

RE: 24-5685-A RVF-LOT #7 ROOF

Address:

City:

Trenco 818 Soundside Rd Edenton, NC 27932

Site Information: Customer: Project Name: 24-5685-A Lot/Block:

Model: Subdivision: State:

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

Design Code: IRC2018/TPI2014 Wind Code: ASCE 7-16 Roof Load: 40.0 psf

Design Program: MiTek 20/20 8.7 Wind Speed: 130 mph Floor Load: N/A psf

This package includes 28 individual, dated Truss Design Drawings and 0 Additional Drawings.

No.	Seal#	Truss Name	Date	No.	Seal#	Truss Name	Date
1	166008039	GE01	6/5/2024	21	166008059	V01	6/5/2024
2	166008040	M01	6/5/2024	22	166008060	V02	6/5/2024
3	166008041	M01GE	6/5/2024	23	166008061	V03	6/5/2024
4	166008042	M02	6/5/2024	24	166008062	V04	6/5/2024
5	166008043	M03	6/5/2024	25	166008063	V05	6/5/2024
6	166008044	M03GE	6/5/2024	26	166008064	V06	6/5/2024
7	166008045	M04	6/5/2024	27	166008065	V07	6/5/2024
8	166008046	M04SGE	6/5/2024	28	166008066	V08	6/5/2024
9	166008047	T01	6/5/2024				
10	166008048	T01GE	6/5/2024				
11	166008049	T02	6/5/2024				
12	166008050	T02G	6/5/2024				
13	166008051	T02SGE	6/5/2024				
14	166008052	T03	6/5/2024				
15	166008053	T03A	6/5/2024				
16	166008054	T03AGE	6/5/2024				
17	166008055	T03GE	6/5/2024				
18	166008056	T04	6/5/2024				
19	166008057	T05	6/5/2024				
20	166008058	T05GE	6/5/2024				

The truss drawing(s) referenced above have been prepared by Truss Engineering Co. under my direct supervision

based on the parameters provided by Riverside Roof Truss.

Truss Design Engineer's Name: Gilbert, Eric

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

North Carolina COA: C-0844

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



Gilbert, Eric



- 7) All plates are 2x4 MT20 unless otherwise indicated.
- 8) Gable requires continuous bottom chord bearing.
- 9) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 10) Gable studs spaced at 2-0-0 oc.
- 11) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide 12) will fit between the bottom chord and any other members.
- 13) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 16, 10, 14, 15, 12 11
- 14) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



818 Soundside Road



TOP CHORD 2-4=-661/180

BOT CHORD 2-7=-274/668, 6-7=-274/668 WEBS 4-6=-700/233

-

NOTES-

- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) -0-11-0 to 2-1-0, Interior(1) 2-1-0 to 11-6-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=15.0 psf; Pf=11.6 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10

3) Unbalanced snow loads have been considered for this design.

- 4) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 11.6 psf on overhangs non-concurrent with other live loads.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.

7) Refer to girder(s) for truss to truss connections.

- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 6.
- 9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



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

A MiTek At 818 Soundside Road Edenton, NC 27932





		<u>2-8-0</u> 2-8-0		<u>3-8-0</u> 1-0-0		
LOADING (psf) SPAC TCLL (roof) 20.0 Snow (Pf/Pg) 16.5/15.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	CING- 2-0-0 Grip DOL 1.15 er DOL 1.15 Stress Incr NO IRC2018/TPI2014	CSI. DEF TC 0.18 Vert(BC 0.07 Vert(WB 0.05 Horz Matrix-MP Horz Horz	L. in (loc) l/defl (LL) -0.00 10 >999 (CT) -0.00 7 >999 (CT) 0.00 2 n/a	L/d 240 180 n/a	PLATES GRIP MT20 244/190 Weight: 19 lb FT =) = 20%

LUMBER-

TOP CHORD2x4 SP No.2BOT CHORD2x6 SP No.2WEBS2x4 SP No.3

BRACING-TOP CHORD

BOT CHORD

Structural wood sheathing directly applied or 3-8-0 oc purlins, except end verticals, and 2-0-0 oc purlins: 4-7, 4-5. 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=-5(LC 16) Max Grav 2=256(LC 36), 6=326(LC 3)

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

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) -0-11-0 to 2-1-0, Interior(1) 2-1-0 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
- 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=15.0 psf; Pf=16.5 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- 4) Unbalanced snow loads have been considered for this design.
- 5) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 11.6 psf on overhangs non-concurrent with other live loads.
- 6) Provide adequate drainage to prevent water ponding.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 9) Refer to girder(s) for truss to truss connections.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2.
- 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) 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.
- 13) 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

Continued on page 2

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





Job	Truss	Truss Type	Qty	Ply	RVF-LOT #7 ROOF	
						166008042
24-5685-A	M02	HALF HIP	3	1		
					Job Reference (optional)	
Riverside Roof Truss, LLC,	Danville, Va - 24541,			8.730 s Ap	r 25 2024 MiTek Industries, Inc. Tue Jun 4 09:18:52 2024	Page 2

ID:Bxl2MwYau_NHkbraGCmHloyOvst-ASbBRIHcwUaYlehe6nLBEn?hNDVX4nvs4mzOcJz9ian

Vert: 1-3=-60, 6-8=-20, 4-5=-90
Concentrated Loads (Ib)
Vert: 12=-160
3) Dead + 0.75 Root Live (balanced) + 0.75 Attic Floor: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (pit)
Vert: 1-3=-50, 6-8=-20, 4-5=-139
Concentrated Loads (Ib)
Vert: 12=-160
4) Dead + 0.75 Show (balanced) + 0.75 Allic Floor: Lumber Increase=1.15, Flate Increase=1.15
Velt. 1-3=-37, 0-0=-20, 4-3=-133
Vorte 12-160
5) Dead ± 0.75 Snow (Linbal Left) ± 0.75 Attic Eloor: Lumber Increase ± 1.15 Plate Increase ± 1.15
Inform Loss (off)
Vert: 1.3=-42 6-8=-20 4-5=-114
Concentrated Loads (Ib)
Vert: 12=-160
6) Dead + 0.75 Snow (Upbal, 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 (Ib)
Vert: 12=-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: 12=-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, 2-11=50, 3-11=34, 6-8=-12, 4-5=16
Horz: 1-2=-72, 2-11=-62, 3-11=-46, 3-4=10, 5-6=38
Concentrated Loads (Ib)
Vert: 12=-160
9) Dead + 0.6 C-C Wind (Pos. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60
Veri: 1-2=45, 2-3=50, 0-8=-12, 4-3=52
$\frac{1102.12-57}{5.5-50}, \frac{5-5-50}{5.5-51}, \frac{5-5-24}{5.5-24}$
Vert: 12160
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: 12=-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 (Ib)
Vert: 12=-160
12) Dead + 0.6 MWRRS Wind (Pos. Internal) Lett: Lumber Increase=1.60, Plate Increase=1.60
Vert: $1-2=26$, $2-3=13$, $0-63=-12$, $4-5=6$
TOUZ: 1-2=-40, 2-3=-25, 3-4=-11, 5-5=18
Vort: 12= 160
Vell. 12=100 13) Dead + 0.6 MWERS Wind (Pos. Internal) Pight: Lumber Increase=1.60 Plate Increase=1.60
Liniter to on the solution of the second sec
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: 12=-160
14) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Uniform Loads (plf) Vert: 1-2=-16, 2-3=-21, 6-8=-20, 4-5=-39
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
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)
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: 12=-160
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: 12=-160 15) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60

Continued on page 3

LOAD CASE(S) Standard Concentrated Loads (Ib)

Uniform Loads (plf)

Vert: 12=-160 2) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15

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 outlapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TP11 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)



Job	Truss	Truss Type	Qty	Ply	RVF-LOT #7 ROOF	
						166008042
24-5685-A	M02	HALF HIP	3	1		
					Job Reference (optional)	
Riverside Roof Truss, LLC,	Danville, Va - 24541,			8.730 s Ap	r 25 2024 MiTek Industries, Inc. Tue Jun 4 09:18:52 2024	Page 3
		ID:Bxl2	/wYau Nł	HkbraGCm	HloyOvst-ASbBRIHcwUaYlehe6nLBEn?hNDVX4nvs4mzOc	Jz9ian

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: 12=-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: 12=-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: 12=-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: 12=-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: 12=-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: 12=-160 21) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf) Vert: 1-3=-49, 6-8=-20, 4-5=-57 Concentrated Loads (lb) Vert: 12=-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: 12=-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: 12=-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: 12=-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: 12=-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: 12=-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: 12=-160

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)



Job	Truss	Truss Type	Qty	Ply	RVF-LOT #7 ROOF	10000040
24-5685-A	M02	HALF HIP	3	1		166008042
Riverside Roof Truss, LLC,	Danville, Va - 24541,			 8.730 s Ap	Job Reference (optional) or 25 2024 MiTek Industries, Inc. Tu	ue Jun 4 09:18:52 2024 Page 4
		ID:Bxl2	MwYau_NI	HkbraGCm	hHoyOvst-ASbBRIHcwUaYlehe6nL	BEn?hNDVX4nvs4mzOcJz9ian
LOAD CASE(S) Standar	t .					
28) Dead + 0.75 Roof Live Uniform Loads (plf)	e (bal.) + 0.75 Attic Floor + 0.7	75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Ir	crease=1	.60, Plate	Increase=1.60	
Vert: 1-2=-47	, 2-3=-51, 6-8=-20, 4-5=-129					
Horz: 1-2=-3, Concentrated Loads (2-3=1, 3-4=23, 5-6=5 b)					
Vert: 12=-160	$(hal) \pm 0.75$ Attic Floor ± 0.75	75/0.6 MW/EPS Wind (Neg. Int) Right): Lumber	Increase-	1.60 Plat	e Increase-1.60	
Uniform Loads (plf)	(ball) + 0.75 Autor 1001 + 0.1		increase_	1.00, 1 1at	e increase=1.00	
Vert: 1-2=-39 Horz: 1-2=-11	, 2-3=-43, 6-8=-20, 4-5=-129 2-3=-7 3-4=-3 5-6=-19					
Concentrated Loads (b)					
30) Dead + 0.75 Roof Live	e (bal.) + 0.75 Attic Floor + 0.7	75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lu	mber Incr	ease=1.60	0, Plate Increase=1.60	
Uniform Loads (plf)	2-351 6-820 4-5120					
Horz: 1-2=-3,	2-3=1, 3-4=5, 5-6=9					
Concentrated Loads (Vert: 12=-160	b)					
31) Dead + 0.75 Roof Live	e (bal.) + 0.75 Attic Floor + 0.7	75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): L	umber Inc	rease=1.6	0, 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					
Vert: 12=-160	b)					
32) Dead + Minimum Sno Uniform Loads (plf)	w: Lumber Increase=1.15, Pla	ate Increase=1.15				
Vert: 1-3=-20	, 6-8=-20, 4-5=-80					
Vert: 12=-160	D)					
33) Dead + 0.6 C-C Wind	Min. Down: Lumber Increase	=1.60, Plate Increase=1.60				
Vert: 1-2=4, 2	-3=-28, 6-8=-12, 4-5=-46					
Horz: 1-2=-16 Concentrated Loads (5, 2-3=16, 3-4=-16, 5-6=-16 b)					
Vert: 12=-160						
Uniform Loads (plf)	Min. Upward: Lumber Increa	se=1.60, Plate Increase=1.60				
Vert: 1-3=4, 6	-8=-12, 4-5=-14					
Concentrated Loads (b)					
Vert: 12=-160 35) 3rd Unbal.Dead + Sno) w (balanced) + Parallel: Lum	ber Increase=1.15. Plate Increase=1.15				
Uniform Loads (plf)						
Concentrated Loads (, 6-8=-20, 4-5=-100 b)					
Vert: 12=-160 36) 4th Upbal Dead + Spo	w (balanced) + Parallel: Lum	her Increase-1 15 Plate Increase-1 15				
Uniform Loads (plf)						
Vert: 1-3=-70 Concentrated Loads (, 6-8=-20, 4-5=-57 b)					
Vert: 12=-160	, 			4 45		
Uniform Loads (plf)	Show (balanced) + 0.75 Alli	C FIOOT + Farallel. Lumber increase=1.15, Flate	Increase	=1.15		
Vert: 1-3=-25 Concentrated Loads (, 6-8=-20, 4-5=-146 b)					
Vert: 12=-160						
38) 6th Unbal.Dead + 0.75 Uniform Loads (plf)	Snow (balanced) + 0.75 Atti	c Floor + Parallel: Lumber Increase=1.15, Plate	Increase	=1.15		
Vert: 1-3=-57	, 6-8=-20, 4-5=-114					
Vert: 12=-160						
39) 7th Unbal.Dead + 0.75 Plate Increase=1 60	5 Snow (unbal.) + 0.75 Attic F	loor + 0.75(0.6 MWFRS Wind (Neg. Int) Left) +	Parallel: L	umber In	crease=1.60,	
Uniform Loads (plf)	0.0.00.00.00.45.407					
Horz: 1-2=-22	ver:: 1-2=-22, 2-3=-20, 0-8=-20, 4-5=-1 <i>31</i> Horz: 1-2=-3, 2-3=1, 3-4=23, 5-6=5					
Concentrated Loads (Concentrated Loads (lb)					
40) 8th Unbal.Dead + 0.75	5 Snow (unbal.) + 0.75 Attic F	loor + 0.75(0.6 MWFRS Wind (Neg. Int) Left) +	Parallel: L	umber In	crease=1.60,	
Plate Increase=1.60 Uniform Loads (plf)						
Vert: 1-2=-54	2-3=-58, 6-8=-20, 4-5=-105					
Concentrated Loads (∠-3=1, 3-4=23, 3-6=5 b)					
Vert: 12=-160	1					

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 outlapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TP11 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)



Job	Truss	Truss Type	Qty	Ply	RVF-LOT #7 ROOF	
24-5685-A	M02	HALF HIP	3	1		166008042
Diverside Dest Trues 11.0				0 700 - 4-	Job Reference (optional)	
Riverside Roof Truss, LLC,	Danville, va - 24541,	ID:BxI2	MwYau_N	8.730 s Ap HkbraGCm	nHloyOvst-ASbBRIHcwUaYlehe6nL	_BEn?hNDVX4nvs4mzOcJz9ian
LOAD CASE(S) Standard 41) 9th Unbal.Dead + 0.75 Uniform Loads (plf) Vert: 1-2=-14, Horz: 1-2=-11. Concentrated Loads (ll Vert: 12=-160 42) 10th Unbal.Dead + 0.7 Uniform Loads (plf) Vert: 1-2=-46, Horz: 1-2=-11. Concentrated Loads (ll Vert: 12=-160 43) 11th Unbal.Dead + 0.7 Uniform Loads (plf) Vert: 1-2=-22, Horz: 1-2=-32, Horz: 1-2=-32, Concentrated Loads (ll	Snow (unbal.) + 0.75 Attic F 2-3=-18, 6-8=-20, 4-5=-137 2-3=-7, 3-4=-3, 5-6=-19 b) 5 Snow (unbal.) + 0.75 Attic 2-3=-50, 6-8=-20, 4-5=-105 2-3=-7, 3-4=-3, 5-6=-19 b) 5 Snow (unbal.) + 0.75 Attic 2-3=-26, 6-8=-20, 4-5=-137 2-3=1, 3-4=5, 5-6=9 b)	ID:BX2 loor + 0.75(0.6 MWFRS Wind (Neg. Int) Right) Floor + 0.75(0.6 MWFRS Wind (Neg. Int) Righ	+ Parallel t) + Parallel t) + Parallel	Hibragen : Lumber I el: Lumber	Increase=1.60, Plate Increase=1. r Increase=1.60, Plate Increase= r ease=1.60, Plate Increase=	.60 1.60
Vert: 12=-160 44) 12th Unbal.Dead + 0.7 Uniform Loads (plf) Vert: 1-2=-54, Horz: 1-2=-3, Concentrated Loads (II Vert: 12=-160	5 Snow (unbal.) + 0.75 Attic 2-3=-58, 6-8=-20, 4-5=-105 2-3=1, 3-4=5, 5-6=9 o)	Floor + 0.75(0.6 MWFRS Wind (Neg. Int) 1st F	arallel): Lu	umber Inci	rease=1.60, Plate Increase=1.60	
45) 13th Unbal.Dead + 0.7 Uniform Loads (plf) Vert: 1-2=-22, Horz: 1-2=-3, Concentrated Loads (ll Vert: 12=-160	Vert: 12=-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)					
46) 14th Unbal. Dead + 0.7 Uniform Loads (plf) Vert: 1-2=-54, Horz: 1-2=-3, Concentrated Loads (ll Vert: 12=-160	 Vert: 12=-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) 					D
47) 15th Unbal.Dead + Mir Uniform Loads (plf) Vert: 1-3=-27, Concentrated Loads (ll Vert: 12=-160	imum Snow + Parallel: Lumb 6-8=-20, 4-5=-100))	per Increase=1.15, Plate Increase=1.15				
48) 16th Unbal.Dead + Mir Uniform Loads (plf) Vert: 1-3=-70, Concentrated Loads (Il Vert: 12=-160	imum Snow + Parallel: Lumb 6-8=-20, 4-5=-57))	per Increase=1.15, Plate Increase=1.15				
49) 1st Dead + Roz-160 Uniform Loads (plf) Vert: 1-3=-60, Concentrated Loads (ll	unbalanced): Lumber Increas 6-8=-20, 4-5=-50	se=1.15, Plate Increase=1.15				
Vert: 12=-160 50) 2nd Dead + Roof Live Uniform Loads (plf) Vert: 1-3=-20, Concentrated Loads (ll Vert: 12=-160	(unbalanced): Lumber Increa 6-8=-20, 4-5=-90))	ise=1.15, Plate Increase=1.15				
51) 3rd Dead + 0.75 Roof I Uniform Loads (plf) Vert: 1-3=-50, Concentrated Loads (II Vert: 12=-160	Live (unbalanced) + 0.75 Atti 6-8=-20, 4-5=-109 b)	c Floor: Lumber Increase=1.15, Plate Increase	=1.15			
52) 4th Dead + 0.75 Roof I Uniform Loads (plf) Vert: 1-3=-20, Concentrated Loads (ll Vert: 12=-160	Live (unbalanced) + 0.75 Atti 6-8=-20, 4-5=-139))	c Floor: Lumber Increase=1.15, Plate Increase	=1.15			





LUMBER-	
---------	--

BCDL

TOP CHORD2x4 SP No.2BOT CHORD2x6 SP No.2WEBS2x4 SP No.3

BRACING-TOP CHORD

 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=-7(LC 16), 2=-39(LC 16) Max Grav 4=137(LC 21), 2=208(LC 21)

10.0

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

NOTES-

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



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/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.sbcaccomponents.com)





TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x4 SP No.2 BOT CHORD 2x6 SP No.2 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=51(LC 13) Max Uplift 5=-2(LC 13), 2=-34(LC 16), 6=-10(LC 16)

Max Grav 5=62(LC 21), 2=126(LC 21), 6=157(LC 21)

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

NOTES-

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



Structural wood sheathing directly applied or 3-8-0 oc purlins,

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

except end verticals.

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE. Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall bilding design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)



A MITek Affil 818 Soundside Road

Edenton, NC 27932

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 **ANS//TPI 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)

	-			1		
Job	Truss	Truss Type	Qty	Ply	RVF-LOT #7 ROOF	
			-	-	1660	08045
04 5005 4						
24-5685-A	M04	HALF HIP	3	1		
					Job Reference (optional)	
Riverside Roof Truss, LLC.	Danville, Va - 24541.			8.730 s Ap	r 25 2024 MiTek Industries, Inc. Tue Jun 4 09:18:54 2024 Page	le 2

8.730 s Apr 25 2024 MiTek Industries, Inc. Tue Jun 4 09:18:54 2024 Page 2 ID:Bxl2MwYau_NHkbraGCmHloyOvst-6rjxsRJsS5qGYxq1DCNfJC4sE08bYgd9Y4SUhBz9ial

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
 Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (olf)
Vert: 1-3=-60, 4-5=-90(F=-30), 6-8=-20
Concentrated Loads (lb)
3) Dead + 0.75 Roof Live (balanced) + 0.75 Attic Floor: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Concentrated Loads (lb)
Vert: 15=-160
Uniform Loads (plf)
Vert: 1-3=-37, 4-5=-133(F=-89), 6-8=-20
Vert: 15=-160
5) Dead + 0.75 Snow (Unbal. Left) + 0.75 Attic Floor: Lumber Increase=1.15, Plate Increase=1.15
Vert: 1-14=-37, 3-14=-42, 4-5=-114(F=-89), 6-8=-20
Concentrated Loads (lb)
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 /
 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)
11) Dead + 0.6 C-C Wind (Neg. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Horz: 1-2=17, 2-3=22, 3-4=28, 5-6=25
Concentrated Loads (lb)
12) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Horz: 1-2=-40, 2-3=-25, 3-4=-11, 5-6=18
Concentrated Loads (lb)
13) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert. $1-2=3$, $2-3=6$, $4-3=6(r=-16)$, $6-6=-12$ Horz: $1-2=-15$, $2-3=-20$, $3-4=-26$, $5-6=-15$
Concentrated Loads (lb)
14) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
veit. 1-2=-10, 2-3=-21, 4-3=-39(F=-18), 0-8=-20 Horz: 1-2=-4, 2-3=1, 3-4=31, 5-6=7

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 outlapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TP11 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)



Job	Truss	Truss Type	Qty	Ply	RVF-LOT #7 ROOF	
						66008045
24-5685-A	M04	HALF HIP	3	1		
					Job Reference (optional)	
Riverside Roof Truss, LLC,	Danville, Va - 24541,			8.730 s Ap	r 25 2024 MiTek Industries, Inc. Tue Jun 4 09:18:54 2024 F	Page 3

8.730 s Apr 25 2024 MiTek Industries, Inc. Tue Jun 4 09:18:54 2024 Page 3 ID:BxI2MwYau_NHkbraGCmHloyOvst-6rjxsRJsS5qGYxq1DCNfJC4sE08bYgd9Y4SUhBz9ial

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(E=-18), 6-8=-20
	Horz: 1-2=-15, 2-3=-10, 3-4=-4, 5-6=-25
	Concentrated Loads (lb)
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
	Concentrated Loads (Ib)
	Vert: 15=-160
17)	Dead + 0.6 MWERS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
	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
	Vert: 15=-160
18)	Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
	Uniform Loads (plf)
	Horz: 1-2=-10, 2-3=-21, 4-3=-39(r=-10), 0-8=-20 Horz: 1-2=-4, 2-3=1, 3-4=6, 5-6=12
	Concentrated Loads (lb)
19)	Vert: 15=-160 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
	Concentrated Loads (lb)
	Vert: 15=-160
20)	Dead + Snow on Overhangs: Lumber Increase=1.15, Plate Increase=1.15
	Vert: 1-2=-43, 2-3=-20, 4-5=-50(F=-30), 6-8=-20
	Concentrated Loads (lb)
21)	Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
	Vert: $1-14=-43$, $3-14=-49$, $4-5=-57$ (r=-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 (olf)
	Vert: 1-3=-27, 4-5=-88(F=-30), 6-8=-20
	Concentrated Loads (lb)
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 (Ib)
	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
	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
	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)
	Horz: 1-2=-20, 2-3=-30, 4-5=-124(F=-79), 6-6=-20 Horz: 1-2=-11, 2-3=-7, 3-4=-3, 5-6=-19
	Concentrated Loads (lb)
26)	Vert: 15=-160 Dead + 0.75 Snow (bal) + 0.75 Attic Floor + 0.75(0.6 MWERS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60 Plate
20)	Increase=1.60
	Uniform Loads (plf)
	ven. 1-z=-34, 2-3=-36, 4-3=-124(F=-73), 6-6=-20 Horz: 1-2=-3, 2-3=1, 3-4=5, 5-6=9
	Concentrated Loads (lb)
271	Vert: 15=-160 Dead + 0.75 Snow (bal) + 0.75 Attic Floor + 0.75(0.6 MWERS Wind (Neg. Int) 2nd Parallel): Lumber Increase-1.60 Plate
21)	Increase 1.60

Continued on page 4

LOAD CASE(S)

Concentrated Loads (lb) Vert: 15=-160

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 outlapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TP11 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)



Job	Truss	Truss Type	Qty	Ply	RVF-LOT #7 ROOF	
					166	6008045
24-5685-A	M04	HALF HIP	3	1		
					Job Reference (optional)	
Riverside Roof Truss, LLC.	Danville, Va - 24541.			8.730 s Ap	r 25 2024 MiTek Industries, Inc. Tue Jun 4 09:18:54 2024 Pa	ae 4

ID:BxI2MwYau_NHkbraGCmHloyOvst-6rjxsRJsS5qGYxq1DCNfJC4sE08bYgd9Y4SUhBz9ial

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

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



Job	Truss	Truss Type	Qty	Ply	RVF-LOT #7 ROOF	
04 FC95 A	MOA		2		166	008045
24-5005-A	M04		3	1	Job Reference (optional)	
Riverside Roof Truss, LLC,	Danville, Va - 24541,	ID:I	3xl2MwYau	8.730 s Ap NHkbraG	or 25 2024 MiTek Industries, Inc. Tue Jun 4 09:18:54 2024 Pag CmHlovOvst-6rixsRJsS5aGYxa1DCNfJC4sE08bYad9Y4SUhBz	ge 5 z9ial
LOAD CASE(S) 40) 8th Unbal.Dead + 0.75 Uniform Loads (plf) Vert: 1-2=-54, Horz: 1-2=-3, 2 Concentrated Loads (II	Snow (unbal.) + 0.75 Attic F 2-3=-58, 4-5=-105(F=-79), 6 2-3=1, 3-4=23, 5-6=5 o)	loor + 0.75(0.6 MWFRS Wind (Neg. Int) Left) -8=-20	+ Parallel:	Lumber In	crease=1.60, Plate Increase=1.60	
Vert: 15=-160 41) 9th Unbal.Dead + 0.75 Uniform Loads (plf) Vert: 1-2=-14, Horz: 1-2=-11, Concentrated Loads (lt Vert: 15=-160	Snow (unbal.) + 0.75 Attic F 2-3=-18, 4-5=-137(F=-79), 6 , 2-3=-7, 3-4=-3, 5-6=-19 b)	loor + 0.75(0.6 MWFRS Wind (Neg. Int) Right -8=-20) + Parallel	: Lumber	Increase=1.60, Plate Increase=1.60	
42) 10th Unbal.Dead + 0.7 Uniform Loads (plf) Vert: 1-2=-46, Horz: 1-2=-11, Concentrated Loads (lt Vert: 15=-160	5 Snow (unbal.) + 0.75 Attic 2-3=-50, 4-5=-105(F=-79), 6 , 2-3=-7, 3-4=-3, 5-6=-19 b)	Floor + 0.75(0.6 MWFRS Wind (Neg. Int) Rigi	nt) + Paralle	el: Lumbei	Increase=1.60, Plate Increase=1.60	
43) 11th Unbal.Dead + 0.7 Uniform Loads (plf) Vert: 1-2=-22, Horz: 1-2=-3, Concentrated Loads (lk Vert: 15=-160	5 Snow (unbal.) + 0.75 Attic 2-3=-26, 4-5=-137(F=-79), 6 2-3=1, 3-4=5, 5-6=9 b)	-100r + 0.75(0.6 MWFRS Wind (Neg. Int) 1st	rarallel): Li	umber Inc	rease=1.60, Plate Increase=1.60	
44) 12th Unbal.Dead + 0.7 Uniform Loads (plf) Vert: 1-2=-54, Horz: 1-2=-3, Concentrated Loads (lk Vert: 15=-160	5 Snow (unbal.) + 0.75 Attic 2-3=-58, 4-5=-105(F=-79), 6 2-3=1, 3-4=5, 5-6=9 b)	Floor + 0.75(0.6 MWFRS Wind (Neg. Int) 1st	Parallel): Li	umber Inc	rease=1.60, Plate Increase=1.60	
45) 13th Unbal.Dead + 0.7 Uniform Loads (plf) Vert: 1-2=-22, Horz: 1-2=-3, Concentrated Loads (IL Vert: 15=-160	5 Snow (unbal.) + 0.75 Attic 2-3=-26, 4-5=-137(F=-79), 6 2-3=1, 3-4=5, 5-6=9 b)	-100r + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd	Parallel): L	umber Inc	rease=1.60, Plate Increase=1.60	
46) 14th Unbal.Dead + 0.7 Uniform Loads (plf) Vert: 1-2=-54, Horz: 1-2=-3, 2 Concentrated Loads (lt	5 Snow (unbal.) + 0.75 Attic 2-3=-58, 4-5=-105(F=-79), 6 2-3=1, 3-4=5, 5-6=9 b)	Floor + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd -8=-20	Parallel): L	umber Inc	crease=1.60, Plate Increase=1.60	
47) 15th Unbal.Dead + Nin Uniform Loads (plf) Vert: 1-3=-27, Concentrated Loads (lk Vert: 15=-160	nimum Snow + Parallel: Luml 4-5=-100(F=-30), 6-8=-20 b)	per Increase=1.15, Plate Increase=1.15				
48) 16th Unbal.Dead + Min Uniform Loads (plf) Vert: 1-3=-70, Concentrated Loads (lk Vert: 15=-160	himum Snow + Parallel: Luml 4-5=-57(F=-30), 6-8=-20	per Increase=1.15, Plate Increase=1.15				
49) 1st Dead + Root Live (Uniform Loads (plf) Vert: 1-3=-60, Concentrated Loads (lk Vert: 15=-160	unbalanced): Lumber Increa: 4-5=-50(F=-30), 6-8=-20 b)	se=1.15, Plate increase=1.15				
50) 2nd Dead + Roof Live Uniform Loads (plf) Vert: 1-3=-20, Concentrated Loads (lk Vert: 15=-160	(unbalanced): Lumber Increa 4-5=-90(F=-30), 6-8=-20 b)	ise=1.15, Plate Increase=1.15				
51) 3rd Dead + 0.75 Roof I Uniform Loads (plf) Vert: 1-3=-50, Concentrated Loads (lt Vert: 15=-160	Live (unbalanced) + 0.75 Atti 4-5=-109(F=-89), 6-8=-20 b)	c Floor: Lumber Increase=1.15, Plate Increas	≥=1.15			
52) 4th Dead + 0.75 Roof L Uniform Loads (plf) Vert: 1-3=-20, Concentrated Loads (lt Vert: 15=-160	Live (unbalanced) + 0.75 Atti 4-5=-139(F=-89), 6-8=-20 p)	c Floor: Lumber Increase=1.15, Plate Increase	e=1.15			





	0-6-8	3-7-4	2-6-4	1-0-0
Plate Offsets (X,Y) [2:0-0-0,	0-0-10], [2:0-2-1,0-9-1]			
LOADING (psf) TCLL (roof) 20.0 Snow (Pf/Pg) 16.5/15.0 TCDL 10.0 BCLL 0.0 BCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr NO Code IRC2018/TPI2014	CSI. TC 0.52 BC 0.26 WB 0.03 Matrix-MP	DEFL. in (loc) l/defl L/d Vert(LL) -0.01 8-17 >999 240 Vert(CT) -0.01 8-17 >999 180 Horz(CT) 0.00 2 n/a n/a	PLATES GRIP MT20 244/190 Weight: 41 lb FT = 20%
		DD	ACINIC	

IMBER-

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

Left: 2x4 SP No.3

REACTIONS. (size) 6=Mechanical, 2=0-3-0, 8=0-3-8 Max Horz 2=115(LC 16) Max Uplift 2=-25(LC 16) Max Grav 6=337(LC 28), 2=310(LC 36), 8=289(LC 36)

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

NOTES-

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

2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); 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.
- 4) 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.
- 5) 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.
- 6) Unbalanced snow loads have been considered for this design.
- 7) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 11.6 psf on overhangs non-concurrent with other live loads.
- 8) Provide adequate drainage to prevent water ponding.
- 9) Gable studs spaced at 2-0-0 oc.
- 10) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * 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 11) will fit between the bottom chord and any other members.
- 12) Refer to girder(s) for truss to truss connections.
- 13) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2.
- 14) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and
- referenced standard ANSI/TPI 1. 15) 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.

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

🔺 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall bilding design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)





818 Soundside Road

· · · · · · · · · · · · · · · · · · ·						
Job	Truss	Truss Type	Qty	Ply	RVF-LOT #7 ROOF	
				-	16	6008046
04 5005 4	MOADOF					0000010
24-5685-A	M04SGE	GABLE	1	1		
					Job Reference (optional)	
Riverside Roof Truss, LLC.	Danville, Va - 24541.			8.730 s Ap	r 25 2024 MiTek Industries, Inc. Tue Jun 4 09:18:54 2024 Pa	ade 2

8.730 s Apr 25 2024 MiTek Industries, Inc. Tue Jun 4 09:18:54 2024 Page 2 ID:Bxl2MwYau_NHkbraGCmHloyOvst-6rjxsRJsS5qGYxq1DCNfJC4xZ081Yhe9Y4SUhBz9ial

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

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 **ANSUTP11 Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcacomponents.com)



Job Ti	russ	Truss Type	Qty	Ply	RVF-LOT #7 ROOF	
						166008046
24-5685-A M	//04SGE	GABLE	1	1		
					Job Reference (optional)	
Riverside Roof Truss, LLC,	Danville, Va - 24541.			8.730 s Ap	r 25 2024 MiTek Industries, Inc. Tue Jun 4 09:18:54 2024	Page 3

8.730 s Apr 25 2024 MiTek Industries, Inc. Tue Jun 4 09:18:54 2024 Page 3 ID:BxI2MwYau_NHkbraGCmHloyOvst-6rjxsRJsS5qGYxq1DCNfJC4xZ081Yhe9Y4SUhBz9ial

- /	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 (Ib)
	Vert 19=-160
16)	Dead + 0.6 MWERS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60. Plate Increase=1.60
10)	Detail to one with the wind (100, method) for Faranci. Earlier meteode 1.00, Flate meteode 1.00
	Vinit 12-32 2-3-17 4-5-1 6-13-12
	$ \begin{array}{c} V_{011} & V_{22} = 0.2 \\ U_{012} = 1.2 \\ = 0.2$
	1 1012. 172-744, 2-3-23, 3-4-34, 3-0-23
17)	vell. 19=100 Dead J. G. MWIEDS Wind (Dec. Internal) and Parallel: Lumber Increase-1.60. Plate Increase-1.60
17)	
	Vert: 1-z=21, 2-3=6, 4-5=-12, b-13=-12
	HOIZ: 1-2=-33, 2-3=-18, 3-4=-24, 5-6=23
4.00	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 (Ib)
	Vert: 19=160
27)	Dead + 0.75 Snow (bal.) + 0.75 Attic Floor + 0.75(0.6 MWERS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60 Plate
,	Increase=1.60

Continued on page 4

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

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TP11 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)



Job	Truss	Truss Type	Qty	Ply	RVF-LOT #7 ROOF	
A 5005 A	MAAOOF	CARLE	4			166008046
4-5685-A	M04SGE	GABLE	1		1 Iob Reference (optional)	
Riverside Roof Tru	ss, LLC, Danville, Va - 24	4541,		8.730 s	Apr 25 2024 MiTek Industries, Inc. Tu	e Jun 4 09:18:54 2024 Page 4
			ID:BxI2MwY	au_NHkbra	aGCmHloyOvst-6rjxsRJsS5qGYxq1DC	NfJC4xZ081Yhe9Y4SUhBz9ial
LOAD CASE(S)						
Uniform Loads	s (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 R	Roof Live (bal.) + 0.75 Attic F	loor + 0.75(0.6 MWFRS Wind (Neg. Int) L	eft): Lumber Increase	=1.60, Pla	ate Increase=1.60	
Uniform Loads	s (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 R	Roof Live (bal.) + 0.75 Attic F	loor + 0.75(0.6 MWFRS Wind (Neg. Int) F	Right): Lumber Increas	se=1.60, P	late Increase=1.60	
Uniform Loads	s (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	5=-19				
Concentrated	Loads (Ib)					
Vert:	19=-160 Na st Line (hal) n 0.75 Attis 5		at Danallal), Lunah an Is		00 Plate la sus a d. 00	
30) Dead + 0.75 R	(oof Live (bal.) + 0.75 Attic F	100r + 0.75(0.6 MWFRS Wind (Neg. Int) 1	st Parallel): Lumber Ir	ncrease=1	.60, Plate Increase=1.60	
Uniform Loads	5 (PII) 1 2 - 47 2 2 - 51 4 5 - 120	6 13 - 30				
Vert.	1-2=-47, 2-3=-51, 4-5=-129,	0-13=-20				
Concentrated	1-2=-3, $2-3=1$, $3-4=3$, $3-6=8$					
Vort	Luaus (ID)					
(31) Dead ± 0.75 E	$P_{00}(hal) \pm 0.75$ Attic E	Cloor + 0.75(0.6 MW/ERS Wind (Neg. Int) 2	nd Parallel): Lumber I	ncroaso-	1.60. Plate Increase-1.60	
Uniform Loads	(olf)	1001 + 0.75(0.0 WWW 113 Wind (Neg. int) 2		ncrease=		
Vort	1-247 2-351 4-5129	6-1320				
Horz:	1-2=-3 $2-3=1$ $3-4=5$ $5-6=9$	0 10 20				
Concentrated	Loads (lb)					
Vert:	19=-160					
32) Dead + Minim	um Snow: Lumber Increase	=1.15. Plate Increase=1.15				
Uniform Loads	s (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	s (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

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)



Job	Truss	Truss Type	Qty	Ply	RVF-LOT #7 ROOF				
24-5685-A	M04SGE	GABLE	1	1	16	6008046			
Diverside Deef Truce 11.C			<u> </u>	720 0 4 7	Job Reference (optional)				
Riverside Roor Huss, LLC,	Dariville, va - 24541,	ID:B:	12MwYau_	NHkbraG	CmHloyOvst-6rjxsRJsS5qGYxq1DCNfJC4xZ081Yhe9Y4SUhB	3z9ial			
LOAD CASE(S) 40) 8th Unbal.Dead + 0.75 Uniform Loads (plf) Vert: 1-2=-54, Horz: 1-2=-3, Concentrated Loads (II Vert: 10=-160	Snow (unbal.) + 0.75 Attic F 2-3=-58, 4-5=-105, 6-13=-20 2-3=1, 3-4=23, 5-6=5 9)	loor + 0.75(0.6 MWFRS Wind (Neg. Int) Left) +	Parallel: L	umber Ind	crease=1.60, Plate Increase=1.60				
41) 9th Unbal.Dead + 0.75 Uniform Loads (plf) Vert: 1-2=-14, Horz: 1-2=-11 Concentrated Loads (II Vert: 19=-160	 11) 9th Unball 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: 19160 								
42) 10th Unbal.Dead + 0.7 Uniform Loads (plf) Vert: 1-2=-46, Horz: 1-2=-11, Concentrated Loads (II Vert: 19=-160	5 Snow (unbal.) + 0.75 Attic 2-3=-50, 4-5=-105, 6-13=-20 , 2-3=-7, 3-4=-3, 5-6=-19 o)	Floor + 0.75(0.6 MWFRS Wind (Neg. Int) Right	+ Paralle	I: Lumber	Increase=1.60, Plate Increase=1.60				
43) 11th Unbal.Dead + 0.7 Uniform Loads (plf) Vert: 1-2=-22, Horz: 1-2=-3, ; Concentrated Loads (II Vert: 19=-160	5 Snow (unbal.) + 0.75 Attic 2-3=-26, 4-5=-137, 6-13=-20 2-3=1, 3-4=5, 5-6=9 o)	Floor + 0.75(0.6 MWFRS Wind (Neg. Int) 1st P	arallel): Lu	mber Incr	ease=1.60, Plate Increase=1.60				
44) 12th Unbal.Dead + 0.7 Uniform Loads (plf) Vert: 1-2=-54, Horz: 1-2=-3, Concentrated Loads (ll Vert: 19=-160	5 Snow (unbal.) + 0.75 Attic 2-3=-58, 4-5=-105, 6-13=-20 2-3=1, 3-4=5, 5-6=9 >)	Floor + 0.75(0.6 MWFRS Wind (Neg. Int) 1st P	arallel): Lu	mber Incr	ease=1.60, Plate Increase=1.60				
45) 13th Unbal.Dead + 0.7 Uniform Loads (plf) Vert: 1-2=-22, Horz: 1-2=-3, : Concentrated Loads (II Vert: 19=-160	5 Snow (unbal.) + 0.75 Attic 2-3=-26, 4-5=-137, 6-13=-20 2-3=1, 3-4=5, 5-6=9 p)	Floor + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd F	arallel): Lu	umber Inc	rease=1.60, Plate Increase=1.60				
46) 14th Unbal.Dead + 0.7 Uniform Loads (plf) Vert: 1-2=-54, Horz: 1-2=-3, : Concentrated Loads (II Vert: 19160	5 Snow (unbal.) + 0.75 Attic 2-3=-58, 4-5=-105, 6-13=-20 2-3=1, 3-4=5, 5-6=9 b)	Floor + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd F	arallel): Lu	umber Inc	rease=1.60, Plate Increase=1.60				
47) 15th Unbal.Dead + Mir Uniform Loads (plf) Vert: 1-3=-27, Concentrated Loads (ll Vert: 19=-160	nimum Snow + Parallel: Lumb 4-5=-100, 6-13=-20 b)	per Increase=1.15, Plate Increase=1.15							
48) 16th Unbal.Dead + Mir Uniform Loads (plf) Vert: 1-3=-70, Concentrated Loads (II Vert: 19=-160	aimum Snow + Parallel: Lumb 4-5=-57, 6-13=-20	per Increase=1.15, Plate Increase=1.15							
49) 1st Dead + Roof Live (Uniform Loads (plf) Vert: 1-3=-60, Concentrated Loads (ll Vert: 19=-160	unbalanced): Lumber Increas 4-5=-50, 6-13=-20 p)	se=1.15, Plate Increase=1.15							
50) 2nd Dead + Roof Live Uniform Loads (plf) Vert: 1-3=-20, Concentrated Loads (ll Vert: 19=-160	(unbalanced): Lumber Increa 4-5=-90, 6-13=-20 o)	ise=1.15, Plate Increase=1.15							
51) 3rd Dead + 0.75 Roof I Uniform Loads (plf) Vert: 1-3=-50, Concentrated Loads (ll Vert: 19=-160	Live (unbalanced) + 0.75 Atti 4-5=-109, 6-13=-20 b)	c Floor: Lumber Increase=1.15, Plate Increase	=1.15						
52) 4th Dead + 0.75 Roof I Uniform Loads (plf) Vert: 1-3=-20, Concentrated Loads (ll Vert: 19=-160	Live (unbalanced) + 0.75 Atti 4-5=-139, 6-13=-20 b)	c Floor: Lumber Increase=1.15, Plate Increase=	-1.15						







818 Soundside Road



TRENCIDEERING BY AMITEK Atfiliate 818 Soundside Road



REACTIONS. (size) 12=0-3-8, 8=0-3-8 Max Horz 12=-188(LC 14) Max Uplift 12=-94(LC 16), 8=-94(LC 16) Max Grav 12=1181(LC 28), 8=1181(LC 29)

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

TOP CHORD 2-3=-425/126, 3-4=-1373/197, 4-5=-1373/197, 5-6=-425/126, 2-12=-406/133,

6-8=-406/133

- BOT CHORD 11-12=-62/1290, 9-11=0/912, 8-9=-52/1178
- WEBS 4-9=-46/616, 5-9=-267/162, 4-11=-46/616, 3-11=-267/162, 3-12=-1146/47, 5-8=-1145/47

NOTES-

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

2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=25ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) -0-11-0 to 2-1-0, Interior(1) 2-1-0 to 12-7-12, Exterior(2R) 12-7-12 to 15-7-12, Interior(1) 15-7-12 to 26-2-8 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

3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=15.0 psf; Pf=11.6 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10

4) Unbalanced snow loads have been considered for this design.

5) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 11.6 psf on overhangs non-concurrent with other live loads.

6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 12, 8.
 9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



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



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 buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcacomponents.com)

Job	Truss	Truss Type	Qty	Ply	RVF-LOT #7 ROOF	
					1660	008050
24-5685-A	T02G	COMMON GIRDER	1	2		
				J	Job Reference (optional)	
Riverside Roof Truss, LLC,	Danville, Va - 24541,			8.730 s Ap	r 25 2024 MiTek Industries, Inc. Tue Jun 4 09:18:57 2024 Pag	je 2
		ID:BxI2M	wYau NH	kbraGCm⊦	lloyOvst-WQP4UTLkk0CqPPZcuKwMxqiM3E7AlpRbE2q8HWz9	9iai

NOTES-

- 1) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 16=530, 9=480.
- 12) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 13) Use Simpson Strong-Tie HUS28 (22-10d Girder, 4-10d Truss, Single Ply Girder) or equivalent spaced at 20-10-0 oc max. starting at 1-11-4 from the left end to 23-11-4 to connect truss(es) to front face of bottom chord.
- 14) 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 20-9-4 to connect truss(es) to front face of bottom chord.
- 15) Fill all nail holes where hanger is in contact with lumber.

LOAD CASE(S) Standard

- 1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
- Vert: 1-2=-43, 2-5=-43, 5-8=-43, 9-16=-20
- Concentrated Loads (lb)
 - Vert: 10=-1259(F) 17=-1174(F) 18=-1174(F) 19=-1174(F) 20=-1259(F) 21=-1259(F) 22=-1259(F) 23=-1259(F) 24=-1259(F) 25=-1259(F) 26=-1259(F) 27=-1259(F) 28=-1174(F) 26=-1259(F) 26=-1259(F)

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)











E RENCO



REACTIONS. All bearings 38-0-8.

(lb) - Max Horz 47=161(LC 15)

Max Uplift All uplift 100 lb or less at joint(s) 47, 25, 37, 38, 39, 41, 42, 43, 44, 45, 46, 35, 34, 33, 31, 30, 29, 28, 27, 26

Max Grav All reactions 250 lb or less at joint(s) 47, 25, 36, 37, 38, 39, 41, 42, 43, 44, 45, 46, 35, 34, 33, 31, 30, 29, 28, 27, 26

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

TOP CHORD 12-13=-113/277, 13-14=-113/277

NOTES-

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

2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=38ft; eave=2ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Corner(3E) -0-11-0 to 3-2-0, Exterior(2N) 3-2-0 to 19-2-0, Corner(3R) 19-2-0 to 23-2-0, Exterior(2N) 23-2-0 to 37-10-12 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.

4) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=15.0 psf; Pf=11.6 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10

5) Unbalanced snow loads have been considered for this design.

6) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 11.6 psf on overhangs non-concurrent with other live loads.

- 7) All plates are 2x4 MT20 unless otherwise indicated.
- 8) Gable requires continuous bottom chord bearing.
- 9) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 10) Gable studs spaced at 2-0-0 oc.
- 11) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

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

13) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 47, 25, 37, 38, 39, 41, 42, 43, 44, 45, 46, 35, 34, 33, 31, 30, 29, 28, 27, 26.

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



RENCO

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TP11 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcaccomponents.com)



A MiTek Affi 818 Soundside Road



A MiTek Affiliate



- 5) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 11.6 psf on overhangs non-concurrent with other live loads.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 8. 9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE. 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 a futs system: Denote use, the building designer inder very the applications of design had needed an intervent with a policitation of the system of the state of the system of the syste and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)







A MiTek At

June 5,2024



June 5,2024



GILU





A MiTek A



(Ib) - Max Horz 1=-79(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=271(LC 2), 8=324(LC 33), 6=324(LC 34)

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

NOTES-

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

2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-6-8 to 3-4-2, Interior(1) 3-4-2 to 7-4-2, Exterior(2R) 7-4-2 to 10-4-2, Interior(1) 10-4-2 to 14-1-11 zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

- 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=15.0 psf; Pf=11.6 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 4) Unbalanced snow loads have been considered for this design.
- 5) Gable requires continuous bottom chord bearing.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

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

- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 8, 6.
- 9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



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.sbcaccomponents.com)









Max Uplift 1=-27(LC 16), 3=-27(LC 16)

Max Grav 1=165(LC 2), 3=165(LC 2), 4=301(LC 2)

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

NOTES-

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

2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-6-8 to 3-6-8, Interior(1) 3-6-8 to 4-5-13, Exterior(2R) 4-5-13 to 7-5-13, Interior(1) 7-5-13 to 8-5-2 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

3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=15.0 psf; Pf=11.6 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10

4) Unbalanced snow loads have been considered for this design.

5) Gable requires continuous bottom chord bearing.

6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

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

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

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



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.sbcaccomponents.com)



NOTES-

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

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

- 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=15.0 psf; Pf=11.6 psf (Lum DOL=1.15 Plate
- DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10

4) Unbalanced snow loads have been considered for this design.

5) Gable requires continuous bottom chord bearing.

6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

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

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

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



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.sbcaccomponents.com)

A MiTek Affilia 818 Soundside Road



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

NOTES-

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



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.sbcaccomponents.com)

A MiTek Affili 818 Soundside Road

