# Mark Morris, P.E.

#126, 1317-M, Summerville, SC 29483 843 209-5784, Fax (866)-213-4614

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 #: 56258 JOB: 25-0641-R01

JOB NAME: LOT 117 PROVIDENCE CREEK

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

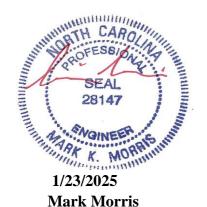
Mean Roof Height (feet): 35

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

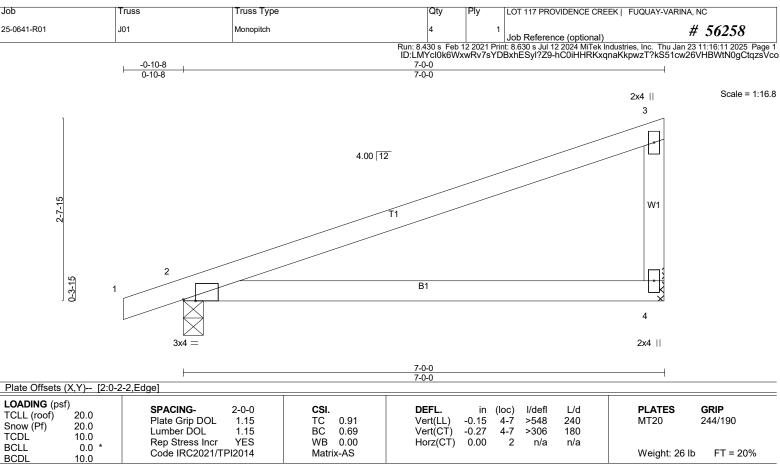
19 Truss Design(s)

### Trusses:

J01, J02, R01, R02, R03, R04, R05, R06, R07, R08, R09, R11, R12, SP01, SP02, V01, V02,



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



LUMBER-

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, except end verticals. Rigid ceiling directly applied.

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

**REACTIONS.** (lb/size) 4=271/Mechanical, 2=330/0-3-8 (min. 0-1-8)

Max Horz 2=92(LC 13)

Max Uplift4=-55(LC 14), 2=-77(LC 10) Max Grav 4=363(LC 21), 2=403(LC 21)

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

TOP CHORD 3-4=-264/155

- 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; 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 tes MANUEL CARO between the bottom chord and any other members.
- 7) Refer to girder(s) for truss to truss connections.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 2.
- 9) This truss 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.
- 10) 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.
- 11) 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.

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

  13) 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 & WEB MEMBERS FOR RECOMMENDED.

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

  16) SHEET SHE

LOAD CASE(S) Standard



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.lob Truss Truss Type LOT 117 PROVIDENCE CREEK | FUQUAY-VARINA, NC 25-0641-R01 J02 Monopitch # 56258 Job Reference (optional) Run: 8.430 s Feb 12 2021 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Thu Jan 23 11:16:11 2025 Page 1 ID:LMYcl0k6WxwRv7sYDBxhESyl?Z9-hC0iHHRKxqnaKkpwzT?kS51cj259HBWtN0gCtqzsVco 7-0-0 7-0-0 Scale = 1:16.8 2x4 || 2 4.00 12 W1 0-3-15 B1 3 2x4 || Plate Offsets (X,Y)-- [1:0-2-0,Edge] 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 0.92 Vert(LL) -0.15 3-6 >532 MT20 244/190 240 Snow (Pf) 20.0 Lumber DOL 1.15 BC 0.71 Vert(CT) -0.283-6 >299 180 TCDL 10.0 Rep Stress Incr WB 0.00 Horz(CT) 0.00 n/a n/a 0.0 \* BCLL Code IRC2021/TPI2014 Matrix-AS Weight: 25 lb FT = 20%BCDL 10.0

LUMBER-

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, except end verticals. Rigid ceiling directly applied.

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

REACTIONS. (lb/size) 1=274/0-3-8 (min. 0-1-8), 3=274/Mechanical

Max Horz 1=86(LC 13)

Max Uplift1=-43(LC 10), 3=-56(LC 14) Max Grav 1=347(LC 20), 3=366(LC 20)

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

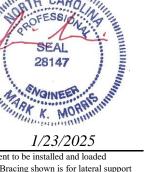
TOP CHORD 2-3=-266/157

NOTES-

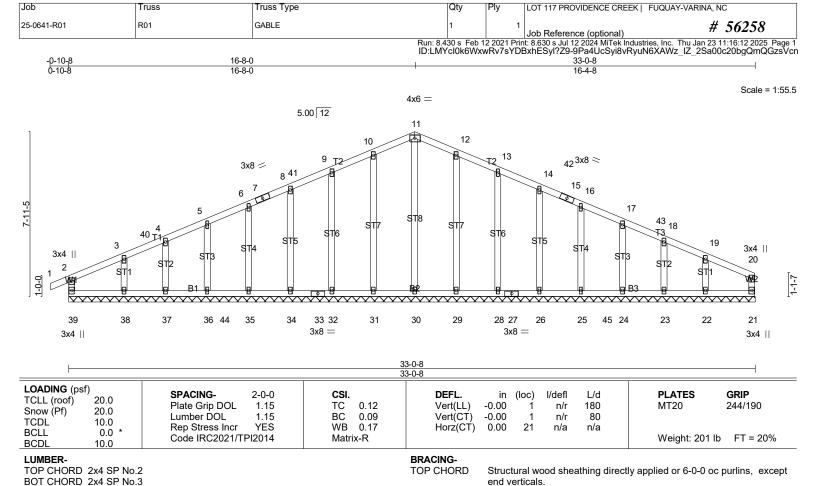
- 1) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=5.0psf; BCDL=5.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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.
- 6) Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.
- 8) 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.
- et RTH CARO 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



1/23/2025



BOT CHORD

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

Installation guide.

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

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REACTIONS. All bearings 33-0-8.

2x4 SP No 3

2x4 SP No.3

(lb) - Max Horz 39=94(LC 18)

Max Uplift All uplift 100 lb or less at joint(s) 39, 21, 31, 32, 34, 35, 36, 37, 38, 29, 28, 26, 25, 24, 23, 22 Max Grav All reactions 250 lb or less at joint(s) 39, 21, 34, 35, 36, 37, 38, 26, 25, 24, 23, 22 except 30=254(LC 27), 31=285(LC 5), 32=275(LC 5), 29=285(LC 6), 28=276(LC 6)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown TOP CHORD 9-10=-94/253, 10-11=-109/285, 11-12=-109/285, 12-13=-94/253

**NOTES-** (14-17)

WFBS

**OTHERS** 

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, Exterior(2N) 3-11-2 to 11-10-6, Corner(3R) 11-10-6 to 21-5-10, Exterior(2N) 21-5-10 to 28-1-2, Corner(3E) 28-1-2 to 32-10-12 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); 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) 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.

ROFESS OF ESS 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 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) 39, 21, 31, 32, 34 35 , 36, 37, 38, 29, 28, 26, 25, 24, 23, 22.

Continued on page 2 1/23/2025

MORRES INTERIOR TO SERVICE TO SER 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 117 PROVIDENCE CREEK   FUQUAY-VARINA, NC
25-0641-R01	R01	GABLE	1	1	Job Reference (optional) # 56258

Run: 8.430 s Feb 12 2021 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Thu Jan 23 11:16:12 2025 Page 2 ID:LMYcl0k6WxwRv7sYDBxhESyl?Z9-9Pa4UcSyi8vRyuN6XAWz\_IZ\_2Sa00c20bgQmQGzsVcn

- 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



Job Truss Truss Type Qtv LOT 117 PROVIDENCE CREEK | FUQUAY-VARINA, NC 25-0641-R01 R02 Common # 56258 Job Reference (optional) : 8.430 s Feb 12 2021 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Thu Jan 23 11:16:13 2025 Page 1 ID:LMYcl0k6WxwRv7sYDBxhESyl?Z9-db8TiyTaTR1IZ2yl5u1CXW6zhsmslxQAqK9JyjzsVcm Run: 8.430 s Feb 12 2021 Print: -0-10-8 0-10-8 16-8-0 25-0-5 33-0-8 8-3-12 8-0-3 Scale = 1:54.5 5x6 =5.00 12 5 3x8 = 18 20 3x8 < 4x4 </r> 4x4 < 6 7 3 21 5x8 < 5x5 = 8 1-1-7 W6 13 11 14 12 10 9 3x8 =3x8 =3x4 || 3x4 || 5x5 = 4x8 =5x5 =25-0-5 8-4-5 Plate Offsets (X,Y)-- [2:0-1-0,0-2-4] LOADING (psf) SPACING-2-0-0 CSI **DEFL** I/defl L/d **PLATES GRIP** (loc) 20.0 TCLL (roof) Plate Grip DOL 1.15 0.89 Vert(LL) -0.11 1Ò-1Ź >999 MT20 244/190 TC 240 Snow (Pf) 20.0 -0.28 10-12 Lumber DOL 1.15 BC 0.76 Vert(CT) >999 180 TCDL 10.0 Rep Stress Incr WB 0.68 Horz(CT) 0.07 n/a n/a 0.0 \* BCLL Code IRC2021/TPI2014 Matrix-AS Weight: 179 lb FT = 20% BCDL 10.0 LUMBER-BRACING-Structural wood sheathing directly applied, except end verticals. TOP CHORD 2x4 SP No.1 \*Except\* TOP CHORD **BOT CHORD** T1,T3: 2x4 SP No.2 Rigid ceiling directly applied. BOT CHORD 2x4 SP No.2 WFBS 1 Row at midpt 7-12 3-12 2x4 SP No.3 \*Except\* **WEBS** MiTek recommends that Stabilizers and required cross bracing W1,W7: 2x6 SP No.2 be installed during truss erection, in accordance with Stabilizer Installation guide REACTIONS. (lb/size) 15=1371/0-3-8 (min. 0-1-10), 9=1302/Mechanical Max Horz 15=93(LC 18) Max Uplift15=-184(LC 14), 9=-160(LC 15) FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

2-16=-2259/330, 3-16=-2165/347, 3-4=-1656/307, 4-17=-1593/314, 17-18=-1574/317, TOP CHORD

5-18=-1556/335, 5-19=-1556/336, 19-20=-1575/317, 6-20=-1593/314, 6-7=-1657/307,

7-21=-2044/349, 8-21=-2206/333, 2-15=-1288/275. 8-9=-1222/226

**BOT CHORD** 14-15=-207/535, 13-14=-274/1998, 12-13=-274/1998, 11-12=-229/1958, 10-11=-229/1958,

9-10=-72/360

**WEBS** 5-12=-34/737, 7-12=-682/211, 3-12=-726/216, 2-14=-165/1521, 8-10=-186/1638

Continued on page 2

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) -0-10-8 to 3-11-2, Interior(1) 3-11-2 to 11-10-6, Exterior(2R) 11-10-6 to 21-5-10, Interior (1) 21-5-10 to 28-0-2, Exterior (2E) 28-0-2 to 32-9-12 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); 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

6) 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 trush 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.
This trush has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
This trush 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 be tween the bottom chord and any other members.
Refer to girder(s) for trush to trush connections.
Provide mechanical connection (by others) of trush to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 15=184, 9=160.
This trush 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.

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

- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 15=184
- 10) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum

1/23/2025

Job	Truss	Truss Type	Qty	Ply	LOT 117 PROVIDENCE CREEK   FUQUAY-VARINA, NC
25-0641-R01	R02	Common	2	1	Job Reference (optional) # 56258

Run: 8.430 s Feb 12 2021 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Thu Jan 23 11:16:13 2025 Page 2 ID:LMYcl0k6WxwRv7sYDBxhESyl?Z9-db8TiyTaTR1IZ2yl5u1CXW6zhsmslxQAqK9JyjzsVcm

- 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



Job Truss Truss Type Qtv LOT 117 PROVIDENCE CREEK | FUQUAY-VARINA, NC 25-0641-R01 R03 Common # 56258 Job Reference (optional) Run: 8.430 s Feb 12 2021 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Thu Jan 23 11:16:13 2025 Page 1 ID:LMYcl0k6WxwRv7sYDBxhESyl?Z9-db8TiyTaTR1lZ2yl5u1CXW6?VsiClvsAqK9JyjzsVcm 5-11-12 11-8-0 16-8-0 21-8-0 27-4-4 33-0-8 5-8-4 5-11-12 5-0-0 5-0-0 5-8-4 Scale = 1:57.3 5x8 = 5.00 12 6 2x4 II 2x4 || 3x8 < 7 22 <sup>5</sup> 23 3x8 > 8 4x4 = 4x4 < 9 3 24 6x6 < 5x5 = 10 WA ANG. 0-0 W8 17 <sup>15</sup>13 27 25 28 26 29 19 18 14 12 20 11 3x4 =3x4 = 6x6 = 6x8 = 2x4 II 6x8 = 6x6 = 2x4 || 2x4 =2x4 =5-11-12

Plate Offsets (X,Y)-- [2:0-2-4,0-1-12], [11:Edge,0-1-8], [13:0-4-0,Edge], [18:0-4-0,Edge] LOADING (psf)

SPACING-CSI. 2-0-0 TCLL (roof) 20.0 1.15 Plate Grip DOL TC 0.71 Snow (Pf) 20.0 Lumber DOL 1.15 BC 0.99 TCDL 10.0 Rep Stress Incr WB 0.78 BCLL 0.0 Code IRC2021/TPI2014 Matrix-AS BCDL 10.0

Vert(LL) >764 -0.51 16 240 Vert(CT) -0.87 16 >451 180 Horz(CT) 0.06 11 n/a n/a

(loc)

I/defl

L/d

**PLATES** MT20

Weight: 205 lb FT = 20%

**GRIP** 

244/190

LUMBER-

WFBS

WEBS

TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP SS \*Except\*

B3: 2x4 SP No.2 2x4 SP No.3

BRACING-

TOP CHORD **BOT CHORD** 

DEFL.

Structural wood sheathing directly applied, except end verticals. Rigid ceiling directly applied. Except: 5-8-0 oc bracing: 15-17

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

REACTIONS. (lb/size) 20=1461/0-3-8 (min. 0-1-12), 11=1399/Mechanical

Max Horz 20=94(LC 14)

Max Uplift20=-139(LC 14), 11=-116(LC 15) Max Grav 20=1461(LC 1), 11=1408(LC 3)

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

2-21=-2445/243, 3-21=-2372/254, 3-4=-2395/231, 4-22=-2331/249, 5-22=-2297/251, TOP CHORD

5-6=-2399/328. 6-7=-2373/329. 7-23=-2275/252. 8-23=-2308/250. 8-9=-2373/233.

9-24=-2258/259, 10-24=-2354/248, 2-20=-1381/222, 10-11=-1323/176

**BOT CHORD** 19-20=-148/392, 18-19=-219/2200, 18-25=-23/1646, 14-25=-23/1646, 14-26=-23/1646,

26-27=-23/1646, 13-27=-23/1646, 12-13=-162/2124, 11-12=-41/269 5-18=-441/169, 17-18=-168/937, 6-17=-126/1039, 6-15=-123/1000, 13-15=-164/899,

7-13=-439/169, 9-12=-297/65, 2-19=-131/1835, 10-12=-140/1879

(11-14)

Continued on page 2

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) -0-10-8 to 3-11-2, Interior(1) 3-11-2 to 11-8-0, Exterior(2R) 11-8-0 to 21-8-0, Interior(1) 21-8-0 to 28-1-2, Exterior(2E) 28-1-2 to 32-10-12 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough
- ROFESS OR OF ESS 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.

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

9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 20=139

10) 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.

1/23/2025

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NORPREMIERANT PROPERTY OF THE 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 117 PROVIDENCE CREEK   FUQUAY-VARINA	A, NC
25-0641-R01	R03	Common	7	1	Job Reference (optional)	# 56258

Run: 8.430 s Feb 12 2021 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Thu Jan 23 11:16:13 2025 Page 2 ID:LMYcl0k6WxwRv7sYDBxhESyl?Z9-db8TiyTaTR1lZ2yl5u1CXW6?VsiClvsAqK9JyjzsVcm

- 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 loads indicated.

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



Job Truss Truss Type Qtv LOT 117 PROVIDENCE CREEK | FUQUAY-VARINA, NC 25-0641-R01 R04 Common # 56258 Job Reference (optional) Run: 8.430 s Feb 12 2021 Print: 8.630 s Jul 12 2024 MTek Industries, Inc. Thu Jan 23 11:16:14 2025 Page 1 ID:LMYcl0k6WxwRv7sYDBxhESyl?Z9-5nirvIUCDl99BCXUebZR4je8TG65UPLJ3\_vtU9zsVc 8-3-12 8-3-12 -0-10-8 0-10-8 16-8-0 25-0-5 33-4-0 34-2-8 0-10-8 8-3-11 Scale = 1:55.2 5x6 =5.00 12 5 20 3x8 < 19 3x8 > 18 4x4 < 4x4 / 6 4 3 5x5 < 5x5 = 8 9 9 R1 W2 ₩ 10 14 12 15 13 11 <del>1</del>6 3x8 =3x8 =3x4 || 3x4 || 5x5 =4x8 = 5x5 =Plate Offsets (X,Y)-- [2:0-1-0,0-2-4], [8:0-1-0,0-2-4] LOADING (psf) SPACING-2-0-0 CSI **DEFL** I/defl L/d **PLATES GRIP** (loc) 20.0 TCLL (roof) Plate Grip DOL 1.15 0.89 Vert(LL) -0.11 13-15 >999 MT20 244/190 TC 240 Snow (Pf) 20.0 Lumber DOL 1.15 BC 0.76 Vert(CT) -0.29 13-15 >999 180 TCDL 10.0 Rep Stress Incr WB 0.64 Horz(CT) 0.07 10 n/a n/a 0.0 \* BCLL Code IRC2021/TPI2014 Matrix-AS Weight: 181 lb FT = 20% BCDL 10.0 LUMBER-BRACING-Structural wood sheathing directly applied, except end verticals. TOP CHORD 2x4 SP No.1 \*Except\* TOP CHORD **BOT CHORD** T1: 2x4 SP No.2 Rigid ceiling directly applied. BOT CHORD 2x4 SP No.2 WFBS 1 Row at midpt 7-13 3-13 2x4 SP No.3 \*Except\* **WEBS** MiTek recommends that Stabilizers and required cross bracing

be installed during truss erection, in accordance with Stabilizer

Installation guide

W1: 2x6 SP No.2

**REACTIONS.** (lb/size) 16=1381/0-3-8 (min. 0-1-10), 10=1381/0-3-8 (min. 0-1-10)

Max Horz 16=-86(LC 15)

Max Uplift16=-185(LC 14), 10=-185(LC 15)

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

2-17=-2281/330, 3-17=-2187/347, 3-4=-1681/307, 4-18=-1617/314, 18-19=-1599/317, TOP CHORD

5-19=-1581/336, 5-20=-1581/336, 20-21=-1599/317, 6-21=-1617/314, 6-7=-1681/307,

7-22=-2187/350 8-22=-2281/332 2-16=-1298/275 8-10=-1298/274

**BOT CHORD** 15-16=-201/537, 14-15=-268/2018, 13-14=-268/2018, 12-13=-204/2018, 11-12=-204/2018,

10-11=-120/537

**WEBS** 5-13=-33/751, 7-13=-723/215, 3-13=-723/215, 2-15=-163/1536, 8-11=-146/1536

#### 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 and C-C Exterior(2E) -0-10-8 to 3-11-2, Interior(1) 3-11-2 to 11-10-6, Exterior(2R) 11-10-6 to 21-5-10, Interior(1) 21-5-10 to 29-4-14, Exterior(2E) 29-4-14 to 34-2-8 zone; cantilever left and right exposed; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); 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

6) 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 trush 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.
  This trush has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  This trush 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 be tween the bottom chord and any other members.
  Provide mechanical connection (by others) of trush to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 16=185.
  This trush 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.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 16=185
- 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

Continued on page 2 1/23/2025

Job	Truss	Truss Type	Qty	Ply	LOT 117 PROVIDENCE CREEK   FUQUAY-VARINA, NC
25-0641-R01	R04	Common	8	1	Job Reference (optional) # 56258

Run: 8.430 s Feb 12 2021 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Thu Jan 23 11:16:14 2025 Page 2 ID:LMYcl0k6WxwRv7sYDBxhESyl?Z9-5nirvIUCDl99BCXUebZR4je8TG65UPLJ3\_vtU9zsVcI

- 10) 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.
- 11) 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
- 12) 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.

  13) 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 LOT 117 PROVIDENCE CREEK | FUQUAY-VARINA, NC 25-0641-R01 R05 Common Supported Gable # 56258 Job Reference (optional) ın: 8.430 s Feb 12 2021 Print: 8.630 s Jul 12 2024 MİTEK İndustries, İnc. Thu Jan 23 11:16:14 2025 Page 1 ID:LMYcl0k6WxwRv7sYDBxhESyl?Z9-5nirvIUCDI99BCXUebZR4jeKYGGUUWYJ3\_vtU9zsVcI Run: 8.430 s Feb 12 2021 Prin -0-10-8 0-10-8 16-8-0 33-4-0 34-2-8 0-10-8 16-8-0 16-8-0 Scale = 1:56.1 4x6 = 5.00 12 11 12 10 13 43<sup>3x8</sup> < 9 T2 3x8 = 8 42 14 <sup>15</sup> 16 6 17 5 STR 18 44 STR 19 3x4 || 3x4 II <sup>20</sup> 21 2 40 39 38 37 45 36 35 34 33 32 31 30 29 28 27 26 46 25 24 23 22 3x8 =3x8 =3x4 || 3x4 || LOADING (psf) SPACING-GRIP 2-0-0 CSI. DEFL. in (loc) I/defl L/d **PLATES** 20.0 TCLL (roof) Plate Grip DOL 1.15 TC 0.12 Vert(LL) -0.00 20 180 244/190 n/r MT20 Snow (Pf) 20.0 Lumber DOL ВС 0.09 Vert(CT) -0.00 1.15 n/r 80 TCDL 10.0 Rep Stress Incr YES WB 0.17 Horz(CT) 0.00 22 n/a n/a BCLL 0.0

LUMBER-

Code IRC2021/TPI2014

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

BCDI

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

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

Installation guide.

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

Weight: 203 lb

NOINEE

FT = 20%

REACTIONS. All bearings 33-4-0.

10.0

(lb) - Max Horz 40=-87(LC 15)

Max Uplift All uplift 100 lb or less at joint(s) 40, 22, 32, 33, 35, 36, 37, 38, 39, 30, 29, 27, 26, 25, 24, 23 Max Grav All reactions 250 lb or less at joint(s) 40, 22, 35, 36, 37, 38, 39, 27, 26, 25, 24, 23 except 31=254(LC 27), 32=285(LC 5), 33=275(LC 5), 30=285(LC 6), 29=275(LC 6)

Matrix-R

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 9-10=-96/251, 10-11=-110/283, 11-12=-110/283, 12-13=-96/251

**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; MWFRS (envelope) gable end zone and C-C Corner(3E) -0-10-8 to 3-11-2, Exterior(2N) 3-11-2 to 11-10-6, Corner(3R) 11-10-6 to 21-5-10, Exterior(2N) 21-5-10 to 29-4-14, Corner(3E) 29-4-14 to 34-2-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
  4) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); 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) 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.

ROFESS OF ESS 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 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) 40, 22, 32, 33, 35, 36 , 37, 38, 39, 30, 29, 27, 26, 25, 24, 23.

Continued on page 2 1/23/2025

Job	Truss	Truss Type	Qty	Ply	LOT 117 PROVIDENCE CREEK   FUQUAY-VARINA, NC
25-0641-R01	R05	Common Supported Gable	1	1	Job Reference (optional) # 56258

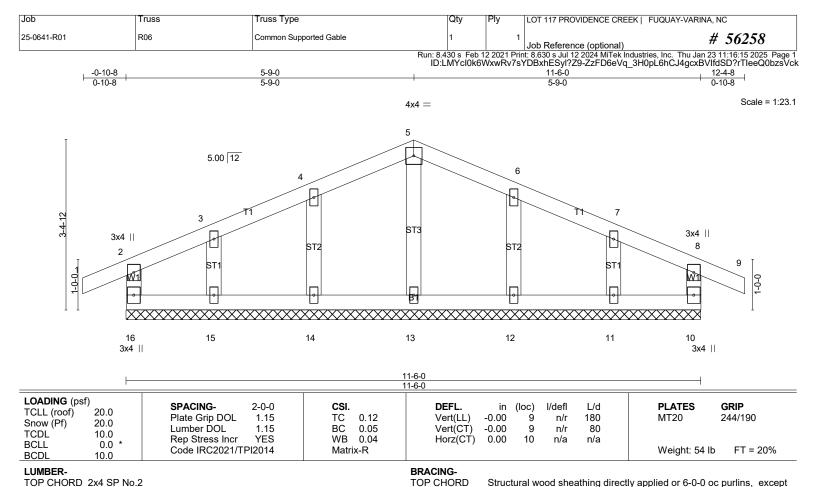
Run: 8.430 s Feb 12 2021 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Thu Jan 23 11:16:14 2025 Page 2 ID:LMYcI0k6WxwRv7sYDBxhESyl?Z9-5nirvIUCDl99BCXUebZR4jeKYGGUUWYJ3\_vtU9zsVcI

- 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





BOT CHORD

REACTIONS. All bearings 11-6-0.

2x4 SP No 3

2x4 SP No.3

BOT CHORD 2x4 SP No.3

WFBS

**OTHERS** 

(lb) - Max Horz 16=19(LC 18)

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)

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 3-9-0, Corner(3R) 3-9-0 to 7-9-0, Corner(3E) 7-9-0 to 12-4-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); 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) All plates are 2x4 MT20 unless otherwise indicated.

- 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 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 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 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 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 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 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 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 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 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 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 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 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 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 truss has been des

23/202 dand NOINEE

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

Installation guide.

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

Continued on page 2 1/23/2025

Job	Truss	Truss Type	Qty	Ply	LOT 117 PROVIDENCE CREEK   FUQUAY-VARINA, NC
25-0641-R01	R06	Common Supported Gable	1	1	Job Reference (optional) # 56258

Run: 8.430 s Feb 12 2021 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Thu Jan 23 11:16:15 2025 Page 2 ID:LMYcl0k6WxwRv7sYDBxhESyl?Z9-ZzFD6eVq\_3H0pL6hCJ4gcxBVlfdSD?rTleeQ0bzsVck

- 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



Job Truss Type Truss Qtv LOT 117 PROVIDENCE CREEK | FUQUAY-VARINA, NC 25-0641-R01 R07 DUAL RIDGE GABLE # 56258 Job Reference (optional) in: 8.430 s Feb 12 2021 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Thu Jan 23 11:16:16 2025 Page 1 ID:LMYcl0k6WxwRv7sYDBxhESyl?Z9-2ApbK\_VSIMPtQVhtm0bv98kae3vhyN4cWlOzZ1zsVcj Run: 8.430 s Feb 12 2021 Prin -0-10-8 0-10-8 20-10-8 0-10-8 10-0-0 20-0-0 4-3-0 10-0-0 Scale = 1:37.1 4x4 = 5 6 5.00 12 4 3x6 = P 3 26 28 8 24 25 9 3x4 || 4x6 = 10 ST6 0 T T 18 19 20 3x4 II 3x6 =4x4 = 3x4 || 17 16 15 14 13 12 LOADING (psf) GRIP SPACING-2-0-0 CSI DEFL. in (loc) I/defl L/d **PLATES** 20.0 TCLL (roof)

LUMBER-

Snow (Pf)

TCDI

BCLL

BCDI

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

20.0

10.0

0.0

10.0

### **BRACING-**

Vert(LL)

Vert(CT)

Horz(CT)

TOP CHORD **BOT CHORD** JOINTS

Structural wood sheathing directly applied, except end verticals. Rigid ceiling directly applied.

MT20

Weight: 112 lb

244/190

FT = 20%

1 Brace at Jt(s): 21, 23

12

>999

>999

n/a

240

180

n/a

-0.02 19-20

-0.05 19-20

0.01

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

REACTIONS. All bearings 8-9-8 except (jt=length) 20=0-3-8, 17=0-3-8.

Plate Grip DOL

Rep Stress Incr

Code IRC2021/TPI2014

Lumber DOL

(lb) - Max Horz 20=46(LC 14)

Max Uplift All uplift 100 lb or less at joint(s) 16, 15, 14, 13, 12 except 20=-112(LC 14)

1.15

1.15

YES

Max Grav All reactions 250 lb or less at joint(s) 16, 14, 13, 17 except 20=703(LC 21), 15=322(LC 22), 12=359(LC

TC

ВС

WB

Matrix-AS

0.46

0.30

0.36

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

2-24=-935/192, 24-25=-848/196, 25-26=-810/201, 3-26=-790/203, 3-4=-348/146, TOP CHORD

4-5=-282/162, 5-6=-280/164, 6-7=-314/139, 7-27=-251/96, 27-28=-258/92, 8-28=-273/89, 8-9=-276/68, 9-10=-307/37, 2-20=-644/205, 10-12=-284/89

BOT CHORD 18-19=-114/803, 17-18=-114/803, 16-17=-114/803

WEBS 3-23=-590/126, 21-23=-611/134, 21-22=-595/124, 16-22=-608/137, 7-15=-276/96,

2-19=-67/574

### (11-14)

- 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) -0-10-8 to 3-11-2, Interior(1) 3-11-2 to 5-2-6, Exterior(2R) 5-2-6 to 14-9-10, Interior(1) 14-9-10 to 16-0-0, Exterior(2E) 16-0-0 to 20-10-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); 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) All plates are 2x4 MT20 unless otherwise indicated.
- 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 file between the bottom chord and any other members.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 16, 15, 14, 13, 12 except (it=lb) 20=112.
- 10) 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.

Continued on page 2

Job	Truss	Truss Type	Qty	Ply	LOT 117 PROVIDENCE CREEK   FUQUAY-V	ARINA, NC
25-0641-R01	R07	DUAL RIDGE GABLE	1	1	Job Reference (optional)	# 56258

Run: 8.430 s Feb 12 2021 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Thu Jan 23 11:16:16 2025 Page 2 ID:LMYcl0k6WxwRv7sYDBxhESyl?Z9-2ApbK\_VSIMPtQVhtm0bv98kae3vhyN4cWlOzZ1zsVcj

- 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

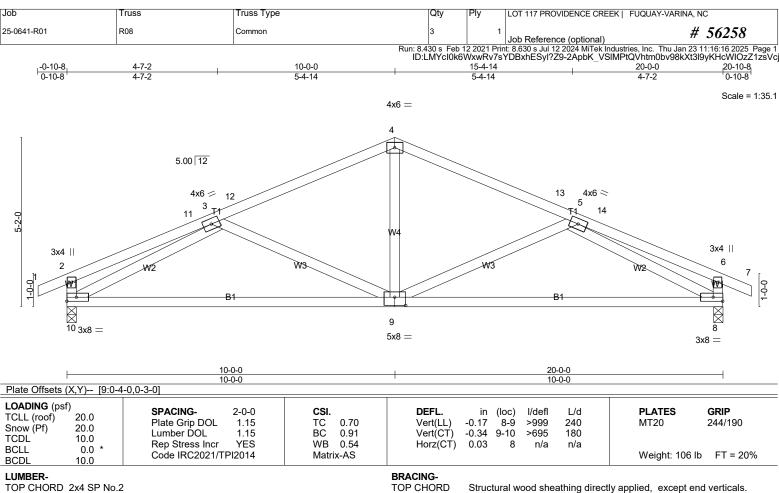
13) Web bracing shown is for lateral support of individual web members only. Refer to BCSI - Guide to Good Practice for Handling, Installing, Restraining & Bracing of Metal Plate Connected Wood Trusses for additional bracing guidelines, including diagonal bracing.

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





BOT CHORD 2x4 SP No 2

2x4 SP No.3 WFBS

**BOT CHORD** 

Rigid ceiling directly applied.

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

REACTIONS. (lb/size) 10=850/0-3-8 (min. 0-1-8), 8=850/0-3-8 (min. 0-1-8)

Max Horz 10=46(LC 14)

Max Uplift10=-117(LC 14), 8=-117(LC 15) Max Grav 10=888(LC 21), 8=888(LC 22)

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

TOP CHORD 2-11=-372/10, 3-11=-341/13, 3-12=-1008/230, 4-12=-926/249, 4-13=-926/249,

5-13=-1008/230, 5-14=-341/34, 6-14=-372/32, 2-10=-295/101, 6-8=-295/109

BOT CHORD 9-10=-199/1123 8-9=-202/1123

**WEBS** 4-9=-22/454, 5-9=-313/169, 3-9=-313/169, 3-10=-1044/321, 5-8=-1044/302

Continued on page 2

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) -0-10-8 to 3-11-2, Interior(1) 3-11-2 to 5-2-6, Exterior(2R) 5-2-6 to 14-9-10, Interior(1) 14-9-10 to 16-0-14, Exterior(2E) 16-0-14 to 20-10-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum 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.

7) \* This truss has been designed for a 10.0 pst 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 trust in the second connection (b

8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 10=115.

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 sheetrock be applied directly to the bottom chord.

1/23/2025

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Job	Truss	Truss Type	Qty	Ply	LOT 117 PROVIDENCE CREEK   FUQUAY-VARINA, NC
25-0641-R01	R08	Common	3	1	Job Reference (optional) # 56258

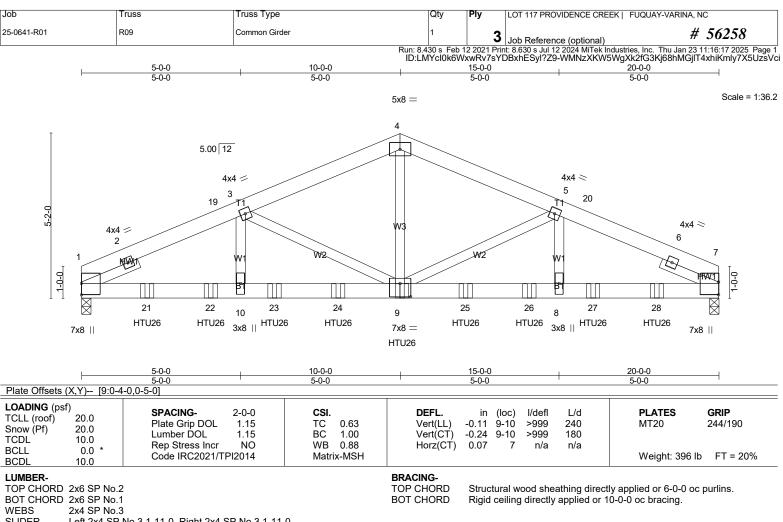
Run: 8.430 s Feb 12 2021 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Thu Jan 23 11:16:16 2025 Page 2 ID:LMYcl0k6WxwRv7sYDBxhESyl?Z9-2ApbK\_VSIMPtQVhtm0bv98kXt3l9yKHcWIOzZ1zsVcj

- 10) 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.
- 11) 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
- 12) 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.

  13) 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





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

REACTIONS. (lb/size) 1=6808/0-3-8 (min. 0-2-11), 7=7013/0-3-8 (min. 0-2-12)

Max Horz 1=-62(LC 40)

Max Uplift1=-738(LC 12), 7=-683(LC 13) Max Grav 1=6848(LC 18), 7=7052(LC 19)

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

1-2=-7079/748, 2-19=-11784/1212, 3-19=-11711/1224, 3-4=-9291/929, 4-5=-9292/929, TOP CHORD

5-20=-11848/1161, 6-20=-11922/1149, 6-7=-7250/691

BOT CHORD  $1-21 = -1129/10624, \ 21-22 = -1129/10624, \ 10-22 = -1129/10624, \ 10-23 = -1129/10624, \ 21-22 = -1129/10624,$ 

23-24=-1129/10624, 9-24=-1129/10624, 9-25=-1007/10758, 25-26=-1007/10758, 8-26=-1007/10758, 8-27=-1007/10758, 27-28=-1007/10758, 7-28=-1007/10758 4-9=-582/6342, 5-9=-2448/308, 5-8=-183/2594, 3-9=-2297/375, 3-10=-237/2466

NOTES-

**WEBS** 

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

Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc. Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-5-0 oc.

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

2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.

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

4) Wind: ASCE 7-16; Vult=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; Lumber DOL=1.60 plate grip DOL=1.60

5) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); 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 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 one.

9) Provide mechanical connection (by others) of truss to bearing plate capable or with standing 100 provide mechanical connection (by others) of truss to bearing plate capable or with standing 100 provide mechanical connection (by others) of truss to bearing plate capable or with standing 100 provide mechanical connection (by others) of truss to bearing plate capable or with standing 100 provide mechanical connection (by others) of truss to bearing plate capable or with standing 100 provide mechanical connection (by others) of truss to bearing plate capable or with standing 100 provide mechanical connection (by others) of truss to bearing plate capable or with standing 100 provide mechanical connection (by others) of truss to bearing plate capable or with standing 100 provide mechanical connection (by others) of truss to bearing plate capable or with standing 100 provide mechanical connection (by others) of truss to bearing plate capable or with standing 100 provide mechanical connection (by others) of truss to bearing plate capable or with standing 100 provide mechanical connection (by others) of truss to bearing plate capable or with standing 100 provide mechanical connection (by others) of truss to bearing plate capable or with standing 100 provide mechanical connection (by others) of truss to bearing plate capable or with standing 100 provide mechanical connection (by others) of truss to bearing plate capable or with standing 100 plate capable or with standing 100 plate capable or with standing 100 plate capable or with standing 100 plate capable or with standing 100 plate capable or with standing 100 plate capable or with standing 100 plate capable or with standing 100 plate capable or with standing 100 plate capable or with standing 100 plate capable or with standing 100 plate capable or with standing 100 plate capable or with standing 100 plate capable or with standing 100 plate capable or with standing 100 plate capable or with standing 100 plate capable or with st

Continued on page 2

Job	Truss	Truss Type	Qty	Ply	LOT 117 PROVIDENCE CREEK   FUQUAY-VA	RINA, NC
25-0641-R01	R09	Common Girder	1	3	Job Reference (optional)	# 56258

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- 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

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

Uniform Loads (plf)

Vert: 1-4=-60, 4-7=-60, 11-15=-20

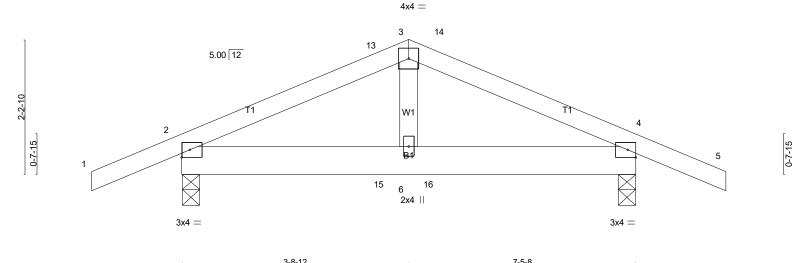
Concentrated Loads (lb)

Vert: 9=-1379(B) 21=-1282(B) 22=-1282(B) 23=-1379(B) 24=-1379(B) 25=-1379(B) 26=-1379(B) 27=-1379(B) 28=-1379(B)



Job Truss Truss Type LOT 117 PROVIDENCE CREEK | FUQUAY-VARINA, NC 25-0641-R01 R11 Common # 56258 Job Reference (optional) Run: 8.430 s Feb 12 2021 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Thu Jan 23 11:16:17 2025 Page 1 ID:LMYcl0k6WxwRv7sYDBxhESyl?Z9-WMNzXKW5WgXk2fG3Kj68hMGprTIThvBmly7X5UzsVci -1-5-12 8-11-4 1-5-12 1-5-12 3-8-12 3-8-12

Scale = 1:18.9



	3-8-		+	3-8-12			
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 0.24 BC 0.07 WB 0.05 Matrix-AS	DEFL. in Vert(LL) 0.01 Vert(CT) -0.01 Horz(CT) 0.00	(loc) I/defl 6 >999 6 >999 4 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 37 lb	<b>GRIP</b> 244/190 FT = 20%

LUMBER-

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

TOP CHORD BOT CHORD Structural wood sheathing directly applied.

Rigid ceiling directly applied.

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

**REACTIONS.** (lb/size) 2=387/0-3-8 (min. 0-1-8), 4=387/0-3-8 (min. 0-1-8)

Max Horz 2=-32(LC 19)

Max Uplift2=-118(LC 10), 4=-118(LC 11) Max Grav 2=500(LC 21), 4=500(LC 22)

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

TOP CHORD 2-13=-370/439, 3-13=-285/443, 3-14=-285/443, 4-14=-370/439 BOT CHORD 2-15=-310/273, 6-15=-310/273, 6-16=-310/273, 4-16=-310/273

**NOTES-** (10-13)

- 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) -1-5-12 to 3-3-14, Exterior(2R) 3-3-14 to 4-1-10, Exterior(2E) 4-1-10 to 8-11-4 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) 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.
- 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) except (jt=lb) 2=118, 4=118.
- 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 sheetrock be applied directly to the bottom chord.

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Continued on page 2 1/23/2025

Job	Truss	Truss Type	Qty	Ply	LOT 117 PROVIDENCE CREEK   FUQUAY-VARINA, NC
25-0641-R01	R11	Common	3	1	Job Reference (optional) # 56258

Run: 8.430 s Feb 12 2021 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Thu Jan 23 11:16:17 2025 Page 2 ID:LMYcl0k6WxwRv7sYDBxhESyl?Z9-WMNzXKW5WgXk2fG3Kj68hMGprTIThvBmly7X5UzsVci

- 10) 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.
- 11) 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
- 12) 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.

  13) 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



Joh Truss Truss Type LOT 117 PROVIDENCE CREEK | FUQUAY-VARINA, NC 25-0641-R01 R12 Common # 56258 Job Reference (optional) Run: 8.430 s Feb 12 2021 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Thu Jan 23 11:16:18 2025 Page 1 ID:LMYcl0k6WxwRv7sYDBxhESyl?Z9-\_YxMlgXjH\_fbgprGtRdNEZp\_atcWQMhv\_ct4dwzsVch 6-8-0 1-5-8 1-5-8 3-8-12 1-5-12 Scale = 1:16.5 4x4 = 5.00 12 2 9 2x4 || 2-2-10 10 W T2 W1 3 В1 11 12 3x4 =4x4 =LOADING (psf) **PLATES** SPACING-GRIP 2-0-0 CSI. DEFL. in (loc) I/defl L/d 20.0 TCLL (roof) Plate Grip DOL 1.15 TC 0.24 Vert(LL) 0.02 5-8 >999 240 MT20 244/190 Snow (Pf) 20.0 ВС 0.15 Vert(CT) -0.02 5-8 >999 Lumber DOL 1.15 180 TCDL 10.0 Rep Stress Incr YES WB 0.04 Horz(CT) 0.00 3 n/a n/a BCLL 0.0 Code IRC2021/TPI2014 Matrix-AS Weight: 28 lb FT = 20% BCDI 10.0

LUMBER-

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

**BRACING-**

TOP CHORD **BOT CHORD**  Structural wood sheathing directly applied, except end verticals. Rigid ceiling directly applied.

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

REACTIONS. (lb/size) 3=303/0-3-8 (min. 0-1-8), 5=189/0-3-8 (min. 0-1-8)

Max Horz 5=-54(LC 12)

Max Uplift3=-96(LC 11), 5=-46(LC 11) Max Grav 3=324(LC 22), 5=191(LC 21)

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

NOTES-(10-13)

- 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) 0-1-12 to 1-5-8, Exterior(2R) 1-5-8 to 1-10-6, Exterior(2E) 1-10-6 to 6-8-0 zone; cantilever left and right exposed; end vertical left and right exposed; porch 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.
- 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 ates TH CARO 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) 3, 5.
- 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 sheetrock be applied directly to the bottom chord. 10) 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. 11) 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.
- 12) 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.

  13) 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.

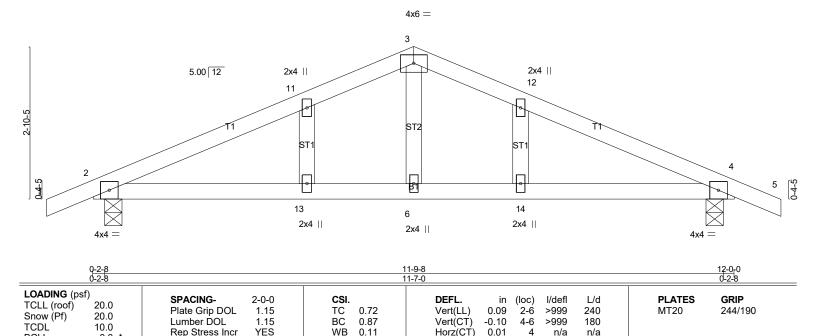
LOAD CASE(S) Standard

MOINEER S 1/23/2025

NORPH HAMING THE STATE OF THE S 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 LOT 117 PROVIDENCE CREEK | FUQUAY-VARINA, NC 25-0641-R01 SP01 COMMON SUPPORTED GAB # 56258 Job Reference (optional) Run: 8.430 s Feb 12 2021 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Thu Jan 23 11:16:18 2025 Page 1 ID:18799bTYYbxotYa75q2Yk9yieyH-\_YxMlgXjH\_fbgprGtRdNEZpsAtRCQLbv\_ct4dwzsVch -0-10-8 12-10-8 6-0-0 12-0-0 0-10-8 6-0-0 0-10-8

Scale = 1:21.6



LUMBER-

BCLL

BCDI

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

0.0

10.0

**BRACING-**

Horz(CT)

TOP CHORD **BOT CHORD**  Structural wood sheathing directly applied or 4-1-5 oc purlins. Rigid ceiling directly applied or 6-6-12 oc bracing.

n/a

n/a

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

Weight: 48 lb

FT = 20%

REACTIONS. (lb/size) 2=529/0-4-0 (min. 0-1-8), 4=529/0-4-0 (min. 0-1-8)

Rep Stress Incr

Code IRC2021/TPI2014

YES

Max Horz 2=43(LC 18)

Max Uplift2=-148(LC 10), 4=-148(LC 11) Max Grav 2=623(LC 21), 4=623(LC 22)

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

TOP CHORD 2-11=-786/862, 3-11=-650/874, 3-12=-650/874, 4-12=-786/862 **BOT CHORD** 2-13=-704/619, 6-13=-704/619, 6-14=-704/619, 4-14=-704/619

3-6=-418/278 WFBS

#### NOTES-(11)

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

Matrix-SH

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 studs spaced at 2-0-0 oc.

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

\* This truss has been designed for a 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.

\* Provide mechanical connection (by others) of truss to bearing plate capable of the state o

10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=148 4=148.

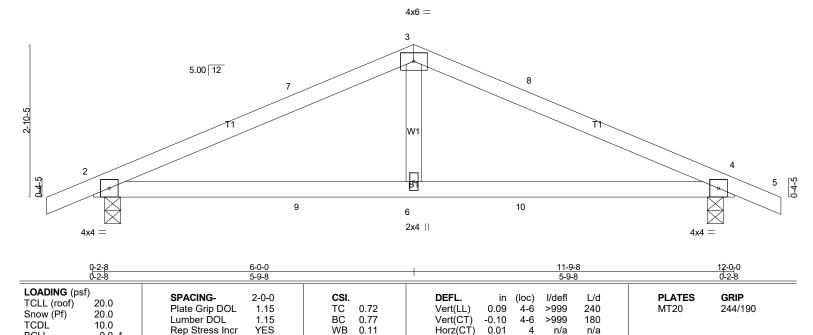
LOAD CASE(S) Standard



1/23/2025

Job Truss Truss Type LOT 117 PROVIDENCE CREEK | FUQUAY-VARINA, NC 25-0641-R01 SP02 COMMON # 56258 Job Reference (optional) Run: 8.430 s Feb 12 2021 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Thu Jan 23 11:16:18 2025 Page 1 ID:18799bTYYbxotYa75q2Yk9yieyH-\_YxMlgXjH\_fbgprGtRdNEZps3tSsQLbv\_ct4dwzsVch 12-10-8 -0-10-8 6-0-0 12-0-0 0-10-8 6-0-0 0-10-8

Scale = 1:21.6



LUMBER-

BCLL

BCDI

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

0.0

10.0

**BRACING-**

TOP CHORD **BOT CHORD**  Structural wood sheathing directly applied or 4-0-8 oc purlins. Rigid ceiling directly applied or 6-8-9 oc bracing.

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

Weight: 44 lb

FT = 20%

REACTIONS. (lb/size) 2=530/0-3-8 (min. 0-1-8), 4=530/0-3-8 (min. 0-1-8)

Max Horz 2=43(LC 14)

Max Uplift2=-148(LC 10), 4=-148(LC 11) Max Grav 2=624(LC 21), 4=624(LC 22)

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

Code IRC2021/TPI2014

TOP CHORD 2-7=-791/824, 3-7=-655/836, 3-8=-655/836, 4-8=-791/824 **BOT CHORD** 2-9=-681/625, 6-9=-681/625, 6-10=-681/625, 4-10=-681/625

3-6=-407/280 WFBS

#### NOTES-(9)

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) -0-10-8 to 3-11-2, Exterior(2R) 3-11-2 to 8-0-14, Exterior(2E) 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

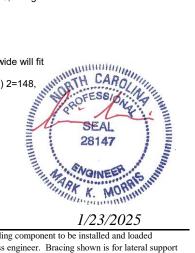
Matrix-SH

- 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.

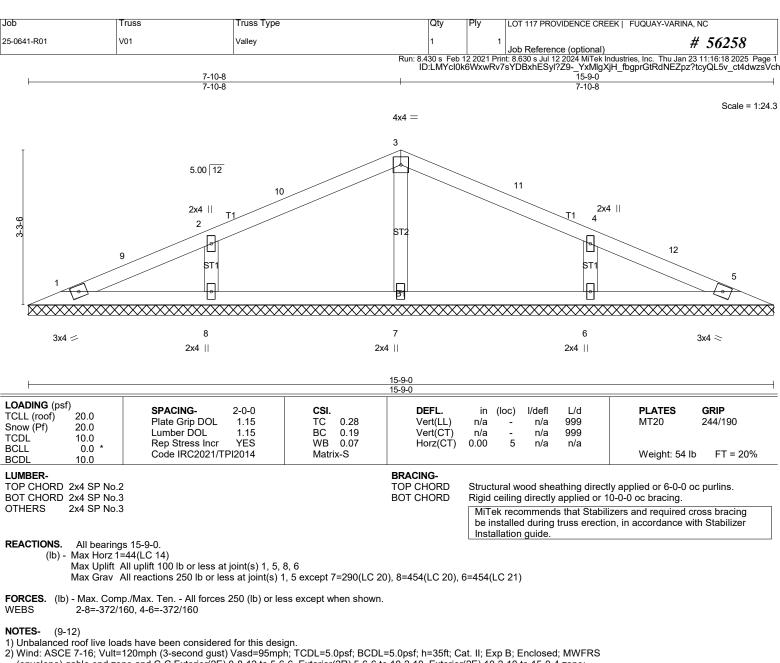
\* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members.

8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=148, 4=148

LOAD CASE(S) Standard



1/23/2025



(envelope) gable end zone and C-C Exterior(2E) 0-8-12 to 5-6-6, Exterior(2R) 5-6-6 to 10-2-10, Exterior(2E) 10-2-10 to 15-0-4 zone; cantilever left and right exposed; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown Lumber DOL=1.60 plate grip DOL=1.60

3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); 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, 8, 6.

OFESS OF 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

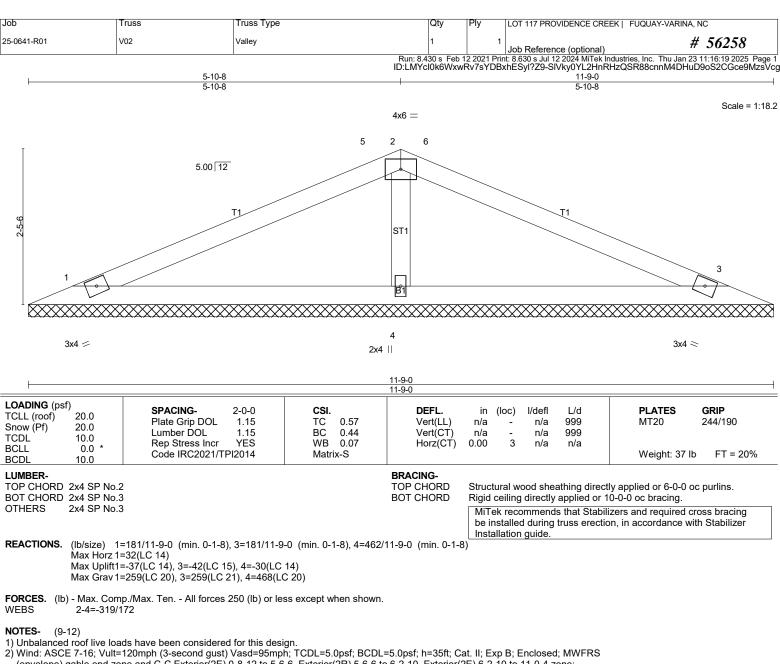
structural design of the truss to support the loads indicated. 11) Web bracing shown is for lateral support of individual web members only. Refer to BCSI - Guide to Good Practice for Handling,

Installing, Restraining & Bracing of Metal Plate Connected Wood Trusses for additional bracing guidelines, including diagonal bracing 12) SEE 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

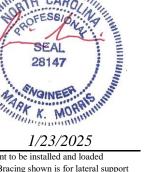
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- (envelope) gable end zone and C-C Exterior(2E) 0-8-12 to 5-6-6, Exterior(2R) 5-6-6 to 6-2-10, Exterior(2E) 6-2-10 to 11-0-4 zone; cantilever left and right exposed; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); 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.
- OFESS OF 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 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 117 PROVIDENCE CREEK | FUQUAY-VARINA, NC 25-0641-R01 V03 GABLE # 56258 Job Reference (optional) Run: 8430 s Feb 12 2021 Print: 830 s Jul 12 2024 MTek Industries, Inc. Thu Jan 23 11:16:19 2025 Page 1 ID:LMYcl0k6WxwRv7sYDBxhESyl?Z9-SlVky0YL2HnRHzQSR88cnnM98HyT9py2CGce9MzsVcg 3-10-8 7-9-0 3-10-8 3-10-8 Scale = 1:13.8 4x4 = 2 5.00 12 ST1 3 B1 2x4 / 2x4 || 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 0.25 Vert(LL) n/a n/a 999 MT20 244/190 Snow (Pf) 20.0 Lumber DOL ВС 0.17 Vert(CT) 999 1.15 n/a n/a TCDL 10.0 Rep Stress Incr YES WB 0.04 Horz(CT) 0.00 3 n/a n/a BCLL 0.0 Code IRC2021/TPI2014 Matrix-P Weight: 23 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=124/7-9-0 (min. 0-1-8), 3=124/7-9-0 (min. 0-1-8), 4=256/7-9-0 (min. 0-1-8)

Max Horz 1=-19(LC 15)

Max Uplift1=-28(LC 14), 3=-31(LC 15), 4=-8(LC 14) Max Grav 1=162(LC 20), 3=162(LC 21), 4=256(LC 1)

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

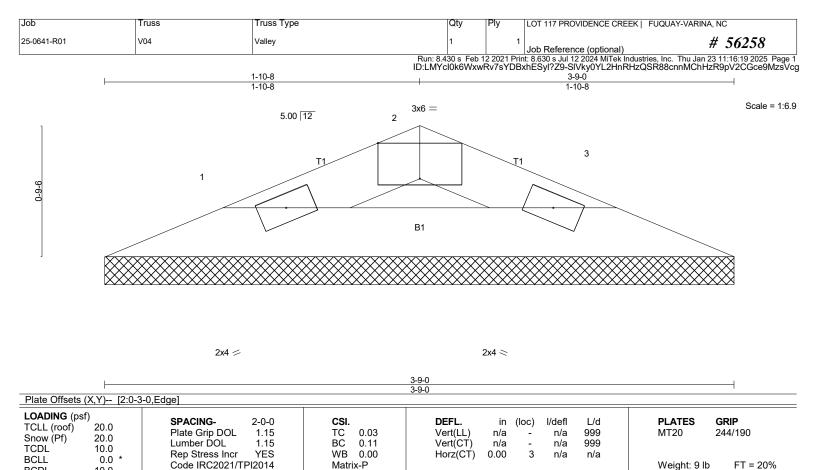
#### NOTES-(9-12)

- 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; 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



1/23/2025



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 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=92/3-9-0 (min. 0-1-8), 3=92/3-9-0 (min. 0-1-8)

Max Horz 1=7(LC 18)

Max Uplift1=-12(LC 14), 3=-12(LC 15) Max Grav 1=96(LC 20), 3=96(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; 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 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 WILLIAM OF CONSIDERATIONS OF TOP CHORD, BOTTOM CHORD, AND WER PLANES WILLIAM OF THE BROUGHT OF THE BROUG 12) SEE BČŠI-B3 SUMMARY SHEET- PERMANENT RESTRAING/BRACING OF CHORDS & WEB MEMBERS FOR ŘECŎMMENDED CONSIDERATIONS.

LOAD CASE(S) Standard

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1/23/2025