# Mark Morris, P.E.

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The truss drawing(s) listed below have been prepared by **Atlantic Building Components** under my direct supervision based on the parameters provided by the truss designers.

AST #: 56214 JOB: 25-0637-R01

JOB NAME: LOT 149 PROVIDENCE CREEK

Wind Code: ASCE7-16 Wind Speed: Vult= 120mph Exposure Category: B

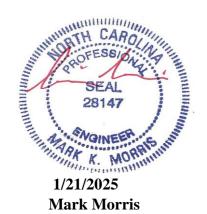
Mean Roof Height (feet): 35

These truss designs comply with IRC 2018 as well as IRC 2021.

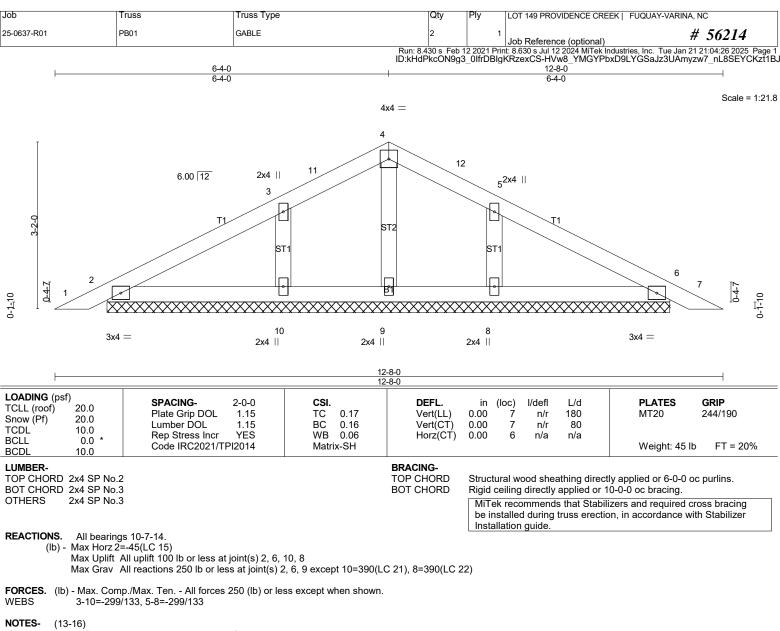
30 Truss Design(s)

# Trusses:

PB01, PB02, R01, R02, R03, R04, R05, R06, R07, R08, R09, R10, R11, R12, SP01, SP02, SPJ01, SPJ02, SPJ03, VS01, VS02, VS03, VT01, VT02, VT03, VT04, VT05, VT06, VT07, VT08



#### Warning !—Verify design parameters and read notes before use.



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

- 2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=5.0psf; BCDL=5.0psf; h=35ft; Cat. II; Exp B; Enclosed; Gable Roof; Common Truss; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-3-15 to 5-1-8, Exterior(2R) 5-1-8 to 7-6-8, Exterior(2E) 7-6-8 to 12-4-1 zone; 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); Pf=20.0 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 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
- 7) Gable requires continuous bottom chord bearing.
- 8) Gable studs spaced at 2-0-0 oc.
- 9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 10) \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members. 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 6, 10, 8.
- 12) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

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Job	Truss	Truss Type	Qty	Ply	LOT 149 PROVIDENCE CREEK   FUQUAY-VARINA, NC
25-0637-R01	PB01	GABLE	2	1	Job Reference (optional) # 56214

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- 13) Graphical bracing representation does not depict the size, type or the orientation of the brace on the member. Symbol only indicates that the member must be braced.
- 14) Bearing symbols are only graphical representations of a possible bearing condition. Bearing symbols are not considered in the structural design of the truss to support the
- 15) Web bracing shown is for lateral support of individual web members only. Refer to BCSI Guide to Good Practice for Handling, Installing, Restraining & Bracing of Metal Plate Connected Wood Trusses for additional bracing guidelines, including diagonal bracing.

  16) SEE BCSI-B3 SUMMARY SHEET- PERMANENT RESTRAING/BRACING OF CHORDS & WEB MEMBERS FOR RECOMMENDED MINIMUM BRACING REQUIREMENTS
- OF TOP CHORD, BOTTOM CHORD, AND WEB PLANES. IN ADDITION TO THESE MINIMUM GUIDELINES, ALWAYS CONSULT THE PROJECT ARCHITECT OR ENGINEER FOR ADDITIONAL BRACING CONSIDERATIONS.

LOAD CASE(S) Standard



.lob Truss Truss Type LOT 149 PROVIDENCE CREEK | FUQUAY-VARINA, NC 25-0637-R01 PB02 Piggyback 24 # 56214 Job Reference (optional) Run: 8.430 s Feb 12 2021 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Tue Jan 21 21:04:26 2025 Page 1 ID:kHdPkcON9g3\_0lfrDBlgKRzexCS-HVw8\_YMGYPbxD9LYGSaJz3U4gyst7zdL8SEYCKzt1BJ 6-4-0 12-8-0 6-4-0 Scale = 1:21.8 4x6 = 3 6.00 12 0-1-10 6 3x4 = 3x4 = 2x4 || Plate Offsets (X,Y)-- [2:0-0-4,Edge], [4:0-0-4,Edge] LOADING (psf) SPACING-2-0-0 CSI DEFL. I/defl L/d **PLATES GRIP** (loc) TCLL (roof) 20.0 Plate Grip DOL 1.15 TC 0.56 Vert(LL) MT20 244/190 0.01 n/r 180 Snow (Pf) 20.0 Lumber DOL 1.15 BC 0.61 Vert(CT) 0.02 5 n/r 80 TCDL 10.0 Rep Stress Incr WB 0.07 Horz(CT) 0.00 n/a n/a BCLL 0.0 Code IRC2021/TPI2014 Matrix-SH Weight: 40 lb FT = 20%BCDL 10.0 LUMBER-BRACING-Structural wood sheathing directly applied or 6-0-0 oc purlins. TOP CHORD 2x4 SP No.2 TOP CHORD BOT CHORD 2x4 SP No 3 **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc bracing. 2x4 SP No.3 **OTHERS** MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide. REACTIONS. (lb/size) 2=236/10-7-14 (min. 0-1-8), 4=236/10-7-14 (min. 0-1-8), 6=463/10-7-14 (min. 0-1-8) Max Horz 2=-45(LC 15) Max Uplift2=-51(LC 14), 4=-60(LC 15), 6=-28(LC 14) Max Grav 2=324(LC 21), 4=324(LC 22), 6=480(LC 21) FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. **WEBS** 3-6=-305/144 NOTES-1) Unbalanced roof live loads have been considered for this design. 2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=5.0psf; BCDL=5.0psf; h=35ft; Cat. II; Exp B; Enclosed; Gable Roof; Common Truss; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-3-15 to 5-1-8, Exterior(2R) 5-1-8 to 7-6-8, Exterior(2E)

- 7-6-8 to 12-4-1 zone; 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); Pf=20.0 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 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
- 6) Gable requires continuous bottom chord bearing.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members.

- designer.

  11) Graphical bracing representation does not depict the size, type or the orientation of the brace on the member. Symbol only indicates that the member must be braced.

  12) Bearing symbols are only graphical representations of a possible bearing condition. Bearing symbols are not considered in structural design of the truss to support the loads indicated.

  13) Web bracing shown is for lateral support.

- 13) Web bracing shown is for lateral support of individual web members only. Never to Book Installing, Restraining & Bracing of Metal Plate Connected Wood Trusses for additional bracing guidelines, including diagonal pracing.

  14) SEE BCSI-B3 SUMMARY SHEET- PERMANENT RESTRAING/BRACING OF CHORDS & WEB MEMBERS FOR RECOMMENDED.

  14) SEE BCSI-B3 SUMMARY SHEET- PERMANENT RESTRAING/BRACING OF CHORDS, AND WEB PLANES. IN ADDITION TO THESE CONSIDERATIONS.

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Job	Truss	Truss Type	Qty	Ply	LOT 149 PROVIDENCE CREEK   FUQUAY-VARINA, NC
25-0637-R01	PB02	Piggyback	24	1	Job Reference (optional) # 56214

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LOAD CASE(S) Standard



Job Truss Truss Type LOT 149 PROVIDENCE CREEK | FUQUAY-VARINA, NC 25-0637-R01 R01 Piggyback Base Supported Gable # 56214 Job Reference (optional) .430 s Feb 12 2021 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Tue Jan 21 21:04:29 2025 Page 1 ID:kHdPkcON9g3\_0lfrDBlgKRzexCS-i4cHdaO8rKzW4d47xb70ai6js91ZKIFnqQTCpfzt1BG -0<sub>-</sub>10-8 21-6-0 34-2-0 56-7-4 21-6-0 12-8-0 22-5-4

Scale = 1:97.5

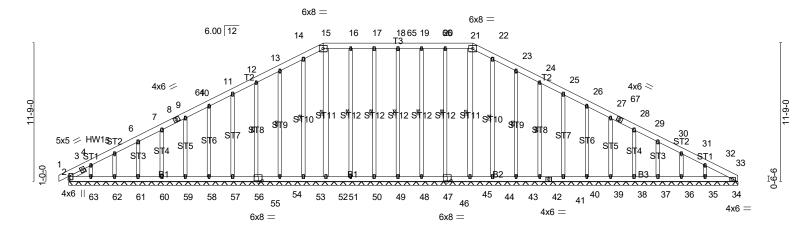


Plate Offsets (X,Y)-- [47:0-4-0,0-1-4], [55:0-4-0,0-1-4] LOADING (psf) SPACING-2-0-0 CSI DEFL. I/defl L/d **PLATES GRIP** (loc) 20.0 TCLL (roof) Plate Grip DOL 1.15 TC 0.05 MT20 244/190 Vert(LL) -0.00n/r 180 Snow (Pf) 20.0 Lumber DOL 1.15 BC 0.04 Vert(CT) -0.00n/r 80 TCDL 10.0 Rep Stress Incr WB 0.21 Horz(CT) 0.01 33 n/a n/a BCLL 0.0 Code IRC2021/TPI2014 Matrix-SH Weight: 578 lb FT = 20% BCDL 10.0

LUMBER-

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

2x4 SP No.3 \*Except\* **OTHERS** ST11: 2x6 SP No.2

Left 2x4 SP No.3 1-6-4 SLIDER

**BRACING-**

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

18-49, 17-50, 16-51, 15-52, 14-53, 13-54, 1 Row at midpt

12-56, 19-48, 20-47, 21-45, 22-44, 23-43, 24-42

REACTIONS. All bearings 56-7-4.

(lb) - Max Horz 2=-169(LC 15)

Max Uplift All uplift 100 lb or less at joint(s) 2, 49, 50, 51, 53, 54, 56, 57, 58, 59 60, 61, 62, 48, 47, 44, 43, 42, 40, 39, 38, 37, 36, 35, 34 except 63=-115(LC

Max Grav All reactions 250 lb or less at joint(s) 2, 60, 61, 62, 63, 37, 36, 35, 34, 33 except 49=291(LC 44), 50=293(LC 44), 51=311(LC 44), 52=282(LC 52), 53=269(LC 47), 54=299(LC 45), 56=285(LC 45), 57=293(LC 45), 58=292(LC 45), 59=286(LC 45), 48=293(LC 44), 47=304(LC 44), 45=270(LC 52), 44=267(LC 49), 43=299(LC 49), 42=292(LC 45), 40=292(LC 45), 39=292(LC 45), 38=286(LC 45)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-3=-253/84, 13-14=-119/283, 14-15=-131/314, 15-16=-123/300, 16-17=-123/300,

17-65=-123/300, 18-65=-123/300, 18-66=-123/300, 19-66=-123/300, 19-20=-123/300, 20-21=-123/300, 21-22=-131/314, 22-23=-119/283

NOTES-(14-17)

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=5.0psf; BCDL=5.0psf; h=35ft; Cat. II; Exp B; Enclosed; Gable Roof; Common Truss; MWFRS (envelope) gable end zone and C-C Corner(3E) -0-10-8 to 3-10-0, Exterior(2N) 3-10-0 to 16-8-6, Corner(3R) 16-8-6 to 26-3-10, Exterior(2N) 26-3-10 to 29-4-6, Corner(3R) 29-4-6 to 38-11-10, Exterior(2N) 38-11-10 to 51-9-10, Corner(3E) 51-9-10 to 56-7-4 zone; 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

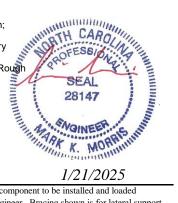
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.

4) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 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 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
- 7) Provide adequate drainage to prevent water ponding.
- 8) All plates are 2x4 MT20 unless otherwise indicated.
- 9) Gable requires continuous bottom chord bearing.
- 10) Gable studs spaced at 2-0-0 oc.

பிற்பிருந்த நடிக்கு been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.



1/21/2025

Job	Truss	Truss Type	Qty	Ply	LOT 149 PROVIDENCE CREEK	FUQUAY-VARINA, NC
25-0637-R01	R01	Piggyback Base Supported Gable	2	1	Job Reference (optional)	# 56214

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#### **NOTES-** (14-17)

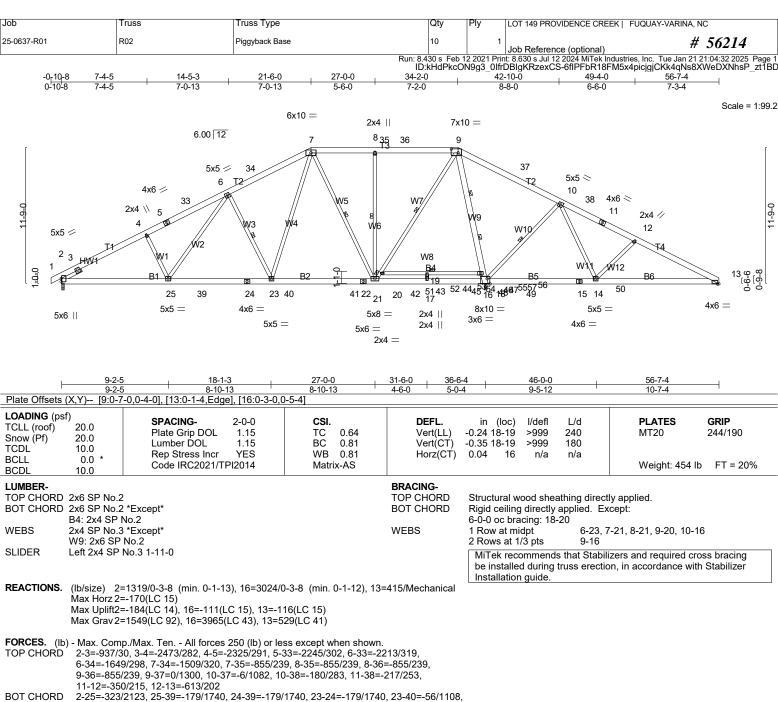
- 12) \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 13) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 49, 50, 51, 53, 54, 56, 57, 58, 59, 60, 61, 62, 48, 47, 44, 43, 42, 40, 39, 38, 37, 36, 35, 34 except (jt=lb) 63=115.

  14) Graphical bracing representation does not depict the size, type or the orientation of the brace on the member. Symbol only indicates that the member must be braced.
- 15) Bearing symbols are only graphical representations of a possible bearing condition. Bearing symbols are not considered in the structural design of the truss to support the loads indicated.
- 16) Web bracing shown is for lateral support of individual web members only. Refer to BCSI Guide to Good Practice for Handling, Installing, Restraining & Bracing of Metal Plate Connected Wood Trusses for additional bracing guidelines, including diagonal bracing.

  17) SEE BCSI-B3 SUMMARY SHEET- PERMANENT RESTRAING/BRACING OF CHORDS & WEB MEMBERS FOR RECOMMENDED MINIMUM BRACING REQUIREMENTS
- OF TOP CHORD, BOTTOM CHORD, AND WEB PLANES. IN ADDITION TO THESE MINIMUM GUIDELINES, ALWAYS CONSULT THE PROJECT ARCHITECT OR ENGINEER FOR ADDITIONAL BRACING CONSIDERATIONS.

LOAD CASE(S) Standard





40-41=-56/1108, 22-41=-56/1108, 21-22=-56/1108, 21-42=-420/250, 42-43=-420/250,

43-44=-420/250, 17-44=-420/250, 17-45=-420/250, 45-46=-420/250, 46-47=-420/250,

47-48=-420/250. 16-48=-420/250. 16-49=-403/102. 49-50=-403/102. 15-50=-403/102.

14-15=-403/102, 13-14=-106/511

4-25=-326/199, 6-25=-108/532, 6-23=-990/281, 7-23=-179/1230, 7-21=-973/193,

8-21=-704/172, 20-21=-171/1834, 9-20=-149/1908, 9-18=-2684/342, 16-18=-2755/316,

10-16=-1143/294, 10-14=-46/604, 12-14=-410/188, 17-19=-289/0

NOTES-

WEBS

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

vvind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=5.0psf; BCDL=5.0psf; h=35ft; Cat. II; Exp B; Enclosed; Gable Roof; Hip Truss; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 3-11-2, Interior(1) 3-11-2 to 16-8-6, Exterior(2R) 16-8-6 to 26-3-10, Interior(1) 26-3-10 to 29-4-6, Exterior(2R) 29-4-6 to 38-11-10, Interior(1) 38-11-10 to 51-9-10, Exterior(2E) 51-9-10 Exterior(2E) Ext 2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=5.0psf; BCDL=5.0psf; h=35ft; Cat. II; Exp B; Enclosed; Gable

3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 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 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.

6) Provide adequate drainage to prevent water ponding

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1/21/2025

Job	Truss	Truss Type	Qty	Ply	LOT 149 PROVIDENCE CREEK	FUQUAY-VARINA, NC
25-0637-R01	R02	Piggyback Base	10	1	Job Reference (optional)	# 56214

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- 7) This truss̀ has b́een 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 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 9) Refer to girder(s) for truss to truss connections.
- 10) Bearing at joint(s) 16 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=184, 16=111, 13=116.

  12) Load case(s) 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss
- 13) MULTIPLE LOADCASES This design is the composite result of multiple load cases.
- 14) User moving load cases exist: Review the load cases for details.
- 15) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom
- 16) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).
- 17) Graphical bracing representation does not depict the size, type or the orientation of the brace on the member. Symbol only indicates that the member must be braced.
- 18) Bearing symbols are only graphical representations of a possible bearing condition. Bearing symbols are not considered in the structural design of the truss to support the loads indicated.
- 19) Web bracing shown is for lateral support of individual web members only. Refer to BCSI Guide to Good Practice for Handling, Installing, Restraining & Bracing of Metal Plate Connected Wood Trusses for additional bracing guidelines, including diagonal bracing.
- 20) SEE BCSI-B3 SUMMARY SHEET- PERMANEŇŤ RESTRÁING/BRĂCINĞ OF CHORDS & WEB MEMBERS FOR RECOMMENDED MINIMUM BRACING REQUIREMENTS OF TOP CHORD, BOTTOM CHORD, AND WEB PLANES. IN ADDITION TO THESE MINIMUM GUIDELINES, ALWAYS CONSULT THE PROJECT ARCHITECT OR ENGINEER FOR ADDITIONAL BRACING CONSIDERATIONS.

### LOAD CASE(S) Standard Except:

86) 1st User Defined Moving Load - Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 1-7=-60(F), 7-9=-60(F), 9-13=-60(F), 26-30=-20(F), 18-20=-20(F)

Concentrated Loads (lb)

Vert: 21=-150 42=-150

87) 2nd User Defined Moving Load - Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 1-7=-60(F), 7-9=-60(F), 9-13=-60(F), 26-30=-20(F), 18-20=-20(F)

Concentrated Loads (lb)

Vert: 42=-150 44=-150

88) 3rd User Defined Moving Load - Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

Vert: 1-7=-60(F), 7-9=-60(F), 9-13=-60(F), 26-30=-20(F), 18-20=-20(F)

Concentrated Loads (lb)

Vert: 44=-150 45=-150

89) 4th User Defined Moving Load - Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 1-7=-60(F), 7-9=-60(F), 9-13=-60(F), 26-30=-20(F), 18-20=-20(F)

Concentrated Loads (lb)

Vert: 45=-150 47=-150

90) 5th User Defined Moving Load - Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 1-7=-60(F), 7-9=-60(F), 9-13=-60(F), 26-30=-20(F), 18-20=-20(F)

Concentrated Loads (lb)

Vert: 16=-150 46=-150

91) 7th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 1-7=-32(F=-20), 7-9=-101(F=-20), 9-13=-32(F=-20), 26-30=-20(F), 18-20=-20(F)

Concentrated Loads (lb)

Vert: 21=-150 42=-150

92) 8th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 1-5=-60(F=-20), 5-7=-101(F=-20), 7-9=-32(F=-20), 9-11=-101(F=-20), 11-13=-60(F=-20), 26-30=-20(F), 18-20=-20(F)

Concentrated Loads (lb)

Vert: 21=-150 42=-150

93) 7th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 1-7=-32(F=-20), 7-9=-101(F=-20), 9-13=-32(F=-20), 26-30=-20(F), 18-20=-20(F)

Concentrated Loads (lb)

Vert: 21=-150 42=-150

94) 8th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumber Increase=1.15, Plate Increase=1.15

Vert: 1-5=-60(F=-20), 5-7=-101(F=-20), 7-9=-32(F=-20), 9-11=-101(F=-20), 11-13=-60(F=-20), 26-30=-20(F), 18-20=-20(F)

Concentrated Loads (lb)

Vert: 21=-150 42=-150

95) 7th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

Vert: 1-7=-32(F=-20), 7-9=-101(F=-20), 9-13=-32(F=-20), 26-30=-20(F), 18-20=-20(F)

Concentrated Loads (lb)

Vert: 21=-150 42=-150

96) 8th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumber Increase=1.15, Plate Increase=1.15

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Continued on page 3

Run: 8.430 s Feb 12 2021 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Tue Jan 21 21:04:32 2025 Page 3 ID:kHdPkcON9g3\_0lfrDBlgKRzexCS-6flPFbR18FM5x4picjgjCKk4qNs8XWeDXNhsP\_zt1BD

LOAD CASE(S)

Uniform Loads (plf)

Vert: 1-5=-60(F=-20), 5-7=-101(F=-20), 7-9=-32(F=-20), 9-11=-101(F=-20), 11-13=-60(F=-20), 26-30=-20(F), 18-20=-20(F)

Concentrated Loads (lb)

Vert: 21=-150 42=-150

97) 7th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

Vert: 1-7=-32(F=-20), 7-9=-101(F=-20), 9-13=-32(F=-20), 26-30=-20(F), 18-20=-20(F)

Concentrated Loads (lb)

Vert: 21=-150 42=-150

98) 8th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

Vert: 1-5-60(F=-20), 5-7=-101(F=-20), 7-9=-32(F=-20), 9-11=-101(F=-20), 11-13=-60(F=-20), 26-30=-20(F), 18-20=-20(F)

Concentrated Loads (lb)

Vert: 21=-150 42=-150

99) 7th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

Vert: 1-7=-32(F=-20), 7-9=-101(F=-20), 9-13=-32(F=-20), 26-30=-20(F), 18-20=-20(F)

Concentrated Loads (lb)

Vert: 21=-150 42=-150

100) 8th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

Vert: 1-5=-60(F=-20), 5-7=-101(F=-20), 7-9=-32(F=-20), 9-11=-101(F=-20), 11-13=-60(F=-20), 26-30=-20(F), 18-20=-20(F)

Concentrated Loads (lb)

Vert: 21=-150 42=-150

101) 7th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

Vert: 1-7=-32(F=-20), 7-9=-101(F=-20), 9-13=-32(F=-20), 26-30=-20(F), 18-20=-20(F)

Concentrated Loads (lb)

Vert: 21=-150 42=-150

102) 8th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

Vert: 1-5=-60(F=-20), 5-7=-101(F=-20), 7-9=-32(F=-20), 9-11=-101(F=-20), 11-13=-60(F=-20), 26-30=-20(F), 18-20=-20(F)

Concentrated Loads (lb)

Vert: 21=-150 42=-150

103) 7th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumber Increase=1.15, Plate Increase=1.15

Concentrated Loads (lb)

Vert: 21=-150 42=-150

104) 8th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

Vert: 1-5=-60(F=-20), 5-7=-101(F=-20), 7-9=-32(F=-20), 9-11=-101(F=-20), 11-13=-60(F=-20), 26-30=-20(F), 18-20=-20(F)

Concentrated Loads (lb)

Vert: 21=-150 42=-150

105) 7th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

Vert: 1-7=-32(F=-20), 7-9=-101(F=-20), 9-13=-32(F=-20), 26-30=-20(F), 18-20=-20(F)

Concentrated Loads (lb)

Vert: 21=-150 42=-150

106) 8th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

Vert: 1-5=-60(F=-20), 5-7=-101(F=-20), 7-9=-32(F=-20), 9-11=-101(F=-20), 11-13=-60(F=-20), 26-30=-20(F), 18-20=-20(F)

Concentrated Loads (lb)

Vert: 21=-150 42=-150

107) 7th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

Vert: 1-7=-32(F=-20), 7-9=-101(F=-20), 9-13=-32(F=-20), 26-30=-20(F), 18-20=-20(F)

Concentrated Loads (lb)

Vert: 21=-150 42=-150

108) 8th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

Vert: 1-5=-60(F=-20), 5-7=-101(F=-20), 7-9=-32(F=-20), 9-11=-101(F=-20), 11-13=-60(F=-20), 26-30=-20(F), 18-20=-20(F)

Concentrated Loads (lb)

Vert: 21=-150 42=-150

109) 7th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

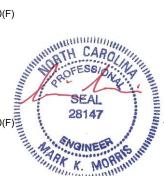
Vert: 1-7=-32(F=-20), 7-9=-101(F=-20), 9-13=-32(F=-20), 26-30=-20(F), 18-20=-20(F)

Concentrated Loads (lb)

110) 8th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

Concentrated Loads (lb)

Continued on page 4



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LOAD CASE(S)

111) 7th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

Vert: 1-7=-32(F=-20), 7-9=-101(F=-20), 9-13=-32(F=-20), 26-30=-20(F), 18-20=-20(F)

Concentrated Loads (lb)

Vert: 21=-150 42=-150

112) 8th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)
Vert: 1-5=-60(F=-20), 5-7=-101(F=-20), 7-9=-32(F=-20), 9-11=-101(F=-20), 11-13=-60(F=-20), 26-30=-20(F), 18-20=-20(F)

Concentrated Loads (lb) Vert: 21=-150 42=-150

113) 7th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

Vert: 1-7=-32(F=-20), 7-9=-101(F=-20), 9-13=-32(F=-20), 26-30=-20(F), 18-20=-20(F)

Concentrated Loads (lb)

Vert: 21=-150 42=-150

114) 8th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

Vert: 1-5=-60(F=-20), 5-7=-101(F=-20), 7-9=-32(F=-20), 9-11=-101(F=-20), 11-13=-60(F=-20), 26-30=-20(F), 18-20=-20(F)

Concentrated Loads (lb)

Vert: 21=-150 42=-150

115) 7th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

Vert: 1-7=-32(F=-20), 7-9=-101(F=-20), 9-13=-32(F=-20), 26-30=-20(F), 18-20=-20(F)

Concentrated Loads (lb)

Vert: 21=-150 42=-150

116) 8th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

Vert: 1-5=-60(F=-20), 5-7=-101(F=-20), 7-9=-32(F=-20), 9-11=-101(F=-20), 11-13=-60(F=-20), 26-30=-20(F), 18-20=-20(F)

Concentrated Loads (lb)

Vert: 21=-150 42=-150

117) 7th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

Vert: 1-7=-32(F=-20), 7-9=-101(F=-20), 9-13=-32(F=-20), 26-30=-20(F), 18-20=-20(F)

Concentrated Loads (lb)

Vert: 21=-150 42=-150

118) 8th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

Vert: 1-5=-60(F=-20), 5-7=-101(F=-20), 7-9=-32(F=-20), 9-11=-101(F=-20), 11-13=-60(F=-20), 26-30=-20(F), 18-20=-20(F)

Concentrated Loads (lb)

Vert: 21=-150 42=-150

119) 7th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

Vert: 1-7=-32(F=-20), 7-9=-101(F=-20), 9-13=-32(F=-20), 26-30=-20(F), 18-20=-20(F)

Concentrated Loads (lb)

Vert: 21=-150 42=-150

120) 8th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

Vert: 1-5=-60(F=-20), 5-7=-101(F=-20), 7-9=-32(F=-20), 9-11=-101(F=-20), 11-13=-60(F=-20), 26-30=-20(F), 18-20=-20(F)

Concentrated Loads (lb)

Vert: 21=-150 42=-150

121) 7th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

Vert: 1-7=-32(F=-20), 7-9=-101(F=-20), 9-13=-32(F=-20), 26-30=-20(F), 18-20=-20(F)

Concentrated Loads (lb)

Vert: 21=-150 42=-150

122) 8th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

Vert: 1-5=-60(F=-20), 5-7=-101(F=-20), 7-9=-32(F=-20), 9-11=-101(F=-20), 11-13=-60(F=-20), 26-30=-20(F), 18-20=-20(F)

Concentrated Loads (lb)

Vert: 21=-150 42=-150

123) 7th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

Vert: 1-7=-32(F=-20), 7-9=-101(F=-20), 9-13=-32(F=-20), 26-30=-20(F), 18-20=-20(F)

Concentrated Loads (lb)

Vert: 21=-150 42=-150

124) 8th Unbal. 1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

Vert: 1-5=-60(F=-20), 5-7=-101(F=-20), 7-9=-32(F=-20), 9-11=-101(F=-20), 11-13=-60(F=-20), 26-30=-20(F), 18-20=-20(F)

Concentrated Loads (lb)

Vert: 21=-150 42=-150

125) 7th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

Vert: 1-7=-32(F=-20), 7-9=-101(F=-20), 9-13=-32(F=-20), 26-30=-20(F), 18-20=-20(F)

Concentrated Loads (lb)

Vert: 21=-150 42=-150

20(F)

SEAL

28147

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Job	Truss	Truss Type	Qty	Ply	LOT 149 PROVIDENCE CREEK   FUQUAY-VARINA, NC	
25-0637-R01	R02	Piggyback Base	10	1	Job Reference (optional) # 56214	

Run: 8.430 s Feb 12 2021 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Tue Jan 21 21:04:32 2025 Page 5 ID:kHdPkcON9g3\_0lfrDBlgKRzexCS-6flPFbR18FM5x4picjgjCKk4qNs8XWeDXNhsP\_zt1BD

LOAD CASE(S)

126) 8th Unbal. 1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

Vert: 1-5=-60(F=-20), 5-7=-101(F=-20), 7-9=-32(F=-20), 9-11=-101(F=-20), 11-13=-60(F=-20), 26-30=-20(F), 18-20=-20(F)

Concentrated Loads (lb)

Vert: 21=-150 42=-150

127) 7th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

Vert: 1-7=-32(F=-20), 7-9=-101(F=-20), 9-13=-32(F=-20), 26-30=-20(F), 18-20=-20(F)

Concentrated Loads (lb)

Vert: 21=-150 42=-150

128) 8th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

Vert: 1-5=-60(F=-20), 5-7=-101(F=-20), 7-9=-32(F=-20), 9-11=-101(F=-20), 11-13=-60(F=-20), 26-30=-20(F), 18-20=-20(F)

Concentrated Loads (lb)

Vert: 21=-150 42=-150

129) 7th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

Vert: 1-7=-32(F=-20), 7-9=-101(F=-20), 9-13=-32(F=-20), 26-30=-20(F), 18-20=-20(F)

Concentrated Loads (lb)

Vert: 21=-150 42=-150

130) 8th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

Vert: 1-5=-60(F=-20), 5-7=-101(F=-20), 7-9=-32(F=-20), 9-11=-101(F=-20), 11-13=-60(F=-20), 26-30=-20(F), 18-20=-20(F)

Concentrated Loads (lb)

Vert: 21=-150 42=-150

131) 7th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

Vert: 1-7=-32(F=-20), 7-9=-101(F=-20), 9-13=-32(F=-20), 26-30=-20(F), 18-20=-20(F)

Concentrated Loads (lb)

Vert: 21=-150 42=-150

132) 8th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

Vert: 1-5=-60(F=-20), 5-7=-101(F=-20), 7-9=-32(F=-20), 9-11=-101(F=-20), 11-13=-60(F=-20), 26-30=-20(F), 18-20=-20(F)

Concentrated Loads (lb)

Vert: 21=-150 42=-150



J	ob		Truss		Truss Type		Qty	Ply	LOT 149 PROVIDE	NCE CREEK   FUQ	UAY-VARINA, NC	
2	5-0637-R01		R03		Piggyback Base		5	1	Job Reference (d	optional)	# 5	56214
										24 MiTek Industries, Ir		
							ID:kHdPkcON9g	3_0lfrDBI	gKRzexCS-arroS:	xRfvZUxYEOvAQC	CylXGGYmE0Gv	/NNI1RPyQzt1BC
	-0 <sub>-</sub> 10-8	7-4-5	i	14-5-3	21-6-0	27-0-0	34-2-0	_	42-10-0	48-10-4	55-8-0	56-6 <sub>-</sub> 8
	0-10-8	7-4-5	1	7-0-13	7-0-13	5-6-0	7-2-0	1	8-8-0	6-0-4	6-9-12	0-10-8

Scale = 1:94.4

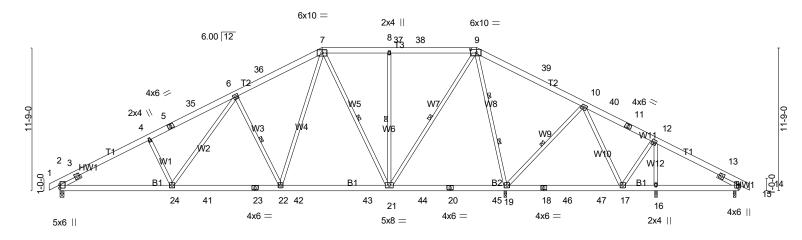


Plate Offsets (X,Y) [9:0-6					
LOADING (psf) TCLL (roof) 20.0 Snow (Pf) 20.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2021/TPI2014	CSI. TC 0.58 BC 0.65 WB 0.97 Matrix-AS	DEFL. in (lo Vert(LL) -0.19 22-2 Vert(CT) -0.29 22-2 Horz(CT) 0.05 1	4 >999 240	PLATES GRIP MT20 244/190  Weight: 437 lb FT = 20%

**BRACING-**

WFBS

TOP CHORD

**BOT CHORD** 

46-0-0

Structural wood sheathing directly applied.

9-19

MiTek recommends that Stabilizers and required cross bracing

be installed during truss erection, in accordance with Stabilizer

Rigid ceiling directly applied.

1 Row at midpt

2 Rows at 1/3 pts

Installation guide

48-10-4 2-10-4

6-22, 7-21, 8-21, 9-21, 10-19

LUMBER-

TOP CHORD 2x6 SP No.2

BOT CHORD 2x6 SP No.2 \*Except\* B2: 2x6 SP DSS

**WEBS** 2x4 SP No.3 \*Except\*

W8: 2x4 SP No.2

SLIDER Left 2x4 SP No.3 1-11-0, Right 2x4 SP No.3 1-11-0

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

(lb) -Max Horz 2=167(LC 14)

Max Uplift All uplift 100 lb or less at joint(s) 16 except 2=-195(LC 14), 19=-163(LC 14),

14=-103(LC 15)

Max Grav All reactions 250 lb or less at joint(s) except 2=1578(LC 39), 19=3185(LC 45),

14=416(LC 43), 16=491(LC 43)

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

2-3=-964/37, 3-4=-2571/337, 4-5=-2430/349, 5-35=-2362/355, 6-35=-2332/373,

6-36=-1790/357, 7-36=-1644/385, 7-37=-880/316, 8-37=-880/316, 8-38=-880/316,

9-38=-880/316, 9-39=0/862, 10-39=0/687, 11-12=-287/151

**BOT CHORD** 2-24=-346/2214, 24-41=-200/1830, 23-41=-200/1830, 22-23=-200/1830, 22-42=-63/1146,

42-43=-63/1146, 21-43=-63/1146

4-24=-332/199, 6-24=-111/517, 6-22=-985/282, 7-22=-174/1270, 7-21=-950/173,

8-21=-710/172, 9-21=-167/1638, 9-19=-2173/325, 10-19=-871/238, 10-17=-20/390,

12-16=-373/100

NOTES-(12-15)

WEBS

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

2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=5.0psf; BCDL=5.0psf; h=35ft; Cat. II; Exp B; Enclosed; Gable CARDINATION COLOR STATE COLOR

3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 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 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.

6) Provide adequate drainage to prevent water ponding.

7) All plates are 5x5 MT20 unless otherwise indicated.

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

Continued on page 2

MORRELITATION 12025 SEAL 28147 VOINEE K. MORR

1/21/2025

Job	Truss	Truss Type	Qty	Ply	LOT 149 PROVIDENCE CREEK   FUQUAY-VARINA, NC	Ī
25-0637-R01	R03	Piggyback Base	5	1	Job Reference (optional) # 56214	

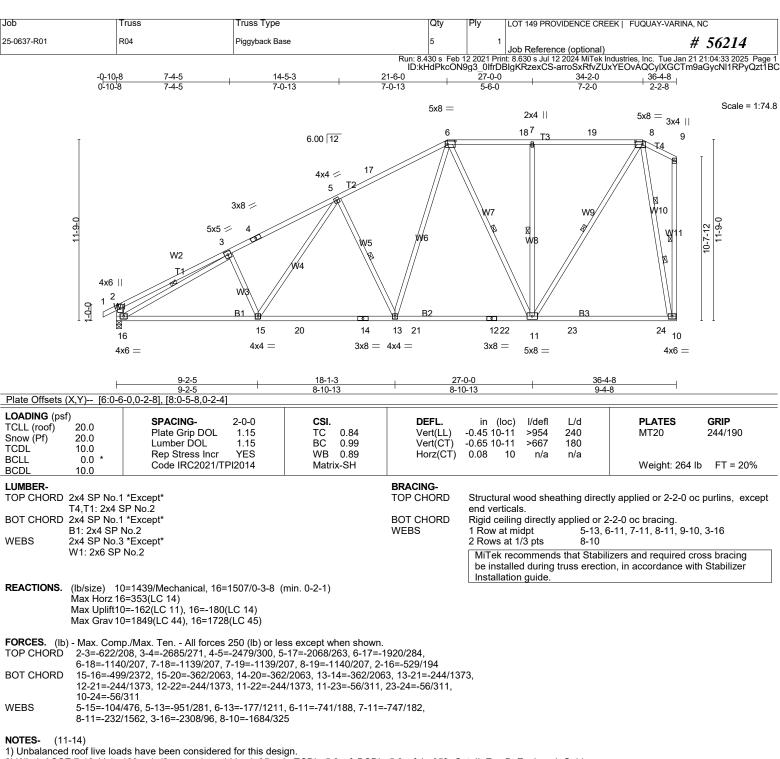
Run: 8.430 s Feb 12 2021 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Tue Jan 21 21:04:33 2025 Page 2 ID:kHdPkcON9g3\_0lfrDBlgKRzexCS-arroSxRfvZUxYEOvAQCylXGGYmE0GwNN11RPyQzt1BC

# **NOTES-** (12-15)

- 9) \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 16 except (jt=lb) 2=195, 19=163, 14=103.
- 11) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord
- 12) Graphical bracing representation does not depict the size, type or the orientation of the brace on the member. Symbol only indicates that the member must be braced.
- 13) Bearing symbols are only graphical representations of a possible bearing condition. Bearing symbols are not considered in the structural design of the truss to support the loads indicated.
- 14) Web bracing shown is for lateral support of individual web members only. Refer to BCSI Guide to Good Practice for Handling, Installing, Restraining & Bracing of Metal Plate Connected Wood Trusses for additional bracing guidelines, including diagonal bracing.
- 15) SEE BCSI-B3 SUMMARY SHEET- PERMANENT RESTRAING/BRACING OF CHORDS & WEB MEMBERS FOR RECOMMENDED MINIMUM BRACING REQUIREMENTS OF TOP CHORD, BOTTOM CHORD, AND WEB PLANES. IN ADDITION TO THESE MINIMUM GUIDELINES, ALWAYS CONSULT THE PROJECT ARCHITECT OR ENGINEER FOR ADDITIONAL BRACING CONSIDERATIONS.

LOAD CASE(S) Standard





2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=5.0psf; BCDL=5.0psf; h=35ft; Cat. II; Exp B; Enclosed; Gable Roof; Hip Truss; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 3-11-2, Interior(1) 3-11-2 to 16-8-6, Exterior(2R) 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); Pf=20.0 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 2.00 times flat roof load of 20.0 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 30.0psf on the bottom chord in all areas where a rectangle 3-6 0 tell but 0.0 cm. 16-8-6 to 26-3-10, Interior(1) 26-3-10 to 29-4-6, Exterior(2R) 29-4-6 to 34-2-0, Exterior(2E) 34-2-0 to 36-2-12 zone; end vertical left

between the bottom chord and any other members, with BCDL = 10.0psf.

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

10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 10=162 16=180.

62 NOR Continued on page 2 1/21/2025

2.1/202 c d and Warning !--Verify design parameters and read notes before use. This design is based only upon parameters shown, and is for an individual building component to be installed and loaded vertically. Applicability of design parameters and proper incorporation of component is responsibility of building designer - not truss designer or truss engineer. Bracing shown is for lateral support of individual web members only. Additional temporary bracing to ensure stability during construction is the responsibility of the erector. Additional permanent bracing of the overall structure is the responsibility of the building designer. For general guidance regarding fabrication, quality control, storage, delivery, erection and bracing, consult ANSI/TPI 1 National Design Standard for Metal Plate Connected Wood Truss Construction and BCSI 1-03 Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses from Truss Plate Institute, 583 D'Onofrio Drive, Madison, WI 53719.

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Job	Truss	Truss Type	Qty	Ply	LOT 149 PROVIDENCE CREEK   FUQUAY-VARINA, NC
25-0637-R01	R04	Piggyback Base	5	1	Job Reference (optional) # 56214

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- 11) Graphical bracing representation does not depict the size, type or the orientation of the brace on the member. Symbol only indicates that the member must be braced.
- 12) Bearing symbols are only graphical representations of a possible bearing condition. Bearing symbols are not considered in the structural design of the truss to support the

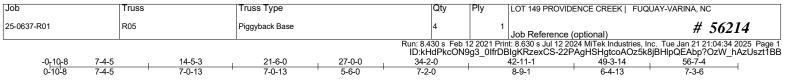
13) Web bracing shown is for lateral support of individual web members only. Refer to BCSI - Guide to Good Practice for Handling, Installing, Restraining & Bracing of Metal Plate Connected Wood Trusses for additional bracing guidelines, including diagonal bracing.

14) SEE BCSI-B3 SUMMARY SHEET- PERMANENT RESTRAING/BRACING OF CHORDS & WEB MEMBERS FOR RECOMMENDED MINIMUM BRACING REQUIREMENTS

OF TOP CHORD, BOTTOM CHORD, AND WEB PLANES. IN ADDITION TO THESE MINIMUM GUIDELINES, ALWAYS CONSULT THE PROJECT ARCHITECT OR ENGINEER FOR ADDITIONAL BRACING CONSIDERATIONS.

LOAD CASE(S) Standard





Scale: 1/8"=1"

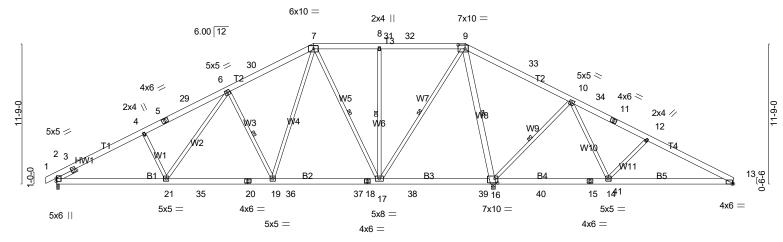


Plate Offsets (X Y) [9:0-	5 8-10-13 -7-0,0-4-0], [13:0-1-4,Edge], [16:0-2-12	8-10-13 2	9-6-4 9-	-7-4	10-5-12
LOADING (psf) TCLL (roof) 20.0 Snow (Pf) 20.0 TCDL 10.0	SPACING- 2-0-0	CSI. TC 0.65 BC 0.61 WB 0.94	DEFL. in (loc) I/defl Vert(LL) -0.18 19-21 >999 Vert(CT) -0.28 19-21 >999 Horz(CT) 0.04 16 n/a	240	PLATES GRIP MT20 244/190
BCLL 0.0 * BCDL 10.0	Code IRC2021/TPI2014	Matrix-AS	Horz(CT) 0.04 16 n/a	n n/a	Weight: 441 lb FT = 20%

27-0-0

LUMBER-

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

2x4 SP No.3 \*Except\* W8: 2x6 SP No.2

9-2-5

SLIDER Left 2x4 SP No.3 1-11-0 **BRACING-**TOP CHORD

**BOT CHORD** WFBS

Structural wood sheathing directly applied.

Rigid ceiling directly applied. 1 Row at midpt

6-19, 7-17, 8-17, 9-17, 9-16, 10-16

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide

REACTIONS. (lb/size) 2=1301/0-3-8 (min. 0-1-12), 16=2858/0-3-8 (min. 0-1-10), 13=422/Mechanical Max Horz 2=-170(LC 15)

18-1-3

Max Uplift2=-193(LC 14), 16=-194(LC 15), 13=-113(LC 15) Max Grav 2=1470(LC 39), 16=3590(LC 45), 13=536(LC 43)

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

2-3=-892/35, 3-4=-2378/301, 4-5=-2238/309, 5-29=-2171/321, 6-29=-2140/338,

6-30=-1577/317, 7-30=-1437/339, 7-31=-712/264, 8-31=-712/264, 8-32=-712/264, 9-32=-712/264, 9-33=0/1258, 10-33=-11/1055, 11-12=-380/171, 12-13=-633/192

2-21=-339/2045, 21-35=-196/1674, 20-35=-196/1674, 19-20=-196/1674, 19-36=-75/1034, **BOT CHORD** 

36-37=-75/1034, 18-37=-75/1034, 17-18=-75/1034, 17-38=-478/238, 38-39=-478/238,

16-39=-478/238, 16-40=-372/107, 40-41=-372/107, 15-41=-372/107, 14-15=-372/107,

4-21=-337/197, 6-21=-108/531, 6-19=-991/281, 7-19=-173/1260, 7-17=-1067/178,

8-17=-708/172, 9-17=-189/1744, 9-16=-2482/381, 10-16=-1156/292, 10-14=-42/632,

12-14=-395/185

NOTES-

**WEBS** 

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

2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=5.0psf; BCDL=5.0psf; h=35ft; Cat. II; Exp B; Enclosed; Gable grip DOL=1.60
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 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. Roof, Hip Truss; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 3-11-2, Interior(1) 3-11-2 to 16-8-6, Exterior(2R)

5) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.0 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.

Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
Unbalanced snow loads have been considered for this design.
This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
Provide adequate drainage to prevent water ponding.
This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
\* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.

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

Continued on page 2

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1/21/2025

Job	Truss	Truss Type	Qty	Ply	LOT 149 PROVIDENCE CREEK   FUQUA	Y-VARINA, NC
25-0637-R01	R05	Piggyback Base	4	1	Job Reference (optional)	# 56214

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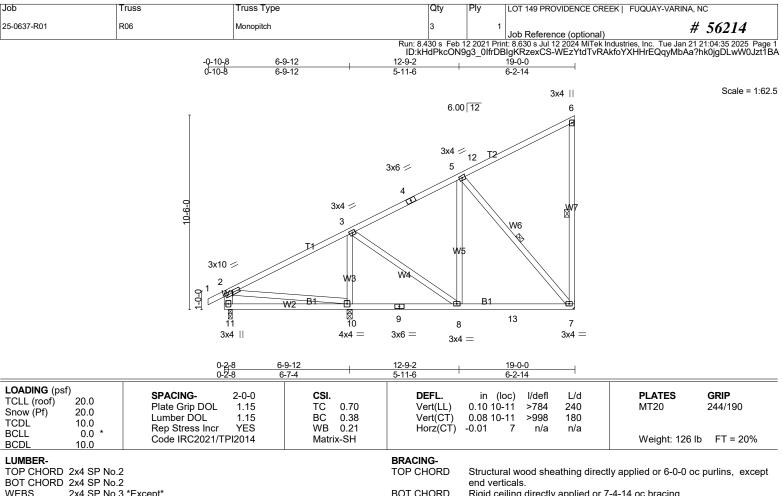
#### **NOTES-** (13-16)

- 10) Bearing at joint(s) 16 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=193, 16=194, 13=113.
- 12) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 13) Graphical bracing representation does not depict the size, type or the orientation of the brace on the member. Symbol only indicates that the member must be braced.
- 14) Bearing symbols are only graphical representations of a possible bearing condition. Bearing symbols are not considered in the structural design of the truss to support the loads indicated.
- 15) Web bracing shown is for lateral support of individual web members only. Refer to BCSI Guide to Good Practice for Handling, Installing, Restraining & Bracing of Metal Plate Connected Wood Trusses for additional bracing guidelines, including diagonal bracing.

  16) SEE BCSI-B3 SUMMARY SHEET- PERMANENT RESTRAING/BRACING OF CHORDS & WEB MEMBERS FOR RECOMMENDED MINIMUM BRACING REQUIREMENTS
- OF TOP CHORD, BOTTOM CHORD, AND WEB PLANES. IN ADDITION TO THESE MINIMUM GUIDELINES, ALWAYS CONSULT THE PROJECT ARCHITECT OR ENGINEER FOR ADDITIONAL BRACING CONSIDERATIONS.

LOAD CASE(S) Standard





BOT CHORD 2x4 SP No.2

2x4 SP No.3 \*Except\* W1: 2x6 SP No.2

BOT CHORD WFBS

Rigid ceiling directly applied or 7-4-14 oc bracing.

1 Row at midpt 6-7.5-7

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide

REACTIONS. (lb/size) 7=493/Mechanical, 11=356/0-3-0 (min. 0-1-8), 10=707/0-3-8 (min. 0-1-8)

Max Horz 11=327(LC 14)

Max Uplift7=-198(LC 14), 11=-26(LC 11), 10=-84(LC 14) Max Grav 7=631(LC 21), 11=362(LC 21), 10=734(LC 21)

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

3-4=-404/0, 4-5=-277/0, 2-11=-303/64 TOP CHORD

**BOT CHORD** 10-11=-520/293, 8-13=-122/301, 7-13=-122/301

WEBS 3-10=-579/120, 3-8=0/266, 5-7=-447/183, 2-10=-179/308

- 1) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=5.0psf; BCDL=5.0psf; h=35ft; Cat. II; Exp B; Enclosed; Gable Roof; Common Truss; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 3-11-2, Interior(1) 3-11-2 to 14-0-10, Exterior(2E) 14-0-10 to 18-10-4 zone; cantilever left exposed; end vertical left exposed; porch left 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); Pf=20.0 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 2.00 times flat roof load of 20.0 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.

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Continued on page 2 1/21/2025

Job	Truss	Truss Type	Qty	Ply	LOT 149 PROVIDENCE CREEK   FU	QUAY-VARINA, NC
25-0637-R01	R06	Monopitch	3	1	Job Reference (optional)	# 56214

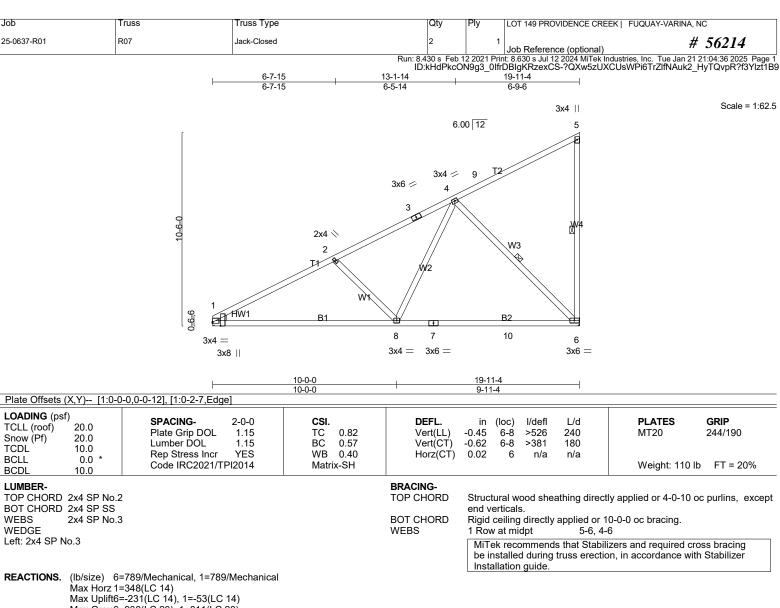
Run: 8.430 s Feb 12 2021 Print: 8.630 s Jul 12 2024 MITek Industries, Inc. Tue Jan 21 21:04:35 2025 Page 2 ID:kHdPkcON9g3\_0lfrDBlgKRzexCS-WEzYtdTvRAkfoYXHHrEQqyMbAa?hk0jgDLwW0Jzt1BA

- 9) Graphical bracing representation does not depict the size, type or the orientation of the brace on the member. Symbol only indicates that the member must be braced.
- 10) Bearing symbols are only graphical representations of a possible bearing condition. Bearing symbols are not considered in the structural design of the truss to support the
- 11) Web bracing shown is for lateral support of individual web members only. Refer to BCSI Guide to Good Practice for Handling, Installing, Restraining & Bracing of Metal Plate Connected Wood Trusses for additional bracing guidelines, including diagonal bracing.

  12) SEE BCSI-B3 SUMMARY SHEET- PERMANENT RESTRAING/BRACING OF CHORDS & WEB MEMBERS FOR RECOMMENDED MINIMUM BRACING REQUIREMENTS
- OF TOP CHORD, BOTTOM CHORD, AND WEB PLANES. IN ADDITION TO THESE MINIMUM GUIDELINES, ALWAYS CONSULT THE PROJECT ARCHITECT OR ENGINEER FOR ADDITIONAL BRACING CONSIDERATIONS.

LOAD CASE(S) Standard





Max Grav 6=938(LC 20), 1=811(LC 20)

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

1-2=-1267/70, 2-3=-1015/14, 3-4=-882/40, 5-6=-261/111 1-8=-337/1062, 7-8=-186/596, 7-10=-186/596, 6-10=-186/596 TOP CHORD **BOT CHORD** 

2-8=-360/202, 4-8=-41/641, 4-6=-835/263 WEBS

NOTES-

- 1) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=5.0psf; BCDL=5.0psf; h=35ft; Cat. II; Exp B; Enclosed; Gable Roof; End Jack Truss; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-0-12 to 4-10-6, Interior(1) 4-10-6 to 13-0-1, Exterior(2R) 13-0-1 to 19-9-8 zone; 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): Pf=20.0 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 a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

5) \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.

- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1 except (jt=lb) 6=231.

  8) Graphical bracing representation does not depict the size, type or the orientation of the brace on the member. Symbol only indicates that the member must be braced.

  9) Bearing symbols are only creation?
- 9) Bearing symbols are only graphical representations of a possible bearing condition. Bearing symbols are not considered in the structural
- design of the truss to support the loads indicated.

  10) Web bracing shown is for lateral support of individual web members only. Refer to BCSI Guide to COSI.

  Installing, Restraining & Bracing of Metal Plate Connected Wood Trusses for additional bracing guidelines, including diagonal bracing.

  11) SEE BCSI-B3 SUMMARY SHEET- PERMANENT RESTRAING/BRACING OF CHORDS & WEB MEMBERS FOR RECOMMENDED.

  MINIMI IM BRACING REQUIREMENTS OF TOP CHORD, BOTTOM CHORD, AND WEB PLANES. IN ADDITION TO THESE

  MINIMI IM BRACING REQUIREMENTS OF TOP CHORD, BOTTOM CHORD, AND WEB PLANES. IN ADDITIONAL BRACING

LOAD CASE(S) Standard 1/21/2025

MORPH dand le Warning !--Verify design parameters and read notes before use. This design is based only upon parameters shown, and is for an individual building component to be installed and loaded vertically. Applicability of design parameters and proper incorporation of component is responsibility of building designer - not truss designer or truss engineer. Bracing shown is for lateral support of individual web members only. Additional temporary bracing to ensure stability during construction is the responsibility of the erector. Additional permanent bracing of the overall structure is the responsibility of the building designer. For general guidance regarding fabrication, quality control, storage, delivery, erection and bracing, consult ANSI/TPI 1 National Design Standard for Metal Plate Connected Wood Truss Construction and BCSI 1-03 Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses from Truss Plate Institute, 583 D'Onofrio Drive, Madison, WI 53719.

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Job Truss Truss Type Qtv LOT 149 PROVIDENCE CREEK | FUQUAY-VARINA, NC 25-0637-R01 R08 GABLE # 56214 Job Reference (optional) Run: 8.430 s Feb 12 2021 Prin 8.430 s Feb 12 2021 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Tue Jan 21 21:04:36 2025 Page 1 ID:kHdPkcON9g3\_0lfrDBlgKRzexCS-?QXw5zUXCUsWPi6TrZlfNAuui\_0xTU5pR?f3Ylzt1B9 -0-10-8 0-10-8 20-8-0 10-4-0 21-6-8 10-4-0 10-4-0 Scale = 1:45.6 3x6 =8 9 7.00 12 10 6 31 5 30 11 32 29 12 4 1-10-0 <sup>13</sup> 3x4 || 3 STB 3x4 II 14 15 W 26 25 24 23 22 21 20 19 18 17 28 27 16 3x6 =3x4 || 3x4 || 20-8-0 Plate Offsets (X,Y)-- [8:0-3-0,Edge] DEFL. I/defl L/d **PLATES GRIP** (loc) Vert(LL) MT20 244/190 -0.0015 n/r 180 Vert(CT) -0.0015 n/r 80

LOADING (psf)       TCLL (roof)     20.0       Snow (Pf)     20.0       TCDL     10.0       BCLL     0.0 *	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2021/TPI2014	CSI. TC 0.14 BC 0.12 WB 0.14 Matrix-R
BCDL 10.0	Code IRC2021/1712014	IVIAUIX-IX

Horz(CT) 0.00 16 n/a n/a

Weight: 125 lb FT = 20%

LUMBER-

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

**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 MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide

NOINE

REACTIONS. All bearings 20-8-0

(lb) - Max Horz 28=171(LC 13)

Max Uplift All uplift 100 lb or less at joint(s) 28, 16, 24, 25, 26, 20, 19, 18 except 27=-125(LC 14), 17=-117(LC

Max Grav All reactions 250 lb or less at joint(s) 28, 16, 25, 26, 27, 19, 18, 17 except 23=281(LC 5), 24=292(LC 5), 22=281(LC 6), 20=292(LC 6)

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=120mph (3-second gust) Vasd=95mph; TCDL=5.0psf; BCDL=5.0psf; h=35ft; Cat. II; Exp B; Enclosed; Gable Roof; Common Truss; MWFRS (envelope) gable end zone and C-C Corner (3E) -0-10-8 to 3-11-2, Exterior (2N) 3-11-2 to 5-3-4, Corner(3R) 5-3-4 to 15-4-12, Exterior(2N) 15-4-12 to 16-8-14, Corner(3E) 16-8-14 to 21-6-8 zone; 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); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough ROFESO, OROFESO, 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 2.00 times flat roof load of 20.0 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 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.

13) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 28, 16, 24, 25, 26, 20 , 19, 18 except (jt=lb) 27=125, 17=117.

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Job	Truss	Truss Type	Qty	Ply	LOT 149 PROVIDENCE CREEK   FUQ	UAY-VARINA, NC
25-0637-R01	R08	GABLE	1	1	Job Reference (optional)	# 56214

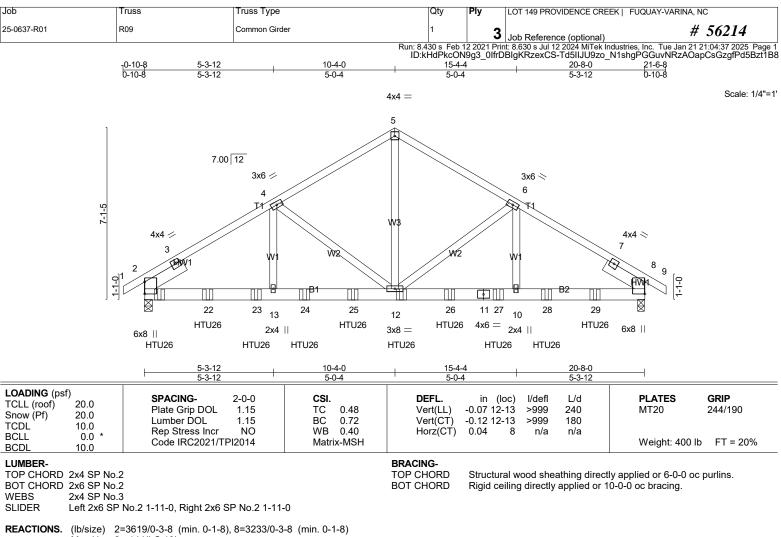
Run: 8.430 s Feb 12 2021 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Tue Jan 21 21:04:36 2025 Page 2 ID:kHdPkcON9g3\_0IfrDBIgKRzexCS-?QXw5zUXCUsWPi6TrZlfNAuui\_OxTU5pR?f3Ylzt1B9

- 14) Graphical bracing representation does not depict the size, type or the orientation of the brace on the member. Symbol only indicates that the member must be braced.
- 15) Bearing symbols are only graphical representations of a possible bearing condition. Bearing symbols are not considered in the structural design of the truss to support the
- 16) Web bracing shown is for lateral support of individual web members only. Refer to BCSI Guide to Good Practice for Handling, Installing, Restraining & Bracing of Metal Plate Connected Wood Trusses for additional bracing guidelines, including diagonal bracing.

  17) SEE BCSI-B3 SUMMARY SHEET- PERMANENT RESTRAING/BRACING OF CHORDS & WEB MEMBERS FOR RECOMMENDED MINIMUM BRACING REQUIREMENTS
- OF TOP CHORD, BOTTOM CHORD, AND WEB PLANES. IN ADDITION TO THESE MINIMUM GUIDELINES, ALWAYS CONSULT THE PROJECT ARCHITECT OR ENGINEER FOR ADDITIONAL BRACING CONSIDERATIONS.

LOAD CASE(S) Standard





Max Horz 2=-144(LC 10)

Max Uplift2=-787(LC 12), 8=-694(LC 13) Max Grav 2=3659(LC 19), 8=3274(LC 20)

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

TOP CHORD 2-3=-2197/429, 3-4=-4333/934, 4-5=-3301/752, 5-6=-3301/753, 6-7=-4296/925,

7-8=-2160/420

BOT CHORD 2-22=-811/3648, 22-23=-811/3648, 13-23=-811/3648, 13-24=-811/3648, 24-25=-811/3648,

12-25=-811/3648, 12-26=-708/3616, 11-26=-708/3616, 11-27=-708/3616, 10-27=-708/3616,

10-28=-708/3616, 28-29=-708/3616, 8-29=-708/3616

WEBS 5-12=-644/2869, 6-12=-1046/322, 6-10=-203/910, 4-12=-1086/331, 4-13=-213/952

(13-16)

Continued on page 2

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 0-9-0 oc.

Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 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.
- Unbalanced roof live loads have been considered for this design.
- 4) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph, TCDL=5.0psf; BCDL=5.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- OROFESS! 5) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 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 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 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) except (jt=lb) 2=787
- 11) Use Simpson Strong-Tie HTU26 (10-16d Girder, 14-10dx1 1/2 Truss) or equivalent spaced at 2-0-0 oc max. starting at 0-7-4 from the left end to 18-7-4 to connect truss(es) R02 (1 ply 2x6 SP) to back face of bottom chord.
- 12) Fill all nail holes where hanger is in contact with lumber.

21/2025
ad and Warning !--Verify design parameters and read notes before use. This design is based only upon parameters shown, and is for an individual building component to be installed and loaded vertically. Applicability of design parameters and proper incorporation of component is responsibility of building designer - not truss designer or truss engineer. Bracing shown is for lateral support of individual web members only. Additional temporary bracing to ensure stability during construction is the responsibility of the erector. Additional permanent bracing of the overall structure is the responsibility of the building designer. For general guidance regarding fabrication, quality control, storage, delivery, erection and bracing, consult ANSI/TPI 1 National Design Standard for Metal Plate Connected Wood Truss Construction and BCSI 1-03 Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses from Truss Plate Institute, 583 D'Onofrio Drive, Madison, WI 53719.

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Job	Truss	Truss Type	Qty	Ply	LOT 149 PROVIDENCE CREEK   FUQUAY-V	ARINA, NC
25-0637-R01	R09	Common Girder	1	3	Job Reference (optional)	# 56214

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- 13) Graphical bracing representation does not depict the size, type or the orientation of the brace on the member. Symbol only indicates that the member must be braced.
- 14) Bearing symbols are only graphical representations of a possible bearing condition. Bearing symbols are not considered in the structural design of the truss to support the loads indicated.
- 15) Web bracing shown is for lateral support of individual web members only. Refer to BCSI Guide to Good Practice for Handling, Installing, Restraining & Bracing of Metal Plate Connected Wood Trusses for additional bracing guidelines, including diagonal bracing.

  16) SEE BCSI-B3 SUMMARY SHEET- PERMANENT RESTRAING/BRACING OF CHORDS & WEB MEMBERS FOR RECOMMENDED MINIMUM BRACING REQUIREMENTS
- OF TOP CHORD, BOTTOM CHORD, AND WEB PLANES. IN ADDITION TO THESE MINIMUM GUIDELINES, ALWAYS CONSULT THE PROJECT ARCHITECT OR ENGINEER FOR ADDITIONAL BRACING CONSIDERATIONS.

# LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-5=-60, 5-9=-60, 14-18=-20

Concentrated Loads (lb)

Vert: 12=-509(B) 16=-513(B) 22=-509(B) 23=-509(B) 24=-509(B) 25=-509(B) 26=-509(B) 27=-509(B) 28=-509(B) 29=-509(B)



25-0637-R01 R10 Common Supported Gable # 56214 Job Reference (optional) Run: 8.430 s Feb 12 2021 Print: 8.630 s Jul 12 2024 MITek Industries, Inc. Tue Jan 21 21:04:38 2025 Page 1 ID:kHdPkcON9g3\_0IfrDBlgKRzexCS-xpfgWeVok56Ef0Gsz\_n7Sb\_EWn4AxPq6vJ8Addzt1B7 -0-10-8 0-10-8 13-6-8 0-10-8 6-4-0 12-8-0 6-4-0 Scale = 1:30.1 4x4 = 5 7.00 12 19 18 7 4-9-5 3 20 P 3x4 || 3x4 II 8 W XX16 15 14 13 12 11 10 3x4 | 3x4 || 12-8-0 LOADING (psf) SPACING-GRIP 2-0-0 CSI. DEFL. in (loc) I/defl I/d **PLATES** TCLL (roof) 20.0 Plate Grip DOL 1.15 TC 0.12 Vert(LL) -0.00 9 n/r 180 244/190 MT20 Snow (Pf) 20.0 Lumber DOL ВС 0.07 Vert(CT) -0.00 1.15 n/r 80 **TCDL** 10.0 Rep Stress Incr YES WB 0.06 Horz(CT) 0.00 10 n/a n/a BCLL 0.0 Code IRC2021/TPI2014 Matrix-R Weight: 67 lb FT = 20% BCDI 10.0

Qtv

BRACING-

TOP CHORD

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

LOT 149 PROVIDENCE CREEK | FUQUAY-VARINA, NC

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

> MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. All bearings 12-8-0.

2x4 SP No 3

2x4 SP No.3

TOP CHORD 2x4 SP No.2

BOT CHORD 2x4 SP No.3

(lb) - Max Horz 16=120(LC 13)

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-(14-17)

LUMBER-

WFBS

**OTHERS** 

Job

Truss

Truss Type

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

- 2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=5.0psf; BCDL=5.0psf; h=35ft; Cat. II; Exp B; Enclosed; Gable Roof; Common Truss; MWFRS (envelope) gable end zone and C-C Corner(3E) -0-10-8 to 3-11-2, Corner(3R) 3-11-2 to 8-8-14, Corner(3E) 8-8-14 to 13-6-8 zone; 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); Pf=20.0 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 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
- All plates are 2x4 MT20 unless otherwise indicated.
- 8) Gable requires continuous bottom chord bearing.

- 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 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide with the bottom chord and any other members.

  13) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 400 the second connection (by others) of truss to bearing plate capable of withstanding 400 the second connection (by others) of truss to bearing plate capable of withstanding 400 the second connection (by others) of truss to bearing plate capable of withstanding 400 the second connection (by others) of truss to bearing plate capable of withstanding 400 the second connection (by others) of truss to bear in the second connection (by others) of truss to bear in the second connection (by others) of truss to bear in the second connection (by others) of truss to bear in the second connection (by others) of truss to bear in the second connection (by others) of truss to bear in the second connection (by others) of truss to bear in the second connection (by others) of truss to bear in the second connection (by others) of truss to bear in the second connection (by others) of truss to bear in the second connection (by others) of truss to bear in the second connection (by others) of truss to bear in the second connection (by others) of truss to bear in the second connection (by others) of truss to bear in the second connection (by others) of truss to bear in the second connection (by others) of truss to bear in the second connection (by others) of truss to be a second connection (by others) of truss to be a second connection (by others) of truss to be a second connection (by others) of truss to be a second connection (by others) of truss to be a second connection (by others) of truss to be a second connection (by others) of truss to be a second connection (by others) of truss to be a second connection (by others) of truss to be a second

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1/21/2025

Job	Truss	Truss Type	Qty	Ply	LOT 149 PROVIDENCE CREEK   FUQUAY-VARINA, NC
25-0637-R01	R10	Common Supported Gable	1	1	Job Reference (optional) # 56214

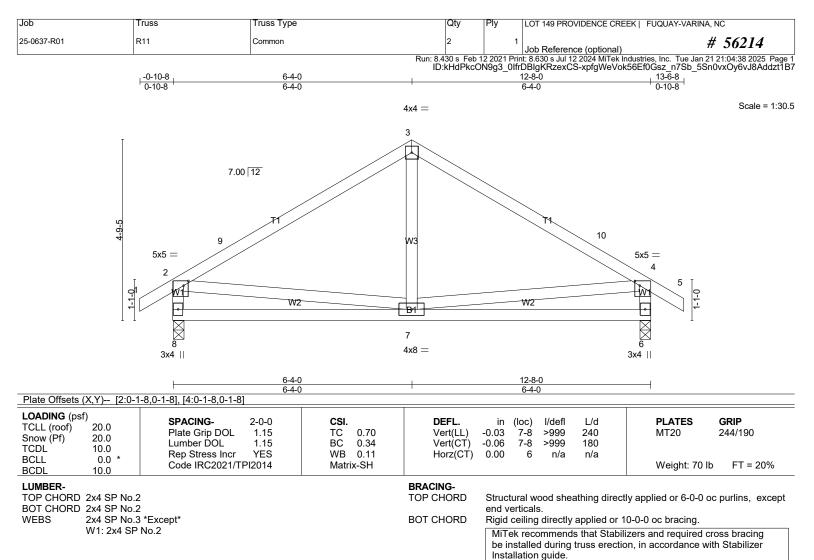
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- 14) Graphical bracing representation does not depict the size, type or the orientation of the brace on the member. Symbol only indicates that the member must be braced.
- 15) Bearing symbols are only graphical representations of a possible bearing condition. Bearing symbols are not considered in the structural design of the truss to support the
- 16) Web bracing shown is for lateral support of individual web members only. Refer to BCSI Guide to Good Practice for Handling, Installing, Restraining & Bracing of Metal Plate Connected Wood Trusses for additional bracing guidelines, including diagonal bracing.

  17) SEE BCSI-B3 SUMMARY SHEET- PERMANENT RESTRAING/BRACING OF CHORDS & WEB MEMBERS FOR RECOMMENDED MINIMUM BRACING REQUIREMENTS
- OF TOP CHORD, BOTTOM CHORD, AND WEB PLANES. IN ADDITION TO THESE MINIMUM GUIDELINES, ALWAYS CONSULT THE PROJECT ARCHITECT OR ENGINEER FOR ADDITIONAL BRACING CONSIDERATIONS.

LOAD CASE(S) Standard





REACTIONS. (lb/size) 8=556/0-3-8 (min. 0-1-8), 6=556/0-3-8 (min. 0-1-8)

Max Horz 8=120(LC 13)

Max Uplift8=-76(LC 14), 6=-76(LC 15) Max Grav 8=632(LC 21), 6=632(LC 22)

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

2-9=-597/83, 3-9=-454/111, 3-10=-454/111, 4-10=-597/83, 2-8=-577/160, 4-6=-577/157 TOP CHORD

**BOT CHORD** 7-8=-148/368, 6-7=-112/368 WEBS 2-7=-47/272, 4-7=-51/272

(9-12)

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

- 2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=5.0psf; BCDL=5.0psf; h=35ft; Cat. II; Exp B; Enclosed; Gable Roof; Common Truss; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 3-11-2, Exterior(2R) 3-11-2 to 8-8-14, Exterior(2E) 8-8-14 to 13-6-8 zone; 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); Pf=20.0 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 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a 10.0 pst bottom chord live load nonconcurrent with any other live loads.

  \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members.

  Provide mechanical connection (by others) of truss to booring plate and the country of trust of trust
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 8, 6.

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Continued on page 2 1/21/2025

Job	Truss	Truss Type	Qty	Ply	LOT 149 PROVIDENCE CREEK   FUQUAY-VARINA, NO	5
25-0637-R01	R11	Common	2	1	Job Reference (optional) #	56214

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- 9) Graphical bracing representation does not depict the size, type or the orientation of the brace on the member. Symbol only indicates that the member must be braced.
- 10) Bearing symbols are only graphical representations of a possible bearing condition. Bearing symbols are not considered in the structural design of the truss to support the
- 11) Web bracing shown is for lateral support of individual web members only. Refer to BCSI Guide to Good Practice for Handling, Installing, Restraining & Bracing of Metal Plate Connected Wood Trusses for additional bracing guidelines, including diagonal bracing.

  12) SEE BCSI-B3 SUMMARY SHEET- PERMANENT RESTRAING/BRACING OF CHORDS & WEB MEMBERS FOR RECOMMENDED MINIMUM BRACING REQUIREMENTS
- OF TOP CHORD, BOTTOM CHORD, AND WEB PLANES. IN ADDITION TO THESE MINIMUM GUIDELINES, ALWAYS CONSULT THE PROJECT ARCHITECT OR ENGINEER FOR ADDITIONAL BRACING CONSIDERATIONS.

LOAD CASE(S) Standard



Job Truss Truss Type Qtv LOT 149 PROVIDENCE CREEK | FUQUAY-VARINA, NC 25-0637-R01 R12 Common Girder # 56214 Job Reference (optional) Run: 8.430 s Feb 12 2021 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Tue Jan 21 21:04:39 2025 Page 1 ID:kHdPkcON9g3\_0lfrDBlgKRzexCS-P?D3j\_WQUPE5G9r2WhJM\_oWJdBHJgn0F8zuk94zt1B6 13-6-8 0-10-8 -0-10-8 9-4-4 12-8-0 3-3-12 3-0-4 0-10-8 3-3-12 Scale = 1:31.5 4x4 = 5 7.00 12 3x6 // 3x6 > 6 4x4 / 7 4x4 < 3 W2 1HW1 HW1 9 13 14 15 16 12 10 11 6x8 II HTU266x8 ∏ HTU26 HTU26 2x4 || 3x8 =2x4 || HTU26 HTU26 HTU26 12-8-0 3-0-4 LOADING (psf) SPACING-**PLATES** GRIP 2-0-0 CSI. DEFL. in (loc) I/defl L/d 20.0 TCLL (roof) Plate Grip DOL 1.15 TC 0.48 Vert(LL) -0.03 10-11 >999 240 MT20 244/190 Snow (Pf) 20.0 -0.05 10-11 Lumber DOL ВС 0.65 Vert(CT) >999 1.15 180 TCDI 10.0 Rep Stress Incr NO WB 0.38 Horz(CT) 0.01 8 n/a n/a BCLL 0.0 Code IRC2021/TPI2014 Matrix-SH Weight: 175 lb FT = 20% BCDI 10.0 LUMBER-**BRACING-**TOP CHORD 2x4 SP No.2 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins. BOT CHORD 2x6 SP No.2 **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc bracing. 2x4 SP No 3 WFBS Left 2x6 SP No.2 1-11-12, Right 2x6 SP No.2 1-11-12 SLIDER REACTIONS. (lb/size) 2=2072/0-3-8 (min. 0-1-8), 8=2695/0-3-8 (min. 0-1-10)

Max Horz 2=95(LC 9)

Max Uplift2=-389(LC 12), 8=-376(LC 13) Max Grav 2=2149(LC 19), 8=2772(LC 20)

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

TOP CHORD 2-3=-2695/463, 3-4=-2652/486, 4-5=-2187/415, 5-6=-2185/415, 6-7=-3111/472,

7-8=-3141/450

2-13=-402/2148, 12-13=-402/2148, 12-14=-402/2148, 11-14=-402/2148, 11-15=-336/2536,

10-15=-336/2536, 10-16=-336/2536, 8-16=-336/2536

**WEBS** 5-11=-340/1837, 6-11=-887/130, 6-10=-95/1081, 4-11=-374/146, 4-12=-109/494

NOTES-

BOT CHORD

1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:

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

Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 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=120mph (3-second gust) Vasd=95mph; TCDL=5.0psf; BCDL=5.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60

RTH CARO 5) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 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 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.

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

- \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fix between the bottom chord and any other members.
- between the bottom cnoru and any sollow.

  10) Provide mechanical connection (by others) of truss to bearing plate capable of with seasons.

  8=376.

  11) Use Simpson Strong-Tie HTU26 (10-16d Girder, 14-10dx1 1/2 Truss) or equivalent spaced at 2-0-0 oc max. starting at 2-0-12 from the seasons of the seasons of the seasons.

  11) Use Simpson Strong-Tie HTU26 (10-16d Girder, 14-10dx1 1/2 Truss) or equivalent spaced at 2-0-0 oc max. starting at 2-0-12 from the seasons of th

Continued on page 2 1/21/2025

Job	Truss	Truss Type	Qty	Ply	LOT 149 PROVIDENCE CREEK   FUQUAY-VARINA, NC	
25-0637-R01	R12	Common Girder	1	2	Job Reference (optional) # 56	214

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- 13) Graphical bracing representation does not depict the size, type or the orientation of the brace on the member. Symbol only indicates that the member must be braced.
- 14) Bearing symbols are only graphical representations of a possible bearing condition. Bearing symbols are not considered in the structural design of the truss to support the loads indicated.
- 15) Web bracing shown is for lateral support of individual web members only. Refer to BCSI Guide to Good Practice for Handling, Installing, Restraining & Bracing of Metal Plate Connected Wood Trusses for additional bracing guidelines, including diagonal bracing.

  16) SEE BCSI-B3 SUMMARY SHEET- PERMANENT RESTRAING/BRACING OF CHORDS & WEB MEMBERS FOR RECOMMENDED MINIMUM BRACING REQUIREMENTS
- OF TOP CHORD, BOTTOM CHORD, AND WEB PLANES. IN ADDITION TO THESE MINIMUM GUIDELINES, ALWAYS CONSULT THE PROJECT ARCHITECT OR ENGINEER FOR ADDITIONAL BRACING CONSIDERATIONS.

# LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-5=-60, 5-9=-60, 2-8=-20

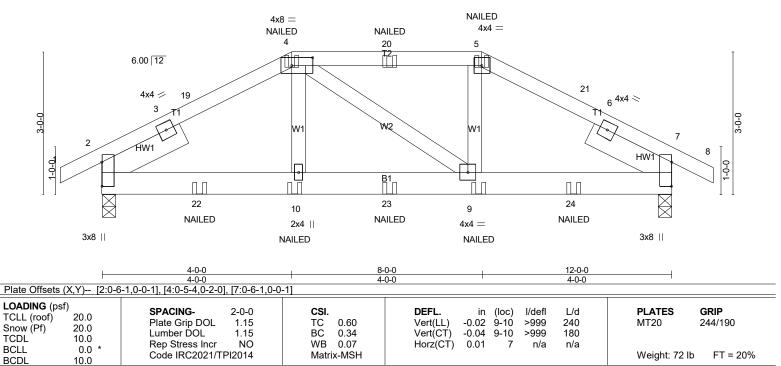
Concentrated Loads (lb)

Vert: 11=-516(B) 10=-791(B) 13=-516(B) 14=-516(B) 15=-516(B) 16=-791(B)



Job Truss Truss Type LOT 149 PROVIDENCE CREEK | FUQUAY-VARINA, NC 25-0637-R01 SP01 Hip Girde # 56214 Job Reference (optional) Run: 8.430 s Feb 12 2021 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Tue Jan 21 21:04:40 2025 Page 1 ID:97bQtTowZ8dTuLxBq9ksq7zUUzD-tCnRwKX2FjMyuJQF4PqbX03SUbiUPI1PMddHhWzt1B5 -0-10-8 12-10-8 4-0-0 8-0-0 12-0-0 0-10-8 0-10-8 <u>4-0-0</u> 4-0-0 4-0-0

Scale = 1:24.3



BRACING-

TOP CHORD **BOT CHORD**  Structural wood sheathing directly applied or 4-10-14 oc purlins.

MiTek recommends that Stabilizers and required cross bracing

be installed during truss erection, in accordance with Stabilizer

NOINEE

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

Installation guide.

LUMBER-

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

SLIDER Left 2x6 SP No.2 1-11-0, Right 2x6 SP No.2 1-11-0

REACTIONS. (lb/size) 2=916/0-3-8 (min. 0-1-8), 7=918/0-3-8 (min. 0-1-8)

Max Horz 2=36(LC 16)

Max Uplift2=-286(LC 9), 7=-287(LC 8) Max Grav 2=1074(LC 37), 7=1075(LC 37)

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

TOP CHORD 2-3=-364/178. 3-19=-1213/389. 4-19=-1105/377. 4-20=-991/351. 5-20=-991/351.

5-21=-1105/377, 6-21=-1214/389, 6-7=-366/179

BOT CHORD 2-22=-319/986, 10-22=-319/986, 10-23=-322/992, 9-23=-322/992, 9-24=-301/985,

7-24=-301/985

NOTES-

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

- 2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=5.0psf; BCDL=5.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; porch left and right exposed; 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); Pf=20.0 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 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
- 6) Provide adequate drainage to prevent water ponding.
- 2.7. This truss has been designed for a 10.0 pst bottom chord live load nonconcurrent with any other live loads.

  8) \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members.

  9) Provide mechanical connection (by others) of trust in the second connection (b
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=286
- 10) "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidlines.
- 11) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 141 lb down and 53 lb up at 2-60, and 141 lb down and 53 lb up at 10-0-0 on top chord. The design/selection of such connection device(s) is the responsibility of others.

12) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

Continued on page 2 1/21/2025

MORRIS TO THE TOTAL OF THE TOTA Warning !--Verify design parameters and read notes before use. This design is based only upon parameters shown, and is for an individual building component to be installed and loaded vertically. Applicability of design parameters and proper incorporation of component is responsibility of building designer - not truss designer or truss engineer. Bracing shown is for lateral support of individual web members only. Additional temporary bracing to ensure stability during construction is the responsibility of the erector. Additional permanent bracing of the overall structure is the responsibility of the building designer. For general guidance regarding fabrication, quality control, storage, delivery, erection and bracing, consult ANSI/TPI 1 National Design Standard for Metal Plate Connected Wood Truss Construction and BCSI 1-03 Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses from Truss Plate Institute, 583 D'Onofrio Drive, Madison, WI 53719.

Job	Truss	Truss Type	Qty	Ply	LOT 149 PROVIDENCE CREEK   FUQUAY-VARINA, NC	
25-0637-R01	SP01	Hip Girder	1	1	Job Reference (optional) # 56214	1

Run: 8.430 s Feb 12 2021 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Tue Jan 21 21:04:40 2025 Page 2 ID:97bQtTowZ8dTuLxBq9ksq7zUUzD-tCnRwKX2FjMyuJQF4PqbX03SUbiUPI1PMddHhWzt1B5

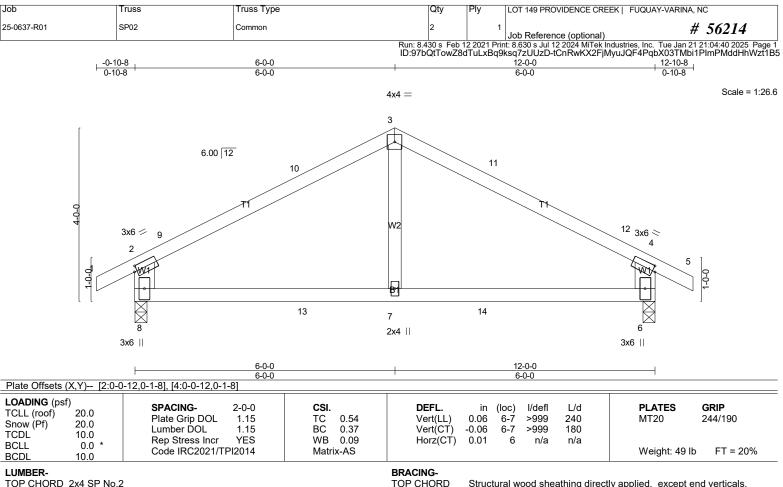
LOAD CASE(S) Standard

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

Vert: 1-4=-60, 4-5=-60, 5-8=-60, 11-15=-20 Concentrated Loads (lb)

Vert: 4=-94(B) 5=-94(B) 10=-27(B) 9=-27(B) 19=-139(F) 20=-94(B) 21=-139(F) 22=-64(B) 23=-27(B) 24=-64(B)





**BOT CHORD** 

TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No.2 2x6 SP No.2 \*Except\* WFBS

W2: 2x4 SP No.3

REACTIONS. (lb/size) 8=528/0-3-8 (min. 0-1-8), 6=528/0-3-8 (min. 0-1-8)

Max Horz 8=63(LC 13)

Max Uplift8=-85(LC 11), 6=-85(LC 10) Max Grav 8=612(LC 21), 6=612(LC 22)

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

TOP CHORD 2-9=-568/596, 9-10=-496/596, 3-10=-424/619, 3-11=-424/618, 11-12=-496/595,

4-12=-568/595, 2-8=-551/483, 4-6=-551/481

BOT CHORD 8-13=-381/393, 7-13=-381/393, 7-14=-381/393, 6-14=-381/393

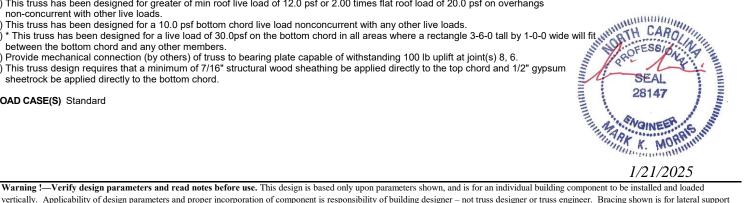
**WEBS** 3-7=-330/220

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

- 2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=5.0psf; BCDL=5.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3E) -0-10-8 to 3-11-2, Corner(3R) 3-11-2 to 8-0-14, Corner(3E) 8-0-14 to 12-10-8 zone; cantilever left and right exposed; end vertical left and right exposed; porch 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); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); 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 2.00 times flat roof load of 20.0 psf on overhangs
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- 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 design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum

LOAD CASE(S) Standard



Structural wood sheathing directly applied, except end verticals.

MiTek recommends that Stabilizers and required cross bracing

be installed during truss erection, in accordance with Stabilizer

Rigid ceiling directly applied.

Installation guide.

1/21/2025

Job Truss Truss Type LOT 149 PROVIDENCE CREEK | FUQUAY-VARINA, NC 25-0637-R01 SPJ01 Jack-Open # 56214 Job Reference (optional) Run: 8.430 s Feb 12 2021 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Tue Jan 21 21:04:41 2025 Page 1 ID:97bQtTowZ8dTuLxBq9ksq7zUUzD-LOKp8gYg00UpWT?Re6Lq4Dck4?6v8mRYbHNqEyzt1B4 -0-10-8 2-0-0 0-10-8 Scale = 1:13.1 6.00 12 2x4 II T1 2 2-0-0 1-0-0 В1 4

LUMBER-

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

BRACING-

2-0-0

TOP CHORD

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

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

> MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) 5=152/0-3-8 (min. 0-1-8), 3=41/Mechanical, 4=16/Mechanical Max Horz 5=41(LC 11)

Max Uplift5=-15(LC 14), 3=-31(LC 14), 4=-13(LC 11) Max Grav 5=208(LC 21), 3=57(LC 21), 4=34(LC 7)

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

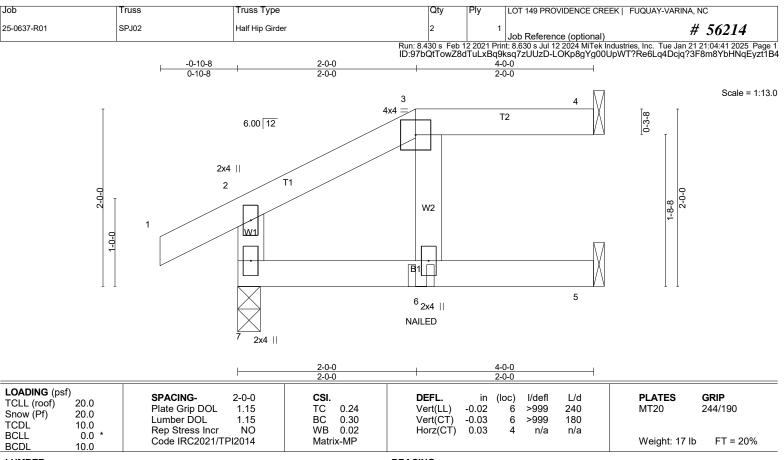
NOTES-

- 1) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=5.0psf; BCDL=5.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) zone; cantilever left and right exposed; end vertical left and right exposed; porch left 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); Pf=20.0 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 2.00 times flat roof load of 20.0 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.
- \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members.
- 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) 5, 3, 4.

LOAD CASE(S) Standard



1/21/2025



LUMBER-

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

**BRACING-**

TOP CHORD

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

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

> MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS.** (lb/size) 4=96/Mechanical, 7=250/0-3-0 (min. 0-1-8), 5=75/Mechanical

Max Horz 7=42(LC 9)

Max Uplift4=-41(LC 9), 7=-51(LC 9), 5=-33(LC 9) Max Grav 4=139(LC 33), 7=343(LC 34), 5=84(LC 33)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-7=-265/45

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=5.0psf; BCDL=5.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; porch left exposed; 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); Pf=20.0 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 2.00 times flat roof load of 20.0 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 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members.

- INAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidlines.

  12) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 63 lb down and 22 lb up at 2-0-0 on top chord. The design/selection of such connection device(s) is the responsibility of others.

  13) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (P)

### LOAD CASE(S) Standard

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

Vert: 1-2=-60, 2-3=-60, 3-4=-60, 5-7=-20

Continued on page 2



1/21/2025

Job	Truss	Truss Type	Qty	Ply	LOT 149 PROVIDENCE CREEK   FUQUAY	Y-VARINA, NC
25-0637-R01	SPJ02	Half Hip Girder	2	1	Job Reference (optional)	# 56214

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LOAD CASE(S) Standard Concentrated Loads (lb) Vert: 3=-57(F) 6=0(F)



1/21/2025

.lob Truss Truss Type LOT 149 PROVIDENCE CREEK | FUQUAY-VARINA, NC 25-0637-R01 SPJ03 Jack-Open # 56214 Job Reference (optional) Run: 8.430 s Feb 12 2021 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Tue Jan 21 21:04:41 2025 Page 1 ID:97bQtTowZ8dTuLxBq9ksq7zUUzD-LOKp8gYg00UpWT?Re6Lq4Dcha?498mRYbHNqEyzt1B4 -0-10-8 0-10-8 Scale = 1:18.1 6.00 12 2-7-5 2x4 || 2 W1 1-0-0 B1 4 2x4 || LOADING (psf) CSI. L/d

Snow (Pf) 20.0 **TCDL** 10.0 BCLL 0.0 BCDI 10.0

SPACING-2-0-0 20.0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2021/TPI2014

0.32 0.24 0.00 Matrix-MR

TC

ВС

WB

DEFL. in (loc) I/defl Vert(LL) 0.04 4-5 >999 Vert(CT) 0.03 >999 4-5 Horz(CT) -0.033 n/a

**PLATES** MT20

GRIP 244/190

Weight: 15 lb FT = 20%

LUMBER-

TCLL (roof)

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

**BRACING-**

TOP CHORD **BOT CHORD**  Structural wood sheathing directly applied or 4-0-0 oc purlins, except

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

240

180

n/a

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) 5=221/0-3-0 (min. 0-1-8), 3=101/Mechanical, 4=43/Mechanical

Max Horz 5=71(LC 14) Max Uplift5=-20(LC 11), 3=-60(LC 14), 4=-19(LC 11) Max Grav 5=322(LC 21), 3=154(LC 21), 4=72(LC 7)

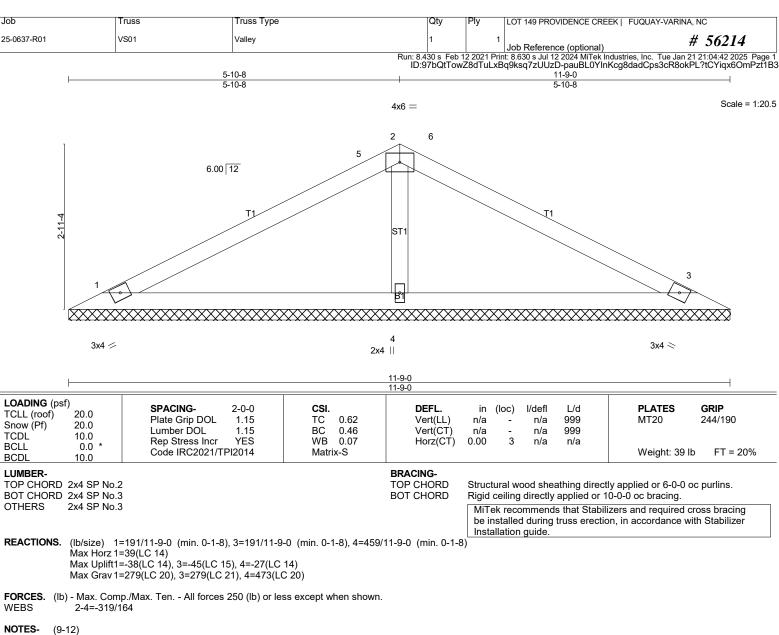
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-5=-293/121

- 1) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=5.0psf; BCDL=5.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed; porch left 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); Pf=20.0 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 2.00 times flat roof load of 20.0 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 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members.
- 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) 5, 3, 4.

LOAD CASE(S) Standard



1/21/2025



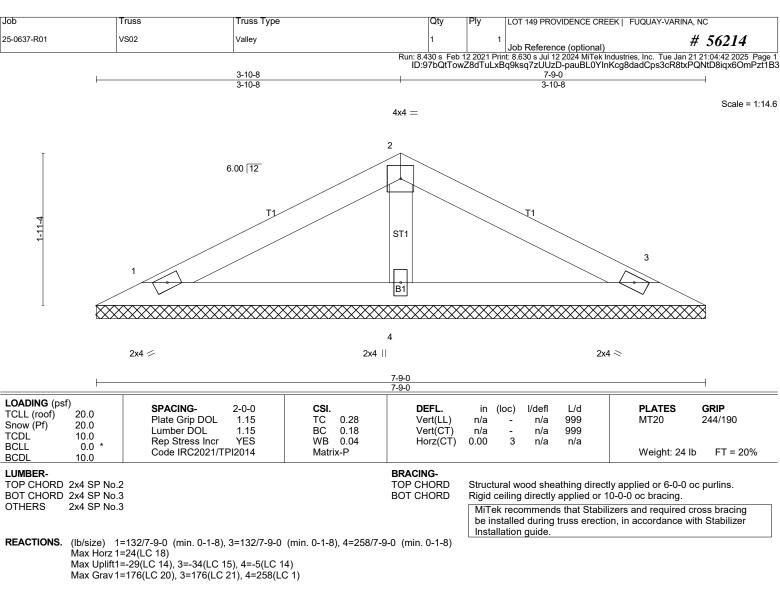
- 1) Unbalanced roof live loads have been considered for this design.
  2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=5.0psf; BCDL=5.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-7-7 to 5-5-0, Exterior(2R) 5-5-0 to 6-4-0, Exterior(2E) 6-4-0 to 11-1-9 zone; cantilever left and right exposed; end vertical left and right exposed; porch 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); Pf=20.0 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 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 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, 4. 9) Graphical bracing representation does not depict the size, type or the orientation of the brace on the member. Symbol only indicates that
- the member must be braced. 10) Bearing symbols are only graphical representations of a possible bearing condition. Bearing symbols are not considered in the
- 11) Web bracing shown is for lateral support of individual web members only. Refer to BCSI Guide to Good Practice for Handling,
- Web bracing shown is for lateral support of individual web members only. Refer to BCSI Guide to Good Practice for Handling, Installing, Restraining & Bracing of Metal Plate Connected Wood Trusses for additional bracing guidelines, including diagonal bracing. SEE BCSI-B3 SUMMARY SHEET- PERMANENT RESTRAING/BRACING OF CHORDS & WEB MEMBERS FOR RECOMMENDED.

  MINIMUM BRACING REQUIREMENTS OF TOP CHORD, BOTTOM CHORD, AND WEB PLANES IN ADDITIONAL CONSIDERATIONS. 12) SEE BCSI-B3 SUMMARY SHEET- PERMANENT RESTRAING/BRACING OF CHORDS & WEB MEMBERS FOR RECOMMENDED

LOAD CASE(S) Standard

MORRES TANA K. MORR 1/21/2025

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

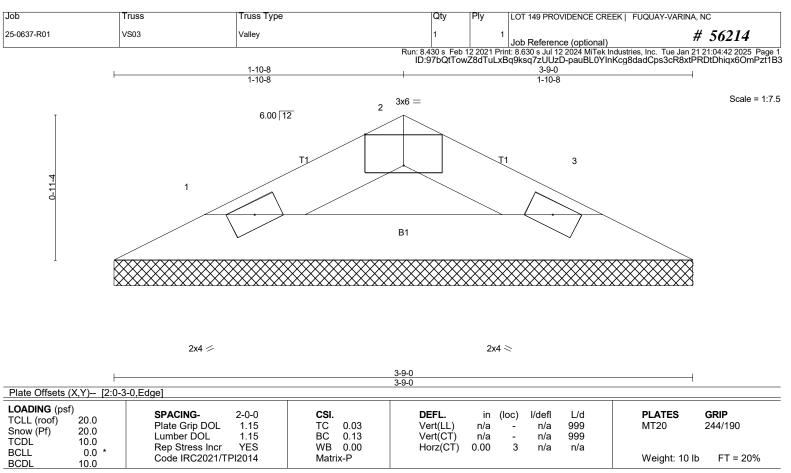
### NOTES-(9-12)

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=5.0psf; BCDL=5.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed; porch 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); Pf=20.0 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 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 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, 4.
- 9) Graphical bracing representation does not depict the size, type or the orientation of the brace on the member. Symbol only indicates that the member must be braced.
- 10) Bearing symbols are only graphical representations of a possible bearing condition. Bearing symbols are not considered in the
- Installing, Restraining & Bracing of Metal Plate Connected Wood Trusses for additional bracing guidelines, including diagonal bracing 22 SEE BCSI-B3 SUMMARY SHEET- PERMANENT RESTRAING/BRACING OF CHORDS & WEB MEMBERS FOR RECOMMENDED MINIMUM BRACING REQUIREMENTS OF TOP CHORD, BOTTOM CHORD, AND WEB PLANES. IN ADDITION TO THESE CONSIDERATIONS CONSIDERATIONS.

LOAD CASE(S) Standard



1/21/2025



LUMBER-

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

# BRACING-

TOP CHORD **BOT CHORD**  Structural wood sheathing directly applied or 3-9-0 oc purlins. Rigid ceiling directly applied or 10-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) 1=101/3-9-0 (min. 0-1-8), 3=101/3-9-0 (min. 0-1-8)

Max Horz 1=9(LC 14)

Max Uplift1=-12(LC 14), 3=-12(LC 15) Max Grav 1=108(LC 20), 3=108(LC 21)

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

NOTES-(9-12)

- 1) Unbalanced roof live loads have been considered for this design.
  2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=5.0psf; BCDL=5.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed; porch 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); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 4) Unbalanced snow loads have been considered for this design.
- 5) Gable requires continuous bottom chord bearing.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 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) Graphical bracing representation does not depict the size, type or the orientation of the brace on the member. Symbol only indicates that the member must be braced.
- 10) Bearing symbols are only graphical representations of a possible bearing condition. Bearing symbols are not considered in the
- web pracing shown is for lateral support the loads indicated.

  web pracing shown is for lateral support of individual web members only. Refer to BCSI Guide to Good Practice for Handling, Installing, Restraining & Bracing of Metal Plate Connected Wood Trusses for additional bracing guidelines, including diagonal bracing SEE BCSI-B3 SUMMARY SHEET- PERMANENT RESTRAING/BRACING OF CHORDS & WEB MEMBERS FOR RECOMMENDED MINIMUM BRACING REQUIREMENTS OF TOP CHORD, BOTTOM CHORD, AND WER PLANES TO STATE OF THE BROTEST THE BROT 12) SEE BČŠI-B3 SUMMARY SHEET- PERMANENT RESTRAING/BRACING OF CHORDS & WEB MEMBERS FOR ŘECŎMMENDED CONSIDERATIONS.

LOAD CASE(S) Standard

MORRES and NOINE K. MORR

1/21/2025

.lob Truss Truss Type LOT 149 PROVIDENCE CREEK | FUQUAY-VARINA, NC VT01 25-0637-R01 Valley # 56214 Job Reference (optional) 30 s Feb 12 2021 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Tue Jan 21 21:04:43 2025 Page 1 ID:kHdPkcON9g3\_0lfrDBlgKRzexCS-HmSZZMZwYekXln9qlXNl9eh0uojtcfCr2bsxlrzt1B2 9-9-9 19-7-2 9\_9\_9 9\_9\_9 Scale = 1:37.3 4x4 = 3 7.00 12 2x4 || 2x4 || 4 Ţ1 10 9 T1 5 3x4 < 3x4 / 8 11 12 6 5x5 = 2x4 II 2x4 II 1<u>9-7-2</u> Plate Offsets (X,Y)-- [7:0-2-8,0-3-0] LOADING (psf) SPACING-2-0-0 CSI DEFL. I/defl L/d **PLATES GRIP** TCLL (roof) 20.0 Plate Grip DOL 1.15 TC 0.40 Vert(LL) MT20 244/190 n/a n/a 999 Snow (Pf) 20.0 Lumber DOL 1.15 BC 0.36 Vert(CT) n/a n/a 999 TCDL 10.0 Rep Stress Incr WB 0.11 Horz(CT) 0.00 n/a n/a BCLL 0.0 Code IRC2021/TPI2014 Matrix-SH Weight: 77 lb FT = 20%BCDL 10.0 LUMBER-BRACING-Structural wood sheathing directly applied or 6-0-0 oc purlins. TOP CHORD 2x4 SP No.2 TOP CHORD **BOT CHORD** BOT CHORD 2x4 SP No 3 Rigid ceiling directly applied or 10-0-0 oc bracing. 2x4 SP No.3 **OTHERS** MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer

Installation guide.

REACTIONS. All bearings 19-7-2

(lb) - Max Horz 1=-119(LC 10)

Max Uplift All uplift 100 lb or less at joint(s) 1, 5 except 8=-153(LC 14), 6=-153(LC 15)

Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 7=388(LC 6), 8=567(LC 20), 6=567(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. 2-8=-438/189. 4-6=-438/189 WFBS

NOTES-

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

- 2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=5.0psf; BCDL=5.0psf; h=35ft; Cat. II; Exp B; Enclosed; Gable Roof; Common Truss; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-6-8 to 5-4-1, Exterior(2R) 5-4-1 to 14-3-1, Exterior(2E) 14-3-1 to 19-0-11 zone; 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); Pf=20.0 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 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 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) 1, 5 except (jt=lb)

- o=153, b=153.

  9) Graphical bracing representation does not depict the size, type or the orientation of the brace on the member. Symbol only indicates that the member must be braced.

  10) Bearing symbols are only graphical representations of a possible bearing condition. Bearing symbols are not considered in the structural design of the truss to support the loads indicated.

  11) Web bracing shown is for lateral support of individual web members only. Refer to BCSI Guide to Good Practice for Handling, Installing, Restraining & Bracing of Metal Plate Connected Wood Trusses for additional bracing suideling. Installing, Restraining & Bracing of Metal Plate Connected Wood Trusses for additional bracing guidelines, including diagonal bracing.

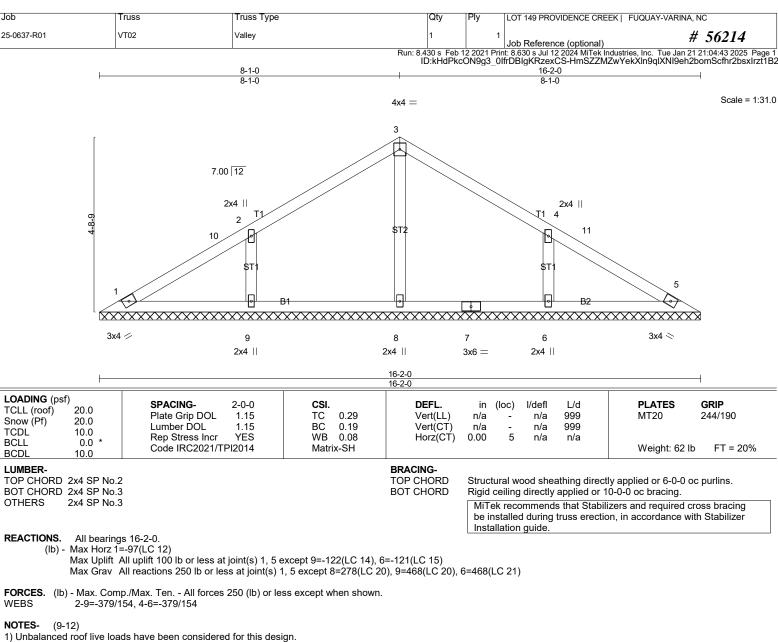
  12) SEE BCSI-B3 SUMMARY SHEET- PERMANENT RESTRAING/BRACING OF CHORDS & WEB MEMBERS FOR RECOMMENDED.
- MINIMUM BRACING REQUIREMENTS OF TOP CHORD, BOTTOM CHORD, AND WEB PLANES. IN ADDITION TO THESE MINIMUM GUIDELINES, ALWAYS CONSULT THE PROJECT ARCHITECT OR ENGINEER FOR ADDITIONAL BRACING CONSIDERATIONS.

LOAD CASE(S) Standard

1/21/2025

NOINE

WOINE MORRI



2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=5.0psf; BCDL=5.0psf; h=35ft; Cat. II; Exp B; Enclosed; Gable Roof; Common Truss; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-6-8 to 5-4-1, Exterior(2R) 5-4-1 to 10-9-15, Exterior(2E) 10-9-15 to 15-7-8 zone; 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); Pf=20.0 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 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members. ROFESE,

8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 5 except (jt=lb) 9=122, 6=121,

9) Graphical bracing representation does not depict the size, type or the orientation of the brace on the member. Symbol only indicates that the member must be braced. 10) Bearing symbols are only graphical representations of a possible bearing condition. Bearing symbols are not considered in the

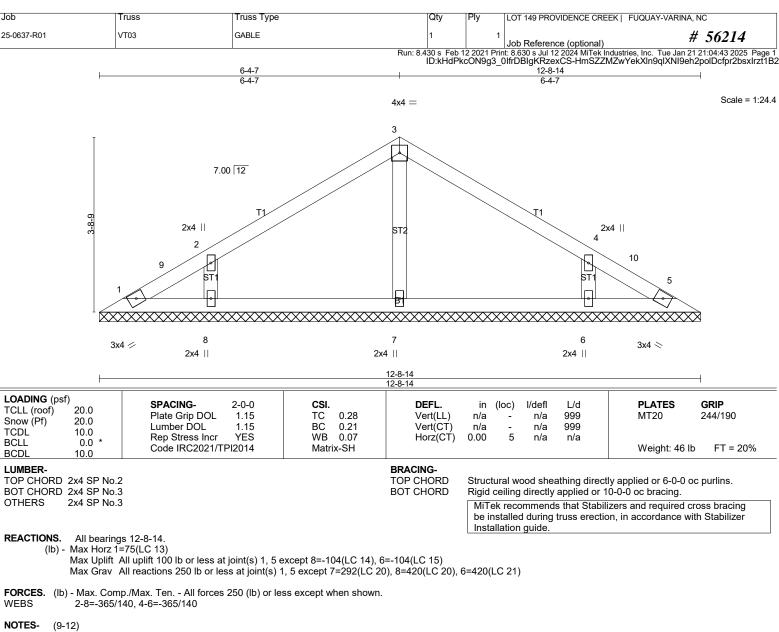
structural design of the truss to support the loads indicated. 11) Web bracing shown is for lateral support of individual web members only. Refer to BCSI - Guide to Good Practice for Handling,

Installing, Restraining & Bracing of Metal Plate Connected Wood Trusses for additional bracing guidelines, including diagonal bracing 12) SEE BČŠI-B3 SUMMĀRY SHĒĒT- PERMANENT RESTRAING/BRACING OF CHORDS & WĒB MEMBERS FOR ŘECŎMMENDE MINIMUM BRACING REQUIREMENTS OF TOP CHORD, BOTTOM CHORD, AND WEB PLANES. IN ADDITION TO THESE MINIMUM GUIDELINES, ALWAYS CONSULT THE PROJECT ARCHITECT OR ENGINEER FOR ADDITIONAL BRACING CONSIDERATIONS

LOAD CASE(S) Standard

1/21/2025

NOINE



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

- 2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=5.0psf; BCDL=5.0psf; h=35ft; Cat. II; Exp B; Enclosed; Gable Roof; Common Truss; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-6-8 to 5-4-1, Exterior(2R) 5-4-1 to 7-4-13, Exterior(2E) 7-4-13 to 12-2-6 zone; 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); Pf=20.0 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 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 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, 5 except (jt=lb) 8=104, 6=104,
- ROFESE, 9) Graphical bracing representation does not depict the size, type or the orientation of the brace on the member. Symbol only indicates that the member must be braced.
- 10) Bearing symbols are only graphical representations of a possible bearing condition. Bearing symbols are not considered in the structural design of the truss to support the loads indicated.
- 11) Web bracing shown is for lateral support of individual web members only. Refer to BCSI Guide to Good Practice for Handling, Installing, Restraining & Bracing of Metal Plate Connected Wood Trusses for additional bracing guidelines, including diagonal bracing 12) SEE BČŠI-B3 SUMMĀRY SHĒĒT- PERMANENT RESTRAING/BRACING OF CHORDS & WĒB MEMBERS FOR ŘECŎMMENDE MINIMUM BRACING REQUIREMENTS OF TOP CHORD, BOTTOM CHORD, AND WEB PLANES. IN ADDITION TO THESE MINIMUM GUIDELINES, ALWAYS CONSULT THE PROJECT ARCHITECT OR ENGINEER FOR ADDITIONAL BRACING

CONSIDERATIONS LOAD CASE(S) Standard

1/21/2025

WOINER

Truss Type .lob Truss LOT 149 PROVIDENCE CREEK | FUQUAY-VARINA, NC 25-0637-R01 VT04 Valley # 56214 Job Reference (optional) ın: 8.430 s Feb 12 2021 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Tue Jan 21 21:04:44 2025 Page 1 ID:kHdPkcON9g3\_0IfrDBlgKRzexCS-mz0ymiaYJxsONxk0JEuXhsECrC3mL7Q?HFbVrHzt1B1 9-3-11 4-7-14 Scale = 1:19.0 4x4 = 2 7.00 12 ST 3x4 // 3x4 < 2x4 || LOADING (psf) SPACING-DEFL. GRIP 2-0-0 CSI. in (loc) I/defl I/d **PLATES** TCLL (roof) 20.0 Plate Grip DOL 1.15 TC 0.32 Vert(LL) n/a n/a 999 MT20 244/190 Snow (Pf) 20.0 Lumber DOL ВС 0.38 Vert(CT) 999 1.15 n/a n/a TCDL 10.0 Rep Stress Incr YES WB 0.05 Horz(CT) 0.00 3 n/a n/a BCLL 0.0 Code IRC2021/TPI2014 Matrix-SH Weight: 31 lb FT = 20% BCDI 10.0 LUMBER-**BRACING-**TOP CHORD 2x4 SP No.2 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins. BOT CHORD 2x4 SP No.3 **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc bracing. 2x4 SP No 3 OTHERS MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide REACTIONS. (lb/size) 1=152/9-3-11 (min. 0-1-8), 3=152/9-3-11 (min. 0-1-8), 4=353/9-3-11 (min. 0-1-8) Max Horz 1=-53(LC 12) Max Uplift1=-28(LC 14), 3=-35(LC 15), 4=-23(LC 14) Max Grav 1=220(LC 20), 3=220(LC 21), 4=364(LC 21)

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

### NOTES-(9-12)

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=5.0psf; BCDL=5.0psf; h=35ft; Cat. II; Exp B; Enclosed; Gable Roof; Common Truss; MWFRS (envelope) gable end zone and C-C Exterior(2E) zone; 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); Pf=20.0 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 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 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, 4.
- 9) Graphical bracing representation does not depict the size, type or the orientation of the brace on the member. Symbol only indicates that the member must be braced.
- 10) Bearing symbols are only graphical representations of a possible bearing condition. Bearing symbols are not considered in the
- web pracing shown is for lateral support of individual web members only. Refer to BCSI Guide to Good Practice for Handling, Installing, Restraining & Bracing of Metal Plate Connected Wood Trusses for additional bracing guidelines, including diagonal bracing 12) SEE BCSI-B3 SUMMARY SHEET- PERMANENT RESTRAING/BRACING OF CHORDS & WEB MEMBERS FOR RECOMMENDED MINIMUM BRACING REQUIREMENTS OF TOP CHORD, BOTTOM CHORD, AND WEB PLANES. IN ADDITION TO THESE MINIMUM GUIDELINES, ALWAYS CONSULT THE PROJECT ARCHITECT OF ENGINEERATIONS

CONSIDERATIONS. LOAD CASE(S) Standard



1/21/2025

Truss Type .lob Truss LOT 149 PROVIDENCE CREEK | FUQUAY-VARINA, NC VT05 25-0637-R01 Valley # 56214 Job Reference (optional) Run: 8.430 s Feb 12 2021 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Tue Jan 21 21:04:44 2025 Page 1 ID:kHdPkcON9g3\_0lfrDBlgKRzexCS-mz0ymiaYJxsONxk0JEuXhsEFcC1vL7B?HFbVrHzt1B1 2-11-5 5-10-9 2-11-5 Scale = 1:13.3 3x6 =2 7.00 12 3 B1 2x4 < 2x4 / Plate Offsets (X,Y)-- [2:0-3-0,Edge] LOADING (psf) SPACING-2-0-0 CSI. DEFL. I/defl L/d **PLATES GRIP** 20.0 TCLL (roof) Plate Grip DOL 1.15 TC 0.14 Vert(LL) MT20 244/190 n/a n/a 999 Snow (Pf) 20.0 Lumber DOL 1.15 BC 0.50 Vert(CT) n/a n/a 999 TCDL 10.0 Rep Stress Incr WB 0.00 Horz(CT) 0.00 n/a n/a 0.0 \* BCLL Code IRC2021/TPI2014 Matrix-P Weight: 17 lb FT = 20%

LUMBER-

BCDL

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

10.0

# BRACING-

TOP CHORD **BOT CHORD**  Structural wood sheathing directly applied or 5-10-9 oc purlins. Rigid ceiling directly applied or 10-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) 1=192/5-10-9 (min. 0-1-8), 3=192/5-10-9 (min. 0-1-8)

Max Horz 1=31(LC 11)

Max Uplift1=-23(LC 14), 3=-23(LC 15) Max Grav 1=221(LC 20), 3=221(LC 21)

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

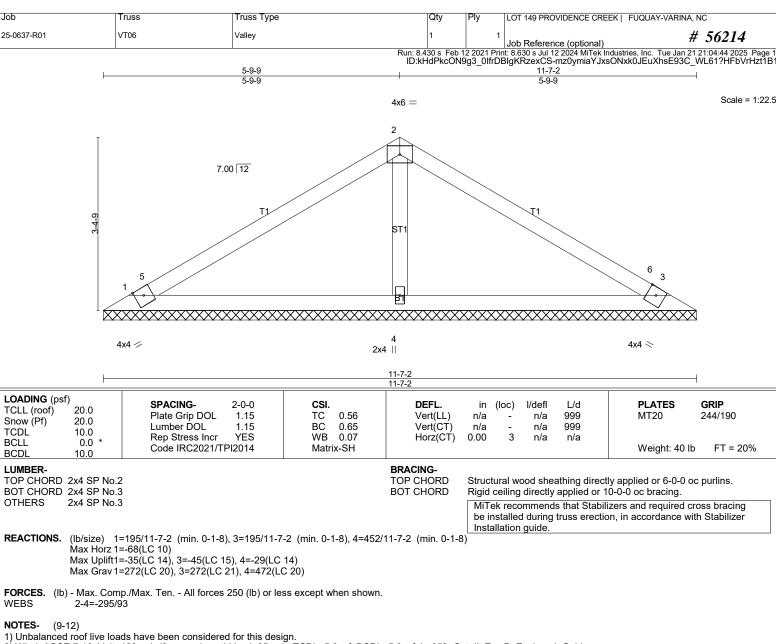
NOTES-(9-12)

- 1) Unbalanced roof live loads have been considered for this design.
  2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=5.0psf; BCDL=5.0psf; h=35ft; Cat. II; Exp B; Enclosed; Gable Roof; Common Truss; MWFRS (envelope) gable end zone and C-C Exterior(2E) zone; 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); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 4) Unbalanced snow loads have been considered for this design.
- 5) Gable requires continuous bottom chord bearing.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 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) Graphical bracing representation does not depict the size, type or the orientation of the brace on the member. Symbol only indicates that the member must be braced.
- 10) Bearing symbols are only graphical representations of a possible bearing condition. Bearing symbols are not considered in the
- vveo bracing shown is for lateral support of individual web members only. Refer to BCSI Guide to Good Practice for Handling, Installing, Restraining & Bracing of Metal Plate Connected Wood Trusses for additional bracing guidelines, including diagonal bracing SEE BCSI-B3 SUMMARY SHEET- PERMANENT RESTRAING/BRACING OF CHORDS & WEB MEMBERS FOR RECOMMENDED MINIMUM BRACING REQUIREMENTS OF TOP CHORD, BOTTOM CHORD, AND WER PLANES IN THE PROJECT ON SIDERATIONS. 12) SEE BČŠI-B3 SUMMARY SHEET- PERMANENT RESTRAING/BRACING OF CHORDS & WEB MEMBERS FOR ŘECŎMMENDED CONSIDERATIONS.

LOAD CASE(S) Standard



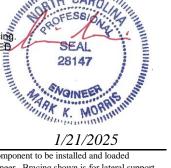
1/21/2025



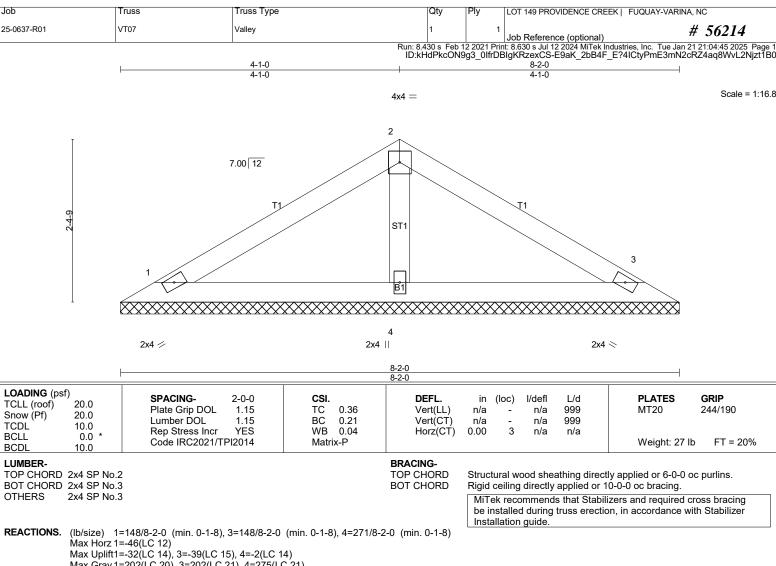
- 2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=5.0psf; BCDL=5.0psf; h=35ft; Cat. II; Exp B; Enclosed; Gable Roof; Common Truss; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-6-8 to 5-4-1, Exterior(2R) 5-4-1 to 6-3-1, Exterior(2E) 6-3-1 to 11-0-11 zone; end vertical left and 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); Pf=20.0 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 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 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, 4. 9) Graphical bracing representation does not depict the size, type or the orientation of the brace on the member. Symbol only indicates that
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- 12) SEE BCSI-B3 SUMMARY SHEET- PERMANENT RESTRAING/BRACING OF CHORDS & WEB MEMBERS FOR RECOMMENDED
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  MINIMUM BRACING REQUIREMENTS OF TOP CHORD, BOTTOM CHORD, AND WEB PLANES. IN ADDITIONAL CONSIDERATIONS.

LOAD CASE(S) Standard



1/21/2025



Max Grav 1=202(LC 20), 3=202(LC 21), 4=275(LC 21)

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

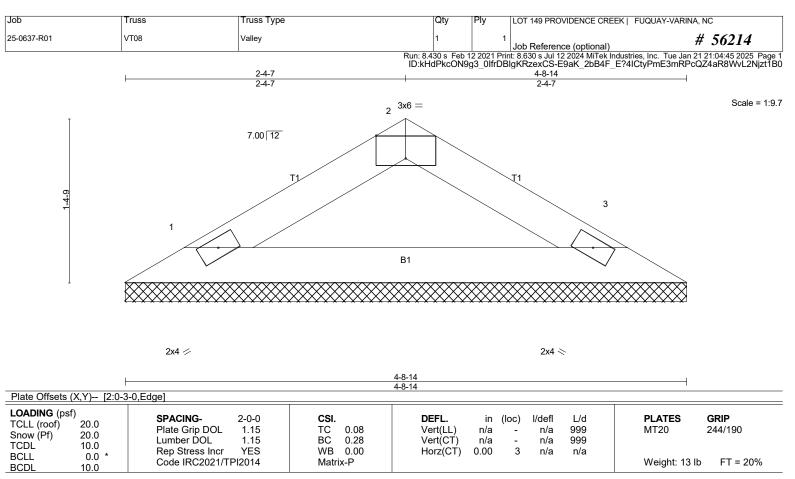
### NOTES-(9-12)

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=5.0psf; BCDL=5.0psf; h=35ft; Cat. II; Exp B; Enclosed; Gable Roof; Common Truss; MWFRS (envelope) gable end zone and C-C Exterior(2E) zone; 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); Pf=20.0 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 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 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, 4.
- 9) Graphical bracing representation does not depict the size, type or the orientation of the brace on the member. Symbol only indicates that the member must be braced.
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LOAD CASE(S) Standard



1/21/2025



LUMBER-

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

# BRACING-

TOP CHORD **BOT CHORD**  Structural wood sheathing directly applied or 4-8-14 oc purlins. Rigid ceiling directly applied or 10-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) 1=146/4-8-14 (min. 0-1-8), 3=146/4-8-14 (min. 0-1-8)

Max Horz 1=-24(LC 12)

Max Uplift1=-17(LC 14), 3=-17(LC 15) Max Grav 1=164(LC 20), 3=164(LC 21)

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

NOTES-(9-12)

- 1) Unbalanced roof live loads have been considered for this design.
  2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=5.0psf; BCDL=5.0psf; h=35ft; Cat. II; Exp B; Enclosed; Gable Roof; Common Truss; MWFRS (envelope) gable end zone and C-C Exterior(2E) zone; 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); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 4) Unbalanced snow loads have been considered for this design.
- 5) Gable requires continuous bottom chord bearing.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 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.
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LOAD CASE(S) Standard

MORRES and NOINE K. MORR

1/21/2025