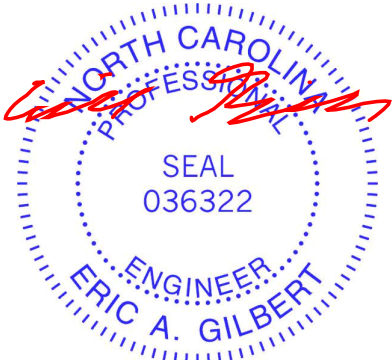
LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 3-8-0 oc purlins, except end verticals.
BOT CHORD 2x6 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3	
OTHERS 2x4 SP No.3	

REACTIONS. (size) 5=3-8-0, 2=3-8-0, 6=3-8-0
Max Horz 2=52(LC 15)
Max Uplift 5=-3(LC 13), 2=-38(LC 16), 6=-8(LC 16)
Max Grav 5=63(LC 21), 2=135(LC 21), 6=153(LC 21)

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

NOTES-

- Unbalanced roof live loads have been considered for this design.
- 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 3-6-4 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
- 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
- Unbalanced snow loads have been considered for this design.
- 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.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 2'-0-0 oc.
- 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 2, 6.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



June 10,2025

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)

ENGINEERING BY
TRENCO
A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	CLB-LOT #5 Roof
25-3407-B	M04	HALF HIP	3	1	174047363

Riverside Roof Truss, LLC, Danville, Va - 24541, 8.830 s May 29 2025 MiTek Industries, Inc. Mon Jun 9 05:15:03 2025 Page 1
ID:Bxl2MwYau_NHkbraGCmHloyOvst-6mYd4r?ATZAK_awp20MaNNkFY?aalbhDOWh1uLz86hM
-1-0-0 6-8-0 7-8-0
1-0-0 6-8-0 1-0-0

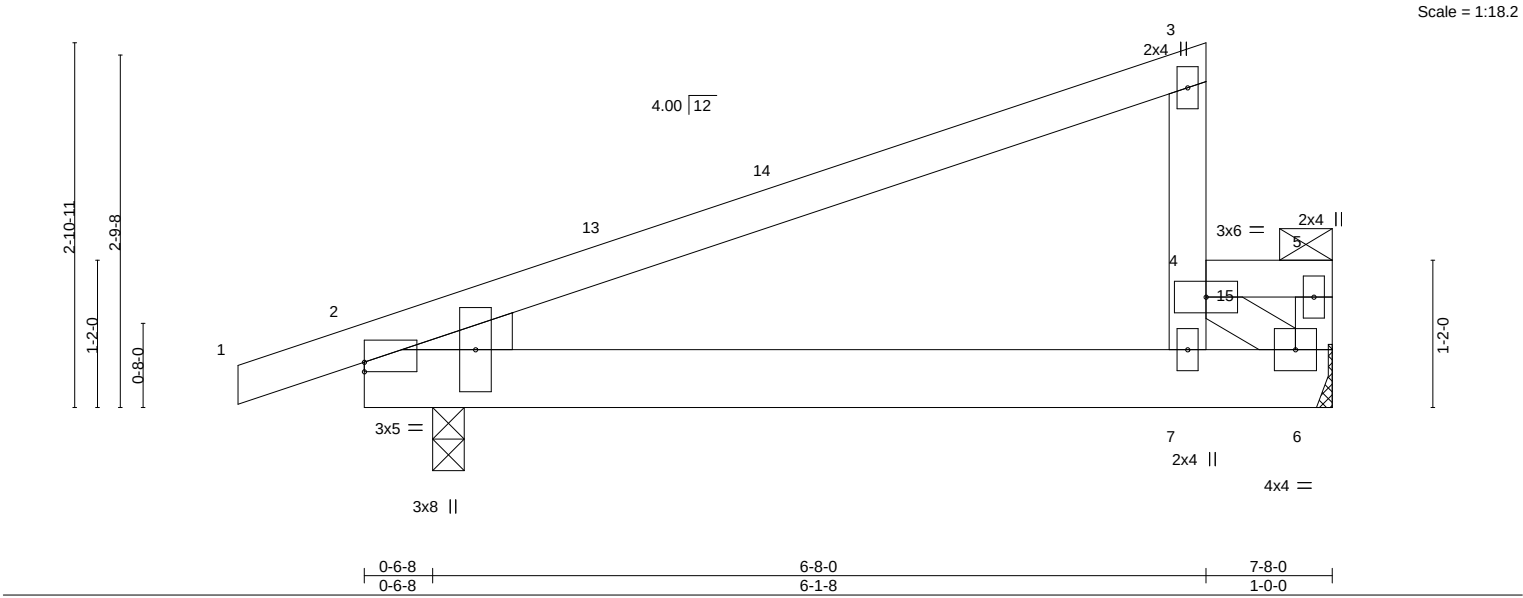


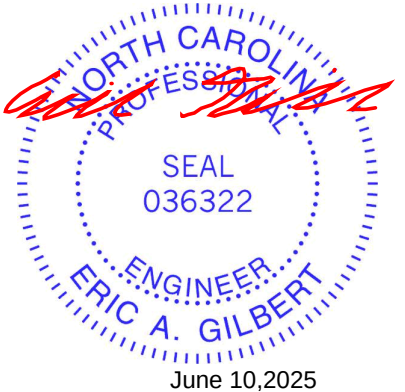
Plate Offsets (X,Y)-- [2:0-0-0,0-0-14]									
LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.85	Vert(LL)	-0.03 7-12 >999 240	MT20	244/190
Snow (Pf/Pg)	16.5/15.0	Lumber DOL	1.15	BC	0.28	Vert(CT)	-0.06 7-12 >999 180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.10	Horz(CT)	0.01 2 n/a n/a		
BCLL	0.0 *	Code	IRC2018/TPI2014	Matrix-MP				Weight: 38 lb	FT = 20%
BCDL	10.0								

LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins: 4-7, 4-5.
BOT CHORD	2x6 SP No.2	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	2x4 SP No.3		
WEDGE			
Left: 2x4 SP No.3			

REACTIONS. (size) 6=Mechanical, 2=0-3-0
Max Horz 2=116(LC 16)
Max Uplift 2=16(LC 16)
Max Grav 6=467(LC 28), 2=456(LC 36)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
BOT CHORD 6-7=-137/382
WEBS 4-6=-484/164

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - 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
 - C-C wind load user defined.
 - 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.
 - 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.
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Refer to girder(s) for truss to truss connections.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - Load case(s) 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - In the Load CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).



Continued on page 2

LOAD CASE(S)

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)

ENGINEERING BY
TRENCO
A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	CLB-LOT #5 Roof
25-3407-B	M04	HALF HIP	3	1	174047363

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

8.830 s May 29 2025 MiTek Industries, Inc. Mon Jun 9 05:15:03 2025 Page 2
ID:Bxl2MwYau_NHkbraGcmHloyOvst-6mYd4r?ATZAK_awp20MaNNkFY?aalbhdOwh1uLz86hM

LOAD CASE(S)

- 1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-3=-43, 4-5=-83(F=-30), 6-8=-20
Concentrated Loads (lb)
Vert: 15=-160
- 2) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-3=-60, 4-5=-90(F=-30), 6-8=-20
Concentrated Loads (lb)
Vert: 15=-160
- 3) Dead + 0.75 Roof Live (balanced) + 0.75 Attic Floor: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-3=-50, 4-5=-139(F=-89), 6-8=-20
Concentrated Loads (lb)
Vert: 15=-160
- 4) Dead + 0.75 Snow (balanced) + 0.75 Attic Floor: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-3=-37, 4-5=-133(F=-89), 6-8=-20
Concentrated Loads (lb)
Vert: 15=-160
- 5) Dead + 0.75 Snow (Unbal. Left) + 0.75 Attic Floor: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-14=-37, 3-14=-42, 4-5=-114(F=-89), 6-8=-20
Concentrated Loads (lb)
Vert: 15=-160
- 6) Dead + 0.75 Snow (Unbal. Right) + 0.75 Attic Floor: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-3=-25, 4-5=-137(F=-89), 6-8=-20
Concentrated Loads (lb)
Vert: 15=-160
- 7) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-3=-20, 4-5=-50(F=-30), 6-8=-40
Concentrated Loads (lb)
Vert: 15=-160
- 8) Dead + 0.6 C-C Wind (Pos. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=58, 2-13=45, 3-13=34, 4-5=16(F=-18), 6-8=-12
Horz: 1-2=-70, 2-13=-57, 3-13=-46, 3-4=7, 5-6=36
Concentrated Loads (lb)
Vert: 15=-160
- 9) Dead + 0.6 C-C Wind (Pos. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=29, 2-13=34, 3-13=45, 4-5=27(F=-18), 6-8=-12
Horz: 1-2=-41, 2-13=-46, 3-13=-57, 3-4=-51, 5-6=-23
Concentrated Loads (lb)
Vert: 15=-160
- 10) Dead + 0.6 C-C Wind (Neg. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-3, 2-3=-42, 4-5=-60(F=-18), 6-8=-20
Horz: 1-2=-17, 2-3=22, 3-4=-30, 5-6=-33
Concentrated Loads (lb)
Vert: 15=-160
- 11) Dead + 0.6 C-C Wind (Neg. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-37, 2-3=-42, 4-5=-60(F=-18), 6-8=-20
Horz: 1-2=17, 2-3=22, 3-4=28, 5-6=25
Concentrated Loads (lb)
Vert: 15=-160
- 12) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=28, 2-3=13, 4-5=8(F=-18), 6-8=-12
Horz: 1-2=-40, 2-3=-25, 3-4=-11, 5-6=18
Concentrated Loads (lb)
Vert: 15=-160
- 13) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=3, 2-3=8, 4-5=8(F=-18), 6-8=-12
Horz: 1-2=-15, 2-3=-20, 3-4=-26, 5-6=-15
Concentrated Loads (lb)
Vert: 15=-160
- 14) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-16, 2-3=-21, 4-5=-39(F=-18), 6-8=-20
Horz: 1-2=-4, 2-3=1, 3-4=31, 5-6=7



June 10,2025

Continued on page 3

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)

ENGINEERING BY
TRENCO
A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

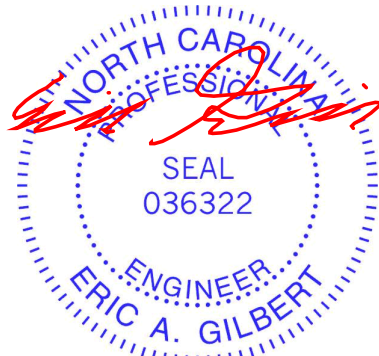
Job	Truss	Truss Type	Qty	Ply	CLB-LOT #5 Roof
25-3407-B	M04	HALF HIP	3	1	174047363

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

8.830 s May 29 2025 MiTek Industries, Inc. Mon Jun 9 05:15:03 2025 Page 3
ID:Bxl2MwYau_NHkbraGCmHloyOvst-6mYd4r?ATZAK_awp20MaNNkFY?aalbhDOWh1uLz86hM

LOAD CASE(S)

- Concentrated Loads (lb)
Vert: 15=-160
- 15) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-5, 2-3=-10, 4-5=-39(F=-18), 6-8=-20
Horz: 1-2=-15, 2-3=-10, 3-4=-4, 5-6=-25
Concentrated Loads (lb)
Vert: 15=-160
- 16) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=32, 2-3=17, 4-5=-1(F=-18), 6-8=-12
Horz: 1-2=-44, 2-3=-29, 3-4=-34, 5-6=23
Concentrated Loads (lb)
Vert: 15=-160
- 17) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=21, 2-3=6, 4-5=-12(F=-18), 6-8=-12
Horz: 1-2=-33, 2-3=-18, 3-4=-24, 5-6=23
Concentrated Loads (lb)
Vert: 15=-160
- 18) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-16, 2-3=-21, 4-5=-39(F=-18), 6-8=-20
Horz: 1-2=-4, 2-3=1, 3-4=6, 5-6=12
Concentrated Loads (lb)
Vert: 15=-160
- 19) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-16, 2-3=-21, 4-5=-39(F=-18), 6-8=-20
Horz: 1-2=-4, 2-3=1, 3-4=6, 5-6=12
Concentrated Loads (lb)
Vert: 15=-160
- 20) Dead + Snow on Overhangs: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-43, 2-3=-20, 4-5=-50(F=-30), 6-8=-20
Concentrated Loads (lb)
Vert: 15=-160
- 21) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-14=-43, 3-14=-49, 4-5=-57(F=-30), 6-8=-20
Concentrated Loads (lb)
Vert: 15=-160
- 22) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-3=-27, 4-5=-88(F=-30), 6-8=-20
Concentrated Loads (lb)
Vert: 15=-160
- 23) Dead: Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-3=-20, 4-5=-50(F=-30), 6-8=-20
Concentrated Loads (lb)
Vert: 15=-160
- 24) Dead + 0.75 Snow (bal.) + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-34, 2-3=-38, 4-5=-124(F=-79), 6-8=-20
Horz: 1-2=-3, 2-3=1, 3-4=23, 5-6=5
Concentrated Loads (lb)
Vert: 15=-160
- 25) Dead + 0.75 Snow (bal.) + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-26, 2-3=-30, 4-5=-124(F=-79), 6-8=-20
Horz: 1-2=-11, 2-3=-7, 3-4=-3, 5-6=-19
Concentrated Loads (lb)
Vert: 15=-160
- 26) Dead + 0.75 Snow (bal.) + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-34, 2-3=-38, 4-5=-124(F=-79), 6-8=-20
Horz: 1-2=-3, 2-3=1, 3-4=5, 5-6=9
Concentrated Loads (lb)
Vert: 15=-160
- 27) Dead + 0.75 Snow (bal.) + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60



June 10,2025

Continued on page 4

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)

ENGINEERING BY
TRENCO
A MiTek Affiliate

818 Soundside Road
Edenton, NC 27932

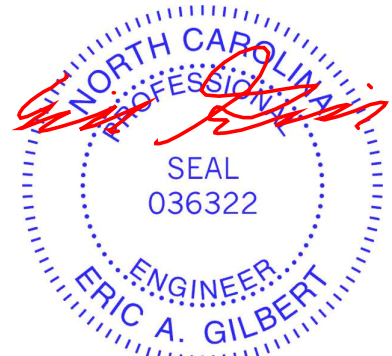
Job	Truss	Truss Type	Qty	Ply	CLB-LOT #5 Roof
25-3407-B	M04	HALF HIP	3	1	174047363

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

8.830 s May 29 2025 MiTek Industries, Inc. Mon Jun 9 05:15:03 2025 Page 4
ID:Bxl2MwYau_NHkbraGCmHloyOvst-6mYd4r?ATZAK_awp20MaNNkFY?aalbhDOWh1uLz86hM

LOAD CASE(S)

- Uniform Loads (plf)
Vert: 1-2=-34, 2-3=-38, 4-5=-124(F=-79), 6-8=-20
Horz: 1-2=-3, 2-3=1, 3-4=5, 5-6=9
- Concentrated Loads (lb)
Vert: 15=-160
- 28) Dead + 0.75 Roof Live (bal.) + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60
- Uniform Loads (plf)
Vert: 1-2=-47, 2-3=-51, 4-5=-129(F=-79), 6-8=-20
Horz: 1-2=-3, 2-3=1, 3-4=23, 5-6=5
- Concentrated Loads (lb)
Vert: 15=-160
- 29) Dead + 0.75 Roof Live (bal.) + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60
- Uniform Loads (plf)
Vert: 1-2=-39, 2-3=-43, 4-5=-129(F=-79), 6-8=-20
Horz: 1-2=-11, 2-3=-7, 3-4=-3, 5-6=-19
- Concentrated Loads (lb)
Vert: 15=-160
- 30) Dead + 0.75 Roof Live (bal.) + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60
- Uniform Loads (plf)
Vert: 1-2=-47, 2-3=-51, 4-5=-129(F=-79), 6-8=-20
Horz: 1-2=-3, 2-3=1, 3-4=5, 5-6=9
- Concentrated Loads (lb)
Vert: 15=-160
- 31) Dead + 0.75 Roof Live (bal.) + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60
- Uniform Loads (plf)
Vert: 1-2=-47, 2-3=-51, 4-5=-129(F=-79), 6-8=-20
Horz: 1-2=-3, 2-3=1, 3-4=5, 5-6=9
- Concentrated Loads (lb)
Vert: 15=-160
- 32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
Vert: 1-3=-20, 4-5=-80(F=-30), 6-8=-20
- Concentrated Loads (lb)
Vert: 15=-160
- 33) Dead + 0.6 C-C Wind Min. Down: Lumber Increase=1.60, Plate Increase=1.60
- Uniform Loads (plf)
Vert: 1-2=4, 2-3=-28, 4-5=-46(F=-18), 6-8=-12
Horz: 1-2=-16, 2-3=16, 3-4=-16, 5-6=-16
- Concentrated Loads (lb)
Vert: 15=-160
- 34) Dead + 0.6 C-C Wind Min. Upward: Lumber Increase=1.60, Plate Increase=1.60
- Uniform Loads (plf)
Vert: 1-3=4, 4-5=-14(F=-18), 6-8=-12
Horz: 1-3=-16, 3-4=16, 5-6=16
- Concentrated Loads (lb)
Vert: 15=-160
- 35) 3rd Unbal.Dead + Snow (balanced) + Parallel: Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
Vert: 1-3=-27, 4-5=-100(F=-30), 6-8=-20
- Concentrated Loads (lb)
Vert: 15=-160
- 36) 4th Unbal.Dead + Snow (balanced) + Parallel: Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
Vert: 1-3=-70, 4-5=-57(F=-30), 6-8=-20
- Concentrated Loads (lb)
Vert: 15=-160
- 37) 5th Unbal.Dead + 0.75 Snow (balanced) + 0.75 Attic Floor + Parallel: Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
Vert: 1-3=-25, 4-5=-146(F=-89), 6-8=-20
- Concentrated Loads (lb)
Vert: 15=-160
- 38) 6th Unbal.Dead + 0.75 Snow (balanced) + 0.75 Attic Floor + Parallel: Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
Vert: 1-3=-57, 4-5=-114(F=-89), 6-8=-20
- Concentrated Loads (lb)
Vert: 15=-160
- 39) 7th Unbal.Dead + 0.75 Snow (unbal.) + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) Left) + Parallel: Lumber Increase=1.60, Plate Increase=1.60
- Uniform Loads (plf)
Vert: 1-2=-22, 2-3=-26, 4-5=-137(F=-79), 6-8=-20
Horz: 1-2=-3, 2-3=1, 3-4=23, 5-6=5
- Concentrated Loads (lb)
Vert: 15=-160



June 10,2025

Continued on page 5

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)

ENGINEERING BY
TRENCO
A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

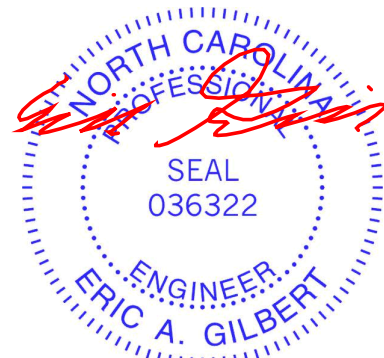
Job	Truss	Truss Type	Qty	Ply	CLB-LOT #5 Roof
25-3407-B	M04	HALF HIP	3	1	174047363

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

8.830 s May 29 2025 MiTek Industries, Inc. Mon Jun 9 05:15:03 2025 Page 5
ID:Bxl2MwYau_NHkbraGCmHloyOvst-6mYd4r?ATZAK_awp20MaNNkFY?aalbDOWh1uLz86hM

LOAD CASE(S)

- 40) 8th Unbal.Dead + 0.75 Snow (unbal.) + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) Left) + Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-54, 2-3=-58, 4-5=-105(F=-79), 6-8=-20
Horz: 1-2=-3, 2-3=1, 3-4=23, 5-6=5
Concentrated Loads (lb)
Vert: 15=-160
- 41) 9th Unbal.Dead + 0.75 Snow (unbal.) + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) Right) + Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-14, 2-3=-18, 4-5=-137(F=-79), 6-8=-20
Horz: 1-2=-11, 2-3=-7, 3-4=-3, 5-6=-19
Concentrated Loads (lb)
Vert: 15=-160
- 42) 10th Unbal.Dead + 0.75 Snow (unbal.) + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) Right) + Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-46, 2-3=-50, 4-5=-105(F=-79), 6-8=-20
Horz: 1-2=-11, 2-3=-7, 3-4=-3, 5-6=-19
Concentrated Loads (lb)
Vert: 15=-160
- 43) 11th Unbal.Dead + 0.75 Snow (unbal.) + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-22, 2-3=-26, 4-5=-137(F=-79), 6-8=-20
Horz: 1-2=-3, 2-3=1, 3-4=5, 5-6=9
Concentrated Loads (lb)
Vert: 15=-160
- 44) 12th Unbal.Dead + 0.75 Snow (unbal.) + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-54, 2-3=-58, 4-5=-105(F=-79), 6-8=-20
Horz: 1-2=-3, 2-3=1, 3-4=5, 5-6=9
Concentrated Loads (lb)
Vert: 15=-160
- 45) 13th Unbal.Dead + 0.75 Snow (unbal.) + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-22, 2-3=-26, 4-5=-137(F=-79), 6-8=-20
Horz: 1-2=-3, 2-3=1, 3-4=5, 5-6=9
Concentrated Loads (lb)
Vert: 15=-160
- 46) 14th Unbal.Dead + 0.75 Snow (unbal.) + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-54, 2-3=-58, 4-5=-105(F=-79), 6-8=-20
Horz: 1-2=-3, 2-3=1, 3-4=5, 5-6=9
Concentrated Loads (lb)
Vert: 15=-160
- 47) 15th Unbal.Dead + Minimum Snow + Parallel: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-3=-27, 4-5=-100(F=-30), 6-8=-20
Concentrated Loads (lb)
Vert: 15=-160
- 48) 16th Unbal.Dead + Minimum Snow + Parallel: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-3=-70, 4-5=-57(F=-30), 6-8=-20
Concentrated Loads (lb)
Vert: 15=-160
- 49) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-3=-60, 4-5=-50(F=-30), 6-8=-20
Concentrated Loads (lb)
Vert: 15=-160
- 50) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-3=-20, 4-5=-90(F=-30), 6-8=-20
Concentrated Loads (lb)
Vert: 15=-160
- 51) 3rd Dead + 0.75 Roof Live (unbalanced) + 0.75 Attic Floor: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-3=-50, 4-5=-109(F=-89), 6-8=-20
Concentrated Loads (lb)
Vert: 15=-160
- 52) 4th Dead + 0.75 Roof Live (unbalanced) + 0.75 Attic Floor: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-3=-20, 4-5=-139(F=-89), 6-8=-20
Concentrated Loads (lb)
Vert: 15=-160



June 10,2025

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)

ENGINEERING BY
TRENCO
A MiTek Affiliate

818 Soundside Road
Edenton, NC 27932

Riverside Roof Truss, LLC, Danville, Va - 24541, 8.830 s May 29 2025 MiTek Industries, Inc. Mon Jun 9 05:15:04 2025 Page 1
 ID:BxI2MwYau_NHkbraGCMHloyVst-ay6?HB0oEtIAckV?cjtpvbHVUPxG13xNdaQaRoz86hL
 1-0-0 6-8-0 7-8-0
 1-0-0 6-8-0 1-0-0



ENGINEERING BY
TRENCO
A MiTek Affiliate

818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	CLB-LOT #5 Roof
25-3407-B	M04SGE	GABLE	1	1	174047364

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

8.830 s May 29 2025 MiTek Industries, Inc. Mon Jun 9 05:15:04 2025 Page 2
ID:Bxl2MwYau_NHkbraGcmHloyOvst-ay6?HB0oEtlAckV?cjtptvbHVUPxG13xNdaQaRoz86hL

LOAD CASE(S)

- 1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-3=-43, 4-5=-83, 6-13=-20
Concentrated Loads (lb)
Vert: 19=-160
- 2) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-3=-60, 4-5=-90, 6-13=-20
Concentrated Loads (lb)
Vert: 19=-160
- 3) Dead + 0.75 Roof Live (balanced) + 0.75 Attic Floor: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-3=-50, 4-5=-139, 6-13=-20
Concentrated Loads (lb)
Vert: 19=-160
- 4) Dead + 0.75 Snow (balanced) + 0.75 Attic Floor: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-3=-37, 4-5=-133, 6-13=-20
Concentrated Loads (lb)
Vert: 19=-160
- 5) Dead + 0.75 Snow (Unbal. Left) + 0.75 Attic Floor: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-18=-37, 3-18=-42, 4-5=-114, 6-13=-20
Concentrated Loads (lb)
Vert: 19=-160
- 6) Dead + 0.75 Snow (Unbal. Right) + 0.75 Attic Floor: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-3=-25, 4-5=-137, 6-13=-20
Concentrated Loads (lb)
Vert: 19=-160
- 7) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-3=-20, 4-5=-50, 6-13=-40
Concentrated Loads (lb)
Vert: 19=-160
- 8) Dead + 0.6 C-C Wind (Pos. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=61, 2-3=52, 4-5=34, 6-13=12
Horz: 1-2=-73, 2-3=-64, 3-4=7, 5-6=36
Concentrated Loads (lb)
Vert: 19=-160
- 9) Dead + 0.6 C-C Wind (Pos. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=47, 2-3=52, 4-5=34, 6-13=12
Horz: 1-2=-59, 2-3=-64, 3-4=-69, 5-6=-23
Concentrated Loads (lb)
Vert: 19=-160
- 10) Dead + 0.6 C-C Wind (Neg. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-3, 2-3=-42, 4-5=-60, 6-13=-20
Horz: 1-2=-17, 2-3=22, 3-4=-48, 5-6=-33
Concentrated Loads (lb)
Vert: 19=-160
- 11) Dead + 0.6 C-C Wind (Neg. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-37, 2-3=-42, 4-5=-60, 6-13=-20
Horz: 1-2=17, 2-3=22, 3-4=28, 5-6=25
Concentrated Loads (lb)
Vert: 19=-160
- 12) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=28, 2-3=13, 4-5=8, 6-13=12
Horz: 1-2=-40, 2-3=-25, 3-4=-11, 5-6=18
Concentrated Loads (lb)
Vert: 19=-160
- 13) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=3, 2-3=8, 4-5=8, 6-13=12
Horz: 1-2=-15, 2-3=-20, 3-4=-26, 5-6=-15
Concentrated Loads (lb)
Vert: 19=-160
- 14) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-16, 2-3=-21, 4-5=-39, 6-13=-20
Horz: 1-2=-4, 2-3=1, 3-4=31, 5-6=7



June 10,2025

Continued on page 3

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)

ENGINEERING BY
TRENCO
A MiTek Affiliate

818 Soundside Road
Edenton, NC 27932

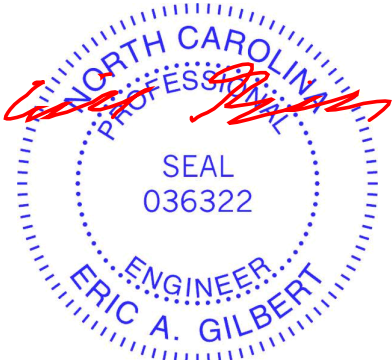
Job	Truss	Truss Type	Qty	Ply	CLB-LOT #5 Roof
25-3407-B	M04SGE	GABLE	1	1	174047364

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

8.830 s May 29 2025 MiTek Industries, Inc. Mon Jun 9 05:15:04 2025 Page 3
ID:Bxl2MwYau_NHkbraGcmHloyOvst-ay6?HB0oEtlAckV?cjtpvbHVUPxG13xNdaQaRoz86hL

LOAD CASE(S)

- Concentrated Loads (lb)
Vert: 19=-160
- 15) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-5, 2-3=-10, 4-5=-39, 6-13=-20
Horz: 1-2=-15, 2-3=-10, 3-4=-4, 5-6=-25
Concentrated Loads (lb)
Vert: 19=-160
- 16) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=32, 2-3=17, 4-5=-1, 6-13=-12
Horz: 1-2=-44, 2-3=-29, 3-4=-34, 5-6=23
Concentrated Loads (lb)
Vert: 19=-160
- 17) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=21, 2-3=6, 4-5=-12, 6-13=-12
Horz: 1-2=-33, 2-3=-18, 3-4=-24, 5-6=23
Concentrated Loads (lb)
Vert: 19=-160
- 18) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-16, 2-3=-21, 4-5=-39, 6-13=-20
Horz: 1-2=-4, 2-3=1, 3-4=6, 5-6=12
Concentrated Loads (lb)
Vert: 19=-160
- 19) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-16, 2-3=-21, 4-5=-39, 6-13=-20
Horz: 1-2=-4, 2-3=1, 3-4=6, 5-6=12
Concentrated Loads (lb)
Vert: 19=-160
- 20) Dead + Snow on Overhangs: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-43, 2-3=-20, 4-5=-50, 6-13=-20
Concentrated Loads (lb)
Vert: 19=-160
- 21) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-18=-43, 3-18=-49, 4-5=-57, 6-13=-20
Concentrated Loads (lb)
Vert: 19=-160
- 22) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-3=-27, 4-5=-88, 6-13=-20
Concentrated Loads (lb)
Vert: 19=-160
- 23) Dead: Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-3=-20, 4-5=-50, 6-13=-20
Concentrated Loads (lb)
Vert: 19=-160
- 24) Dead + 0.75 Snow (bal.) + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-34, 2-3=-38, 4-5=-124, 6-13=-20
Horz: 1-2=-3, 2-3=1, 3-4=23, 5-6=5
Concentrated Loads (lb)
Vert: 19=-160
- 25) Dead + 0.75 Snow (bal.) + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-26, 2-3=-30, 4-5=-124, 6-13=-20
Horz: 1-2=-11, 2-3=-7, 3-4=-3, 5-6=-19
Concentrated Loads (lb)
Vert: 19=-160
- 26) Dead + 0.75 Snow (bal.) + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-34, 2-3=-38, 4-5=-124, 6-13=-20
Horz: 1-2=-3, 2-3=1, 3-4=5, 5-6=9
Concentrated Loads (lb)
Vert: 19=-160
- 27) Dead + 0.75 Snow (bal.) + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60



June 10,2025

Continued on page 4

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)

ENGINEERING BY
TRENCO
A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

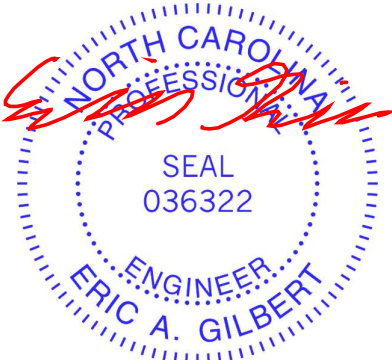
Job	Truss	Truss Type	Qty	Ply	CLB-LOT #5 Roof
25-3407-B	M04SGE	GABLE	1	1	174047364

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

8.830 s May 29 2025 MiTek Industries, Inc. Mon Jun 9 05:15:04 2025 Page 4
ID:Bxl2MwYau_NHkbraGcmHloyOvst-ay6?HB0oEtlAckV?cjtvpbHVUPxG13xNdaQaRoz86hL

LOAD CASE(S)

- Uniform Loads (plf)
Vert: 1-2=-34, 2-3=-38, 4-5=-124, 6-13=-20
Horz: 1-2=-3, 2-3=1, 3-4=5, 5-6=9
- Concentrated Loads (lb)
Vert: 19=-160
- 28) Dead + 0.75 Roof Live (bal.) + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60
- Uniform Loads (plf)
Vert: 1-2=-47, 2-3=-51, 4-5=-129, 6-13=-20
Horz: 1-2=-3, 2-3=1, 3-4=23, 5-6=5
- Concentrated Loads (lb)
Vert: 19=-160
- 29) Dead + 0.75 Roof Live (bal.) + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60
- Uniform Loads (plf)
Vert: 1-2=-39, 2-3=-43, 4-5=-129, 6-13=-20
Horz: 1-2=-11, 2-3=-7, 3-4=-3, 5-6=-19
- Concentrated Loads (lb)
Vert: 19=-160
- 30) Dead + 0.75 Roof Live (bal.) + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60
- Uniform Loads (plf)
Vert: 1-2=-47, 2-3=-51, 4-5=-129, 6-13=-20
Horz: 1-2=-3, 2-3=1, 3-4=5, 5-6=9
- Concentrated Loads (lb)
Vert: 19=-160
- 31) Dead + 0.75 Roof Live (bal.) + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60
- Uniform Loads (plf)
Vert: 1-2=-47, 2-3=-51, 4-5=-129, 6-13=-20
Horz: 1-2=-3, 2-3=1, 3-4=5, 5-6=9
- Concentrated Loads (lb)
Vert: 19=-160
- 32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
Vert: 1-3=-20, 4-5=-80, 6-13=-20
- Concentrated Loads (lb)
Vert: 19=-160
- 33) Dead + 0.6 C-C Wind Min. Down: Lumber Increase=1.60, Plate Increase=1.60
- Uniform Loads (plf)
Vert: 1-2=4, 2-3=-28, 4-5=-46, 6-13=-12
Horz: 1-2=-16, 2-3=16, 3-4=-16, 5-6=-16
- Concentrated Loads (lb)
Vert: 19=-160
- 34) Dead + 0.6 C-C Wind Min. Upward: Lumber Increase=1.60, Plate Increase=1.60
- Uniform Loads (plf)
Vert: 1-3=4, 4-5=-14, 6-13=-12
Horz: 1-3=-16, 3-4=16, 5-6=16
- Concentrated Loads (lb)
Vert: 19=-160
- 35) 3rd Unbal.Dead + Snow (balanced) + Parallel: Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
Vert: 1-3=-27, 4-5=-100, 6-13=-20
- Concentrated Loads (lb)
Vert: 19=-160
- 36) 4th Unbal.Dead + Snow (balanced) + Parallel: Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
Vert: 1-3=-70, 4-5=-57, 6-13=-20
- Concentrated Loads (lb)
Vert: 19=-160
- 37) 5th Unbal.Dead + 0.75 Snow (balanced) + 0.75 Attic Floor + Parallel: Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
Vert: 1-3=-25, 4-5=-146, 6-13=-20
- Concentrated Loads (lb)
Vert: 19=-160
- 38) 6th Unbal.Dead + 0.75 Snow (balanced) + 0.75 Attic Floor + Parallel: Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
Vert: 1-3=-57, 4-5=-114, 6-13=-20
- Concentrated Loads (lb)
Vert: 19=-160
- 39) 7th Unbal.Dead + 0.75 Snow (unbal.) + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) Left) + Parallel: Lumber Increase=1.60, Plate Increase=1.60
- Uniform Loads (plf)
Vert: 1-2=-22, 2-3=-26, 4-5=-137, 6-13=-20
Horz: 1-2=-3, 2-3=1, 3-4=23, 5-6=5
- Concentrated Loads (lb)
Vert: 19=-160



June 10,2025

Continued on page 5

 **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)

ENGINEERING BY
TRENCO
A MiTek Affiliate

818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	CLB-LOT #5 Roof
25-3407-B	M04SGE	GABLE	1	1	174047364

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

8.830 s May 29 2025 MiTek Industries, Inc. Mon Jun 9 05:15:04 2025 Page 5
ID:Bxl2MwYau_NHkbraGCMHloyOvst-ay6?HB0oEtlAckV?cjtptvbHVUPxG13xNdaQaRoz86hL

LOAD CASE(S)

- 40) 8th Unbal.Dead + 0.75 Snow (unbal.) + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) Left) + Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-54, 2-3=-58, 4-5=-105, 6-13=-20
Horz: 1-2=-3, 2-3=1, 3-4=23, 5-6=5
Concentrated Loads (lb)
Vert: 19=-160
- 41) 9th Unbal.Dead + 0.75 Snow (unbal.) + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) Right) + Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-14, 2-3=-18, 4-5=-137, 6-13=-20
Horz: 1-2=-11, 2-3=-7, 3-4=-3, 5-6=-19
Concentrated Loads (lb)
Vert: 19=-160
- 42) 10th Unbal.Dead + 0.75 Snow (unbal.) + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) Right) + Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-46, 2-3=-50, 4-5=-105, 6-13=-20
Horz: 1-2=-11, 2-3=-7, 3-4=-3, 5-6=-19
Concentrated Loads (lb)
Vert: 19=-160
- 43) 11th Unbal.Dead + 0.75 Snow (unbal.) + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-22, 2-3=-26, 4-5=-137, 6-13=-20
Horz: 1-2=-3, 2-3=1, 3-4=5, 5-6=9
Concentrated Loads (lb)
Vert: 19=-160
- 44) 12th Unbal.Dead + 0.75 Snow (unbal.) + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-54, 2-3=-58, 4-5=-105, 6-13=-20
Horz: 1-2=-3, 2-3=1, 3-4=5, 5-6=9
Concentrated Loads (lb)
Vert: 19=-160
- 45) 13th Unbal.Dead + 0.75 Snow (unbal.) + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-22, 2-3=-26, 4-5=-137, 6-13=-20
Horz: 1-2=-3, 2-3=1, 3-4=5, 5-6=9
Concentrated Loads (lb)
Vert: 19=-160
- 46) 14th Unbal.Dead + 0.75 Snow (unbal.) + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-54, 2-3=-58, 4-5=-105, 6-13=-20
Horz: 1-2=-3, 2-3=1, 3-4=5, 5-6=9
Concentrated Loads (lb)
Vert: 19=-160
- 47) 15th Unbal.Dead + Minimum Snow + Parallel: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-3=-27, 4-5=-100, 6-13=-20
Concentrated Loads (lb)
Vert: 19=-160
- 48) 16th Unbal.Dead + Minimum Snow + Parallel: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-3=-70, 4-5=-57, 6-13=-20
Concentrated Loads (lb)
Vert: 19=-160
- 49) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-3=-60, 4-5=-50, 6-13=-20
Concentrated Loads (lb)
Vert: 19=-160
- 50) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-3=-20, 4-5=-90, 6-13=-20
Concentrated Loads (lb)
Vert: 19=-160
- 51) 3rd Dead + 0.75 Roof Live (unbalanced) + 0.75 Attic Floor: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-3=-50, 4-5=-109, 6-13=-20
Concentrated Loads (lb)
Vert: 19=-160
- 52) 4th Dead + 0.75 Roof Live (unbalanced) + 0.75 Attic Floor: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-3=-20, 4-5=-139, 6-13=-20
Concentrated Loads (lb)
Vert: 19=-160



June 10,2025

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)

ENGINEERING BY
TRENCO
A MiTek Affiliate

818 Soundside Road
Edenton, NC 27932

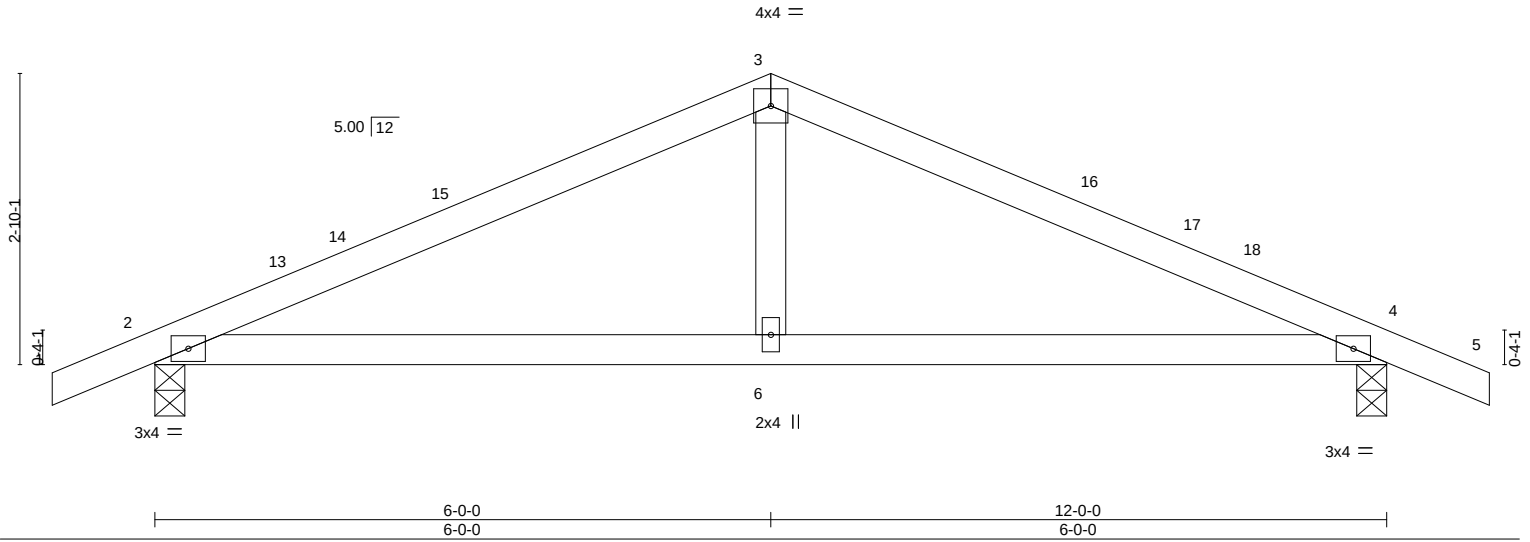
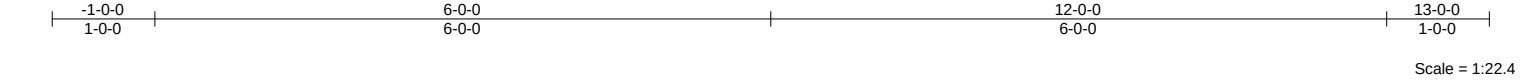
Job	Truss	Truss Type	Qty	Ply	CLB-LOT #5 Roof
25-3407-B	T01	Common	5	1	174047365

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

8.830 s May 29 2025 MiTek Industries, Inc. Mon Jun 9 05:15:05 2025 Page 1

ID:BxI2MwYau_NHkbraGcmHloyOvst-29gNux1Q?AQ1Du4BARO2Soqh?pD1mV?WsEA7zEz86hK

Job Reference (optional)



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.47	in (loc) l/defl L/d	MT20	244/190
Snow (Pf/Pg) 11.6/15.0	Plate Grip DOL 1.15	BC 0.47	Vert(LL) -0.05 6-12 >999 240		
TCDL 10.0	Lumber DOL 1.15	WB 0.11	Vert(CT) -0.09 6-12 >999 180		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-MS	Horz(CT) 0.01 4 n/a n/a		
BCDL 10.0	Code IRC2018/TPI2014			Weight: 44 lb	FT = 20%

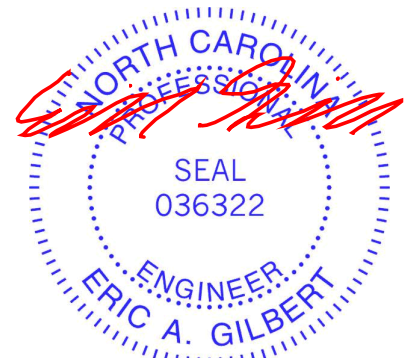
LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3	

REACTIONS. (size) 2=0-3-8, 4=0-3-8
Max Horz 2=-37(LC 14)
Max Uplift 2=-61(LC 16), 4=-61(LC 16)
Max Grav 2=540(LC 2), 4=540(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-763/235, 3-4=-763/235
BOT CHORD 2-6=-115/652, 4-6=-115/652
WEBS 3-6=0/280

NOTES-

- Unbalanced roof live loads have been considered for this design.
- 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
- 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
- Unbalanced snow loads have been considered for this design.
- 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.
- 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 4.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



June 10, 2025

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

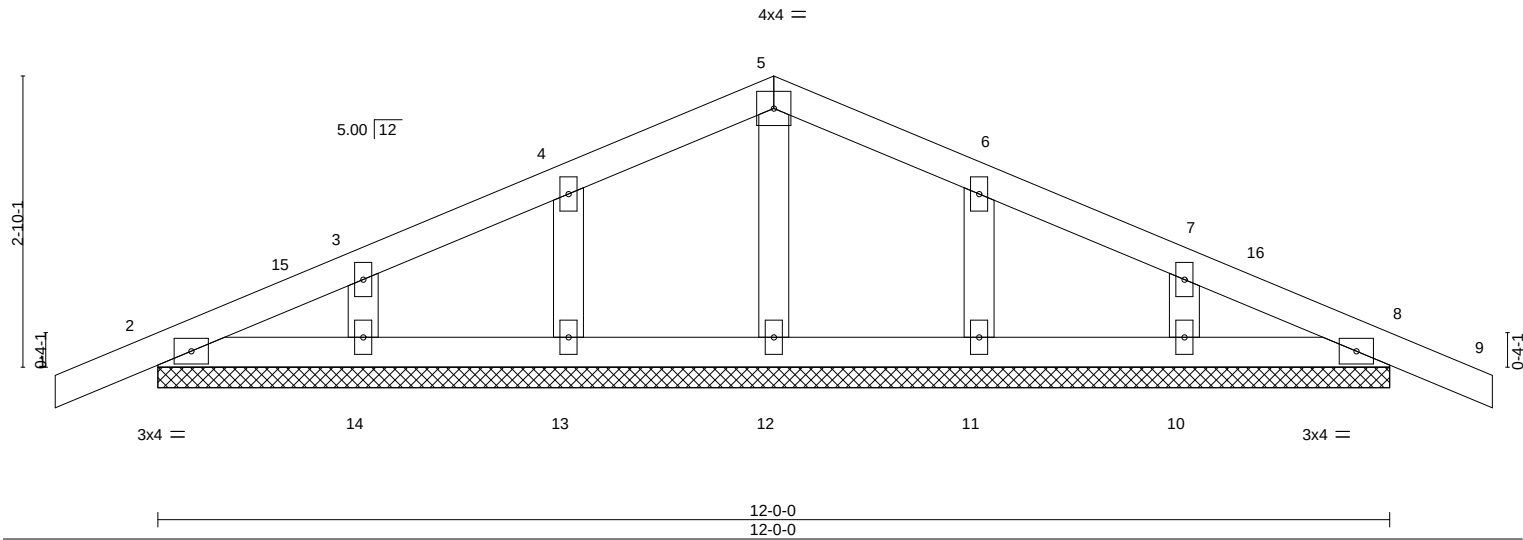
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall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

ENGINEERING BY
TRENCO
A MiTek Affiliate

818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	CLB-LOT #5 Roof
25-3407-B	T01GE	GABLE	1	1	174047366

Riverside Roof Truss, LLC, Danville, Va - 24541, 8.830 s May 29 2025 MiTek Industries, Inc. Mon Jun 9 05:15:05 2025 Page 1
ID:BxI2MwYau_NHkbraGCMhloyOvst-29gNUX1Q?AQ1Du4BARO2SoqnlpKymW7WsEA7zEz86hK
-1-0-0 1-0-0 6-0-0 6-0-0 12-0-0 13-0-0 1-0-0
Scale = 1:22.4



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.07	in (loc) l/defl L/d	MT20	244/190
Snow (Pf/Pg) 11.6/15.0	Plate Grip DOL 1.15	BC 0.03	Vert(LL) -0.00 9 n/r 120		
TCDL 10.0	Lumber DOL 1.15	WB 0.03	Vert(CT) -0.00 9 n/r 120		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-S	Horz(CT) 0.00 8 n/a n/a		
BCDL 10.0	Code IRC2018/TPI2014			Weight: 50 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD 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.
(lb) - Max Horz 2=-37(LC 14)
Max Uplift All uplift 100 lb or less at joint(s) 2, 8, 13, 14, 11, 10
Max Grav All reactions 250 lb or less at joint(s) 2, 8, 12, 13, 14, 11, 10

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

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TC DL=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 6-0-0, Corner(3R) 6-0-0 to 9-0-0, Exterior(2N) 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
 - 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
 - Unbalanced snow loads have been considered for this design.
 - 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.
 - All plates are 2x4 MT20 unless otherwise indicated.
 - Gable requires continuous bottom chord bearing.
 - Gable studs spaced at 2-0-0 oc.
 - 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.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 8, 13, 14, 11, 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.



June 10,2025

Job	Truss	Truss Type	Qty	Ply	CLB-LOT #5 Roof
25-3407-B	T02	Common	1	1	174047367

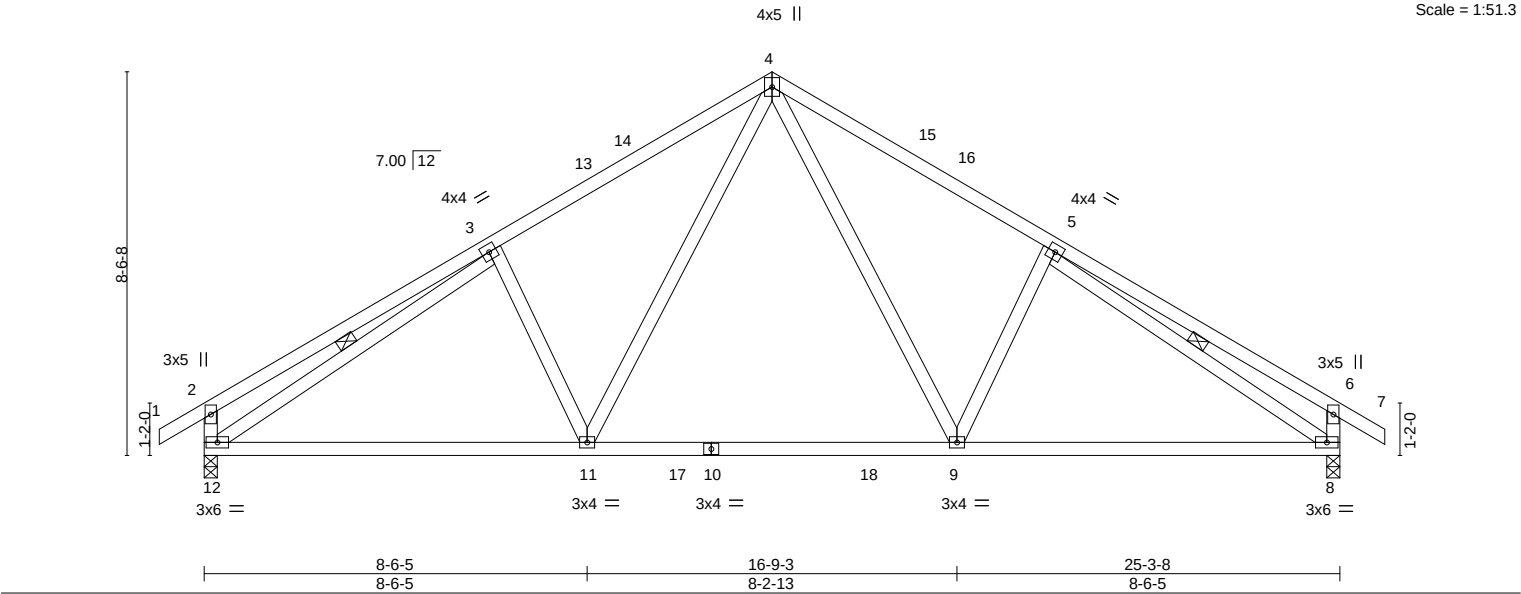
Riverside Roof Truss, LLC, Danville, Va - 24541,

8.830 s May 29 2025 MiTek Industries, Inc. Mon Jun 9 05:15:06 2025 Page 1

ID:Bxl2MwYau_NHkbraGcmHloyOvst-WLEmit12mUZur2eOj8vH?0MriDT3Vtsg5uvhVgz86hJ

1-0-0 6-5-10 12-7-12 18-9-14 25-3-8 26-3-8

1-0-0 6-5-10 6-2-2 6-2-2 6-5-10 1-0-0



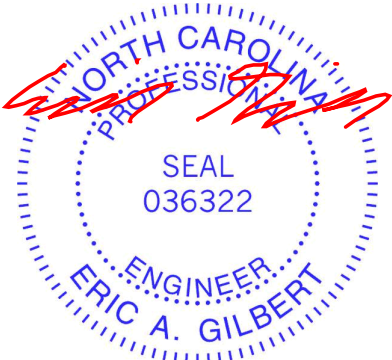
LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.54	in (loc) l/defl L/d	MT20	244/190
Snow (Pf/Pg) 11.6/15.0	Plate Grip DOL 1.15	BC 0.81	Vert(LL) -0.16 9-11 >999 240		
TCDL 10.0	Lumber DOL 1.15	WB 0.39	Vert(CT) -0.25 11-12 >999 180		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-MS	Horz(CT) 0.04 8 n/a n/a		
BCDL 10.0	Code IRC2018/TPI2014			Weight: 150 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 4-7-10 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3	WEBS 1 Row at midpt 3-12, 5-8

REACTIONS. (size) 12=0-3-8, 8=0-3-8
Max Horz 12=189(LC 15)
Max Uplift 12=-97(LC 16), 8=-97(LC 16)
Max Grav 12=1185(LC 28), 8=1185(LC 29)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-414/125, 3-4=-1368/197, 4-5=-1369/197, 5-6=-414/125, 2-12=-406/135, 6-8=-405/135
BOT CHORD 11-12=-60/1285, 9-11=0/910, 8-9=-49/1174
WEBS 4-9=-46/613, 5-9=-264/162, 4-11=-46/613, 3-11=-264/162, 3-12=-1151/49, 5-8=-1151/49

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=25ft; 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 12-7-12, Exterior(2R) 12-7-12 to 15-7-12, Interior(1) 15-7-12 to 26-3-8 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
 - 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
 - Unbalanced snow loads have been considered for this design.
 - 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.
 - 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.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 12, 8.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



June 10,2025

Job	Truss	Truss Type	Qty	Ply	CLB-LOT #5 Roof
25-3407-B	T02G	Common Girder	1	3	174047368

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

8.830 s May 29 2025 MiTek Industries, Inc. Mon Jun 9 05:15:07 2025 Page 1

ID:Bxl2MwYau_NHkbraGcmHloyOvst-_Xn8vD2gXohlTCDaHsQWXDwbcupECcpJYfE27z86hl

4-4-15 8-6-5 12-7-12 16-9-3 20-10-9 25-3-8

4-4-15 4-1-7 4-1-7 4-1-7 4-1-7 4-4-15

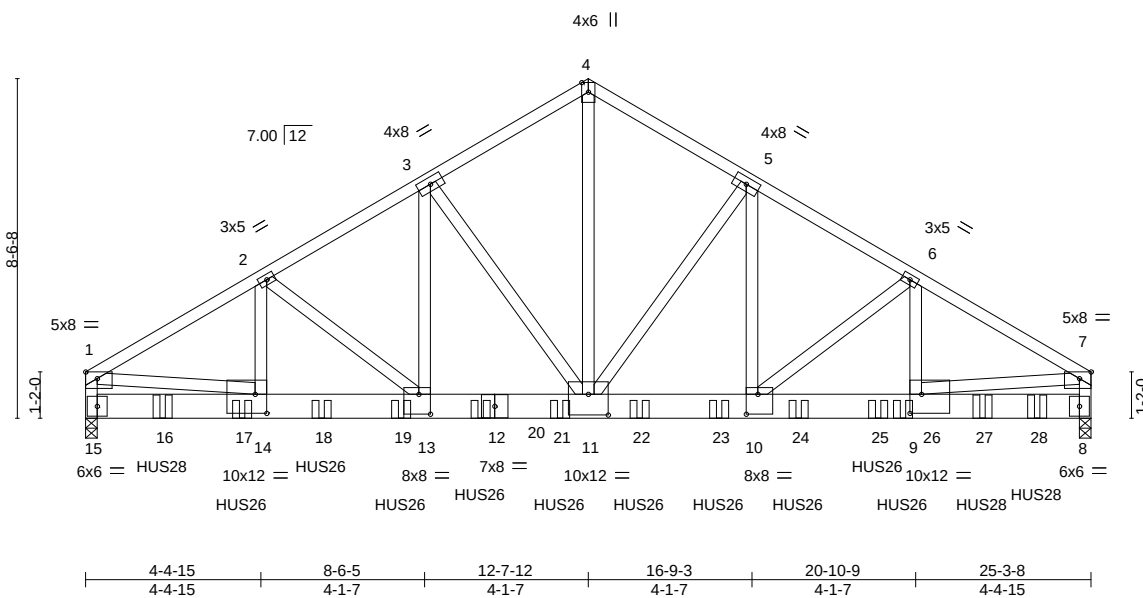


Plate Offsets (X,Y)-- [1:Edge,0-2-0], [7:0-3-8,Edge], [9:0-3-8,0-5-12], [10:0-3-8,0-6-0], [11:0-6-0,0-6-4], [13:0-3-8,0-6-0], [14:0-3-8,0-5-12]									
LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.97	in (loc)	l/defl	MT20	GRIP
Snow (Pf/Pg)	11.6/15.0	Lumber DOL	1.15	BC	0.45	Vert(LL)	-0.16 10-11 >999		244/190
TCDL	10.0	Rep Stress Incr	NO	WB	0.93	Vert(CT)	-0.30 10-11 >999		
BCLL	0.0 *	Code IRC2018/TPI2014		Matrix-MS		Horz(CT)	0.04 8 n/a		
BCDL	10.0							Weight: 613 lb	FT = 20%

LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 4-3-6 oc purlins, except end verticals.
BOT CHORD	2x8 SP DSS	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	2x4 SP No.3 *Except*		
	4-11: 2x4 SP No.2, 1-15,1-14,7-8,7-9: 2x4 SP No.1		

REACTIONS. (size) 15=0-3-8, 8=0-3-8
Max Horz 15=-171(LC 10)
Max Uplift 15=-513(LC 12), 8=-456(LC 12)
Max Grav 15=11264(LC 3), 8=13361(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-15107/688, 2-3=-14142/615, 3-4=-11591/504, 4-5=-11592/504, 5-6=-14922/549, 6-7=-17208/569, 1-15=-9820/456, 7-8=-11164/378
BOT CHORD 14-15=-169/1601, 13-14=-530/12976, 11-13=-396/12186, 10-11=-339/12864, 9-10=-428/14785, 8-9=-75/1910
WEBS 4-11=-431/11394, 5-11=-4909/187, 5-10=-102/5446, 6-10=-2477/113, 6-9=-106/2594, 3-11=-3755/284, 3-13=-214/4128, 2-13=-1043/171, 2-14=-164/1014, 1-14=-454/11564, 7-9=-359/13089

- NOTES-
- 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: 2x8 - 3 rows staggered at 0-4-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
 - All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
 - Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=25ft; 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
 - 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
 - Unbalanced snow loads have been considered for this design.
 - 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.
 - Bearing at joint(s) 15, 8 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 15=513, 8=456.



June 10,2025

Continued on page 2

Job	Truss	Truss Type	Qty	Ply	CLB-LOT #5 Roof
25-3407-B	T02G	Common Girder	1	3	174047368

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

8.830 s May 29 2025 MiTek Industries, Inc. Mon Jun 9 05:15:07 2025 Page 2
ID:Bxl2MwYau_NHkbraGCmHloyOvst-_Xn8vD2gXohlTCDaHsQWXDwvbcupECcpJYfE27z86hl

- 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 HUS28 (22-10d Girder, 4-10d Truss) or equivalent spaced at 20-7-8 oc max. starting at 1-11-4 from the left end to 23-11-4 to connect truss(es) to back face of bottom chord.
 - 13) Use Simpson Strong-Tie HUS26 (14-10d Girder, 4-10d Truss) or equivalent spaced at 2-0-0 oc max. starting at 3-11-4 from the left end to 20-6-12 to connect truss(es) to back 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=-43, 4-7=-43, 8-15=-20

Concentrated Loads (lb)

Vert: 16=-1170(B) 17=-1170(B) 18=-1170(B) 19=-1170(B) 20=-1273(B) 21=-1273(B) 22=-1273(B) 23=-1273(B) 24=-1273(B) 25=-1273(B) 26=-1273(B) 27=-1273(B) 28=-1170(B)

Eric Gilbert



June 10,2025

Job	Truss	Truss Type	Qty	Ply	CLB-LOT #5 Roof	174047369
25-3407-B	T02SGE	Common Structural Gable	1	1	Job Reference (optional)	

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

8.830 s May 29 2025 MiTek Industries, Inc. Mon Jun 9 05:15:08 2025 Page 1

ID:BxI2MwYau_NHkbraGCMhloyOvst-TkLW7Z3Jl5pc4LomrZyl4RSCd0CozmpyYConaZz86hH

1-0-0 6-5-10 12-7-12 18-9-14 25-3-8 26-3-8 1-0-0

1-0-0 6-5-10 6-2-2 6-2-2 6-5-10 1-0-0

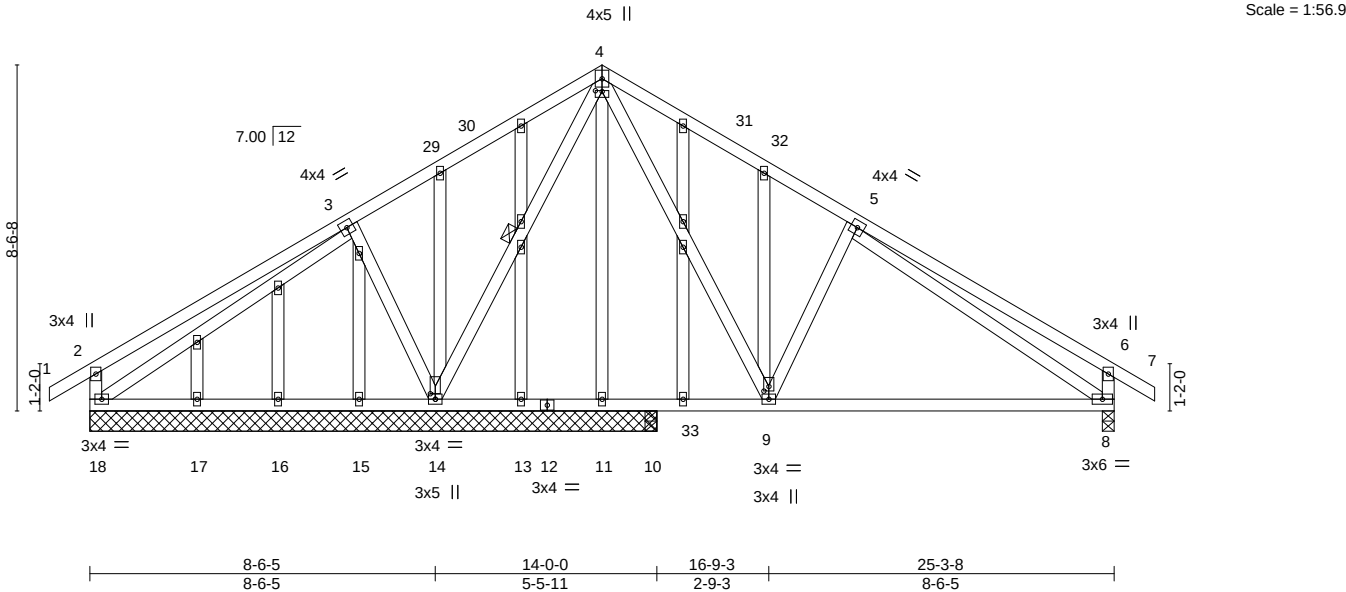


Plate Offsets (X,Y)-- [4:0-2-0,0-0-4], [9:0-1-6,0-1-8], [14:0-1-10,0-1-8]									
LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.51	Vert(LL)	-0.13 8-9 >999 240	MT20	GRIP 244/190
Snow (Pf/Pg)	11.6/15.0	Lumber DOL	1.15	BC	0.60	Vert(CT)	-0.26 8-9 >528 180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.49	Horz(CT)	0.01 8 n/a n/a		
BCLL	0.0 *	Code	IRC2018/TPI2014	Matrix-MS				Weight: 209 lb	FT = 20%
BCDL	10.0								

LUMBER-					BRACING-				
TOP CHORD	2x4 SP No.2				TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.			
BOT CHORD	2x4 SP No.2				BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.			
WEBS	2x4 SP No.3				WEBS	1 Row at midpt	4-14		
OTHERS	2x4 SP No.3								

REACTIONS. All bearings 14-0-0 except (jt=length) 8=0-3-8, 10=0-3-8.
 (lb) - Max Horz 18=189(LC 15)
 Max Uplift All uplift 100 lb or less at joint(s) 18, 8, 10 except 14=-123(LC 16)
 Max Grav All reactions 250 lb or less at joint(s) 11, 13, 15, 16, 17, 10 except 18=327(LC 34), 8=769(LC 29), 14=933(LC 28)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 4-5=-664/168, 5-6=-395/122, 2-18=-306/150, 6-8=-392/133
 BOT CHORD 13-14=0/254, 11-13=0/254, 10-11=0/254, 9-10=0/254, 8-9=-19/574
 WEBS 4-9=-51/615, 5-9=-315/165, 4-14=-633/23, 3-14=-374/174, 5-8=-427/14

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=25ft; 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 12-7-12, Exterior(2R) 12-7-12 to 15-7-12, Interior(1) 15-7-12 to 26-3-8 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
 - 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
 - Unbalanced snow loads have been considered for this design.
 - 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.
 - All plates are 2x4 MT20 unless otherwise indicated.
 - Gable studs spaced at 2-0-0 oc.
 - 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.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 18, 8, 10 except (jt=lb) 14=123.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

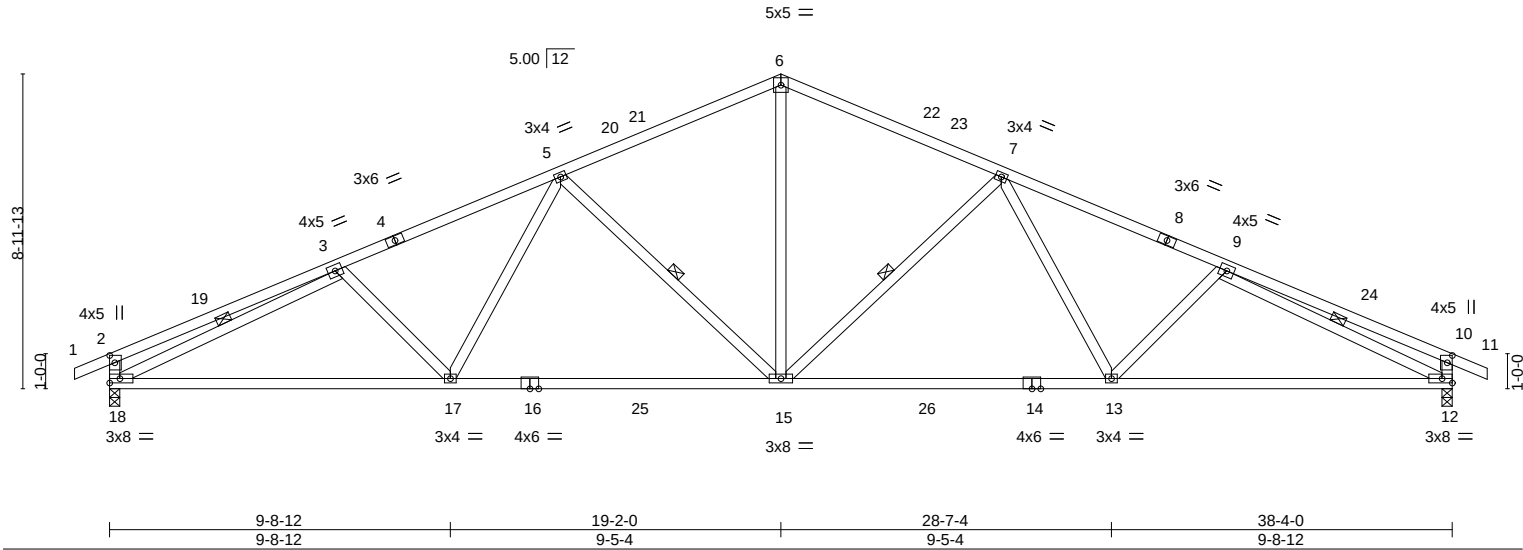


June 10,2025

Job	Truss	Truss Type	Qty	Ply	CLB-LOT #5 Roof
25-3407-B	T03	Common	6	1	174047370

Riverside Roof Truss, LLC, Danville, Va - 24541, 8.830 s May 29 2025 MiTek Industries, Inc. Mon Jun 9 05:15:09 2025 Page 1
ID:Bxl2MwYau_NHkbraGcmHloyOvst-xwvuKv4x3PxTiVNzPGT_ce_IGQUUi9g6ns8L6?z86hG
1-0-0 6-7-0 12-10-8 19-2-0 25-5-8 31-9-0 38-4-0 39-4-0
1-0-0 6-7-0 6-3-8 6-3-8 6-3-8 6-3-8 6-7-0 1-0-0

Scale = 1:65.8



Job	Truss	Truss Type	Qty	Ply	CLB-LOT #5 Roof
25-3407-B	T03GE	Common Supported Gable	1	1	174047373

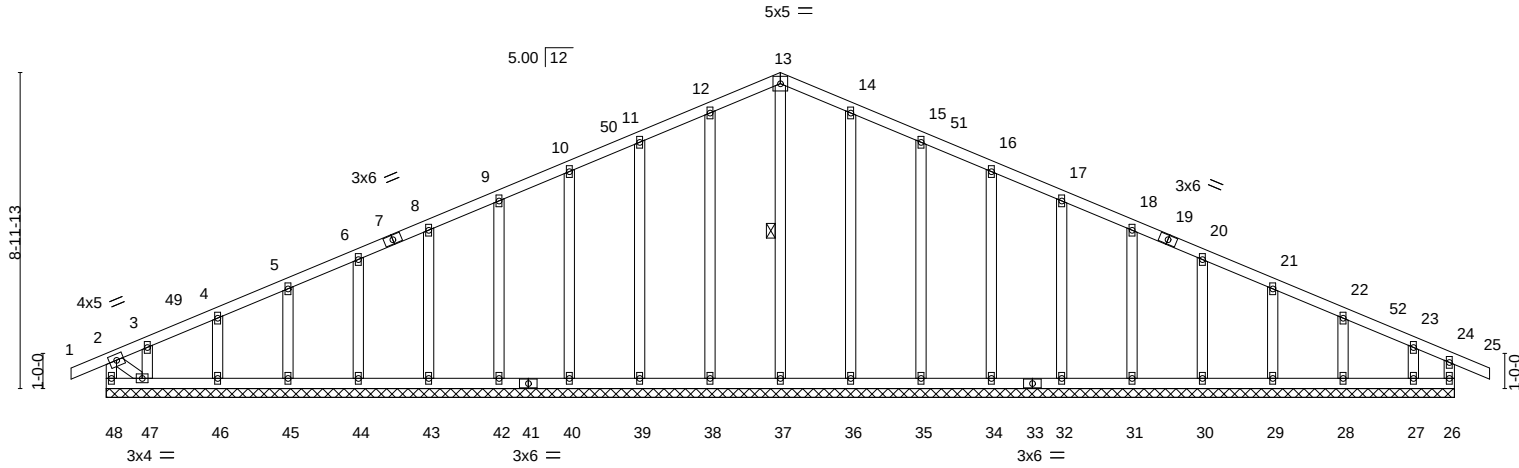
Riverside Roof Truss, LLC, Danville, Va - 24541,

8.830 s May 29 2025 MiTek Industries, Inc. Mon Jun 9 05:15:11 2025 Page 1

ID:BxI2MwYau_NHkbraGCmHloyOvst-tJ1flb5Bb0BBxpXLWhvSi34ocDNwACUPEAdSBuz86hE

1-0-0 1-0-0 19-2-0 19-2-0 38-4-0 38-4-0 39-4-0 1-0-0

Scale = 1:65.5



LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.14	Vert(LL)	-0.00 25 n/r 120	MT20		244/190	
Snow (Pf/Pg)	11.6/15.0	Lumber DOL	1.15	BC	0.06	Vert(CT)	-0.01 25 n/r 120				
TCDL	10.0	Rep Stress Incr	YES	WB	0.17	Horz(CT)	0.00 26 n/a n/a				
BCLL	0.0 *	Code IRC2018/TPI2014		Matrix-S							
BCDL	10.0										
								Weight: 252 lb		FT = 20%	

LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	2x4 SP No.2	BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS	2x4 SP No.3	WEBS	1 Row at midpt 13-37
OTHERS	2x4 SP No.3		

REACTIONS. All bearings 38-4-0.
(lb) - Max Horz 48=-160(LC 14)
Max Uplift All uplift 100 lb or less at joint(s) 48, 38, 39, 40, 42, 43, 44, 45, 46, 47, 36, 35, 34, 32, 31, 30, 29, 28, 27
Max Grav All reactions 250 lb or less at joint(s) 48, 26, 37, 38, 39, 40, 42, 43, 44, 45, 46, 47, 36, 35, 34, 32, 31, 30, 29, 28, 27

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 12-13=-106/276, 13-14=-106/276

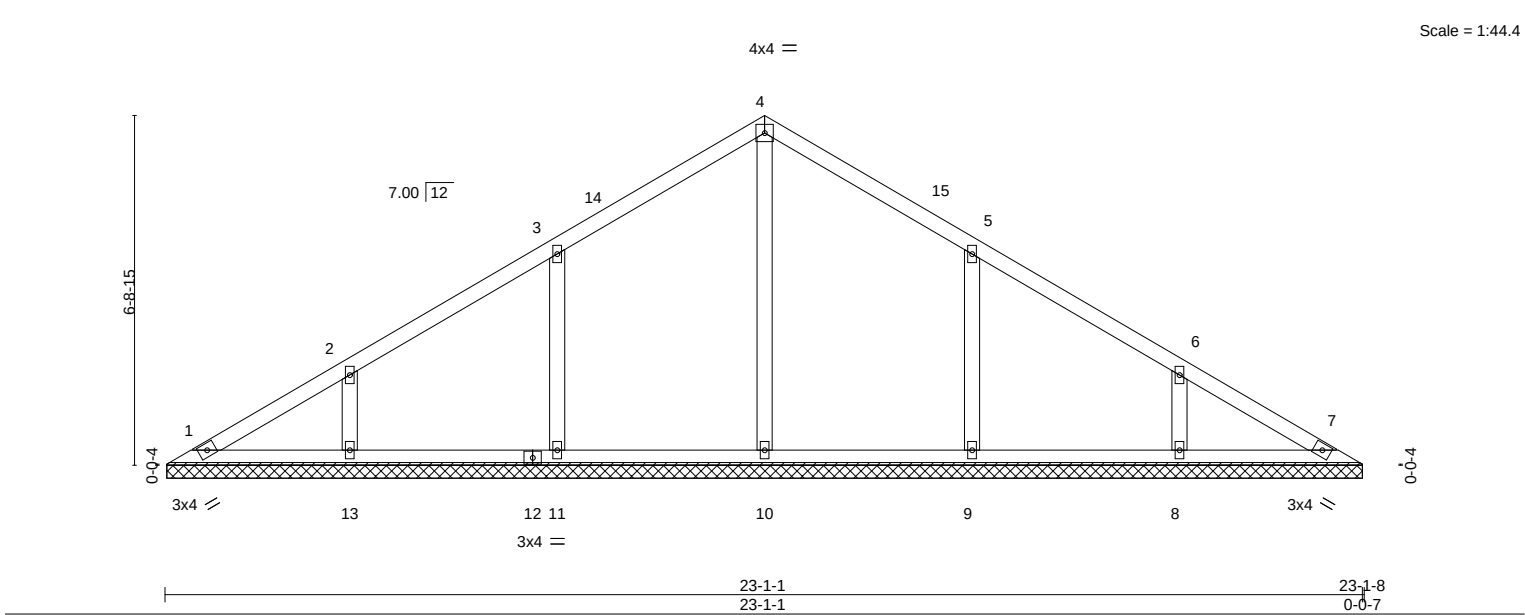
- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=38ft; eave=2ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Corner(3E) -1-0-0 to 2-10-0, Exterior(2N) 2-10-0 to 19-2-0, Corner(3R) 19-2-0 to 23-2-0, Exterior(2N) 23-2-0 to 39-4-0 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
 - 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
 - Unbalanced snow loads have been considered for this design.
 - 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.
 - All plates are 2x4 MT20 unless otherwise indicated.
 - Gable requires continuous bottom chord bearing.
 - Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
 - Gable studs spaced at 2-0-0 oc.
 - 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.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 48, 38, 39, 40, 42, 43, 44, 45, 46, 47, 36, 35, 34, 32, 31, 30, 29, 28, 27.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



June 10,2025

Job	Truss	Truss Type	Qty	Ply	CLB-LOT #5 Roof
25-3407-B	V01	Valley	1	1	174047375

Riverside Roof Truss, LLC,	Danville, Va - 24541,	8.830 s May 29 2025 MiTek Industries, Inc. Mon Jun 9 05:15:13 2025 Page 1
ID:Bxl2MwYau_NHkbraGCMhloyOvst-ph9PAG7R7eRvB7hke6XwnU96910be6LiiU6YFmz86hC		23-1-8
11-6-12		11-6-12



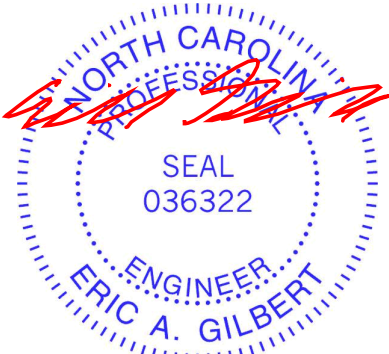
LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.20	in (loc) l/defl L/d	MT20	244/190
Snow (Pf/Pg) 11.6/15.0	Plate Grip DOL 1.15	BC 0.17	Vert(LL) n/a - n/a 999		
TCDL 10.0	Lumber DOL 1.15	WB 0.15	Vert(CT) n/a - n/a 999		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-S	Horz(CT) 0.00 7 n/a n/a		
BCDL 10.0	Code IRC2018/TPI2014			Weight: 97 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD 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 23-0-10.
(lb) - Max Horz	1=-128(LC 14)
Max Uplift	All uplift 100 lb or less at joint(s) 11, 13, 9, 8
Max Grav	All reactions 250 lb or less at joint(s) 1, 7 except 10=379(LC 27), 11=431(LC 27), 13=363(LC 27), 9=431(LC 28), 8=363(LC 28)

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS	3-11=-263/125, 5-9=-263/125

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - 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 3-6-12, Interior(1) 3-6-12 to 11-6-12, Exterior(2R) 11-6-12 to 14-6-12, Interior(1) 14-6-12 to 22-7-0 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
 - 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
 - Unbalanced snow loads have been considered for this design.
 - All plates are 2x4 MT20 unless otherwise indicated.
 - Gable requires continuous bottom chord bearing.
 - 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.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 11, 13, 9, 8.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



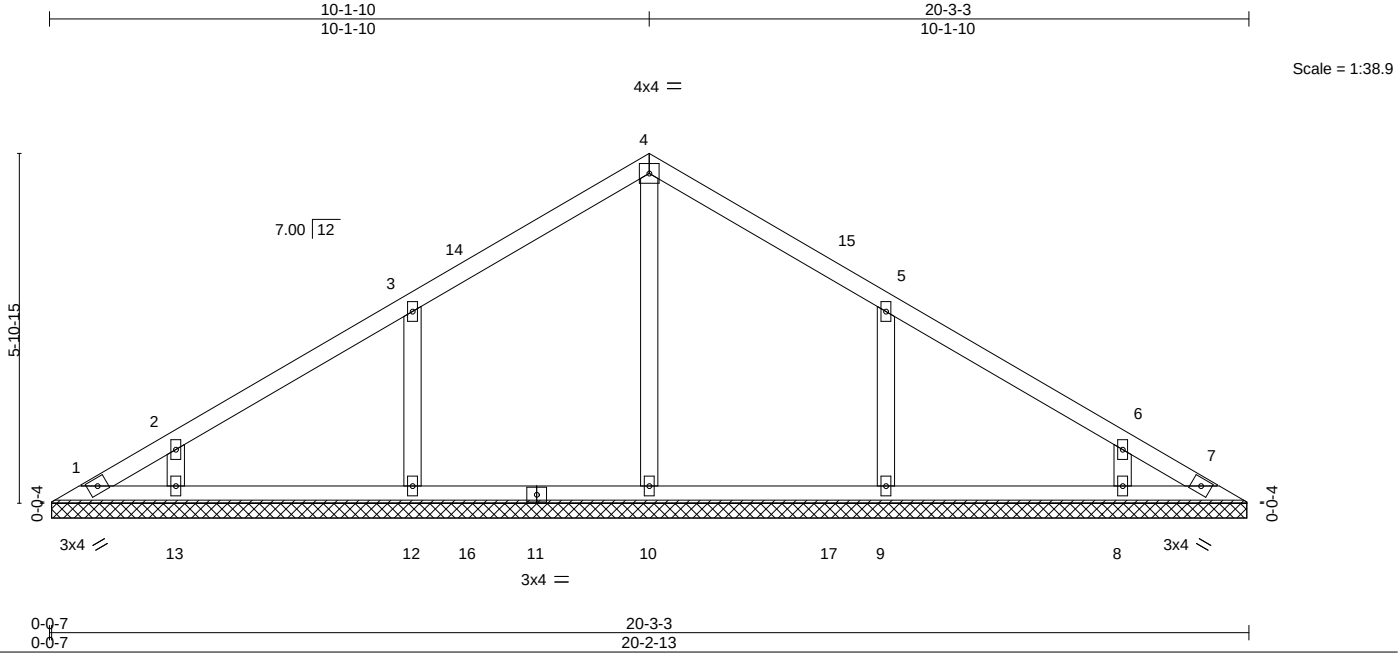
June 10,2025

Job	Truss	Truss Type	Qty	Ply	CLB-LOT #5 Roof
25-3407-B	V02	Valley	1	1	174047376

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

8.830 s May 29 2025 MiTek Industries, Inc. Mon Jun 9 05:15:13 2025 Page 1

ID:Bxl2MwYau_NHkbraGCmHloyOvst-ph9PAG7R7eRvB7hke6XwnU96610ke7viiU6YFmz86hC



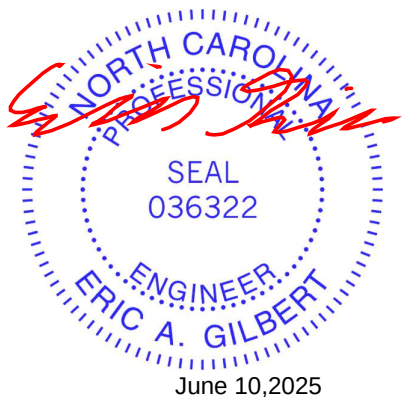
LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.20	Vert(LL)	n/a	-	n/a	MT20	244/190
Snow (Pf/Pg) 11.6/15.0	Plate Grip DOL 1.15	BC 0.17	Vert(CT)	n/a	-	n/a		
TCDL 10.0	Lumber DOL 1.15	WB 0.11	Horz(CT)	0.00	7	n/a		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-S						
BCDL 10.0	Code IRC2018/TPI2014						Weight: 82 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD 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 20-2-6.
(lb) - Max Horz 1=112(LC 15)
Max Uplift All uplift 100 lb or less at joint(s) 1, 7, 12, 13, 9, 8
Max Grav All reactions 250 lb or less at joint(s) 1, 7 except 10=370(LC 27), 12=428(LC 27), 13=307(LC 27), 9=428(LC 28), 8=307(LC 28)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 3-12=-268/127, 5-9=-268/127

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - 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 10-1-10, Exterior(2R) 10-1-10 to 13-1-10, Interior(1) 13-1-10 to 19-8-11 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
 - 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
 - Unbalanced snow loads have been considered for this design.
 - All plates are 2x4 MT20 unless otherwise indicated.
 - Gable requires continuous bottom chord bearing.
 - 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.
 - 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.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



June 10,2025

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)

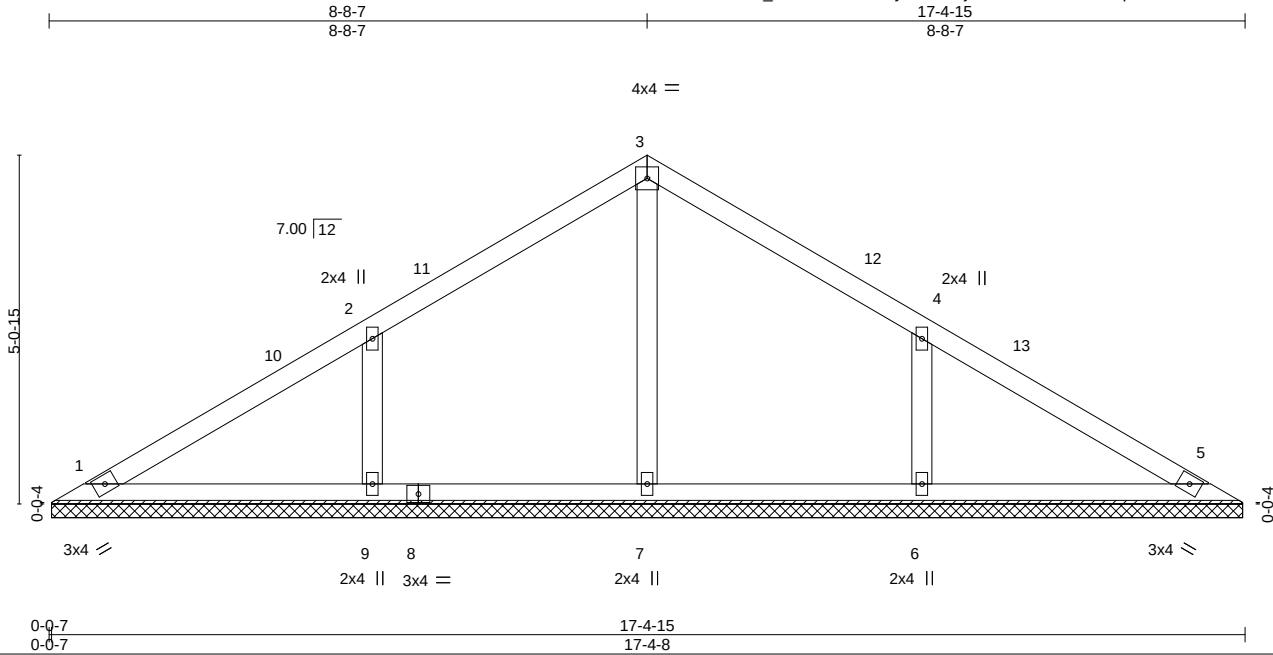
ENGINEERING BY
TRENCO
A MiTek Affiliate

818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	CLB-LOT #5 Roof
25-3407-B	V03	Valley	1	1	174047377

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

8.830 s May 29 2025 MiTek Industries, Inc. Mon Jun 9 05:15:14 2025 Page 1
ID:Bxl2MwYau_NHkbraGcmHloyOvst-HujnNc84uxZmoGGwBq39JiiH9RMKNafw8r6nDz86hB



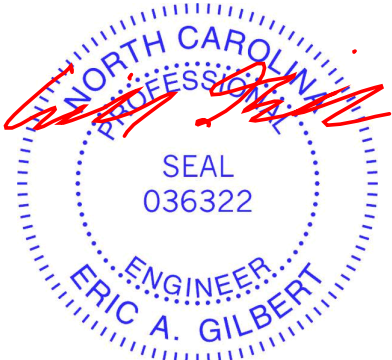
LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.25	Vert(LL)	n/a	-	n/a	MT20	244/190
Snow (Pf/Pg) 11.6/15.0	Plate Grip DOL 1.15	BC 0.14	Vert(CT)	n/a	-	n/a		
TCDL 10.0	Lumber DOL 1.15	WB 0.08	Horz(CT)	0.00	5	n/a		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-S						
BCDL 10.0	Code IRC2018/TPI2014						Weight: 67 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD 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 17-4-1.
(lb) - Max Horz 1=-95(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, 7 except 9=391(LC 33), 6=391(LC 34)	

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 2-9=-291/134, 4-6=-291/134	

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - 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 8-8-7, Exterior(2R) 8-8-7 to 11-8-7, Interior(1) 11-8-7 to 16-10-7 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
 - 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
 - Unbalanced snow loads have been considered for this design.
 - Gable requires continuous bottom chord bearing.
 - 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.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 9, 6.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



June 10,2025

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)

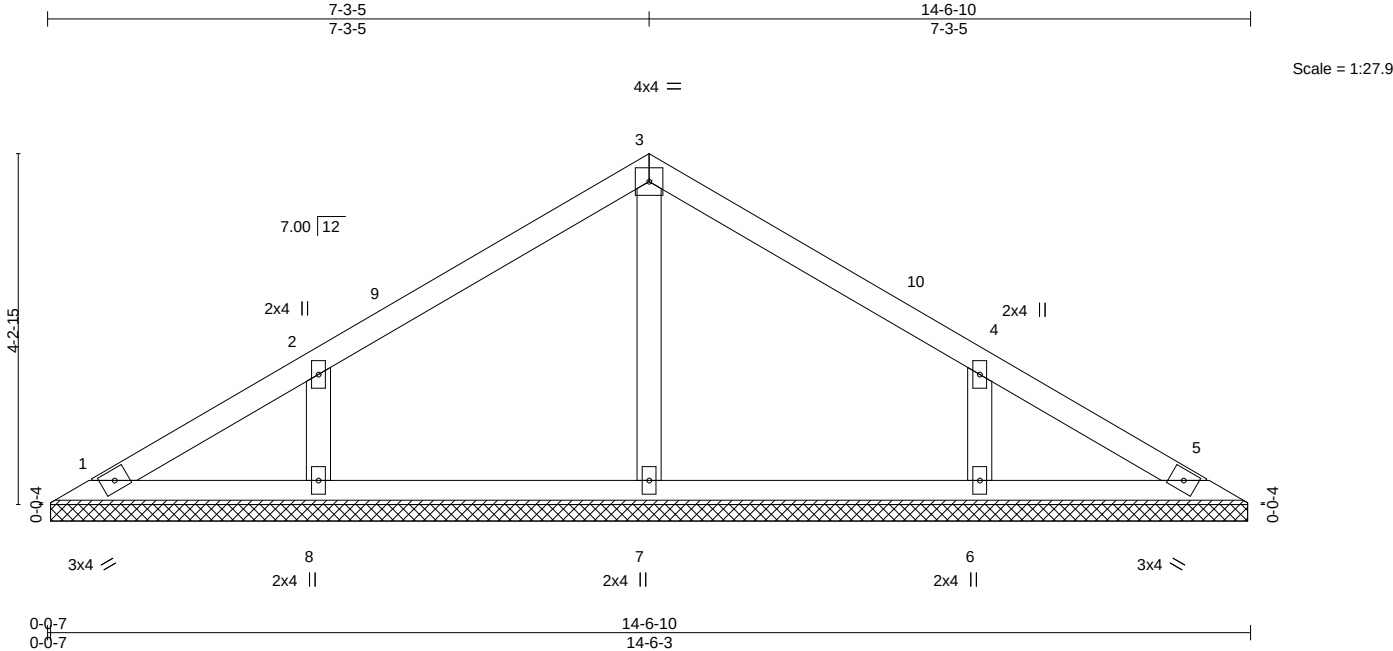
ENGINEERING BY
TRENCO
A MiTek Affiliate

818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	CLB-LOT #5 Roof	174047378
25-3407-B	V04	Valley	1	1	Job Reference (optional)	

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

8.830 s May 29 2025 MiTek Industries, Inc. Mon Jun 9 05:15:15 2025 Page 1
ID:Bx12MwYau_NHkbraGcmHloyOvst-I4G9by8iFhdQQq6lXaOsvESgrjz629_9obfKfz86hA



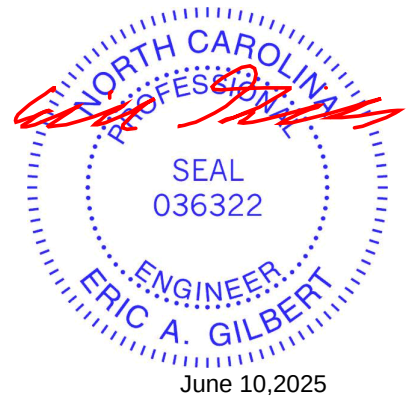
LOADING (psf)		SPACING-		CSI.		DEFL.				PLATES	GRIP
TCLL (roof)	20.0		2-0-0	TC	0.20	in	(loc)	l/defl	L/d	MT20	244/190
Snow (Pf/Pg)	11.6/15.0	Plate Grip DOL	1.15	BC	0.12	n/a	-	n/a	999		
TCDL	10.0	Lumber DOL	1.15	WB	0.06	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	Matrix-S		0.00	5	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014								Weight: 54 lb	FT = 20%

LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.2	TOP CHORD	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 14-5-13.
 (lb) - Max Horz 1=-78(LC 14)
 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=272(LC 2), 8=321(LC 33), 6=321(LC 34)

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

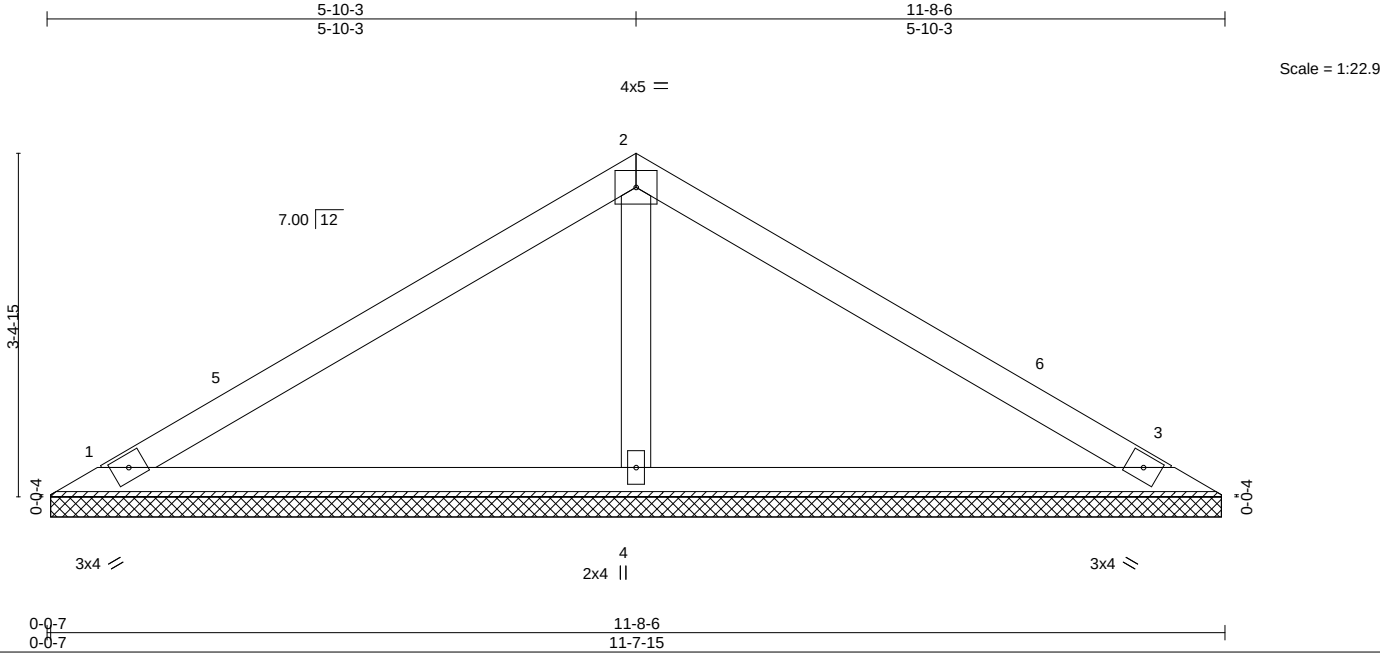
- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-6-8 to 3-3-5, Interior(1) 3-3-5 to 7-3-5, Exterior(2R) 7-3-5 to 10-3-5, Interior(1) 10-3-5 to 14-0-2 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
 - 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
 - Unbalanced snow loads have been considered for this design.
 - Gable requires continuous bottom chord bearing.
 - 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.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 8, 6.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



June 10,2025

Job	Truss	Truss Type	Qty	Ply	CLB-LOT #5 Roof
25-3407-B	V05	Valley	1	1	174047379

Riverside Roof Truss, LLC, Danville, Va - 24541, 8.830 s May 29 2025 MiTek Industries, Inc. Mon Jun 9 05:15:15 2025 Page 1
ID:Bxl2MwYau_NHkbraGCmHloyOvst-I4G9by8ifFhdQQq6lXaOsvEPrrgP61__9obfKfz86hA



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof) 20.0	Plate Grip DOL	1.15	TC 0.45	Vert(LL)	n/a	-	n/a	MT20	244/190
Snow (Pf/Pg) 11.6/15.0	Lumber DOL	1.15	BC 0.28	Vert(CT)	n/a	-	n/a		
TCDL 10.0	Rep Stress Incr	YES	WB 0.07	Horz(CT)	0.00	3	n/a		
BCLL 0.0 *	Code IRC2018/TPI2014		Matrix-S					Weight: 40 lb	FT = 20%
BCDL 10.0									

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD 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. (size) 1=11-7-8, 3=11-7-8, 4=11-7-8
Max Horz 1=-62(LC 14)
Max Uplift 1=-26(LC 16), 3=-26(LC 16)
Max Grav 1=201(LC 2), 3=201(LC 2), 4=447(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 2-4=-291/106

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - 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 5-10-3, Exterior(2R) 5-10-3 to 8-10-3, Interior(1) 8-10-3 to 11-1-14 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
 - 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
 - Unbalanced snow loads have been considered for this design.
 - Gable requires continuous bottom chord bearing.
 - 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.
 - 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.



June 10,2025

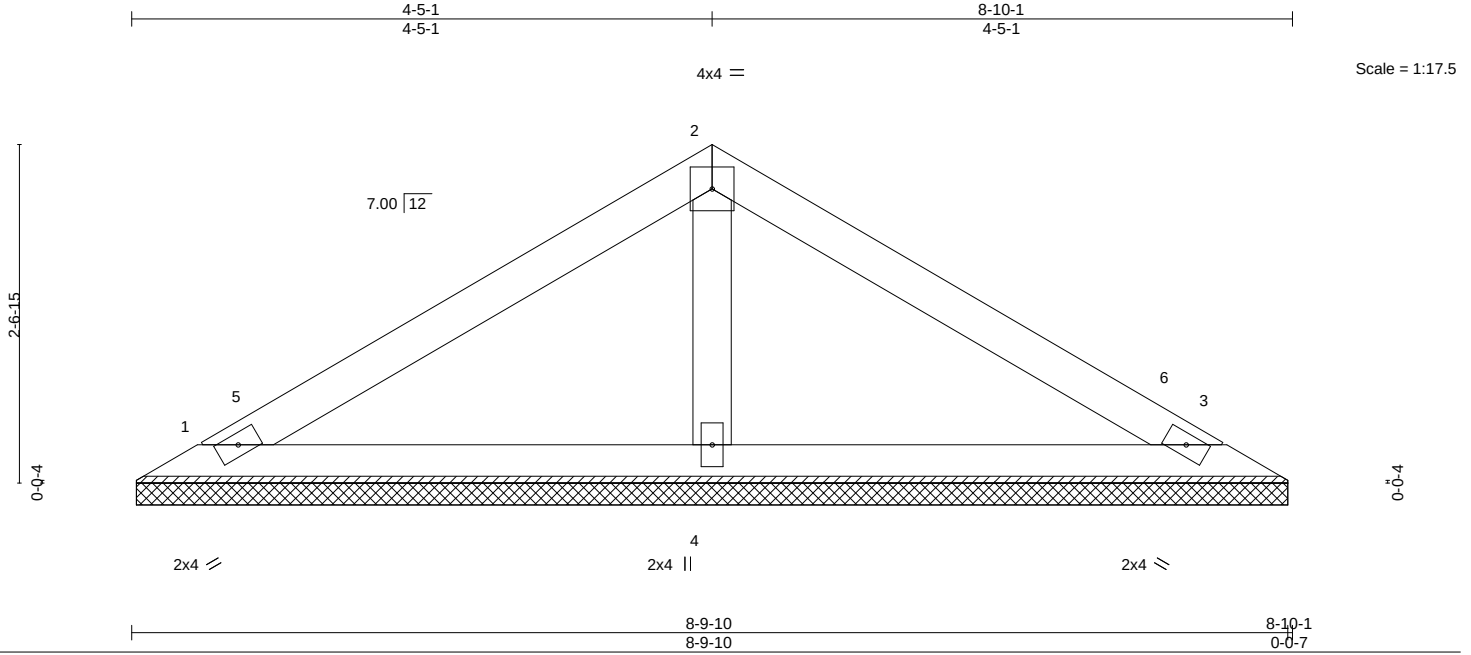
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use,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

ENGINEERING BY
TRENCO
A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	CLB-LOT #5 Roof
25-3407-B	V06	Valley	1	1	174047380

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

8.830 s May 29 2025 MiTek Industries, Inc. Mon Jun 9 05:15:15 2025 Page 1
ID:Bxl2MwYau_NHkbraGcmHloyOvst-l4G9by8ifFhdQQq6lXaOsvERvriQ62T_9obfKfz86hA



LOADING (psf)		SPACING-		CSI.		DEFL.				PLATES		GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.31	Vert(LL)	n/a	-	n/a	999	MT20	244/190	
Snow (Pf/Pg)	11.6/15.0	Lumber DOL	1.15	BC	0.15	Vert(CT)	n/a	-	n/a	999			
TCDL	10.0	Rep Stress Incr	YES	WB	0.04	Horz(CT)	0.00	3	n/a	n/a			
BCLL	0.0 *	Code IRC2018/TPI2014		Matrix-P									
BCDL	10.0										Weight: 29 lb	FT = 20%	

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

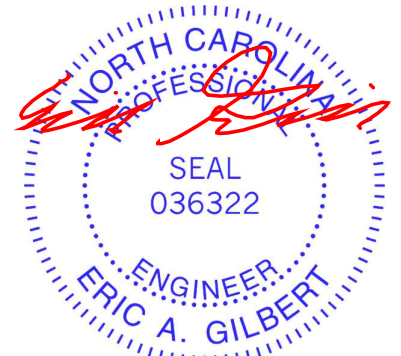
REACTIONS.

(size) 1=8-9-3, 3=8-9-3, 4=8-9-3
Max Horz 1=45(LC 15)
Max Uplift 1=-26(LC 16), 3=-26(LC 16)
Max Grav 1=162(LC 2), 3=162(LC 2), 4=296(LC 2)

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

NOTES-

- Unbalanced roof live loads have been considered for this design.
- 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 4-5-1, Exterior(2R) 4-5-1 to 7-5-1, Interior(1) 7-5-1 to 8-3-9 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
- 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
- Unbalanced snow loads have been considered for this design.
- Gable requires continuous bottom chord bearing.
- 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.
- 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.



June 10, 2025

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)

ENGINEERING BY
TRENCO
A MiTek Affiliate

818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	CLB-LOT #5 Roof
25-3407-B	V07	Valley	1	1	174047381

Riverside Roof Truss, LLC,

Danville, Va - 24541,

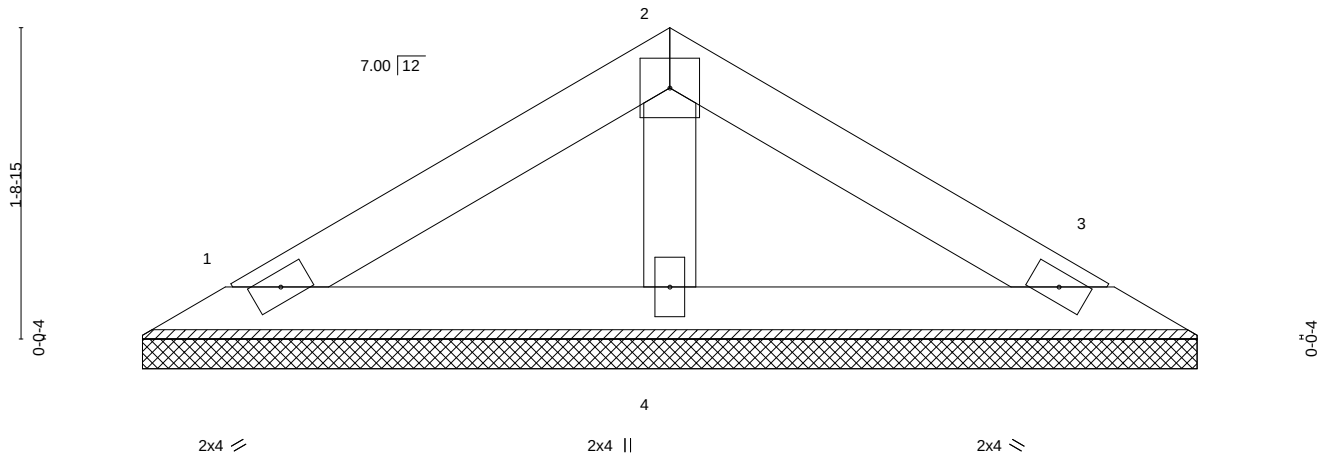
8.830 s May 29 2025 MiTek Industries, Inc. Mon Jun 9 05:15:16 2025 Page 1

ID:Bxl2MwYau_NHkbraGcmHloyOvst-EGqYol9KPZpU2aPJfF5dP7nfsE43rV?8OSKDs5z86h9



4x4 =

Scale = 1:12.9



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL (roof) 20.0	Plate Grip DOL 1.15	TC 0.11	Vert(LL) n/a - n/a 999	MT20	244/190
Snow (Pf/Pg) 11.6/15.0	Lumber DOL 1.15	BC 0.06	Vert(CT) n/a - n/a 999		
TCDL 10.0	Rep Stress Incr YES	WB 0.03	Horz(CT) 0.00 3 n/a n/a		
BCLL 0.0 *	Code IRC2018/TPI2014	Matrix-P		Weight: 19 lb	FT = 20%
BCDL 10.0					

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 5-11-13 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

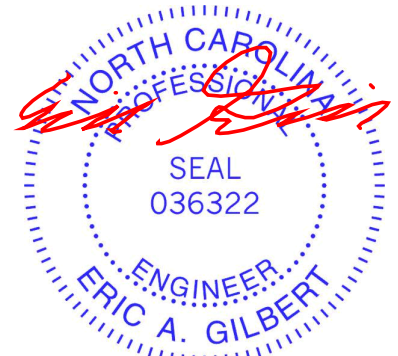
REACTIONS.

(size) 1=5-10-15, 3=5-10-15, 4=5-10-15
Max Horz 1=-29(LC 14)
Max Uplift 1=-17(LC 16), 3=-17(LC 16)
Max Grav 1=102(LC 2), 3=102(LC 2), 4=187(LC 2)

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

NOTES-

- Unbalanced roof live loads have been considered for this design.
- 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
- 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); 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.
- Gable requires continuous bottom chord bearing.
- 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.
- 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.



June 10,2025

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.sbcacompnents.com)

ENGINEERING BY
TRENCO
A MiTek Affiliate

818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	CLB-LOT #5 Roof
25-3407-B	V08	Valley	1	1	174047382

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

8.830 s May 29 2025 MiTek Industries, Inc. Mon Jun 9 05:15:16 2025 Page 1

ID:Bxl2MwYau_NHkbraGCmHloyOvst-EGqYol9KPZpU2aPJf5dP7ngEE4GrVO8OSKDs5z86h9

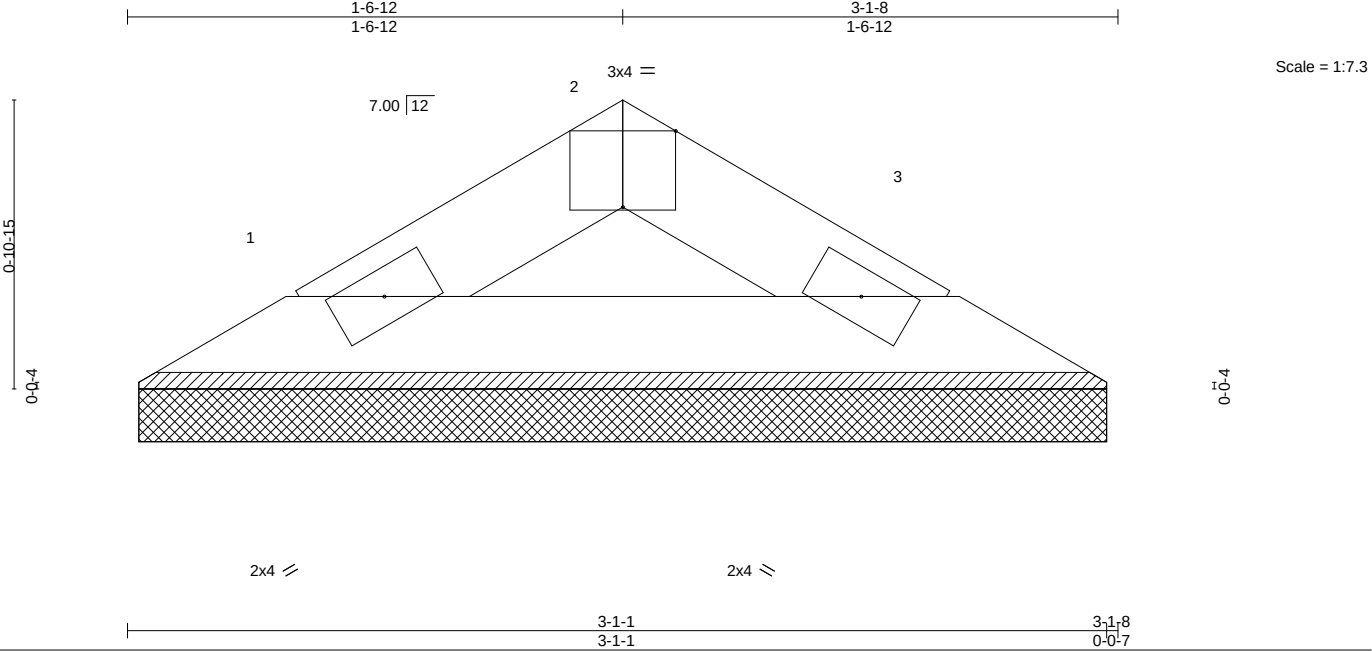


Plate Offsets (X,Y)-- [2:0-2:0,Edge]									
LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.02	Vert(LL)	n/a	MT20	244/190
Snow (Pf/Pg)	11.6/15.0	Lumber DOL	1.15	BC	0.05	Vert(CT)	n/a		
TCDL	10.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00		
BCLL	0.0 *	Code	IRC2018/TPI2014	Matrix-P				Weight: 8 lb	FT = 20%
BCDL	10.0								

LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 3-1-8 oc purlins.
BOT CHORD	2x4 SP No.2	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 1=3-0-10, 3=3-0-10
Max Horz 1=-12(LC 14)
Max Uplift 1=-5(LC 16), 3=-5(LC 16)
Max Grav 1=82(LC 2), 3=82(LC 2)

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

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - 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
 - 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
 - Unbalanced snow loads have been considered for this design.
 - Gable requires continuous bottom chord bearing.
 - 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.
 - 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.



June 10,2025

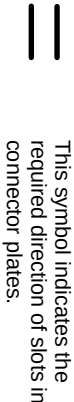
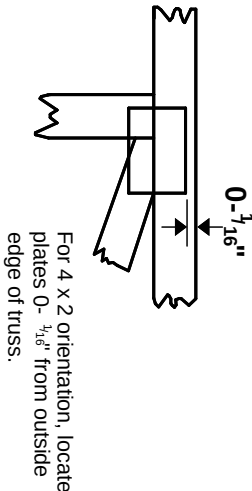
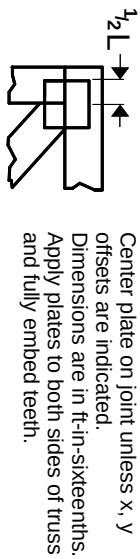
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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.sbcacompoments.com)

ENGINEERING BY
TRENCO
A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

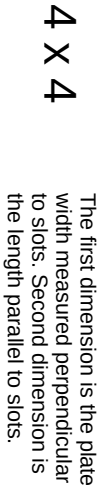
Symbols

PLATE LOCATION AND ORIENTATION

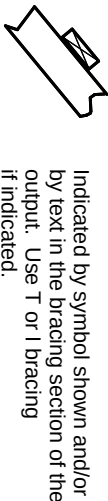


* Plate location details available in MITek software or upon request.

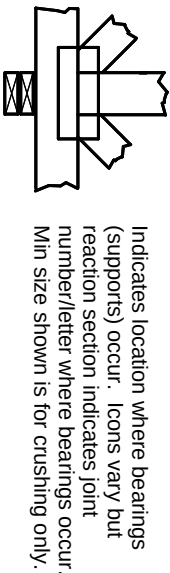
PLATE SIZE



LATERAL BRACING LOCATION

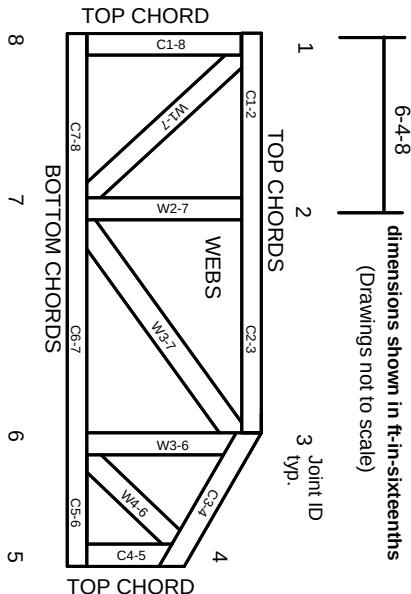


BEARING



Industry Standards:
ANSI/TP1.1: National Design Specification for Metal Plate Connected Wood Truss Construction.
DSB-22: Design Standard for Bracing.
BCSI: 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/TP1 1 section 6.3. These truss designs rely on lumber values established by others.

© 2023 MITek® All Rights Reserved

General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

1. Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI.
2. 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.
3. Never exceed the design loading shown and never stack materials on inadequately braced trusses.
4. Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
5. Cut members to bear tightly against each other.
6. Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TP1 1.
7. Design assumes trusses will be suitably protected from the environment in accord with ANSI/TP1 1.
8. Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
9. Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
10. Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
11. Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
12. Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
13. Top chords must be sheathed or purlins provided at spacing indicated on design.
14. 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.
16. Do not cut or alter truss member or plate without prior approval of an engineer.
17. Install and load vertically unless indicated otherwise.
18. Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use.
19. Review all portions of this design (front, back, words and pictures) before use. Reviewing pictures alone is not sufficient.
20. Design assumes manufacture in accordance with ANSI/TP1 1 Quality Criteria.
21. The design does not take into account any dynamic or other loads other than those expressly stated.

MITek

ENGINEERING BY
TRENCO
A MITek Affiliate

MITek Engineering Reference Sheet: MII-7473 rev. 1/2/2023