## 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 #: 26724 JOB: 21-5647-R01

JOB NAME: 49786-0197 WOODGROVE

Wind Code: 37

Wind Speed: Vult= 115mph

**Exposure Category: B** 

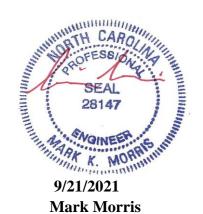
Mean Roof Height (feet): 23

These truss designs comply with IRC 2015 as well as IRC 2018.

9 Truss Design(s)

## Trusses:

J01, M01, M02, R01, R02, R03, R04, R05, R07



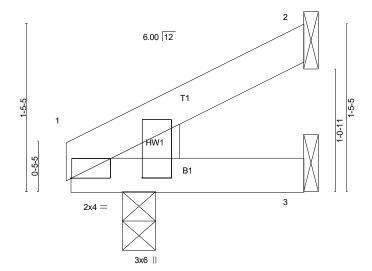
## Warning !—Verify design parameters and read notes before use.

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

.lob Truss Truss Type Qty 49786-0197 WOODGROVE | FUQUAY VARINA, NC 21-5647-R01 J01 Jack-Open # 26724 Job Reference (optional) 8.430 s Feb 12 2021 MiTek Industries, Inc. Wed Sep 22 15:13:09 2021 Page 1 ID:MPr2P9H?n?aoDn?Cktxvnlzouw4-Jsa\_RvnB0nObGz4q9NBO0G8JBMaiXC2nOPlb6Fyb2su

2-0-0 0-0-8 0-0-8 2-0-0

Scale = 1:9.9



0-5-41-6-12

Plate Offsets (X,Y)-- [1:0-0-1,Edge], [1:0-0-1,0-7-5]

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	CSI. TC 0.09 BC 0.04 WB 0.00
BCDI 10.0	Code IRC2018/TPI2014	Matrix-P

Horz(CT) BRACING-

DEFI

Vert(LL)

Vert(CT)

TOP CHORD BOT CHORD (loc)

in

-0.00

-0.00

-0.00

I/defl

>999

>999

n/a

I/d

240

180

n/a

Structural wood sheathing directly applied or 2-0-0 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

**PLATES** 

Weight: 7 lb

MT20

GRIP

244/190

FT = 20%

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

WFDGF Left: 2x4 SP No.3

REACTIONS. (lb/size) 2=59/Mechanical, 3=20/Mechanical, 1=78/0-3-8 (min. 0-1-8)

Max Horz 1=28(LC 14) Max Uplift2=-23(LC 14)

Max Grav 2=79(LC 20), 3=39(LC 7), 1=99(LC 20)

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

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=5.0psf; BCDL=5.0psf; h=9ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) 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.
- \* 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) 2.
- 8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 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 SUMMARY SHEET- PERMANENT RESTRAING/BRACING OF CHORDS & WEB MEMBERS FOR ŘECŎMMENDĒĎ 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

.lob Truss Truss Type Qty 49786-0197 WOODGROVE | FUQUAY VARINA, NC 21-5647-R01 M01 Monopitch # 26724 Job Reference (optional) 8.430 s Feb 12 2021 MiTek Industries, Inc. Wed Sep 22 15:13:10 2021 Page 1 ID:MPr2P9H?n?aoDn?Cktxvnlzouw4-n37MeFopn5WSu7e0j5idZUhQ7mq2Gflxd329fhyb2st -0-6-8 0-6-8 3-10-0 Scale: 1"=1" 2x4 | 4.00 12 Т1 W1 2 0-2-0 В1 3x4 = 5 3x6 | 2x4 || 3-4-12 Plate Offsets (X,Y)-- [2:0-0-0,0-1-6], [2:0-1-13,0-6-1] LOADING (psf) SPACING-DEFL. **PLATES** GRIP 2-0-0 CSI. in (loc) I/defl I/d TCLL (roof) 20.0 Plate Grip DOL 1.15 TC 0.33 Vert(LL) -0.01 2-5 >999 240 MT20 244/190 Snow (Pf) 20.0 Lumber DOL 1.15 вс 0.42 Vert(CT) -0.02 2-5 >999 180 TCDL 10.0 WB 0.00 Rep Stress Incr YES Horz(CT) 0.00 n/a n/a **BCLL** 0.0 Code IRC2018/TPI2014 Weight: 16 lb Matrix-P FT = 20%**BCDL** 10.0 LUMBER-BRACING-

TOP CHORD

BOT CHORD

end verticals

Installation guide.

Structural wood sheathing directly applied or 3-10-0 oc purlins, except

MiTek recommends that Stabilizers and required cross bracing

be installed during truss erection, in accordance with Stabilizer

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

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

2x4 SP No.3 WFBS WEDGE

Left: 2x4 SP No.3

(lb/size) 5=155/Mechanical, 2=186/0-3-8 (min. 0-1-8) REACTIONS.

Max Horz 2=42(LC 14)

Max Uplift5=-27(LC 14), 2=-25(LC 10)

Max Grav 5=206(LC 21), 2=252(LC 21)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=5.0psf; BCDL=5.0psf; h=23ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3E) 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
- 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.
- 7) Refer to girder(s) for truss to truss connections

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) 5, 2.

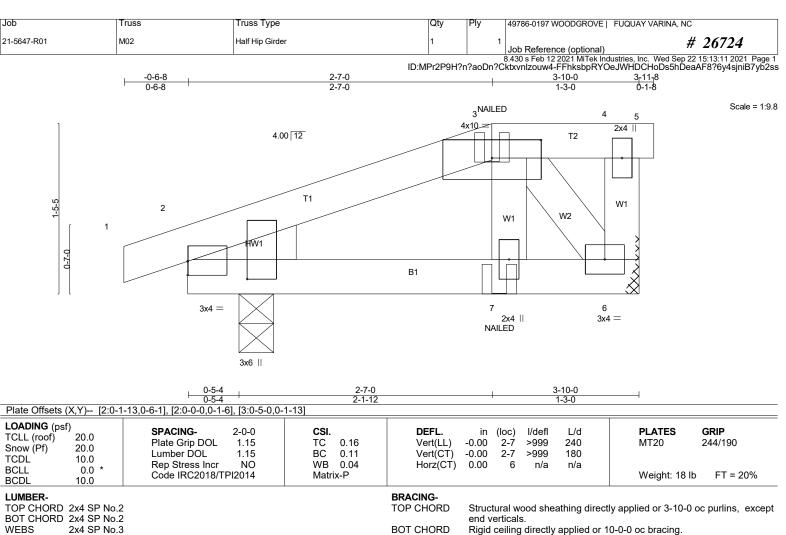
9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

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 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.



BOT CHORD 2x4 SP No.2

WEDGE

REACTIONS.

Left: 2x4 SP No.3

(lb/size) 6=168/Mechanical, 2=192/0-3-8 (min. 0-1-8) Max Horz 2=30(LC 12)

Max Uplift6=-21(LC 8), 2=-31(LC 8)

Max Grav 6=184(LC 33), 2=267(LC 34)

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

**NOTES-** (13-16)

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=5.0psf; BCDL=5.0psf; h=23ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; 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) Provide adequate drainage to prevent water ponding.
- 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) 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) 6, 2.

- 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 11) "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidlines.
- 12) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).
- 13) Graphical bracing representation does not depict the size, type or the orientation of the brace on the member. Symbol only indicates
- 14) Bearing symbols are only graphical representations of a possible bearing condition. Bearing symbols are not considered in the
- 15) Web bracing shown is for lateral support of individual web members only. Refer to BCSI Guide to Good Practice for Handling,
- Graphical bracing representation does not depict the size, type or the orientation of the Brace.

  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.

  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 and the properties of 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.

SEAL 28147

NONEE

NONEE

1/202

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MiTek recommends that Stabilizers and required cross bracing

be installed during truss erection, in accordance with Stabilizer

Installation guide.

Job	Truss	Truss Type	Qty	Ply	49786-0197 WOODGROVE   FUQUAY VARINA, NC	
21-5647-R01	M02	Half Hip Girder	1	1	Job Reference (optional) # 26724	ļ

B.430 s Feb 12 2021 NiTek Industries, Inc. Wed Sep 22 15:13:12 2021 Page 2 ID:MPr2P9H?n?aoDn?Cktxvnlzouw4-jRF73xq4JimA7RoPrWk5evmpKabNkZBE5NXGjayb2sr

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf) Vert: 1-3=-60, 3-4=-60, 4-5=-60, 2-6=-20 Concentrated Loads (lb) Vert: 3=-20(B)

SEAL 28147

NONEER & MORRISHING

9/21/2021

Job Truss Truss Type 49786-0197 WOODGROVE | FUQUAY VARINA, NC 21-5647-R01 R01 GABLE # 26724 Job Reference (optional) 8.430 s Feb 12 2021 MiTek Industries, Inc. Wed Sep 22 15:13:13 2021 Page 1 ID:MPr2P9H?n?aoDn?Cktxvnlzouw4-BepVHHqi40u1lbNbODFKA6JzK\_v1T\_eNJ1GpG0yb2sq 19-0-0 38-0-0 38-6-8 0-6-8 19-0-0 19-0-0 0-6-8 Scale = 1:66.3 5x6 =16 17 6.00 12 18 19 20 21 10 23 3x8 < 24 ST12 ST13 ST14 6 3x8 < St15 26 St16 27 ST17 <sup>28</sup>29 ST 59 4x4 < 30 32 53 54 52 51 31 50 56 5x6 =3x4 || 3x4 || 33 34 49 46 40 39 38 35 3.00 12 5x6 = 5x8 = 18-10-8 38-0-0 9-3-8 19-1-8 Plate Offsets (X,Y)-- [2:0-1-15,0-0-6], [31:0-2-1,0-0-5], [46:0-3-0,0-0-12] LOADING (psf) SPACING-**PLATES** GRIP 2-0-0 CSI DEFL. in (loc) I/defl I/d TCLL (roof) 20.0 Plate Grip DOL 1.15 TC 0.21 Vert(LL) 0.00 31 n/r 180 MT20 244/190 Snow (Pf) 20.0 Lumber DOL 1.15 вс 0.21 Vert(CT) 0.00 32 n/r 80 TCDL 10.0 0.15 Rep Stress Incr YES WB Horz(CT) 0.01 31 n/a n/a **BCLL** 0.0 Code IRC2018/TPI2014 Matrix-SH Weight: 307 lb FT = 20%**BCDL** 10.0

LUMBER-

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

Left 2x4 SP No.3 - 2-4-11, Right 2x4 SP No.3 - 1-7-7 SLIDER

BRACING-

TOP CHORD **BOT CHORD** 

**WEBS** 

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

1 Row at midpt

16-46, 15-47, 17-45, 18-44

REACTIONS. All bearings 38-0-0

(lb) - Max Horz 2=118(LC 14)

Max Uplift All uplift 100 lb or less at joint(s) 2, 53, 47, 48, 49, 50, 51, 52, 54, 55, 56, 57, 44, 43, 42, 41, 40, 39, 38, 37, 36, 35, 33

Max Grav All reactions 250 lb or less at joint(s) 2, 53, 46, 47, 48, 49, 50, 51, 52, 54, 55, 56, 45, 44, 43, 42, 41, 40, 39, 38, 37, 36, 35, 33, 31 except 57=348(LC 34)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 15-16=-139/252

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

- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=5.0psf; BCDL=5.0psf; h=23ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3E) -0-6-8 to 3-4-11, Exterior(2N) 3-4-11 to 15-0-0, Corner(3R) 15-0-0 to 23-0-0, Exterior(2N) 23-0-0 to 34-7-5, Corner(3E) 34-7-5 to 38-6-8 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate
- 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 RTH CAROLANDER OF ESSION NOT THE

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) Gable studs spaced at 1-4-0 oc.

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

11) \* This truss has been designed for a live load of 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.

12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 53, 47, 48, 49, 50, 51, 52, 54, 55, 56, 57, 44, 43, 42, 41, 40, 39, 38, 37, 36, 35, 33.

13) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 53, 47, 48, 49, 50, 51, 52, 54, 55, 56, 57.

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

K. MORR

SEAL

Job	Truss	Truss Type	Qty	Ply	49786-0197 WOODGROVE   FUQUAY VARINA, NC	
21-5647-R01	R01	GABLE	1	1	Job Reference (optional) #	26724

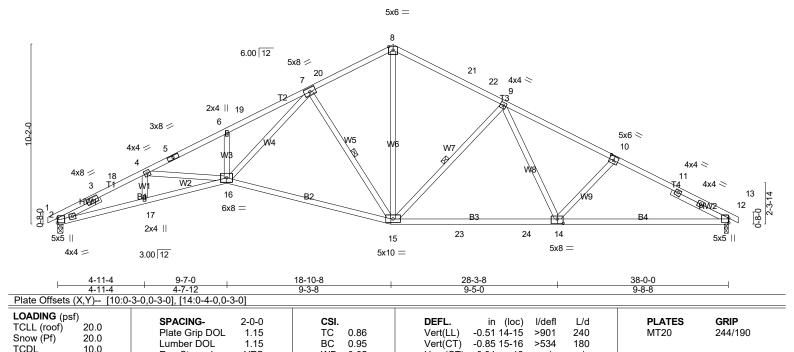
8.430 s Feb 12 2021 MiTek Industries, Inc. Wed Sep 22 15:13:14 2021 Page 2 ID:MPr2P9H?n?aoDn?Cktxvnlzouw4-fqNtUdrKqJ0uNlynywmZjKr84NEGCRuWYh0MoSyb2sp

- 15) 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.
- 16) 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.
- 17) 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.
   18) SEE BCSI-B3 SUMMARY SHEET- PERMANENT RESTRAING/BRACING OF CHORDS & WEB MEMBERS FOR RECOMMENDED MINIMUM BRACING REQUIREMENTS
- 18) SEE BCSI-B3 SUMMARY SHEET- PERMANENT RESTRAING/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.



Job Truss Truss Type Qty 49786-0197 WOODGROVE | FUQUAY VARINA, NC 21-5647-R01 R02 ROOF SPECIAL # 26724 Job Reference (optional) 19-0-0 25-2-13 31-5-11 38-0-0 -0-6-8 0-6-8 38-6-8 4-11-4 4-7-12 4-8-8 4-8-8 6-2-13 6-2-13 6-6-5 0-6-8

Scale = 1:65.2



Horz(CT)

BRACING-

WFBS

TOP CHORD

BOT CHORD

0.31

12

2-2-0 oc bracing: 14-15.

1 Row at midpt

n/a

n/a

Structural wood sheathing directly applied or 2-1-4 oc purlins. Rigid ceiling directly applied or 10-0-0 oc bracing, Except:

7-15, 9-15

MiTek recommends that Stabilizers and required cross bracing

be installed during truss erection, in accordance with Stabilizer

LUMBER-

**BCLL** 

BCDL

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

0.0

10.0

T2: 2x4 SP No.1, T1: 2x4 SP SS

BOT CHORD 2x4 SP No.1 \*Except\* B1: 2x4 SP SS

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

W4: 2x4 SP No.2

SLIDER Left 2x4 SP No.3 - 2-8-12, Right 2x4 SP No.3 - 3-7-2

REACTIONS. (lb/size) 2=1554/0-3-8 (min. 0-1-12), 12=1550/0-3-8 (min. 0-1-13)

Rep Stress Incr

Code IRC2018/TPI2014

YES

Max Horz 2=118(LC 14)

Max Uplift2=-86(LC 14), 12=-85(LC 15)

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

TOP CHORD 2-3=-4350/271, 3-18=-4274/280, 4-18=-4245/288, 4-5=-4371/237, 5-6=-4341/250,

6-19=-4415/322, 7-19=-4288/324, 7-20=-1724/200, 8-20=-1660/219, 8-21=-1643/212 21-22=-1676/194, 9-22=-1738/187, 9-10=-2429/186, 10-11=-2586/182, 11-12=-2670/154

 $2-17 = -331/3796,\ 16-17 = -330/3823,\ 15-16 = -98/2202,\ 15-23 = -53/1931,\ 23-24 = -53/1931,$ 

14-24=-53/1931, 12-14=-99/2275

**WEBS** 4-16=0/276, 6-16=-348/117, 7-16=-208/2639, 7-15=-1288/189, 8-15=-77/1175,

9-15=-750/162, 9-14=-4/526, 10-14=-273/139

(11-14)

**BOT CHORD** 

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

2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph, TCDL=5.0psf; BCDL=5.0psf; h=23ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-6-8 to 3-4-11, Interior(1) 3-4-11 to 15-0-13, Exterior(2R) 15-0-13 to 22-11-3, Interior(1) 22-11-3 to 34-7-5, Exterior(2E) 34-7-5 to 38-6-8 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

WB

Matrix-SH

0.65

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 📆 lift

between the bottom chord and any other members, with BCDL = 10.0psf. 8) Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of

bearing surface. 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 12.

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

SEAL 28147

Of MONEY MORRISHING

'21/202

'ed ar

Weight: 212 lb

FT = 20%

Job	Truss	Truss Type	Qty	Ply	49786-0197 WOODGROVE   FUQUAY VARINA	, NC
21-5647-R01	R02	ROOF SPECIAL	8	1	Job Reference (optional)	# 26724

8.430 s Feb 12 2021 MiTek Industries, Inc. Wed Sep 22 15:13:16 2021 Page 2 ID:MPr2P9H?n?aoDn?Cktxvnlzouw4-bCVdvJtaMxGcc26A3Lp1olwKJBlAgDgp??VTsLyb2sn

- 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

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.





8.430 s Feb 12 2021 MiTek Industries, Inc. Wed Sep 22 15:13:17 2021 Page 1 ID:MPr2P9H?n?aoDn?Cktxvnlzouw4-4P3?6etC7EOTEChMd3KGLyTUwb4bPd0zEfE0Pnyb2sm

Structural wood sheathing directly applied.

4-9-0 oc bracing: 15-19

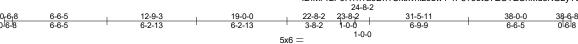
1 Row at midpt

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

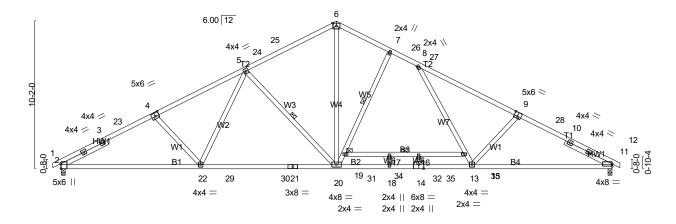
7-19, 5-20

MiTek recommends that Stabilizers and required cross bracing

be installed during truss erection, in accordance with Stabilizer



Scale = 1:79.4



	9-7-12	19-0-0	22-0-2   24-0-2   20-4-4	30-0-0				
	9-7-12	9-4-4	3-8-2 2-0-0 3-8-2	9-7-12	1			
Plate Offsets (X,Y) [2:	Plate Offsets (X,Y) [2:0-4-1,Edge], [4:0-3-0,0-3-0], [9:0-3-0,0-3-4], [11:0-0-0,0-2-1], [14:0-4-0,Edge]							
COADING (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 IRC2018/TPI2014	CSI. TC 0.94 BC 1.00 WB 0.77 Matrix-SH	DEFL. in (loc) Vert(LL) -0.58 14-18 Vert(CT) -0.97 14-18 Horz(CT) 0.13 11	I/defl L/d >785 240 >470 180 n/a n/a	PLATES GRIP MT20 244/190  Weight: 223 lb FT = 20%			

BRACING-

WFBS

TOP CHORD

BOT CHORD

10 0 0

I UMBER-

TOP CHORD 2x4 SP SS \*Except\*

T1: 2x4 SP No.1

BOT CHORD 2x4 SP SS \*Except\*

B1: 2x4 SP No.1, B3: 2x4 SP No.2

**WEBS** 2x4 SP No.3

SLIDER Left 2x4 SP No.3 - 3-7-2, Right 2x4 SP No.3 - 3-7-2

REACTIONS. (lb/size) 2=1616/0-3-8 (min. 0-2-0), 11=1659/0-3-8 (min. 0-2-2)

Max Horz 2=118(LC 14)

Max Uplift2=-55(LC 14), 11=-34(LC 15)

Max Grav 2=1687(LC 3), 11=1775(LC 3)

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

2-3=-3015/117, 3-23=-2935/131, 4-23=-2910/144, 4-5=-2805/148, 5-24=-2181/134, TOP CHORD

24-25=-2156/137. 6-25=-2095/159. 6-7=-2226/175. 7-26=-2202/154. 26-27=-2229/150.

8-27=-2238/148, 8-9=-3019/98, 9-28=-3146/103, 10-28=-3171/88, 10-11=-3249/86

2-22=-138/2576, 22-29=-36/2297, 29-30=-36/2297, 21-30=-36/2297, 20-21=-36/2297

20-31=0/2361, 18-31=0/2361, 14-18=0/2361, 14-32=0/2361, 32-33=0/2361, 13-33=0/2361, 11-13=-32/2796

6-20=-50/1859, 19-20=-1107/143, 7-19=-941/168, 8-15=0/776, 13-15=-15/600,

WEBS 9-13=-414/184, 5-20=-737/170, 5-22=-18/438, 4-22=-264/142

NOTES-

**BOT CHORD** 

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

2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=5.0psf; BCDL=5.0psf; h=23ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-6-8 to 4-3-2, Interior(1) 4-3-2 to 14-2-6, Exterior(2R) 14-2-6 to 23-9-10, Interior(1) prate 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 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) 2, 11.

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

K. MORR

SEAL

Job	Truss	Truss Type	Qty	Ply	49786-0197 WOODGROVE   FUQUAY VARINA	A, NC
21-5647-R01	R03	COMMON	5	1	Job Reference (optional)	# 26724

8.430 s Feb 12 2021 MiTek Industries, Inc. Wed Sep 22 15:13:17 2021 Page 2 ID:MPr2P9H?n?aoDn?Cktxvnlzouw4-4P3?6etC7EOTEChMd3KGLyTUwb4bPd0zEfE0Pnyb2sm

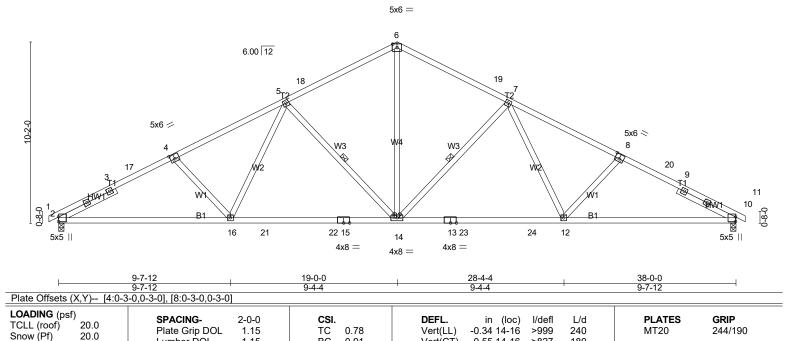
- 10) Graphical bracing representation does not depict the size, type or the orientation of the brace on the member. Symbol only indicates that the member must be braced.
- 11) Bearing symbols are only graphical representations of a possible bearing condition. Bearing symbols are not considered in the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



Job Truss Truss Type Qty 49786-0197 WOODGROVE | FUQUAY VARINA, NC 21-5647-R01 R04 Common # 26724 Job Reference (optional) 8.430 s Feb 12 2021 MiTek Industries, Inc. Wed Sep 22 15:13:18 2021 Page 1 ID:MPr2P9H?n?aoDn?Cktxvnlzouw4-YbcOK\_uquYWKrMGYBmrVtA0h9?RC88y6TJ\_axDyb2sl 12-9-3 19-0-0 31-5-11 38-0-0 0-6-8 6-6-5 6-2-13 6-2-13 6-2-13 6-2-13 6-6-5

Scale = 1:64.7



LUMBER-

TCDL

**BCLL** 

**BCDL** 

TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No.1 2x4 SP No 3 WFBS

10.0

10.0

0.0

SLIDER Left 2x4 SP No.3 - 3-7-2, Right 2x4 SP No.3 - 3-7-2 BRACING-

Vert(CT)

Horz(CT)

-0.55 14-16

10

0.12

TOP CHORD **BOT CHORD** WFBS

Structural wood sheathing directly applied or 2-2-0 oc purlins. Rigid ceiling directly applied or 10-0-0 oc bracing.

7-14, 5-14 1 Row at midpt

>827

n/a

180

n/a

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

Weight: 208 lb

FT = 20%

REACTIONS. (lb/size) 2=1553/0-3-8 (min. 0-1-13), 10=1553/0-3-8 (min. 0-1-13)

Lumber DOL

Rep Stress Incr

Code IRC2018/TPI2014

Max Horz 2=118(LC 14)

Max Uplift2=-87(LC 14), 10=-87(LC 15)

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

2-3=-2709/433, 3-17=-2629/438, 4-17=-2603/451, 4-5=-2508/435, 5-18=-1823/348,

1.15

YES

вс

WB 0.53

Matrix-SH

0.91

6-18=-1745/374. 6-19=-1745/374. 7-19=-1823/348. 7-8=-2508/435. 8-20=-2603/451.

9-20=-2629/438, 9-10=-2709/433

**BOT CHORD** 2-16=-303/2308. 16-21=-170/1992. 21-22=-170/1992. 15-22=-170/1992. 14-15=-170/1992.

13-14=-170/1992, 13-23=-170/1992, 23-24=-170/1992, 12-24=-170/1992, 10-12=-303/2308

**WEBS** 6-14=-204/1286, 7-14=-741/203, 7-12=-41/483, 8-12=-273/174, 5-14=-741/203,

5-16=-41/483, 4-16=-273/174

NOTES-(11-14)

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

2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=5.0psf; BCDL=5.0psf; h=23ff; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3E) -0-6-8 to 4-3-2, Exterior(2N) 4-3-2 to 14-2-6, Corner(3R) 14-2-6 to 23-9-10, Exterior(2N) 23-9-10 to 33-8-14, Corner(3E) 33-8-14 to 38-6-8 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) All plates are 4x4 MT20 unless otherwise indicates.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live load.
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 like between the bottom chord and any other members, with BCDL = 10.0psf.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 10.
10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



Job	Truss	Truss Type	Qty	Ply	49786-0197 WOODGROVE   FUQUAY VARINA	A, NC
21-5647-R01	R04	Common	7	1	Job Reference (optional)	# 26724

8.430 s Feb 12 2021 MiTek Industries, Inc. Wed Sep 22 15:13:19 2021 Page 2 ID:MPr2P9H?n?aoDn?CktxvnIzouw4-0nAmXKvTfsfATWqIIUMkQNYsvOnQtbCGizj7Tgyb2sk

- 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.





8.430 s Feb 12 2021 MiTek Industries, Inc. Wed Sep 22 15:13:22 2021 Page 1 ID:MPr2P9H?n?aoDn?Cktxvnlzouw4-QMsu9MxLyn1lKzZKQcwR20AOKcsO4xdiOxyn4\_yb2sh

Structural wood sheathing directly applied or 5-1-12 oc purlins. Rigid ceiling directly applied or 6-0-0 oc bracing, Except:

MiTek recommends that Stabilizers and required cross bracing

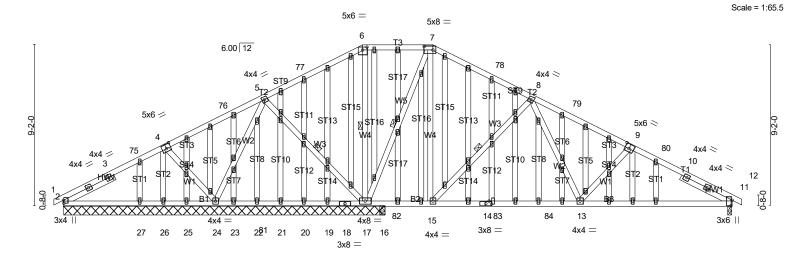
be installed during truss erection, in accordance with Stabilizer

5-17, 6-17, 7-17, 8-15

10-0-0 oc bracing: 13-15,11-13.

1 Row at midpt

17-0-0 21-0-0 26-6-13 32-1-11 38-0-0 5-10-5 11-5-3 0-6-8 5-10-5 5-6-13 5-6-13 4-0-0 5-6-13 5-6-13 5-10-5



ļ	8-7-12 8-7-12	17-0-0 8-4-4	18-0-0 21-0-0 1-0-0 3-0-0	29-4-4 8-4-4	38-0-0 8-7-12
Plate Offsets (X,Y) [2:0-	2-1,0-0-5], [4:0-3-0,0-3-0], [6:0-3				
CADING (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 IRC2018/TPI2014	TC 0.7' BC 0.70 WB 0.6	70 Ve 62 Ho	t(LL) -0.21 13-15 >999 t(CT) -0.31 13-15 >758	PLATES GRIP 240 MT20 244/190 180 n/a Weight: 410 lb FT = 20%

BRACING-

WFBS

TOP CHORD

BOT CHORD

LUMBER-

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

B1: 2x4 SP No.3 WEBS 2x4 SP No 3 2x4 SP No.3 **OTHERS** 

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

REACTIONS. All bearings 18-3-8 except (jt=length) 11=0-3-8, 16=0-3-8.

(lb) - Max Horz 2=-106(LC 19)

Max Uplift All uplift 100 b or less at joint(s) 2, 17, 11, 26, 16 except 24=-139(LC 14)

Max Grav All reactions 250 lb or less at joint(s) 19, 20, 21, 22, 23, 25, 26, 27, 16 except 2=314(LC 54),

24=412(LC 39), 17=2121(LC 39), 11=868(LC 39)

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

2-3=-296/67, 5-76=0/331, 5-77=0/577, 6-77=0/724, 6-7=0/560, 8-79=-800/119,

9-79=-1030/106, 9-80=-1166/126, 10-80=-1232/113, 10-11=-1315/111 14-15=0/584, 14-83=0/584, 83-84=0/584, 13-84=0/584, 11-13=-50/1102

BOT CHORD WEBS 4-24=-482/135, 5-17=-564/119, 6-17=-582/43, 7-17=-1266/56, 7-15=-31/895,

8-15=-959/148, 8-13=-8/578, 9-13=-432/125

NOTES-(14-17)

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

2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph, TCDL=5.0psf; BCDL=5.0psf; h=23ft; Cat. II; Exp B; Enclosed: MWFRS (envelope) gable end zone and C-C Corner(3) -0-6-8 to 4-3-2, Exterior(2E) 4-3-2 to 33-8-14, Corner(3) 33-8-14 to 38-6-8 zone; 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

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 studs spaced at 1-4-0 oc.

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

11) \* This truss has been designed for a live load of 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.

12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 17, 11, 26, 16 except (it=lb) 24=139

except (jt=lb) 24=139.

13) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced

Job	Truss	Truss Type	Qty	Ply	49786-0197 WOODGROVE   FUQUAY VARINA, NC
21-5647-R01	R05	GABLE	1	1	Job Reference (optional) # 26724

8.430 s Feb 12 2021 MiTek Industries, Inc. Wed Sep 22 15:13:23 2021 Page 2 ID:MPr2P9H?n?aoDn?CktxvnIzouw4-uZQHNiyzj49cy78W\_JRgaDjY40CdpOtrcbhLcRyb2sg

- 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

17) SEE BCSI-B3 SUMMARY SHEET- PERMANEŇŤ RESTRAING/BRĂCINĞ OF CHORDS & WEB MEMBERS FOR RECOMMENDED MINIMUM BRACING REQUIREMENT 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.



Job Truss Truss Type Qty 49786-0197 WOODGROVE | FUQUAY VARINA, NC 21-5647-R01 R07 GABLE # 26724 Job Reference (optional)

8.430 s Feb 12 2021 MiTek Industries, Inc. Wed Sep 22 15:13:25 2021 Page 1 ID:MPr2P9H?n?aoDn?CktxvnIzouw4-rxX1oO\_DFiPKBRIv5kT8feo3zp2MHR584vAShJyb2se 20-0-0

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

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

10-0-0 20-6-8 0-6-8 10-0-0 10-0-0

Scale = 1:36.2

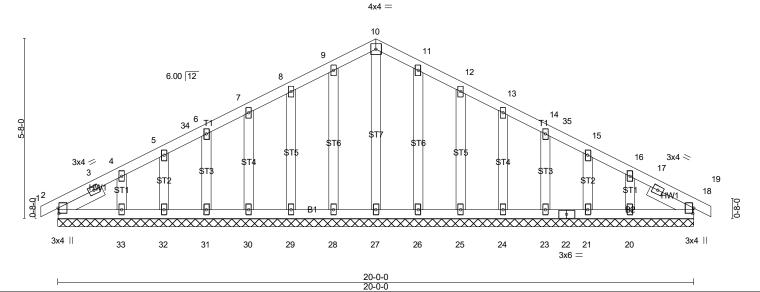


Plate Offsets (X,Y)-- [2:0-2-1,0-0-5], [18:0-2-1,0-0-5] LOADING (psf) SPACING-DEFL. **PLATES** GRIP 2-0-0 CSI. in (loc) I/defl I/d TCLL (roof) 20.0 Plate Grip DOL 1.15 TC 0.04 Vert(LL) 0.00 18 n/r 180 MT20 244/190 Snow (Pf) 20.0 Lumber DOL 1.15 вс 0.05 Vert(CT) 0.00 18 n/r 80 TCDL 10.0 WB 0.06 Rep Stress Incr YES Horz(CT) 0.00 18 n/a n/a **BCLL** 0.0 Code IRC2018/TPI2014 Weight: 127 lb Matrix-SH FT = 20%**BCDL** 10.0

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

SLIDER Left 2x4 SP No.3 - 1-6-7, Right 2x4 SP No.3 - 1-6-7

REACTIONS. All bearings 20-0-0

(lb) - Max Horz 2=-64(LC 15)

Max Uplift All uplift 100 lb or less at joint(s) 2, 28, 29, 30, 31, 32, 33, 26, 25, 24, 23, 21, 20

Max Grav All reactions 250 lb or less at joint(s) 2, 27, 28, 29, 30, 31, 32, 33, 26, 25, 24, 23, 21, 20, 18

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

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

- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=5.0psf; BCDL=5.0psf; h=23ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3E) -0-6-8 to 4-3-2, Exterior(2N) 4-3-2 to 5-2-6, Corner(3R) 5-2-6 to 14-9-10, Exterior(2N) 14-9-10 to 15-8-14, Corner(3E) 15-8-14 to 20-6-8 zone; 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.

7) All plates are 2x4 MT20 unless otherwise indicated.
8) Gable requires continuous bottom chord bearing.
9) Gable studs spaced at 1-4-0 oc.
10) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
11) \* This truss has been designed for a live load of 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.
12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 28, 29, 30, 31, 332, 33, 26, 25, 24, 23, 21, 20.
13) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

Job	Truss	Truss Type	Qty	Ply	49786-0197 WOODGROVE   FUQUAY VARINA, NC
21-5647-R01	R07	GABLE	1	1	Job Reference (optional) # 26724

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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 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

17) SEE BCSI-B3 SUMMARY SHEET- PERMANEŇŤ RESTRAING/BRĂCINĞ OF CHORDS & WEB MEMBERS FOR RECOMMENDED MINIMUM BRACING REQUIREMENT 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.

