

Trenco 818 Soundside Rd Edenton, NC 27932

Re: 25-0541-A

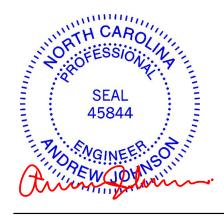
FFF-LOT #8 Roof

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

Pages or sheets covered by this seal: I72240639 thru I72240662

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

North Carolina COA: C-0844



March 25,2025

Johnson, Andrew

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

Job Truss Truss Type Qty Ply FFF-LOT #8 Roof 172240639 GE01 COMMON SUPPORTED GAB 25-0541-A Job Reference (optional) Riverside Roof Truss, LLC, Danville, Va - 24541, 8.730 s Feb 19 2025 MiTek Industries, Inc. Mon Mar 24 11:25:56 2025 Page 1 ID:Bxl2MwYau_NHkbraGCmHloyOvst-ZUfZY8mjwXO_tqxXIGmHaYdzksGtolUOp1bt5lzXkZf 5-9-8 11-7-0 5-9-8 5-9-8 Scale = 1:27.3 4x4 = 7.00 12 6 3x5 / 3x5 > 1-1-13 14 13 12 11 16 15 10 3x4 =3x4 =11-7-0 11-7-0 LOADING (psf) SPACING-2-0-0 CSI. DEFL. in (loc) I/defl I/d **PLATES** GRIP TCLL (roof) 20.0 Plate Grip DOL 1.15 TC 0.08 Vert(LL) -0.00 n/r 120 MT20 244/190 Snow (Pf/Pg) 11.6/15.0 Lumber DOL 1.15 вс 0.03 Vert(CT) -0.00 n/r 120 TCDL 10.0 WB Rep Stress Incr YES 0.04 Horz(CT) 0.00 10 n/a n/a **BCLL** 0.0 Code IRC2018/TPI2014 Matrix-S Weight: 66 lb FT = 20% BCDL 10.0 LUMBER-BRACING-TOP CHORD 2x4 SP No.2

BOT CHORD 2x4 SP No.2 2x4 SP No 3 WFBS

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

except end verticals

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

REACTIONS. All bearings 11-7-0.

2x4 SP No 3

(lb) -Max Horz 16=-108(LC 14)

Max Uplift All uplift 100 lb or less at joint(s) 16, 10, 14, 15, 12, 11 Max Grav All reactions 250 lb or less at joint(s) 16, 10, 13, 14, 15, 12, 11

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

NOTES-

OTHERS

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



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 FFF-LOT #8 Roof 172240640 M01 MONOPITCH 6 25-0541-A Job Reference (optional) Riverside Roof Truss, LLC, Danville, Va - 24541, 8.730 s Feb 19 2025 MiTek Industries, Inc. Mon Mar 24 11:25:57 2025 Page 1 ID:Bxl2MwYau_NHkbraGCmHloyOvst-1hDxlUmLhrWrU_Wjr_HW7lA2aGX9X5RY1hLQdkzXkZe -0-11-0 0-11-0 5-10-0 11-8-0 5-10-0 5-10-0 Scale = 1:25.0 2x4-H 13 4.00 12 3x4 = 12 3x4 = 3 0-8-0 7 6 3x4 = 2x4 || 3x4 II 5-10-0 11-8-0 5-10-0 5-10-0 Plate Offsets (X,Y)--[2:0-2-5,0-0-5] LOADING (psf) SPACING-2-0-0 CSI. DEFL. in (loc) I/defl L/d **PLATES** GRIP TCLL (roof) 20.0 Plate Grip DOL 1.15 TC 0.39 Vert(LL) -0.03 6-7 >999 240 MT20 244/190 Snow (Pf/Pg) 11.6/15.0 Lumber DOL 1.15 BC 0.34 Vert(CT) -0.06 6-7 >999 180 TCDL 10.0 WB Rep Stress Incr YES 0.51 Horz(CT) 0.01 6 n/a n/a **BCLL** 0.0 Code IRC2018/TPI2014 Matrix-MS Weight: 58 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

BCDL

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

2x4 SP No 3 WFBS

10.0

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

REACTIONS.

(size) 2=0-3-8, 6=Mechanical

Max Horz 2=148(LC 15)

Max Uplift 2=-53(LC 16), 6=-32(LC 16) Max Grav 2=518(LC 2), 6=459(LC 2)

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

TOP CHORD 2-4=-661/180

BOT CHORD 2-7=-274/668, 6-7=-274/668

WEBS 4-6=-700/233

NOTES-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) -0-11-0 to 2-1-0, Interior(1) 2-1-0 to 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.



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

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

except end verticals.

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Job Truss Truss Type Qty Ply FFF-LOT #8 Roof 172240641 M01GE MONOPITCH SUPPORTED 25-0541-A Job Reference (optional)

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

8.730 s Feb 19 2025 MiTek Industries, Inc. Mon Mar 24 11:25:57 2025 Page 1 ID:Bxl2MwYau_NHkbraGCmHloyOvst-1hDxlUmLhrWrU_Wjr_HW7lA5uGbPXCXY1hLQdkzXkZe

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

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

except end verticals.

11-8-0 11-8-0

Scale = 1:23.3 4.00 12 15 5 4x8 = 14 13 12 11 10 9 3x4 ||

| Plate Offsets (X,Y) [2:0-1-8, | Plate Offsets (X,Y) [2:0-1-8,0-0-5] | | | | | |
|---|--|---------------------------------------|---|-------|--|--|
| LOADING (psf) TCLL (roof) 20.0 Snow (Pf/Pg) 11.6/15.0 TCDL 10.0 | SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES | CSI. TC 0.24 BC 0.07 WB 0.05 | DEFL. in (loc) l/defl L/d PLATES GRIP Vert(LL) 0.00 1 n/r 120 MT20 244/190 Vert(CT) -0.00 1 n/r 120 Horz(CT) 0.00 9 n/a n/a | 0 | | |
| BCLL 0.0 * BCDL 10.0 | Code IRC2018/TPI2014 | Matrix-S | Weight: 60 lb FT = | = 20% | | |

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

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

SLIDER Left 2x4 SP No.3 1-7-8

REACTIONS. All bearings 11-8-0.

(lb) - Max Horz 2=146(LC 13)

Max Uplift All uplift 100 lb or less at joint(s) 9, 2, 10, 11, 12, 13, 14 Max Grav All reactions 250 lb or less at joint(s) 9, 2, 10, 11, 12, 13, 14

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

TOP CHORD 2-3=-342/173. 3-4=-261/141

NOTES-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; B=25ft; B=45ft; L=24ft; eave=2ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Corner(3E) -0-11-0 to 2-1-0, Exterior(2N) 2-1-0 to 11-6-4 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) All plates are 2x4 MT20 unless otherwise indicated.
- 7) Gable requires continuous bottom chord bearing.
- 8) Gable studs spaced at 2-0-0 oc.
- 9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 10) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 9, 2, 10, 11, 12, 13, 14.
- 12) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 2.
- 13) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



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Job Truss Truss Type Qty Ply FFF-LOT #8 Roof 172240642 M02 HALF HIP 3 25-0541-A Job Reference (optional) Riverside Roof Truss, LLC, Danville, Va - 24541, 8.730 s Feb 19 2025 MiTek Industries, Inc. Mon Mar 24 11:25:58 2025 Page 1 ID:Bxl2MwYau_NHkbraGCmHloyOvst-VtnJzqn_S9ei685wPholfziHgfxhGfshGL4_9AzXkZd 0-11-0 2-8-0 Scale = 1:10.5 2x4 L 4.00 12 12 -6-11 2x4 || 4x4 = 3x4 = 2-8-0 3-8-0 2-8-0 1-0-0 LOADING (psf) SPACING-2-0-0 CSI. **DEFL** in (loc) I/defl I/d **PLATES** GRIP TCLL (roof) 20.0 Plate Grip DOL 1.15 TC 0.18 Vert(LL) -0.00 10 >999 240 MT20 244/190 Snow (Pf/Pg) 16.5/15.0 Lumber DOL 1.15 вс 0.07 Vert(CT) -0.00 >999 180 TCDL 10.0 WB Rep Stress Incr NO 0.05 Horz(CT) 0.00 2 n/a n/a **BCLL** 0.0 Code IRC2018/TPI2014 Matrix-MP Weight: 19 lb FT = 20% BCDL 10.0 LUMBER-**BRACING-**TOP CHORD 2x4 SP No.2 TOP CHORD Structural wood sheathing directly applied or 3-8-0 oc purlins,

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

except end verticals, and 2-0-0 oc purlins; 4-7, 4-5,

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

REACTIONS. (size) 2=0-3-8, 6=Mechanical

Max Horz 2=42(LC 13) Max Uplift 2=-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



March 25,2025

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 Job
 Truss
 Truss Type
 Qty
 Ply
 FFF-LOT #8 Roof
 172240642

 25-0541-A
 M02
 HALF HIP
 3
 1
 Job Reference (optional)

8.730 s Feb 19 2025 MiTek Industries, Inc. Mon Mar 24 11:25:58 2025 Page 2 ID:Bxl2MwYau_NHkbraGCmHloyOvst-VtnJzqn_S9ei685wPholfziHgfxhGfshGL4_9AzXkZd

Riverside Roof Truss, LLC, Danville, Va - 24541, LOAD CASE(S) Standard Concentrated Loads (lb) Vert: 12=-160 2) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf) Vert: 1-3=-60, 6-8=-20, 4-5=-90 Concentrated Loads (lb) Vert: 12=-160 3) Dead + 0.75 Roof Live (balanced) + 0.75 Attic Floor: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf) Vert: 1-3=-50, 6-8=-20, 4-5=-139 Concentrated Loads (lb) Vert: 12=-160 4) Dead + 0.75 Snow (balanced) + 0.75 Attic Floor: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf) Vert: 1-3=-37, 6-8=-20, 4-5=-133 Concentrated Loads (lb) Vert: 12=-160 5) Dead + 0.75 Snow (Unbal. Left) + 0.75 Attic Floor: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf) Vert: 1-3=-42, 6-8=-20, 4-5=-114 Concentrated Loads (lb) Vert: 12=-160 6) Dead + 0.75 Snow (Unbal. Right) + 0.75 Attic Floor: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf) Vert: 1-3=-25. 6-8=-20. 4-5=-135 Concentrated Loads (lb) Vert: 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 (lb) Vert: 12=-160 9) Dead + 0.6 C-C Wind (Pos. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert: 1-2=45, 2-3=50, 6-8=-12, 4-5=32 Horz: 1-2=-57, 2-3=-62, 3-4=-63, 5-6=-24 Concentrated Loads (lb) Vert: 12=-160 10) Dead + 0.6 C-C Wind (Neg. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert: 1-2=1, 2-3=-46, 6-8=-20, 4-5=-64 Horz: 1-2=-21, 2-3=26, 3-4=31, 5-6=27 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=-42, 5-6=-35 Concentrated Loads (lb) Vert: 12=-160 12) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert: 1-2=28, 2-3=13, 6-8=-12, 4-5=8 Horz: 1-2=-40, 2-3=-25, 3-4=-11, 5-6=18 Concentrated Loads (lb) Vert: 12=-160 13) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert: 1-2=3, 2-3=8, 6-8=-12, 4-5=8 Horz: 1-2=-15, 2-3=-20, 3-4=-26, 5-6=-15 Concentrated Loads (lb) Vert: 12=-160

14) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60

15) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60

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

Continued on page 3

Uniform Loads (plf)

Concentrated Loads (lb) Vert: 12=-160

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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 properly damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPH 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)



Danville, Va - 24541,

8.730 s Feb 19 2025 MiTek Industries, Inc. Mon Mar 24 11:25:58 2025 Page 3 ID:Bxl2MwYau_NHkbraGCmHloyOvst-VtnJzqn_S9ei685wPholfziHgfxhGfshGL4_9AzXkZd

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

Concentrated Loads (lb) Vert: 12=-160

Horz: 1-2=-3, 2-3=1, 3-4=5, 5-6=9



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8.730 s Feb 19 2025 MiTek Industries, Inc. Mon Mar 24 11:25:58 2025 Page 4 ID:Bxl2MwYau_NHkbraGCmHloyOvst-VtnJzqn_S9ei685wPholfziHgfxhGfshGL4_9AzXkZd

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

Vert: 12=-160





and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com) Edenton, NC 27932



| Job | Truss | Truss Type | Qty | Ply | FFF-LOT #8 Roof | |
|-----------|-------|----------------|-----|-----|--------------------------|-----------|
| 05.0544.4 | MOO | HALF HIP | | | | 172240642 |
| 25-0541-A | M02 | HALF HIP | 3 | 1 | Job Reference (optional) | |

8.730 s Feb 19 2025 MiTek Industries, Inc. Mon Mar 24 11:25:58 2025 Page 5 ID:Bxl2MwYau_NHkbraGCmHloyOvst-VtnJzqn_S9ei685wPholfziHgfxhGfshGL4_9AzXkZd

Riverside Roof Truss, LLC, Danville, Va - 24541, LOAD CASE(S) Standard 41) 9th Unbal.Dead + 0.75 Snow (unbal.) + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) Right) + Parallel: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert: 1-2=-14, 2-3=-18, 6-8=-20, 4-5=-137 Horz: 1-2=-11, 2-3=-7, 3-4=-3, 5-6=-19 Concentrated Loads (lb) Vert: 12=-160 42) 10th Unbal.Dead + 0.75 Snow (unbal.) + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) Right) + Parallel: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert: 1-2=-46, 2-3=-50, 6-8=-20, 4-5=-105 Horz: 1-2=-11, 2-3=-7, 3-4=-3, 5-6=-19 Concentrated Loads (lb) Vert: 12=-160 43) 11th Unbal.Dead + 0.75 Snow (unbal.) + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert: 1-2=-22, 2-3=-26, 6-8=-20, 4-5=-137 Horz: 1-2=-3, 2-3=1, 3-4=5, 5-6=9 Concentrated Loads (lb) Vert: 12=-160 44) 12th Unbal.Dead + 0.75 Snow (unbal.) + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert: 1-2=-54, 2-3=-58, 6-8=-20, 4-5=-105 Horz: 1-2=-3, 2-3=1, 3-4=5, 5-6=9 Concentrated Loads (lb) Vert: 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) 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) Vert: 12=-160 47) 15th Unbal.Dead + Minimum Snow + Parallel: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf) Vert: 1-3=-27, 6-8=-20, 4-5=-100 Concentrated Loads (lb) Vert: 12=-160 48) 16th Unbal.Dead + Minimum Snow + Parallel: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf) Vert: 1-3=-70, 6-8=-20, 4-5=-57 Concentrated Loads (lb) Vert: 12=-160 49) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf) Vert: 1-3=-60, 6-8=-20, 4-5=-50 Concentrated Loads (lb) Vert: 12=-160 50) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf) Vert: 1-3=-20, 6-8=-20, 4-5=-90 Concentrated Loads (lb) Vert: 12=-160 51) 3rd Dead + 0.75 Roof Live (unbalanced) + 0.75 Attic Floor: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

Vert: 1-3=-50, 6-8=-20, 4-5=-109

Vert: 1-3=-20, 6-8=-20, 4-5=-139

Concentrated Loads (lb) Vert: 12=-160

Concentrated Loads (lb) Vert: 12=-160

Uniform Loads (plf)

52) 4th Dead + 0.75 Roof Live (unbalanced) + 0.75 Attic Floor: Lumber Increase=1.15, Plate Increase=1.15



Job Truss Truss Type Qty Ply FFF-LOT #8 Roof 172240643 M03 MONOPITCH 6 25-0541-A Job Reference (optional) Riverside Roof Truss, LLC, Danville, Va - 24541, 8.730 s Feb 19 2025 MiTek Industries, Inc. Mon Mar 24 11:25:58 2025 Page 1 ID:Bxl2MwYau_NHkbraGCmHloyOvst-VtnJzqn_S9ei685wPholfziHKfxcGfbhGL4_9AzXkZd 3-8-0 3-8-0 0-11-0 Scale = 1:12.3 2x4 J 4.00 12 0-8-0 4 2x4 || 3-8-0 3-8-0 LOADING (psf) SPACING-2-0-0 CSI. DEFL in (loc) I/defl I/d **PLATES** GRIP TCLL (roof) 20.0 Plate Grip DOL 1.15 TC 0.14 Vert(LL) -0.00 4-7 >999 240 MT20 244/190 Snow (Pf/Pg) 11.6/15.0 Lumber DOL 1.15 вс 0.07 Vert(CT) -0.01 >999 180 TCDL 10.0 WB 0.00 Rep Stress Incr YES Horz(CT) 0.00 n/a n/a **BCLL** 0.0 Code IRC2018/TPI2014 Matrix-MP Weight: 18 lb FT = 20% BCDL 10.0

LUMBER-

WFBS

BRACING-2x4 SP No.2

TOP CHORD BOT CHORD 2x6 SP No.2

2x4 SP No.3

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)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; B=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.



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Job Truss Truss Type Qty Ply FFF-LOT #8 Roof 172240644 M03GE MONOPITCH SUPPORTED 25-0541-A Job Reference (optional)

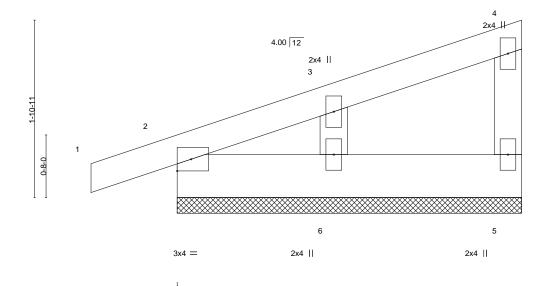
Riverside Roof Truss, LLC,

Danville, Va - 24541,

8.730 s Feb 19 2025 MiTek Industries, Inc. Mon Mar 24 11:25:59 2025 Page 1 ID:Bxl2MwYau_NHkbraGCmHloyOvst-_3LhAAocDSmZklg6zPK_CAFT93lo?5wrV?qXiczXkZc

3-8-0 3-8-0

Scale = 1:12.3



| LOADING (p: TCLL (roof) | sf) 20.0 | SPACING- | 2-0-0 | CSI. | 0.07 | DEFL. | in | (loc) | I/defI | L/d | PLATES | GRIP |
|----------------------------|-------------|-----------------|--------|-------|------|-----------|-------|-------|--------|------|---------------|----------|
| Snow (Pf/Pg) | 11.6/15.0 | Plate Grip DOL | 1.15 | TC | 0.07 | Vert(LL) | 0.00 | 1 | n/r | 120 | MT20 | 244/190 |
| ١ ٠, | | Lumber DOL | 1.15 | BC | 0.01 | Vert(CT) | -0.00 | 1 | n/r | 120 | | |
| TCDL | 10.0 | Rep Stress Incr | YES | WB | 0.06 | Horz(CT) | 0.00 | _ | n/a | n/a | | |
| BCLL | 0.0 * | | | | | 11012(01) | 0.00 | 5 | II/a | II/a | | |
| BCDL | 10.0 | Code IRC2018/Ti | PI2014 | Matri | х-Р | | | | | | Weight: 18 lb | FT = 20% |

LUMBER-

OTHERS

TOP CHORD 2x4 SP No.2 BOT CHORD 2x6 SP No.2 WFBS

2x4 SP No.3 2x4 SP No 3

BRACING-

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

except end verticals

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

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=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.





Job Truss Truss Type Qty Ply FFF-LOT #8 Roof 172240645 M04 HALF HIP 3 25-0541-A Job Reference (optional) Riverside Roof Truss, LLC, Danville, Va - 24541, 8.730 s Feb 19 2025 MiTek Industries, Inc. Mon Mar 24 11:25:59 2025 Page 1 ID:Bxl2MwYau_NHkbraGCmHloyOvst-_3LhAAocDSmZklg6zPK_CAFHo3EW?4LrV?qXiczXkZc -0-11-0 7-8-0 1-0-0 Scale = 1:18.2 2x4_H 4.00 12 2-10-11 13 3x6 = 1-2-0 3x5 =7 6 2x4 || 4x4 = 3x8 || 0-6-8 6-8-0 7-8-0 6-1-8 1-0-0 Plate Offsets (X,Y)--[2:0-0-0,0-0-14] LOADING (psf) SPACING-2-0-0 CSI. DEFL. in (loc) I/defl L/d **PLATES** GRIP TCLL (roof) 20.0 Plate Grip DOL 1.15 TC 0.86 Vert(LL) -0.03 7-12 >999 240 MT20 244/190 Snow (Pf/Pg) 16.5/15.0 Lumber DOL 1.15 BC 0.29 Vert(CT) -0.06 7-12 >999 180 TCDL 10.0 WB Rep Stress Incr NO 0.10 Horz(CT) 0.01 n/a n/a **BCLL** 0.0 Code IRC2018/TPI2014 Matrix-MP Weight: 38 lb FT = 20% BCDL 10.0 LUMBER-BRACING-TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins,

BOT CHORD

TOP CHORD 2x4 SP No 2 BOT CHORD 2x6 SP No 2

WFBS 2x4 SP No.3 WEDGE

Left: 2x4 SP No.3

REACTIONS.

(size) 6=Mechanical, 2=0-3-0

Max Horz 2=115(LC 16) Max Uplift 2=-13(LC 16)

Max Grav 6=467(LC 28), 2=449(LC 36)

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

BOT CHORD 6-7=-150/385 **WEBS** 4-6=-488/179

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

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

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



except end verticals, and 2-0-0 oc purlins: 4-7, 4-5.

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

March 25,2025



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LOAD CASE(S)

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

Uniform Loads (plf)

Vert: 1-3=-43, 4-5=-83(F=-30), 6-8=-20

Concentrated Loads (lb)

Vert: 15=-160

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

Uniform Loads (plf)

Vert: 1-3=-60, 4-5=-90(F=-30), 6-8=-20

Concentrated Loads (lb)

Vert: 15=-160

3) Dead + 0.75 Roof Live (balanced) + 0.75 Attic Floor: Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 1-3=-50, 4-5=-139(F=-89), 6-8=-20

Concentrated Loads (lb)

Vert: 15=-160

4) Dead + 0.75 Snow (balanced) + 0.75 Attic Floor: Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 1-3=-37, 4-5=-133(F=-89), 6-8=-20

Concentrated Loads (lb)

Vert: 15=-160

5) Dead + 0.75 Snow (Unbal. Left) + 0.75 Attic Floor: Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 1-14=-37, 3-14=-42, 4-5=-114(F=-89), 6-8=-20

Concentrated Loads (lb)

Vert: 15=-160

6) Dead + 0.75 Snow (Unbal. Right) + 0.75 Attic Floor: Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 1-3=-25, 4-5=-137(F=-89), 6-8=-20

Concentrated Loads (lb)

Vert: 15=-160

7) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25

Uniform Loads (plf)

Vert: 1-3=-20, 4-5=-50(F=-30), 6-8=-40

Concentrated Loads (lb)

Vert: 15=-160

8) Dead + 0.6 C-C Wind (Pos. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=58, 2-13=45, 3-13=34, 4-5=16(F=-18), 6-8=-12

Horz: 1-2=-70, 2-13=-57, 3-13=-46, 3-4=10, 5-6=38

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=-63, 5-6=-24

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=31, 5-6=27

Concentrated Loads (lb)

Vert: 15=-160

11) Dead + 0.6 C-C Wind (Neg. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=-37, 2-3=-42, 4-5=-60(F=-18), 6-8=-20

Horz: 1-2=17, 2-3=22, 3-4=-42, 5-6=-35

Concentrated Loads (lb)

Vert: 15=-160

12) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=28, 2-3=13, 4-5=8(F=-18), 6-8=-12 Horz: 1-2=-40, 2-3=-25, 3-4=-11, 5-6=18

Concentrated Loads (lb)

Vert: 15=-160

13) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=3, 2-3=8, 4-5=8(F=-18), 6-8=-12

Horz: 1-2=-15, 2-3=-20, 3-4=-26, 5-6=-15

Concentrated Loads (lb)

Vert: 15=-160

14) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=-16, 2-3=-21, 4-5=-39(F=-18), 6-8=-20

Horz: 1-2=-4, 2-3=1, 3-4=31, 5-6=7

Continued on page 3

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LOAD CASE(S)

Concentrated Loads (lb)

Vert: 15=-160

15) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=-5, 2-3=-10, 4-5=-39(F=-18), 6-8=-20

Horz: 1-2=-15, 2-3=-10, 3-4=-4, 5-6=-25

Concentrated Loads (lb)

Vert: 15=-160

16) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=32, 2-3=17, 4-5=-1(F=-18), 6-8=-12

Horz: 1-2=-44, 2-3=-29, 3-4=-34, 5-6=23

Concentrated Loads (lb)

Vert: 15=-160

17) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=21, 2-3=6, 4-5=-12(F=-18), 6-8=-12

Horz: 1-2=-33, 2-3=-18, 3-4=-24, 5-6=23

Concentrated Loads (lb)

Vert: 15=-160

18) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=-16, 2-3=-21, 4-5=-39(F=-18), 6-8=-20

Horz: 1-2=-4, 2-3=1, 3-4=6, 5-6=12

Concentrated Loads (lb)

Vert: 15=-160

19) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=-16, 2-3=-21, 4-5=-39(F=-18), 6-8=-20

Horz: 1-2=-4, 2-3=1, 3-4=6, 5-6=12

Concentrated Loads (lb)

Vert: 15=-160

20) Dead + Snow on Overhangs: Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 1-2=-43, 2-3=-20, 4-5=-50(F=-30), 6-8=-20

Concentrated Loads (lb)

Vert: 15=-160

21) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 1-14=-43, 3-14=-49, 4-5=-57(F=-30), 6-8=-20

Concentrated Loads (lb)

Vert: 15=-160

22) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 1-3=-27, 4-5=-88(F=-30), 6-8=-20

Concentrated Loads (lb)

Vert: 15=-160

23) Dead: Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90

Uniform Loads (plf)

Vert: 1-3=-20, 4-5=-50(F=-30), 6-8=-20

Concentrated Loads (lb)

Vert: 15=-160

24) Dead + 0.75 Snow (bal.) + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=-34, 2-3=-38, 4-5=-124(F=-79), 6-8=-20

Horz: 1-2=-3, 2-3=1, 3-4=23, 5-6=5

Concentrated Loads (lb)

Vert: 15=-160

25) Dead + 0.75 Snow (bal.) + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=-26, 2-3=-30, 4-5=-124(F=-79), 6-8=-20

Horz: 1-2=-11, 2-3=-7, 3-4=-3, 5-6=-19

Concentrated Loads (lb)

Vert: 15=-160

26) Dead + 0.75 Snow (bal.) + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate

Increase=1.60

Uniform Loads (plf)

Vert; 1-2=-34, 2-3=-38, 4-5=-124(F=-79), 6-8=-20

Horz: 1-2=-3, 2-3=1, 3-4=5, 5-6=9

Concentrated Loads (lb)

Vert: 15=-160

27) Dead + 0.75 Snow (bal.) + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60



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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

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

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| Job | Truss | Truss Type | Qty | Ply | FFF-LOT #8 Roof | |
|-----------|-------|------------|-----|-----|--------------------------|-------|
| | | | | | 17224 | 40645 |
| 25-0541-A | M04 | HALF HIP | 3 | 1 | | |
| | | | | | Job Reference (optional) | |

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LOAD CASE(S)

40) 8th Unbai. Dead + 0.75 Snow (unbal.) + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) Left) + Parallel: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf)

Vert: 1-2=-54, 2-3=-58, 4-5=-105(F=-79), 6-8=-20

Horz: 1-2=-3, 2-3=1, 3-4=23, 5-6=5

Concentrated Loads (lb)

Vert: 15=-160

41) 9th Unbal.Dead + 0.75 Snow (unbal.) + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) Right) + Parallel: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=-14, 2-3=-18, 4-5=-137(F=-79), 6-8=-20

Horz: 1-2=-11, 2-3=-7, 3-4=-3, 5-6=-19

Concentrated Loads (lb)

Vert: 15=-160

42) 10th Unbal.Dead + 0.75 Snow (unbal.) + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) Right) + Parallel: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf)

Vert: 1-2=-46, 2-3=-50, 4-5=-105(F=-79), 6-8=-20

Horz: 1-2=-11, 2-3=-7, 3-4=-3, 5-6=-19

Concentrated Loads (lb)

Vert: 15=-160

43) 11th Unbal.Dead + 0.75 Snow (unbal.) + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf)

Vert: 1-2=-22, 2-3=-26, 4-5=-137(F=-79), 6-8=-20

Horz: 1-2=-3, 2-3=1, 3-4=5, 5-6=9

Concentrated Loads (lb)

Vert: 15=-160

44) 12th Unbal.Dead + 0.75 Snow (unbal.) + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf)

Vert: 1-2=-54, 2-3=-58, 4-5=-105(F=-79), 6-8=-20

Horz: 1-2=-3, 2-3=1, 3-4=5, 5-6=9

Concentrated Loads (lb)

Vert: 15=-160

45) 13th Unbal.Dead + 0.75 Snow (unbal.) + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf)

Vert: 1-2=-22, 2-3=-26, 4-5=-137(F=-79), 6-8=-20

Horz: 1-2=-3, 2-3=1, 3-4=5, 5-6=9

Concentrated Loads (lb)

Vert: 15=-160

46) 14th Unbal.Dead + 0.75 Snow (unbal.) + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf)

Vert: 1-2=-54, 2-3=-58, 4-5=-105(F=-79), 6-8=-20

Horz: 1-2=-3, 2-3=1, 3-4=5, 5-6=9

Concentrated Loads (lb)

Vert: 15=-160

47) 15th Unbal.Dead + Minimum Snow + Parallel: Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 1-3=-27, 4-5=-100(F=-30), 6-8=-20

Concentrated Loads (lb)

Vert: 15=-160

48) 16th Unbal.Dead + Minimum Snow + Parallel: Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 1-3=-70, 4-5=-57(F=-30), 6-8=-20

Concentrated Loads (lb)

Vert: 15=-160

49) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 1-3=-60, 4-5=-50(F=-30), 6-8=-20

Concentrated Loads (lb)

Vert: 15=-160

50) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 1-3=-20, 4-5=-90(F=-30), 6-8=-20

Concentrated Loads (lb) Vert: 15=-160

51) 3rd Dead + 0.75 Roof Live (unbalanced) + 0.75 Attic Floor: Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 1-3=-50, 4-5=-109(F=-89), 6-8=-20

Concentrated Loads (lb) Vert: 15=-160

52) 4th Dead + 0.75 Roof Live (unbalanced) + 0.75 Attic Floor: Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 1-3=-20, 4-5=-139(F=-89), 6-8=-20

Concentrated Loads (lb)

Vert: 15=-160



Job Truss Truss Type Qty Ply FFF-LOT #8 Roof 172240646 M04SGE **GABLE** 25-0541-A Job Reference (optional) Riverside Roof Truss, LLC, Danville, Va - 24541, 8.730 s Feb 19 2025 MiTek Industries, Inc. Mon Mar 24 11:26:00 2025 Page 1 ID:Bxl2MwYau_NHkbraGCmHloyOvst-SGv4OWpE_muQMSFIX6rDkOoXtTZBkYc_kfZ5E3zXkZb -0-11-0 7-8-0 0-11-0 1-0-0 Scale = 1:18.2 2x4_H 2x4 || 4.00 12 2x4 || 2-10-11 3x4 =1-2-0 3x6 =7 2x4 || 2x4 || 6 2x4 || 4x4 = 3x8 || 0-6-8 0-6-8 6-8-0 7-8-0 3-7-4 1-0-0 Plate Offsets (X,Y)--[2:0-0-0,0-0-10], [2:0-2-1,0-9-1] LOADING (psf) SPACING-2-0-0 CSI. DEFL. in (loc) I/defl L/d **PLATES** GRIP TCLL (roof) 20.0 Plate Grip DOL 1.15 TC 0.52 Vert(LL) -0.01 8-17 >999 240 MT20 244/190 16.5/15.0 Snow (Pf/Pg) Lumber DOL 1.15 BC 0.26 Vert(CT) -0.01 8-17 >999 180 TCDL 10.0 Rep Stress Incr NO WB 0.03 Horz(CT) 0.00 n/a n/a **BCLL** 0.0 Code IRC2018/TPI2014 Matrix-MP Weight: 41 lb FT = 20% BCDL 10.0 LUMBER-BRACING-TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins,

BOT CHORD

TOP CHORD 2x4 SP No 2 2x6 SP No.2 BOT CHORD

WFBS 2x4 SP No.3 **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. (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); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) 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.
- 11) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 12) 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.

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)



March 25,2025

Edenton, NC 27932

except end verticals, and 2-0-0 oc purlins: 4-7, 4-5.

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

| Job | Truss | Truss Type | Qty | Ply | FFF-LOT #8 Roof | |
|-----------|--------|------------|-----|-----|--------------------------|----|
| | | | | | 1722406 | 46 |
| 25-0541-A | M04SGE | GABLE | 1 | 1 | | |
| | | | | | Job Reference (optional) | |

Danville, Va - 24541,

8.730 s Feb 19 2025 MiTek Industries, Inc. Mon Mar 24 11:26:00 2025 Page 2 ID:Bxl2MwYau_NHkbraGCmHloyOvst-SGv4OWpE_muQMSFIX6rDkOoXtTZBkYc_kfZ5E3zXkZb

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=10, 5-6=38

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=-24

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=31, 5-6=27

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=-48, 5-6=-35

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





Danville, Va - 24541,

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LOAD CASE(S)

Concentrated Loads (lb)

Vert: 19=-160

15) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=-5, 2-3=-10, 4-5=-39, 6-13=-20

Horz: 1-2=-15, 2-3=-10, 3-4=-4, 5-6=-25

Concentrated Loads (lb)

Vert: 19=-160

16) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=32, 2-3=17, 4-5=-1, 6-13=-12 Horz: 1-2=-44, 2-3=-29, 3-4=-34, 5-6=23

Concentrated Loads (lb)

Vert: 19=-160

17) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=21, 2-3=6, 4-5=-12, 6-13=-12

Horz: 1-2=-33, 2-3=-18, 3-4=-24, 5-6=23

Concentrated Loads (lb)

Vert: 19=-160

18) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=-16, 2-3=-21, 4-5=-39, 6-13=-20

Horz: 1-2=-4, 2-3=1, 3-4=6, 5-6=12

Concentrated Loads (lb)

Vert: 19=-160

19) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=-16, 2-3=-21, 4-5=-39, 6-13=-20

Horz: 1-2=-4, 2-3=1, 3-4=6, 5-6=12

Concentrated Loads (lb)

Vert: 19=-160

20) Dead + Snow on Overhangs: Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 1-2=-43, 2-3=-20, 4-5=-50, 6-13=-20

Concentrated Loads (lb)

Vert: 19=-160

21) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 1-18=-43, 3-18=-49, 4-5=-57, 6-13=-20

Concentrated Loads (lb)

Vert: 19=-160

22) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 1-3=-27, 4-5=-88, 6-13=-20

Concentrated Loads (lb)

Vert: 19=-160

23) Dead: Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90

Uniform Loads (plf)

Vert: 1-3=-20, 4-5=-50, 6-13=-20

Concentrated Loads (lb)

Vert: 19=-160

24) Dead + 0.75 Snow (bal.) + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=-34, 2-3=-38, 4-5=-124, 6-13=-20

Horz: 1-2=-3, 2-3=1, 3-4=23, 5-6=5

Concentrated Loads (lb)

Vert: 19=-160

25) Dead + 0.75 Snow (bal.) + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=-26, 2-3=-30, 4-5=-124, 6-13=-20

Horz: 1-2=-11, 2-3=-7, 3-4=-3, 5-6=-19

Concentrated Loads (lb)

Vert: 19=-160

26) Dead + 0.75 Snow (bal.) + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate

Increase=1.60 Uniform Loads (plf)

Vert: 1-2=-34, 2-3=-38, 4-5=-124, 6-13=-20

Horz: 1-2=-3, 2-3=1, 3-4=5, 5-6=9

Concentrated Loads (lb)

Vert: 19=-160

27) Dead + 0.75 Snow (bal.) + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60



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

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Job Truss Truss Type Qty Ply FFF-LOT #8 Roof 172240646 M04SGE **GABLE** 25-0541-A 1 Job Reference (optional)

Riverside Roof Truss, LLC,

Danville, Va - 24541,

8.730 s Feb 19 2025 MiTek Industries, Inc. Mon Mar 24 11:26:00 2025 Page 4 ID:Bxl2MwYau_NHkbraGCmHloyOvst-SGv4OWpE_muQMSFIX6rDkOoXtTZBkYc_kfZ5E3zXkZb

LOAD CASE(S)

Uniform Loads (plf)

Vert: 1-2=-34, 2-3=-38, 4-5=-124, 6-13=-20

Horz: 1-2=-3, 2-3=1, 3-4=5, 5-6=9

Concentrated Loads (lb)

Vert: 19=-160

28) Dead + 0.75 Roof Live (bal.) + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=-47, 2-3=-51, 4-5=-129, 6-13=-20

Horz: 1-2=-3, 2-3=1, 3-4=23, 5-6=5

Concentrated Loads (lb)

Vert: 19=-160

29) Dead + 0.75 Roof Live (bal.) + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=-39, 2-3=-43, 4-5=-129, 6-13=-20

Horz: 1-2=-11, 2-3=-7, 3-4=-3, 5-6=-19

Concentrated Loads (lb)

Vert: 19=-160

30) Dead + 0.75 Roof Live (bal.) + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=-47, 2-3=-51, 4-5=-129, 6-13=-20

Horz: 1-2=-3, 2-3=1, 3-4=5, 5-6=9

Concentrated Loads (lb)

Vert: 19=-160

31) Dead + 0.75 Roof Live (bal.) + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=-47, 2-3=-51, 4-5=-129, 6-13=-20

Horz: 1-2=-3, 2-3=1, 3-4=5, 5-6=9

Concentrated Loads (lb)

Vert: 19=-160

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 1-3=-20, 4-5=-80, 6-13=-20

Concentrated Loads (lb)

Vert: 19=-160

33) Dead + 0.6 C-C Wind Min. Down: Lumber Increase=1.60. Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=4, 2-3=-28, 4-5=-46, 6-13=-12

Horz: 1-2=-16, 2-3=16, 3-4=16, 5-6=16

Concentrated Loads (lb) Vert: 19=-160

34) Dead + 0.6 C-C Wind Min. Upward: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-3=4, 4-5=-14, 6-13=-12

Horz: 1-3=-16, 3-4=16, 5-6=16

Concentrated Loads (lb) Vert: 19=-160

35) 3rd Unbal.Dead + Snow (balanced) + Parallel: Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 1-3=-27, 4-5=-100, 6-13=-20

Concentrated Loads (lb)

Vert: 19=-160

36) 4th Unbal.Dead + Snow (balanced) + Parallel: Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 1-3=-70, 4-5=-57, 6-13=-20

Concentrated Loads (lb)

Vert: 19=-160

37) 5th Unbal.Dead + 0.75 Snow (balanced) + 0.75 Attic Floor + Parallel: Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 1-3=-25, 4-5=-146, 6-13=-20 Concentrated Loads (lb)

Vert: 19=-160

38) 6th Unbal.Dead + 0.75 Snow (balanced) + 0.75 Attic Floor + Parallel: Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 1-3=-57, 4-5=-114, 6-13=-20

Concentrated Loads (lb)

Vert: 19=-160

39) 7th Unbal.Dead + 0.75 Snow (unbal.) + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) Left) + Parallel: Lumber Increase=1.60,

Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=-22, 2-3=-26, 4-5=-137, 6-13=-20

Horz: 1-2=-3, 2-3=1, 3-4=23, 5-6=5

Concentrated Loads (lb)

Vert: 19=-160





| Job | Truss | Truss Type | Qty | Ply | FFF-LOT #8 Roof | |
|-----------|--------|------------|-----|-----|--------------------------|-----------|
| 25-0541-A | M04SGE | GABLE | 1 | 1 | | 172240646 |
| 25-0541-A | WO43GL | GABLE | ' | ' | Job Reference (optional) | |

Danville, Va - 24541,

8.730 s Feb 19 2025 MiTek Industries, Inc. Mon Mar 24 11:26:00 2025 Page 5 ID:Bxl2MwYau_NHkbraGCmHloyOvst-SGv4OWpE_muQMSFIX6rDkOoXtTZBkYc_kfZ5E3zXkZb

LOAD CASE(S)

40) 8th Unbal.Dead + 0.75 Snow (unbal.) + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) Left) + Parallel: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf)

Vert: 1-2=-54, 2-3=-58, 4-5=-105, 6-13=-20

Horz: 1-2=-3, 2-3=1, 3-4=23, 5-6=5

Concentrated Loads (lb)

Vert: 19=-160

41) 9th Unbal.Dead + 0.75 Snow (unbal.) + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) Right) + Parallel: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf)

Vert: 1-2=-14, 2-3=-18, 4-5=-137, 6-13=-20 Horz: 1-2=-11, 2-3=-7, 3-4=-3, 5-6=-19

Concentrated Loads (lb)

Vert: 19=-160

42) 10th Unbal.Dead + 0.75 Snow (unbal.) + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) Right) + Parallel: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf)

Vert: 1-2=-46, 2-3=-50, 4-5=-105, 6-13=-20

Horz: 1-2=-11, 2-3=-7, 3-4=-3, 5-6=-19

Concentrated Loads (lb) Vert: 19=-160

43) 11th Unbal.Dead + 0.75 Snow (unbal.) + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf)

Vert: 1-2=-22, 2-3=-26, 4-5=-137, 6-13=-20

Horz: 1-2=-3, 2-3=1, 3-4=5, 5-6=9

Concentrated Loads (lb)

Vert: 19=-160

44) 12th Unbal.Dead + 0.75 Snow (unbal.) + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf)

Vert: 1-2=-54, 2-3=-58, 4-5=-105, 6-13=-20

Horz: 1-2=-3, 2-3=1, 3-4=5, 5-6=9

Concentrated Loads (lb)

Vert: 19=-160

45) 13th Unbal.Dead + 0.75 Snow (unbal.) + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (off)

Vert: 1-2=-22, 2-3=-26, 4-5=-137, 6-13=-20

Horz: 1-2=-3, 2-3=1, 3-4=5, 5-6=9

Concentrated Loads (lb)

Vert: 19=-160

46) 14th Unbal.Dead + 0.75 Snow (unbal.) + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf)

Vert: 1-2=-54, 2-3=-58, 4-5=-105, 6-13=-20

Horz: 1-2=-3, 2-3=1, 3-4=5, 5-6=9

Concentrated Loads (lb)

Vert: 19=-160

47) 15th Unbal.Dead + Minimum Snow + Parallel: Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 1-3=-27, 4-5=-100, 6-13=-20

Concentrated Loads (lb)

Vert: 19=-160

48) 16th Unbal.Dead + Minimum Snow + Parallel: Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 1-3=-70, 4-5=-57, 6-13=-20

Concentrated Loads (lb)

Vert: 19=-160

49) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 1-3=-60, 4-5=-50, 6-13=-20

Concentrated Loads (lb)

Vert: 19=-160

50) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 1-3=-20, 4-5=-90, 6-13=-20

Concentrated Loads (lb) Vert: 19=-160

51) 3rd Dead + 0.75 Roof Live (unbalanced) + 0.75 Attic Floor: Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 1-3=-50, 4-5=-109, 6-13=-20

Concentrated Loads (lb) Vert: 19=-160

52) 4th Dead + 0.75 Roof Live (unbalanced) + 0.75 Attic Floor: Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 1-3=-20, 4-5=-139, 6-13=-20

Concentrated Loads (lb)

Vert: 19=-160



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



172240647 T02 COMMON 25-0541-A Job Reference (optional) Riverside Roof Truss, LLC, Danville, Va - 24541, 8.730 s Feb 19 2025 MiTek Industries, Inc. Mon Mar 24 11:26:01 2025 Page 1 ID:Bxl2MwYau_NHkbraGCmHloyOvst-wSTSbspsl40HzcqV4pMSHbKiLtnrTvK7yJJemVzXkZa 12-7-12 18-9-14 26-2-8 0-11-0 6-5-10 6-5-10 6-2-2 6-2-2 Scale = 1:51.2 4x5 || 7.00 12 4x4 / 4x4 ≥ 5 3 3x5 II 3x5 || 6 7 1-1-13 8 11 17 10 18 9 12 3x4 =3x4 =3x4 =3x6 = 3x6 = 8-6-5 16-9-3 25-3-8 8-2-13 8-6-5 LOADING (psf) SPACING-2-0-0 CSI. DEFL. in (loc) I/defl I/d **PLATES** GRIP TCLL (roof) 20.0 Plate Grip DOL 1.15 TC 0.54 Vert(LL) -0.16 9-11 >999 240 MT20 244/190 Snow (Pf/Pg) 11.6/15.0 Lumber DOL 1.15 вс 0.81 Vert(CT) -0.25 11-12 >999 180 TCDL 10.0 WB Rep Stress Incr YES 0.39 Horz(CT) 0.04 8 n/a n/a **BCLL** 0.0 Code IRC2018/TPI2014 Matrix-MS Weight: 149 lb FT = 20% BCDL 10.0 **BRACING-**

TOP CHORD

BOT CHORD

WFBS

Qty

Ply

FFF-LOT #8 Roof

LUMBER-

REACTIONS.

Job

TOP CHORD 2x4 SP No.2 BOT CHORD

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

> (size) 12=0-3-8, 8=0-3-8 Max Horz 12=-188(LC 14)

Truss

Truss Type

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

6-8=-406/133

BOT CHORD 11-12=-62/1290. 9-11=0/912. 8-9=-52/1178

WFBS 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.



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

3-12. 5-8

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

except end verticals.

1 Row at midpt

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

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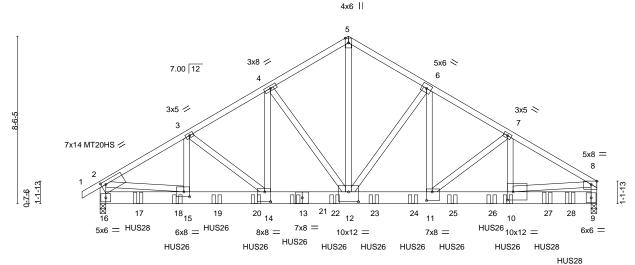
Job Truss Truss Type Qty Ply FFF-LOT #8 Roof 172240648 T02G COMMON GIRDER 25-0541-A 3 Job Reference (optional)

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

8.730 s Feb 19 2025 MiTek Industries, Inc. Mon Mar 24 11:26:02 2025 Page 1 ID:Bxl2MwYau_NHkbraGCmHloyOvst-Oe1qoBqUWN88blPheXthqptndHD5CE9HBz2BlxzXkZZ

12-7-12 16-9-3 20-10-9 25-3-8 4-4-15 4-4-15 4-1-7 4-1-7

Scale = 1:58.7



4-4-15 12-7-12 16-9-3 20-10-9 25-3-8 8-6-5 4-4-15 4-1-7 4-1-7 4-1-7 4-1-7 4-4-15 Plate Offsets (X,Y)-- [2:0-2-12,0-2-0], [8:0-3-8,Edge], [10:0-3-8,0-5-0], [11:0-3-8,0-5-4], [12:0-6-0,0-6-0], [14:0-3-8,0-6-0], [15:0-3-8,0-3-0]

| , , , | , | 1, 1 | | |
|---|---|---------------------------------------|---|---|
| LOADING (psf) TCLL (roof) 20.0 Snow (Pf/Pg) 11.6/15.0 TCDL 10.0 | SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr NO | CSI. TC 0.95 BC 0.42 WB 0.92 | DEFL. in (loc) l/defl L/d Vert(LL) -0.16 11-12 >999 240 Vert(CT) -0.30 11-12 >999 180 Horz(CT) 0.04 9 n/a n/a | PLATES GRIP MT20 244/190 MT20HS 187/143 |
| BCLL 0.0 * BCDL 10.0 | Code IRC2018/TPI2014 | Matrix-MS | | Weight: 617 lb FT = 20% |

BOT CHORD

LUMBER-BRACING-

TOP CHORD 2x4 SP No 2 BOT CHORD 2x8 SP DSS

WFBS 2x4 SP No.3 *Except*

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

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

except end verticals.

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

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

Max Horz 16=180(LC 37)

Max Uplift 16=-528(LC 12), 9=-479(LC 12) Max Grav 16=11302(LC 3), 9=13265(LC 3)

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

TOP CHORD 2-3=-15159/662, 3-4=-14125/590, 4-5=-11481/506, 5-6=-11481/505, 6-7=-14688/564,

7-8=-16944/596, 2-16=-9873/472, 8-9=-10925/394 BOT CHORD 15-16=-169/1722, 14-15=-506/13002, 12-14=-376/12177, 11-12=-352/12661,

10-11=-452/14558, 9-10=-83/2006

WEBS $5-12 = -433/11285, \ 6-12 = -4720/205, \ 6-11 = -124/5227, \ 7-11 = -2440/127, \ 7-10 = -120/2551, \ 7-11 = -124/5227, \ 7-11 = -124/5227, \ 7-11 = -124/5227, \ 7-11 = -124/5227, \ 7-11 = -124/5227, \ 7-11 = -124/5227, \ 7-10 = -120/2551, \ 7-11 = -124/5227, \ 7-11 = -124/5227, \ 7-11 = -124/5227, \ 7-10 = -120/2551, \ 7-11 = -124/5227, \ 7-1$

4-12=-3896/245, 4-14=-167/4275, 3-14=-1076/166, 3-15=-159/1112, 2-15=-412/11461,

8-10=-375/12752

NOTES-

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

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

Bottom chords connected as follows: 2x8 - 3 rows staggered at 0-5-0 oc.

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

- 2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- 3) Unbalanced roof live loads have been considered for this design.
- 4) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=25ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 5) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=15.0 psf; Pf=11.6 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 6) Unbalanced snow loads have been considered for this design.
- 7) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 11.6 psf on overhangs non-concurrent with other live loads.
- 8) All plates are MT20 plates unless otherwise indicated.
- 9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 10) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 11) Bearing at joint(s) 16, 9 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify



March 25.2025

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| Job | Truss | Truss Type | Qty | Ply | FFF-LOT #8 Roof | |
|-----------|-------|---------------|-----|-----|--------------------------|-----------|
| | | | | | | 172240648 |
| 25-0541-A | T02G | COMMON GIRDER | 1 | 3 | Joh Deference (entional) | |

Danville, Va - 24541,

Job Reference (optional)
8.730 s Feb 19 2025 MiTek Industries, Inc. Mon Mar 24 11:26:02 2025 Page 2 ID:Bxl2MwYau_NHkbraGCmHloyOvst-Oe1qoBqUWN88blPheXthqptndHD5CE9HBz2BlxzXkZZ

NOTES-

- 12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 16=528, 9=479.
- 13) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 14) 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.
- 15) Use Simpson Strong-Tie HUS26 (14-16d Girder, 4-16d 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.
- 16) 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=-1258(F) 17=-1170(F) 18=-1170(F) 19=-1170(F) 20=-1258(F) 21=-1258(F) 22=-1258(F) 23=-1258(F) 24=-1258(F) 25=-1258(F) 28=-1170(F)



818 Soundside Road Edenton, NC 27932

Job Truss Truss Type Qty Ply FFF-LOT #8 Roof 172240649 T02SGE COMMON STRUCTURAL GA 25-0541-A Job Reference (optional) Riverside Roof Truss, LLC, Danville, Va - 24541, 8.730 s Feb 19 2025 MiTek Industries, Inc. Mon Mar 24 11:26:02 2025 Page 1 ID:Bxl2MwYau_NHkbraGCmHloyOvst-Oe1qoBqUWN88blPheXthqptuUHALCL7HBz2BlxzXkZZ 12-7-12 18-9-14 25-3-8 6-5-10 6-5-10 6-2-2 Scale = 1:56.7 4x5 || 31 30 7.00 12 32 29 4x4 / 4x4 < 3x4 II 3x5 || 6 1-1-13 33 9 3x4 = 3x4 =3x6 = 18 16 15 14 13 12 3x4 =3x4 =3x5 II 3x4 II 14-0-0 16-9-3 25-3-8 8-6-5 5-5-11 8-6-5 Plate Offsets (X,Y)-- [4:0-2-0,0-0-4], [9:0-1-6,0-1-8], [14:0-1-10,0-1-8]

| LOADING (psf) TCLL (roof) 20.0 Snow (Pf/Pg) 11.6/15.0 TCDL 10.0 | SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES | CSI. TC 0.51 BC 0.60 WB 0.48 | DEFL. in (loc) l/defl L/d Vert(LL) -0.13 8-9 >999 240 Vert(CT) -0.26 8-9 >528 180 Horz(CT) 0.01 8 n/a n/a | PLATES GRIP MT20 244/190 |
|---|--|---------------------------------------|---|-----------------------------|
| BCLL 0.0 * BCDL 10.0 | Code IRC2018/TPI2014 | Matrix-MS | | Weight: 209 lb FT = 20% |

LUMBER-TOP CHORD 2x4 SP No 2

BOT CHORD 2x4 SP No 2

2x4 SP No.3 WERS **OTHERS** 2x4 SP No.3 **BRACING-**

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

except end verticals.

BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing. **WEBS** 1 Row at midpt

REACTIONS. All bearings 14-0-0 except (jt=length) 8=0-3-8, 10=0-3-8.

(lb) -Max Horz 18=-188(LC 14)

Max Uplift All uplift 100 lb or less at joint(s) 18, 8, 10 except 14=-123(LC 16)

All reactions 250 lb or less at joint(s) 11, 13, 15, 16, 17, 10 except 18=322(LC 34), 8=765(LC 29), Max Grav 14=933(LC 28)

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

4-5=-666/168, 5-6=-404/123, 2-18=-305/148, 6-8=-392/131 TOP CHORD BOT CHORD 13-14=0/255, 11-13=0/255, 10-11=0/255, 9-10=0/255, 8-9=-21/577 WEBS 4-9=-51/616, 5-9=-316/165, 4-14=-633/24, 3-14=-375/174, 5-8=-420/12

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) 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 studs spaced at 2-0-0 oc.
- 9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 10) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 18, 8, 10 except (it=lb) 14=123.
- 12) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.





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Job Truss Truss Type Qty Ply FFF-LOT #8 Roof 172240650 T03 COMMON 6 25-0541-A Job Reference (optional) Riverside Roof Truss, LLC, Danville, Va - 24541, 8.730 s Feb 19 2025 MiTek Industries, Inc. Mon Mar 24 11:26:03 2025 Page 1 ID:Bxl2MwYau_NHkbraGCmHloyOvst-sraC0Xr6HhG?DvztCEOwM0P_vgS1xksQQdolrOzXkZY 12-10-8 19-2-0 31-9-0 38-4-0

6-3-8

6-3-8

Structural wood sheathing directly applied or 3-1-4 oc purlins,

7-15, 5-15, 3-18, 9-12

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

except end verticals.

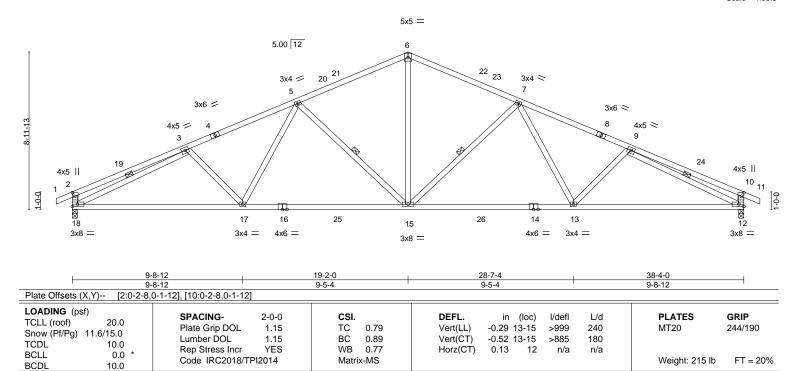
1 Row at midpt

6-3-8

6-3-8

Scale = 1:65.8

6-7-0



BRACING-

TOP CHORD

BOT CHORD

WEBS

LUMBER-

TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No 1

WFBS 2x4 SP No.3

REACTIONS. 18=0-3-8, 12=0-3-8 (size) Max Horz 18=159(LC 15)

Max Uplift 18=-126(LC 16), 12=-126(LC 16) Max Grav 18=1739(LC 28), 12=1739(LC 29)

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

TOP CHORD 2-3=-616/102, 3-5=-2860/257, 5-6=-2123/272, 6-7=-2123/272, 7-9=-2860/257,

9-10=-616/102, 2-18=-455/144, 10-12=-454/145

BOT CHORD 17-18=-189/2716, 15-17=-129/2441, 13-15=-114/2383, 12-13=-179/2622 **WEBS** 6-15=-66/1294, 7-15=-723/136, 7-13=0/483, 5-15=-723/136, 5-17=0/483,

3-18=-2425/184, 9-12=-2425/183

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=5ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) -0-11-0 to 2-11-0, Interior(1) 2-11-0 to 19-2-0, Exterior(2R) 19-2-0 to 23-0-0, Interior(1) 23-0-0 to 39-3-0 zone, cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=15.0 psf; Pf=11.6 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 4) Unbalanced snow loads have been considered for this design.
- 5) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 11.6 psf on overhangs non-concurrent with other live loads.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 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) except (jt=lb) 18=126, 12=126,
- 9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



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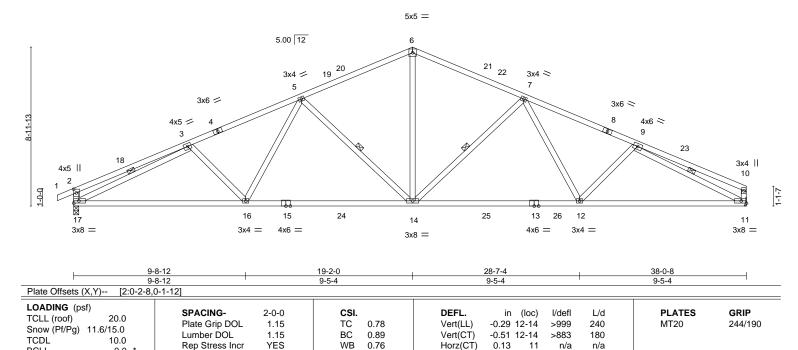
Job Truss Truss Type Qty Ply FFF-LOT #8 Roof 172240651 T03A COMMON 4 25-0541-A Job Reference (optional) Riverside Roof Truss, LLC, Danville, Va - 24541, 8.730 s Feb 19 2025 MiTek Industries, Inc. Mon Mar 24 11:26:04 2025 Page 1 ID:Bxl2MwYau_NHkbraGCmHloyOvst-K18aDtsk2?Osq3Y3myv9vEy9h4oKgB8aeHXINqzXkZX

19-2-0

6-3-8

31-9-0 38-0-8 6-3-8 6-3-8

Scale = 1:65.1



BRACING-

TOP CHORD

BOT CHORD

WEBS

Matrix-MS

LUMBER-TOP CHORD

BCLL

BCDL

2x4 SP No.2 2x4 SP No 1

0.0

10.0

BOT CHORD WFBS 2x4 SP No 3

REACTIONS. (size) 17=0-3-8, 11=Mechanical

Max Horz 17=161(LC 15)

Max Uplift 17=-125(LC 16), 11=-91(LC 16) Max Grav 17=1728(LC 28), 11=1673(LC 29)

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

2-3=-614/102, 3-5=-2835/255, 5-6=-2097/269, 6-7=-2097/271, 7-9=-2787/259, TOP CHORD

Code IRC2018/TPI2014

12-10-8

6-3-8

9-10=-408/64, 2-17=-454/144, 10-11=-295/75

BOT CHORD 16-17=-218/2690. 14-16=-159/2413. 12-14=-143/2334. 11-12=-210/2518 **WEBS** 5-16=0/484, 5-14=-723/136, 6-14=-66/1273, 7-14=-688/134, 7-12=0/441,

3-17=-2403/182, 9-11=-2536/222

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=5ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) -0-11-0 to 2-10-10, Interior(1) 2-10-10 to 19-2-0, Exterior(2R) 19-2-0 to 22-11-10, Interior(1) 22-11-10 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) 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) Refer to girder(s) for truss to truss connections.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 11 except (jt=lb) 17=125
- 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



Weight: 212 lb

Structural wood sheathing directly applied or 3-1-9 oc purlins,

5-14, 7-14, 3-17, 9-11

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

except end verticals.

1 Row at midpt

FT = 20%

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)



172240652 T03AGE COMMON SUPPORTED GAB 25-0541-A Job Reference (optional) Riverside Roof Truss, LLC, Danville, Va - 24541, 8.730 s Feb 19 2025 MiTek Industries, Inc. Mon Mar 24 11:26:05 2025 Page 1 ID:Bxl2MwYau_NHkbraGCmHloyOvst-oDiyRDtNpIWiSD7GJfRORRVVJUKPPngjtxHsvGzXkZW 19-2-0 19-2-0 37-11-0

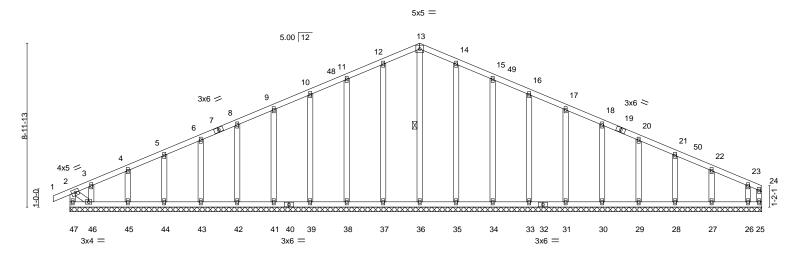
Qty

Ply

FFF-LOT #8 Roof

18-9-0

Scale = 1:63.1



| · | | 37 | -11-0 | <u> </u> |
|--|--|---------------------------------------|---|---------------------|
| CADING (psf) TCLL (roof) 20.0 Snow (Pf/Pg) 11.6/15.0 TCDL 10.0 | SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES | CSI. TC 0.09 BC 0.06 WB 0.17 | DEFL. in (loc) l/defl L/d PLATES Vert(LL) -0.00 1 n/r 120 MT20 Vert(CT) -0.00 1 n/r 120 MT20 Horz(CT) 0.00 25 n/a n/a | GRIP 244/190 |
| BCLL 0.0 * BCDL 10.0 | Code IRC2018/TPI2014 | Matrix-S | Weight: 249 | lb FT = 20% |

37-11-0

LUMBER-**BRACING-**

TOP CHORD 2x4 SP No.2 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, BOT CHORD 2x4 SP No.2 except end verticals 2x4 SP No.3 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: WFBS OTHERS 2x4 SP No.3 6-0-0 oc bracing: 46-47.

WFBS 1 Row at midpt REACTIONS. All bearings 37-11-0.

Truss Type

(lb) -Max Horz 47=162(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. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 12-13=-113/279. 13-14=-113/279

NOTES-

Job

Truss

- 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 37-9-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=15.0 psf; Pf=11.6 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 5) Unbalanced snow loads have been considered for this design.
- 6) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 11.6 psf on overhangs non-concurrent with other live loads.
- 7) All plates are 2x4 MT20 unless otherwise indicated.
- 8) Gable requires continuous bottom chord bearing.
- 9) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 10) Gable studs spaced at 2-0-0 oc.
- 11) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 13) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 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.



13-36

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

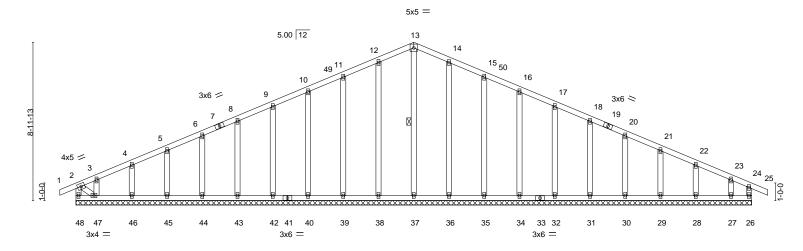
building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, 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 FFF-LOT #8 Roof 172240653 T03GE COMMON SUPPORTED GAB 25-0541-A Job Reference (optional) Riverside Roof Truss, LLC, Danville, Va - 24541, 8.730 s Feb 19 2025 MiTek Industries, Inc. Mon Mar 24 11:26:06 2025 Page 1 ID:Bxl2MwYau_NHkbraGCmHloyOvst-GQGLeZt?ZceZ4NiStNyd_f1fLuhj8Ewt6b0PRizXkZV 38-4-0 19-2-0

Scale = 1:65.4

19-2-0



| | | | . • | |
|---|--|------------------------------|--|--|
| LOADING (psf) TCLL (roof) 20.0 Snow (Pf/Pg) 11.6/15.0 TCDL 10.0 | SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES | CSI. TC 0.13 BC 0.06 WB 0.17 | DEFL. in (loc) l/defl L/d Vert(LL) -0.00 25 n/r 120 Vert(CT) -0.00 25 n/r 120 Horz(CT) 0.00 26 n/a n/a | PLATES GRIP MT20 244/190 |
| BCLL 0.0 * BCDL 10.0 | Code IRC2018/TPI2014 | Matrix-S | () | Weight: 252 lb FT = 20% |

38-4-0

LUMBER- BRACING-

19-2-0

TOP CHORD 2x4 SP No.2 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.

WEBS 2x4 SP No.3 BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
OTHERS 2x4 SP No.3 WEBS 1 Row at midpt 13-37

REACTIONS. All bearings 38-4-0.

(lb) - Max Horz 48=-159(LC 14)

Max Uplift All uplift 100 lb or less at joint(s) 48, 38, 39, 40, 42, 43, 44, 45, 46, 47, 36, 35, 34, 32, 31, 30, 29, 28, 27

Max Grav All reactions 250 lb or less at joint(s) 48, 26, 37, 38, 39, 40, 42, 43, 44, 45, 46, 47, 36, 35, 34, 32, 31, 30, 29, 28, 27

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

TOP CHORD 12-13=-106/276, 13-14=-106/276

NOTES-

- 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 39-3-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=15.0 psf; Pf=11.6 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 5) Unbalanced snow loads have been considered for this design.
- 6) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 11.6 psf on overhangs non-concurrent with other live loads.
- 7) All plates are 2x4 MT20 unless otherwise indicated.
- 8) Gable requires continuous bottom chord bearing.
- 9) 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) 48, 38, 39, 40, 42, 43, 44, 45, 46, 47, 36, 35, 34, 32, 31, 30, 29, 28, 27.
- 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.



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 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 properly damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPH 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 FFF-LOT #8 Roof 172240654 T04 COMMON 9 25-0541-A Job Reference (optional) Riverside Roof Truss, LLC, Danville, Va - 24541, 8.730 s Feb 19 2025 MiTek Industries, Inc. Mon Mar 24 11:26:07 2025 Page 1 ID:Bxl2MwYau_NHkbraGCmHloyOvst-lcqjsvudKwmQhXHeR4TsXsahUloVtZk0LFmy_9zXkZU

24-2-0

5-0-0

31-3-0

19-2-0

5-0-0

Scale = 1:65.5

38-0-8

6-9-8

5x5 = 5.00 12 6 2x4 II 2x4 | 26 25 5 24 7 27 3x6 = 3x6 > 3x4 🚄 3x4 > 8 3 28 4x6 > 4x8 = 10 2 1-1-7 1-9-8 18 ¹⁶14 31 13 20 29 32 30 33 21 19 15 12 2x4 || 3x4 || 4x6 =4x6 =3x5 =5x5 = 4x8 = 4x8 = 5x6 = 2x4 =2x4 || 2x4 =7-1-0 14-2-0 19-2-0 24-2-0 31-3-0 38-0-8 5-0-0 7-1-0 7-1-0 6-9-8 7-1-0 Plate Offsets (X,Y)--[11:Edge,0-1-8] LOADING (psf) SPACING-2-0-0 CSI. DEFL. in (loc) I/defl L/d **PLATES** GRIP TCLL (roof) 20.0 Plate Grip DOL 1.15 TC 0.75 Vert(LL) -0.53 17 >859 240 MT20 244/190

LUMBER-

Snow (Pf/Pg)

TCDL

BCLL

BCDL

TOP CHORD 2x4 SP No.2

BOT CHORD 2x4 SP No.2 *Except*

11.6/15.0

10.0

10.0

0.0

13-20: 2x4 SP DSS

WEBS 2x4 SP No.3 *Except*

2-22: 2x6 SP No.2, 2-21,10-12: 2x4 SP No.2

REACTIONS. (size) 22=0-3-8, 11=Mechanical

Max Horz 22=161(LC 15)

Max Uplift 22=-74(LC 16), 11=-37(LC 16) Max Grav 22=1904(LC 28), 11=1845(LC 29)

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

Lumber DOL

Rep Stress Incr

Code IRC2018/TPI2014

TOP CHORD 2-3=-3269/132, 3-5=-2988/130, 5-6=-2979/212, 6-7=-2962/209, 7-9=-2974/134,

9-10=-3198/139, 2-22=-1773/169, 10-11=-1719/118

BOT CHORD 21-22=-105/560, 19-21=-95/3046, 15-19=0/2107, 14-15=0/2107, 12-14=-92/2903,

11-12=-38/273

WEBS 3-19=-385/104, 5-19=-395/164, 18-19=-96/1143, 6-18=-48/1248, 6-16=-47/1217,

14-16=-94/1112, 7-14=-388/162, 9-14=-355/108, 2-21=-8/2530, 10-12=-55/2652

- 1) Unbalanced roof live loads have been considered for this design.
- $2) \ \ Wind: ASCE \ 7-16; \ Vult=130mph \ (3-second \ gust) \ \ Vasd=103mph; \ TCDL=6.0psf; \ BCDL=6.0psf; \ h=25ft; \ B=45ft; \ L=38ft; \ eave=5ft; \ Cat.$ II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) -0-11-0 to 2-10-10, Interior(1) 2-10-10 to 19-2-0, Exterior(2R) 19-2-0 to 22-11-10, Interior(1) 22-11-10 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) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=15.0 psf; Pf=11.6 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10

1.15

YES

BC

WB

Matrix-MS

0.92

0.65

Vert(CT)

Horz(CT)

BRACING-

TOP CHORD

BOT CHORD

-0.92

0.09

17

11

except end verticals.

2-2-0 oc bracing: 12-14.

6-0-0 oc bracing: 16-18

>492

n/a

180

n/a

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

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

Weight: 235 lb

FT = 20%

- 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) Refer to girder(s) for truss to truss connections.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 22, 11.
- 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

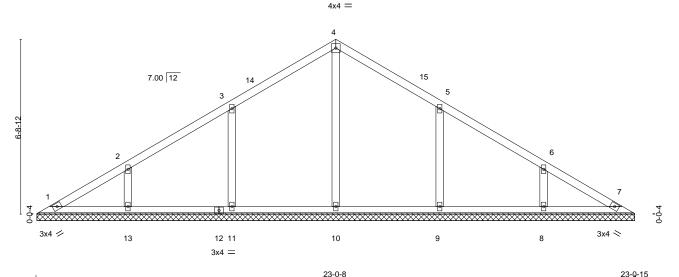
March 25,2025



Job Truss Truss Type Qty Ply FFF-LOT #8 Roof 172240655 V01 25-0541-A Valley Job Reference (optional) Riverside Roof Truss, LLC, Danville, Va - 24541, 8.730 s Feb 19 2025 MiTek Industries, Inc. Mon Mar 24 11:26:07 2025 Page 1

ID:Bxl2MwYau_NHkbraGCmHloyOvst-lcqjsvudKwmQhXHeR4TsXsap2l_9thY0LFmy_9zXkZU 23-0-15 11-6-7

Scale = 1:44.3



23-0-15 0-0-7 23-0-8 LOADING (psf) **PLATES** SPACING-2-0-0 CSI. DEFL in I/defl I/d GRIP (loc) TCLL (roof) 20.0 Plate Grip DOL 1.15 TC 0.20 Vert(LL) n/a n/a 999 MT20 244/190 Snow (Pf/Pg) 11.6/15.0 Lumber DOL 1.15 вс 0.17 Vert(CT) n/a n/a 999 TCDL 10.0 WB Rep Stress Incr YES 0.15 Horz(CT) 0.00 n/a n/a **BCLL** 0.0 Code IRC2018/TPI2014 Matrix-S Weight: 97 lb FT = 20% BCDL 10.0

LUMBER-

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

BRACING-

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

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

REACTIONS. All bearings 23-0-1.

Max Horz 1=-128(LC 14) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 11, 13, 9, 8

Max Grav All reactions 250 lb or less at joint(s) 1, 7 except 10=379(LC 27), 11=432(LC 27), 13=361(LC 27), 9=432(LC 28), 8=361(LC 28)

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

NOTES-

- 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 3-6-7, Interior(1) 3-6-7 to 11-6-7, Exterior(2R) 11-6-7 to 14-6-7, Interior(1) 14-6-7 to 22-6-7 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=15.0 psf; Pf=11.6 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 4) Unbalanced snow loads have been considered for this design.
- 5) All plates are 2x4 MT20 unless otherwise indicated.
- 6) Gable requires continuous bottom chord bearing.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 11, 13, 9, 8.
- 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.





Job Truss Truss Type Qty Ply FFF-LOT #8 Roof 172240656 V02 Valley 25-0541-A Job Reference (optional) Riverside Roof Truss, LLC, Danville, Va - 24541, 8.730 s Feb 19 2025 MiTek Industries, Inc. Mon Mar 24 11:26:08 2025 Page 1 ID:Bxl2MwYau_NHkbraGCmHloyOvst-DoO53FvF5DuHJgsr?o_5347_lhKXc9K9ZvVWWbzXkZT 10-1-5 10-1-5 20-2-10 Scale = 1:38.8 4x4 = 7.00 12 15 3 5-10-12 3x4 <> 3x4 // 12 16 11 10 17 9 3x4 = 20-2-10 LOADING (psf) SPACING-2-0-0 CSI. DEFL. in I/defl I/d **PLATES** GRIP (loc) TCLL (roof) 20.0 Plate Grip DOL 1.15 TC 0.20 Vert(LL) n/a n/a 999 MT20 244/190 Snow (Pf/Pg) 11.6/15.0 Lumber DOL 1.15 вс 0.17 Vert(CT) n/a n/a 999 TCDL

LUMBER-

BCLL

BCDL

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

BRACING-

TOP CHORD BOT CHORD

Horz(CT)

0.00

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

n/a

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

n/a

REACTIONS. All bearings 20-1-13.

10.0

10.0

0.0

Max Horz 1=-111(LC 14) (lb) -

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

Rep Stress Incr

Code IRC2018/TPI2014

All reactions 250 lb or less at joint(s) 1, 7 except 10=369(LC 27), 12=428(LC 27), 13=307(LC 27), 9=427(LC 28), 8=307(LC 28)

WB

Matrix-S

0.11

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

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-6-8 to 3-6-8, Interior(1) 3-6-8 to 10-1-5, Exterior(2R) 10-1-5 to 13-1-5, Interior(1) 13-1-5 to 19-8-2 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

YES

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



Weight: 82 lb

FT = 20%

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

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



172240657 V03 Valley 25-0541-A Job Reference (optional) Riverside Roof Truss, LLC, Danville, Va - 24541, 8.730 s Feb 19 2025 MiTek Industries, Inc. Mon Mar 24 11:26:08 2025 Page 1 ID:Bxl2MwYau_NHkbraGCmHloyOvst-DoO53FvF5DuHJgsr?o_5347_4hKvc9q9ZvVWWbzXkZT 8-8-3 8-8-3 17-4-6 Scale = 1:35.0 4x4 = 3 7.00 12 12 2x4 || 2x4 || 13 10 3x4 / 3x4 ≥ 6 8 2x4 || 3x4 = 2x4 || 2x4 || 17-3-15 LOADING (psf) PLATES SPACING-2-0-0 CSI. DEFL. in (loc) I/defl I/d GRIP TCLL (roof) 20.0 Plate Grip DOL 1.15 TC 0.25 Vert(LL) n/a n/a 999 MT20 244/190 Snow (Pf/Pg) 11.6/15.0 Lumber DOL 1.15 вс 0.14 Vert(CT) n/a n/a 999 TCDL 10.0 WB 0.08 Rep Stress Incr YES Horz(CT) 0.00 n/a n/a **BCLL** 0.0 Code IRC2018/TPI2014 Matrix-S Weight: 67 lb FT = 20% BCDL 10.0 LUMBER-BRACING-

Qty

Ply

FFF-LOT #8 Roof

Job

Truss

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

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

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

REACTIONS. All bearings 17-3-8.

Max Horz 1=-95(LC 14) (lb) -

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

Max Grav All reactions 250 lb or less at joint(s) 1, 5, 7 except 9=390(LC 33), 6=390(LC 34)

Truss Type

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

WEBS 2-9=-290/134, 4-6=-290/134

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 8-8-3, Exterior(2R) 8-8-3 to 11-8-3, Interior(1) 11-8-3 to 16-9-14 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=15.0 psf; Pf=11.6 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 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) 9, 6.
- 9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



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

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



| 25-0541-A V04 Valley 1 1 Job Reference (optional) | |
|---|------------------------|
| Riverside Roof Truss, LLC, Danville, Va - 24541, 8.730 s Feb 19 2025 MiTek Industries, Inc. Mon Mar 2 | 4 11:26:09 2025 Page 1 |
| ID:Bxl2MwYau_NHkbraGCmHloyOvst-h_yTGbwtsX18xqR1YVVKcHf9` | /5hXLdKJoZF321zXkZS |
| 7-3-1 14-6-1 7-3-1 7-3-1 | |
| 1-5-1 | |
| | Scale = 1:27.8 |
| 4x4 = | |
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| 0- <u>0-7 14-6-1</u> 0-0-7 14-5-10 | |
| | |
| LOADING (psf) TCLL (rest) 20.0 SPACING- 2-0-0 CSI. DEFL. in (loc) I/defl L/d PL | ATES GRIP |
| TCLL (1001) 20.0 Plate Grip DOL 1.15 TC 0.20 Vert(LL) n/a - n/a 999 MT | 244/190 |
| TCDI 10.0 Lumber DOL 1.15 BC 0.12 Vert(C1) n/a - n/a 999 | |
| Rep Stress Incr YES WB 0.06 Horz(C1) 0.00 5 n/a n/a | |
| BCDL 0.0 Code IRC2018/TPI2014 Matrix-S We | eight: 54 lb FT = 20% |
| | |

Qty

FFF-LOT #8 Roof

172240658

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

TOP CHORD

TOP CHORD **BOT CHORD**

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

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

REACTIONS. All bearings 14-5-3.

2x4 SP No.2

Max Horz 1=-78(LC 14) (lb) -

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

Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 7=272(LC 2), 8=320(LC 33), 6=320(LC 34)

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

NOTES-

Job

Truss

Truss Type

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; B=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-6-8 to 3-3-1, Interior(1) 3-3-1 to 7-3-1, Exterior(2R) 7-3-1 to 10-3-1, Interior(1) 10-3-1 to 13-11-9 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=15.0 psf; Pf=11.6 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 4) Unbalanced snow loads have been considered for this design.
- 5) Gable requires continuous bottom chord bearing.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

 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.



March 25,2025

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

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



172240659 25-0541-A V05 Valley Job Reference (optional) Riverside Roof Truss, LLC, Danville, Va - 24541, 8.730 s Feb 19 2025 MiTek Industries, Inc. Mon Mar 24 11:26:09 2025 Page 1 ID:Bxl2MwYau_NHkbraGCmHloyOvst-h_yTGbwtsX18xqR1YVVKcHf6n5e?LcAJoZF321zXkZS 5-9-14 11-7-13 5-9-14 5-9-14 Scale = 1:22.8 4x5 = 2 7.00 12 3x4 🗸 3x4 ≥ 2x4 || 11-7-13 11-7-6 LOADING (psf) **PLATES** GRIP SPACING-2-0-0 CSI. DEFL. in (loc) I/defl I/d TCLL (roof) 20.0 Plate Grip DOL 1.15 TC 0.44 Vert(LL) n/a n/a 999 MT20 244/190 Snow (Pf/Pg) 11.6/15.0 Lumber DOL 1.15 вс 0.28 Vert(CT) n/a n/a 999 TCDL 10.0 WB 0.07 Rep Stress Incr YES Horz(CT) 0.00 n/a n/a **BCLL** 0.0 Code IRC2018/TPI2014 Matrix-S Weight: 40 lb FT = 20% BCDL 10.0 LUMBER-BRACING-TOP CHORD TOP CHORD 2x4 SP No.2 Structural wood sheathing directly applied or 6-0-0 oc purlins. BOT CHORD 2x4 SP No.2 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. 2x4 SP No.3 **OTHERS**

Qty

Ply

FFF-LOT #8 Roof

REACTIONS. (size) 1=11-6-15, 3=11-6-15, 4=11-6-15

Truss

Truss Type

Max Horz 1=-62(LC 14)

Max Uplift 1=-25(LC 16), 3=-25(LC 16)

Max Grav 1=200(LC 2), 3=200(LC 2), 4=445(LC 2)

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

WEBS 2-4=-290/106

NOTES-

Job

- 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 5-9-14, Exterior(2R) 5-9-14 to 8-9-14, Interior(1) 8-9-14 to 11-1-5 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.

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Job Truss Truss Type Qty Ply FFF-LOT #8 Roof 172240660 25-0541-A V06 Valley Job Reference (optional) Riverside Roof Truss, LLC, Danville, Va - 24541, 8.730 s Feb 19 2025 MiTek Industries, Inc. Mon Mar 24 11:26:10 2025 Page 1 ID:Bxl2MwYau_NHkbraGCmHloyOvst-9BWrUwwVdr9?Y_0D6C0Z8VCJcV0F44vS1D_daUzXkZR 4-4-12 8-9-8 4-4-12 Scale = 1:17.5 4x4 = 2 7.00 12 7-0-4 0-0-4 2x4 || 2x4 / 2x4 > 8-9-8 8-9-1 LOADING (psf) **PLATES** GRIP SPACING-2-0-0 CSI. DEFL. in (loc) I/defl I/d TCLL (roof) 20.0 Plate Grip DOL 1.15 TC 0.31 Vert(LL) n/a n/a 999 MT20 244/190 Snow (Pf/Pg) 11.6/15.0 Lumber DOL 1.15 вс 0.15 Vert(CT) n/a n/a 999 TCDL 10.0 WB 0.04 Rep Stress Incr YES Horz(CT) 0.00 n/a n/a **BCLL** 0.0 Code IRC2018/TPI2014 Matrix-P Weight: 29 lb FT = 20% BCDL 10.0 LUMBER-BRACING-TOP CHORD TOP CHORD 2x4 SP No.2 Structural wood sheathing directly applied or 6-0-0 oc purlins.

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

BOT CHORD

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

REACTIONS. (size) 1=8-8-10, 3=8-8-10, 4=8-8-10

Max Horz 1=45(LC 15)

Max Uplift 1=-26(LC 16), 3=-26(LC 16)

Max Grav 1=161(LC 2), 3=161(LC 2), 4=294(LC 2)

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

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- $2) \ \ Wind: ASCE \ 7-16; \ Vult=130mph \ (3-second \ gust) \ \ Vasd=103mph; \ TCDL=6.0psf; \ BCDL=6.0psf; \ h=25ft; \ B=45ft; \ L=24ft; \ eave=4ft; \ Cat.$ II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-6-8 to 3-6-8, Interior(1) 3-6-8 to 4-4-12, Exterior(2R) 4-4-12 to 7-4-12, Interior(1) 7-4-12 to 8-3-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=15.0 psf; Pf=11.6 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 4) Unbalanced snow loads have been considered for this design.
- 5) 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.

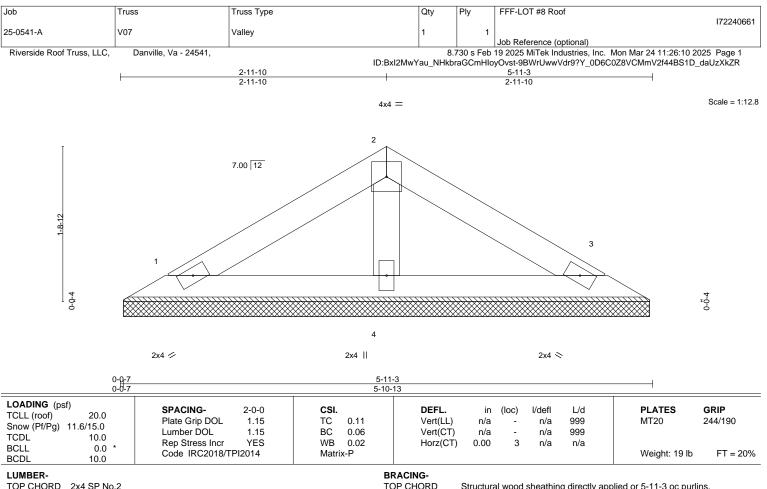


WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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

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

BOT CHORD

Structural wood sheathing directly applied or 5-11-3 oc purlins.

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

REACTIONS. (size) 1=5-10-6, 3=5-10-6, 4=5-10-6

Max Horz 1=-28(LC 14)

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

Max Grav 1=101(LC 2), 3=101(LC 2), 4=185(LC 2)

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

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- $2) \ \ Wind: ASCE \ 7-16; \ Vult=130mph \ (3-second \ gust) \ \ Vasd=103mph; \ TCDL=6.0psf; \ BCDL=6.0psf; \ h=25ft; \ B=45ft; \ L=24ft; \ eave=4ft; \ Cat.$ II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=15.0 psf; Pf=11.6 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 4) Unbalanced snow loads have been considered for this design.
- 5) Gable requires continuous bottom chord bearing.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 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.

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Job Truss Truss Type Qty Ply FFF-LOT #8 Roof 172240662 V08 Valley 25-0541-A Job Reference (optional) Riverside Roof Truss, LLC, Danville, Va - 24541, 8.730 s Feb 19 2025 MiTek Industries, Inc. Mon Mar 24 11:26:11 2025 Page 1 ID:Bxl2MwYau_NHkbraGCmHloyOvst-dN3EhGx7O8HsA8bQgwXohilYtvO5oXpcFtkA7wzXkZQ 1-6-7 1-6-7 1-6-7 Scale = 1:7.2 3x4 =2 7.00 12 3 0-D-4 0-01 2x4 / 2x4 💸 3-0-15 3-0-8 Plate Offsets (X,Y)--[2:0-2-0,Edge] LOADING (psf) SPACING-2-0-0 CSI. DEFL. (loc) I/defl L/d **PLATES GRIP** TCLL (roof) 20.0 Plate Grip DOL 1.15 TC 0.02 Vert(LL) n/a n/a 999 MT20 244/190 Snow (Pf/Pg) 11.6/15.0 Lumber DOL вс 1.15 0.05 Vert(CT) n/a n/a 999 TCDL 10.0

LUMBER-

BCLL

BCDL

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

BRACING-

WB

Matrix-P

0.00

TOP CHORD **BOT CHORD**

Horz(CT)

0.00

Structural wood sheathing directly applied or 3-0-15 oc purlins.

n/a

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

n/a

REACTIONS. (size) 1=3-0-1, 3=3-0-1

0.0

10.0

Max Horz 1=12(LC 15)

Max Uplift 1=-5(LC 16), 3=-5(LC 16) Max Grav 1=80(LC 2), 3=80(LC 2)

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

Rep Stress Incr

Code IRC2018/TPI2014

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

YES

- 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.



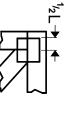
Weight: 8 lb

FT = 20%

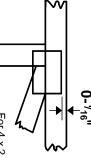


Symbols

PLATE LOCATION AND ORIENTATION



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



edge of truss. plates 0- 1/16" from outside For 4 x 2 orientation, locate

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

* Plate location details available in MiTek software or upon request

PLATE SIZE

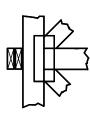
to slots. Second dimension is the length parallel to slots. width measured perpendicular The first dimension is the plate

LATERAL BRACING LOCATION



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

BEARING



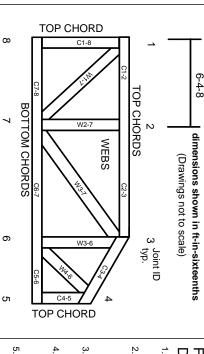
Min size shown is for crushing only number/letter where bearings occur reaction section indicates joint (supports) occur. Icons vary but Indicates location where bearings

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

DSB-22:

Plate Connected Wood Trusses Installing, Restraining & Bracing of Metal Guide to Good Practice for Handling, Building Component Safety Information, Design Standard for Bracing. Plate Connected Wood Truss Construction.

Numbering System



JOINTS ARE GENERALLY NUMBERED/LETTERED CLOCKWISE AROUND THE TRUSS STARTING AT THE JOINT FARTHEST TO THE LEFT.

CHORDS AND WEBS ARE IDENTIFIED BY END JOINT NUMBERS/LETTERS.

Product Code Approvals

ICC-ES Reports:

ESR-1988, ESR-2362, ESR-2685, ESR-3282 ESR-4722, ESL-1388

Design General Notes

truss unless otherwise shown Trusses are designed for wind loads in the plane of the

established by others section 6.3 These truss designs rely on lumber values Lumber design values are in accordance with ANSI/TPI 1

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

General Safety Notes

Damage or Personal Injury Failure to Follow Could Cause Property

- Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI
- Ņ Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves may require bracing, or alternative Tor I bracing should be considered.
- Never exceed the design loading shown and never stack materials on inadequately braced trusses.
- Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
- Cut members to bear tightly against each other

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- joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TPI 1. Place plates on each face of truss at each
- Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI 1.
- Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.

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- 9 Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
- Camber is a non-structural consideration and is the camber for dead load deflection responsibility of truss fabricator. General practice is to
- 11. Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
- Lumber used shall be of the species and size, and in all respects, equal to or better than that
- Top chords must be sheathed or purlins provided at spacing indicated on design.
- Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
- 15. Connections not shown are the responsibility of others
- Do not cut or alter truss member or plate without prior approval of an engineer.
- Install and load vertically unless indicated otherwise.
- Use of green or treated lumber may pose unacceptable project engineer before use. environmental, health or performance risks. Consult with
- 19. Review all portions of this design (front, back, words is not sufficient. and pictures) before use. Reviewing pictures alone
- Design assumes manufacture in accordance with ANSI/TPI 1 Quality Criteria.
- 21. The design does not take into account any dynamic or other loads other than those expressly stated.