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 #: 44030 JOB: 24-0136-R01

JOB NAME: LOT 16 PROVIDENCE CREEK

Wind Code: 37

Wind Speed: Vult= 120mph

Exposure Category: B

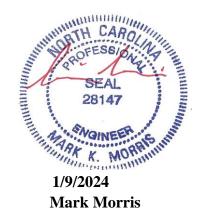
Mean Roof Height (feet): 35

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

24 Truss Design(s)

Trusses:

PB01, PB02, R01, R02, R02A, R03, R03A, R04, R05, R07, R08, R09, R10, R11, VT01, VT02, VT03, VT04, VT05, VT06, VT07, VT08, VT09, VT10



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

Job Truss Truss Type LOT 16 PROVIDENCE CREEK | 234 DAVINHALL DRIVE FUQUAY-VARINA, NC GABLE 24-0136-R01 PB01 # 44030 Job Reference (optional) Run: 8.430 s Feb 12 2021 Print: 8.430 s Feb 12 2021 MiTek Industries, Inc. Wed Jan 10 17:15:56 2024 Page 1 ID:2OYuXCSZgcKAUakfxRl2BEyzqFZ-5aenRuhvpauwz7GKX8oxDlzbPLbPXCCnO_5iwczwiZX 7-6-0 15-0-0 7-6-0 7-6-0 Scale: 1/2"=1' 4x4 =4 2x4 || 2x4 || 5.00 12 5 3 13 12 ST2 14 q 8 10 3x4 =3x4 =2x4 || 2x4 || 2x4 || 15-0-0 15-0-0 LOADING (psf) GRIP SPACING-CSI. DEFL. PLATES 2-0-0 (loc) I/defl L/d in TCLL (roof) 20.0 Plate Grip DOL 1.15 TC 0.28 Vert(LL) n/a n/a 999 MT20 244/190 Snow (Pf) 20.0 Lumber DOL 1.15 BC 0.21 Vert(CT) n/a n/a 999 TCDL 10.0 Rep Stress Incr YES WB 0.07 Horz(CT) 0.00 6 n/a n/a **BCLL** 0.0 Code IRC2021/TPI2014 Weight: 51 lb FT = 20% Matrix-S BCDL 10.0 BRACING-LUMBER-TOP CHORD 2x4 SP No.2 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins. Rigid ceiling directly applied or 10-0-0 oc bracing BOT CHORD 2x4 SP No.3 BOT CHORD OTHERS 2x4 SP No.3 MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide. All bearings 15-0-0. REACTIONS. (lb) - Max Horz 1=-44(LC 15)

Max Uplift All uplift 100 lb or less at joint(s) 2, 6, 10, 8 except 1=-129(LC 21), 7=-129(LC 22)

Max Grav All reactions 250 lb or less at joint(s) 1, 7, 9 except 2=410(LC 21), 6=410(LC 22), 10=429(LC 21),

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

3-10=-338/153, 5-8=-338/153

(12-15) NOTES-

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

- 2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mpn; TCDL=5.0psf; BCDL=5.0psf; h=35ft; Cat. II; Exp B; Enclosed; Gable Roof; Common Truss; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-4-9 to 5-2-2, Exterior(2R) 5-2-2 to 9-9-14, Exterior(2E) 9-9-14 to 14-7-7 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) 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) Gable requires continuous bottom chord bearing.

7) Gable studs spaced at 2-0-0 oc.

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

10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 6, 10, 8 except (jt=lb) 1=129, 7=129.

11) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building

Gable studs spaced at 2-0-0 oc.
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.

Drovide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 6, 10, 8 except (jt=lb) 1=129, 7=129.

See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

Job	Truss	Truss Type	Qty	Ply	LOT 16 PROVIDENCE CREEK 234 DAVINHALL DRIVE FUQU	JAY-VARINA, NO
24-0136-R01	PB01	GABLE	2	1	Job Reference (optional) # 440.	30

Run: 8.430 s Feb 12 2021 Print: 8.430 s Feb 12 2021 MiTek Industries, Inc. Wed Jan 10 17:15:57 2024 Page 2 ID:2OYuXCSZgcKAUakfxRl2BEyzqFZ-ZmCAeDiXau0mbHrW4rJAmzVm9lxeGeRxdeqGS2zwiZW

- 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

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



Job Truss Truss Type Qtv LOT 16 PROVIDENCE CREEK | 234 DAVINHALL DRIVE FUQUAY-VARINA, NC 24-0136-R01 PB02 Piggyback 19 # 44030 Job Reference (optional) Run: 8.430 s Feb 12 2021 Print: 8.430 s Feb 12 2021 MiTek Industries, Inc. Wed Jan 10 17:15:58 2024 Page 1 ID:2OYuXCSZgcKAUakfxRl2BEyzqFZ-1ymYsZj9LB9dDQPieYqPlA2oK9Av?5O4rlap_UzwiZV 7-6-0 15-0-0 7-6-0 7-6-0 Scale = 1:24.7 4x6 = 3 5.00 12 10 0-4-5 6 3x4 =3x4 =2x4 || 15-0-0 Plate Offsets (X,Y)-- [2:0-0-14,Edge], [4:0-0-14,Edge] LOADING (psf) DEFL. **PLATES** GRIP SPACING-2-0-0 CSI. in (loc) I/defl I/d TCLL (roof) 20.0 Plate Grip DOL 1.15 TC 0.83 Vert(LL) 0.03 n/r 180 MT20 244/190 Snow (Pf) 20.0 Lumber DOL 1.15 вс 0.65 Vert(CT) 0.06 5 n/r 80 TCDL 10.0 WB 0.09 4 Rep Stress Incr YES Horz(CT) 0.00 n/a n/a **BCLL** 0.0 Code IRC2021/TPI2014 Weight: 46 lb Matrix-S FT = 20%BCDL 10.0 LUMBER-BRACING-Structural wood sheathing directly applied or 6-0-0 oc purlins. TOP CHORD 2x4 SP No.2 TOP CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. BOT CHORD 2x4 SP No.3 BOT CHORD 2x4 SP No 3 OTHERS MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide **REACTIONS.** (lb/size) 2=274/12-7-10 (min. 0-1-8), 4=274/12-7-10 (min. 0-1-8), 6=560/12-7-10 (min. 0-1-8) Max Horz 2=-44(LC 15) Max Uplift2=-62(LC 14), 4=-70(LC 15), 6=-34(LC 14) Max Grav 2=349(LC 21), 4=349(LC 22), 6=568(LC 21) FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. WFBS 3-6=-379/195 NOTES-(11-14)1) Unbalanced roof live loads have been considered for this design. 2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mpn; TCDL=5.0psf; BCDL=5.0psf; h=35ft; Cat. II; Exp B; Enclosed; Gable Roof; Common Truss; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-4-9 to 5-2-2, Exterior(2R) 5-2-2 to 9-9-14, Exterior(2E) 9-9-14 to 14-7-7 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough SEAL 28147

NONEER MORNING Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10 4) Unbalanced snow loads have been considered for this design. 5) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads 6) Gable requires continuous bottom chord bearing. 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members. 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 4, 6. 10) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building

CONSIDERATIONS.

0-1-10

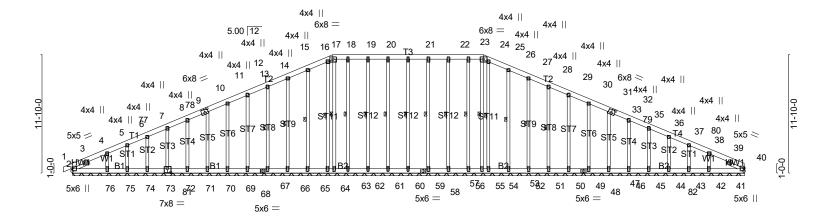
- 11) Graphical bracing representation does not depict the size, type or the orientation of the brace on the member. Symbol only indicates
- 12) Bearing symbols are only graphical representations of a possible bearing condition. Bearing symbols are not considered in the
- Graphical bracing representation 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 process of the proce 13) Web bracing shown is for lateral support of individual web members only. Refer to BCSI - Guide to Good Practice for Handling, 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

Job Truss Truss Type LOT 16 PROVIDENCE CREEK | 234 DAVINHALL DRIVE FUQUAY-VARINA, NC 24-0136-R01 R01 GABLE # 44030 Job Reference (optional) Run: 8.430 s Feb 12 2021 Print: 8.430 s Feb 12 2021 MiTek Industries, Inc. Wed Jan 10 17:16:02 2024 Page 1 ID:2OYuXCSZgcKAUakfxRl2BEyzqFZ-wj?3ixmgPQf3h2jUtOvLT0DhQmhBxtJgmwY17FzwiZR -0₇10-8 0-10-8 26-0-0 41-0-0 67-0-0 26-0-0 15-0-0 26-0-0

Scale = 1:114.9



67-0-0 67-0-0 Plate Offsets (X,Y)-- [9:0-4-0,0-4-0], [33:0-4-0,0-4-0], [73:0-4-0,0-4-8] LOADING (psf) **PLATES** GRIP SPACING-2-0-0 CSI. DEFL. in (loc) I/defl I/d TCLL (roof) 20.0 Plate Grip DOL 1.15 TC 0.06 Vert(LL) -0.00n/r 180 MT20 244/190 Snow (Pf) 20.0 Lumber DOL 1.15 вс 0.06 Vert(CT) 0.00 n/r 80 TCDL 10.0 0.22 Rep Stress Incr YES WB Horz(CT) 0.01 40 n/a n/a **BCLL** 0.0 Code IRC2021/TPI2014 Matrix-SH Weight: 697 lb FT = 20%

LUMBER-

BCDL

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

10.0

SLIDER Left 2x4 SP No.3 -° 1-10-0, Right 2x4 SP No.3 -° 1-10-0 BRACING-

TOP CHORD **BOT CHORD** WFBS

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

21-59, 20-60, 19-61, 18-62, 16-64, 15-65, 1 Row at midpt

14-66, 13-67, 17-63, 22-57, 23-56, 24-55, 26-53, 27-52, 28-51, 29-50, 25-54

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

REACTIONS. All bearings 67-0-0.

(lb) - Max Horz 2=-171(LC 15)

Max Uplift All uplift 100 lb or less at joint(s) 2, 59, 60, 61, 62, 65, 66, 67, 69, 70, 71, 72, 73, 74, 75, 57, 56, 55, 52, 51, 50, 49, 47, 46, 45, 44, 43, 42 except

41=-105(LC 15), 76=-119(LC 14)

Max Grav All reactions 250 lb or less at joint(s) 2, 40, 62, 64, 72, 73, 74, 75, 63, 55, 53, 45, 44, 43, 42, 54 except 59=287(LC 44), 60=287(LC 44), 61=295(LC 44), 65=293(LC 45), 66=289(LC 45), 67=287(LC 45), 69=286(LC 45), 70=288(LC 45), 71=284(LC 45), 57=287(LC 44), 56=295(LC 44), 52=293(LC 45), 51=289(LC 45), 50=287(LC 45), 49=286(LC 45), 47=288(LC 45), 46=284(LC 45), 41=274(LC 55),

76=261(LC 54)

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

TOP CHORD 13-14=-106/261, 14-15=-122/297, 15-16=-136/329, 16-17=-134/329, 17-18=-132/326, 18-19=-132/326, 19-20=-132/326, 20-21=-132/326, 21-22=-132/326, 22-23=-132/326, 23-24=-132/326, 24-25=-132/326, 25-26=-134/329, 26-27=-136/329, 27-28=-122/297,

28-29=-106/261

(15-18)

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

2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph, TCDL=5.0psf; BCDL=5.0psf; h=35ft; Cat. II; Exp B; Enclosed; Gable Roof; Common Truss; MWFRS (envelope) gable end zone and C-C Corner(3E) -0-10-8 to 5-9-14, Exterior(2N) 5-9-14 to 19-3-10, Corner(3R) 19-3-10 to 32-8-6, Exterior(2N) 32-8-6 to 34-3-10, Corner(3R) 34-3-10 to 47-6-0, Exterior(2N) 47-6-0 to 60-3-10, Corner(3E) 60-3-10 to 67-0-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

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

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

Job	Truss	Truss Type	Qty	Ply	LOT 16 PROVIDENCE CREEK 234 DAVINHALL D	RIVE FUQUAY-VARINA, N
24-0136-R01	R01	GABLE	2	1	Job Reference (optional)	# 44030

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NOTES- (15-18)

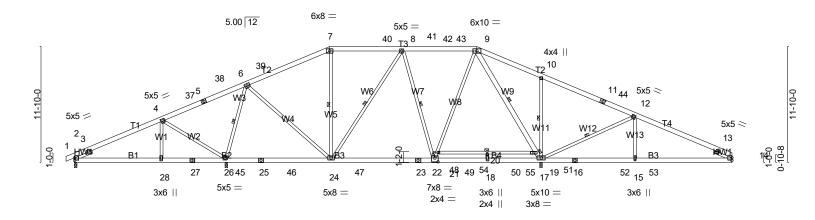
- 7) WARNING: This long span truss requires extreme care and experience for proper and safe handling and erection. For general handling and erection guidance, see Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses ("BCSI"), jointly produced by SBCA and TPI. The building owner or the owner's authorized agent shall contract with a qualified registered design professional for the design and inspection of the temporary installation restraint/bracing and the permanent individual truss member restraint/bracing. MiTek assumes no responsibility for truss manufacture, handling, erection, or bracing.
- 8) Provide adequate drainage to prevent water ponding.
- 9) All plates are 3x6 MT20 unless otherwise indicated.
- 10) Gable requires continuous bottom chord bearing.
- 11) Gable studs spaced at 2-0-0 oc.
- 12) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 13) * 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.
- 14) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 59, 60, 61, 62, 65, 66, 67, 69, 70, 71, 72, 73, 74, 75, 57, 56, 55, 52, 51, 50, 49, 47, 46, 45, 44, 43, 42 except (jt=lb) 41=105, 76=119.
- 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
- 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	Tru	ISS	Truss Type		Qty	Ply I	LOT 16 PROVIDENCE CREEK	234 DAVINHALL DRIVE FUQUAY-VARINA	, NC
24-0136-R01	R02	2	Piggyback Base		2	1	Job Reference (optional)	# 44030	
								stries, Inc. Wed Jan 10 17:16:04 2024 Page vnxMts?pxpYRlt2aD7PcgzEE18C8zwi	
-0 ₁ 1Q-8	8-10-5	17-5-3	26-0-0	33-6-0	41-0-0	47-6-12	57-1-10	67-0-0	
0-10-8	8-10-5	8-6-13	8-6-13	7-6-0	7-6-0	6-6-12	9-6-14	9-10-6	

Scale = 1:117.4



8-10-5 Plate Offsets (X,Y) [22:0	6-7-7 0-4-0 0-4-81	10-6-4	10-6-12	5-6-0	5-6-0	9-6-14	9-10-6	_
LOADING (psf) Z0.0 Snow (Pf) Z0.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr Code IRC2021/		CSI. TC 0.69 BC 0.67 WB 0.93 Matrix-MSH	` ,	in (loc) -0.31 20-21 -0.43 20-21 0.03 17	l/defl L/d >999 240 >893 180 n/a n/a	PLATES MT20 Weight: 525 lb	GRIP 244/190 FT = 20%

36-6-12

LUMBER-BRACING-TOP CHORD 2x6 SP No.2 TOP CHORD

26-0-0

BOT CHORD 2x6 SP No.2 *Except*

8_10_5

B4: 2x6 SP DSS, B5: 2x4 SP No.2 WFBS

2x4 SP No.3 *Except* W9: 2x6 SP No.2

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

15-5-12

WFBS

BOT CHORD

42-0-12

6-0-0 oc bracing: 19-21

47-6-12

6-26, 7-24, 8-24, 8-22, 9-19, 10-17, 12-17 1 Row at midpt

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

Rigid ceiling directly applied or 9-8-5 oc bracing. Except:

67-0-0

57-1-10

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

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

(lb) - Max Horz 2=172(LC 14)

Max Uplift All uplift 100 lb or less at joint(s) except 2=-102(LC 14), 26=-229(LC 14), 17=-146(LC 15), 14=-126(LC

Max Grav All reactions 250 lb or less at joint(s) except 2=628(LC 41), 26=2357(LC 45), 17=3149(LC 45), 14=664(LC 43)

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

TOP CHORD $2\text{-}3\text{=-}394/0, \, 3\text{-}4\text{=-}694/117, \, 6\text{-}38\text{=-}0/293, \, 6\text{-}39\text{=-}1177/275, \, 7\text{-}39\text{=-}1127/305, \, 7\text{-}40\text{=-}1040/327, \, 7\text{-}30\text{=-}1040/327, \, 7\text{-}30\text{=-}1$

40-41=-1040/327, 8-41=-1040/327, 8-42=-1182/289, 42-43=-1182/289, 9-43=-1182/289,

9-10=-29/454, 10-11=0/479, 11-44=0/261, 12-13=-863/204, 13-14=-401/0

2-28=-191/580, 27-28=-191/580, 26-27=-191/580, 26-45=-42/415, 25-45=-42/415

25-46=-42/415, 24-46=-42/415, 24-47=-19/1310, 23-47=-19/1310, 23-48=-19/1310, 22-48=-19/1310, 22-49=0/839, 18-49=0/839, 18-50=0/839, 50-51=0/839, 17-51=0/839,

16-17=-101/731, 16-52=-101/731, 15-52=-101/731, 15-53=-101/731, 14-53=-101/731 4-28=0/286, 4-26=-816/239, 6-26=-1684/299, 6-24=-17/1003, 8-24=-455/59, 8-22=-553/197,

21-22=-54/1139, 9-21=-28/1256, 9-19=-1829/158, 17-19=-1920/133, 10-17=-865/263,

12-17=-1114/287, 12-15=0/280, 18-20=-360/0

NOTES-

BOT CHORD

WEBS

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

OTES- (13-16)

Unbalanced roof live loads have been considered for this design.

Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=5.0psf; BCDL=5.0psf; h=35ft; Cat. II; Exp B; Enclosed; Gable Roof; Hip Truss; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 5-9-14, Interior(1) 5-9-14 to 19-3-10, Exterior(2R) 19-3-10 to 32-8-6, Interior(1) 32-8-6 to 34-3-10, Exterior(2R) 34-3-10 to 47-6-12, Interior(1) 47-6-12 to 60-3-10, Exterior(2E) 60-3-10 to 67-0-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

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; Reugh Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10

Unbalanced snow loads have been considered for this design.

This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads. 2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph, TCDL=5.0psf; BCDL=5.0psf; h=35ft; Cat. II; Exp B; Enclosed; Gable

3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough

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



Job	Truss	Truss Type	Qty	Ply	LOT 16 PROVIDENCE CREEK 234 DAVINHALL D	DRIVE FUQUAY-VARINA, N
24-0136-R01	R02	Piggyback Base	2	1	Job Reference (optional)	# 44030

Run: 8.430 s Feb 12 2021 Print: 8.430 s Feb 12 2021 MiTek Industries, Inc. Wed Jan 10 17:16:04 2024 Page 2 ID:2OYuXCSZgcKAUakfxRl2BEyzqFZ-s67p7dnwx1vnxMts?pxpYRlt2aD7PcgzEE18C8zwiZP

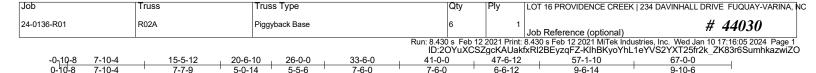
NOTES- (13-16)

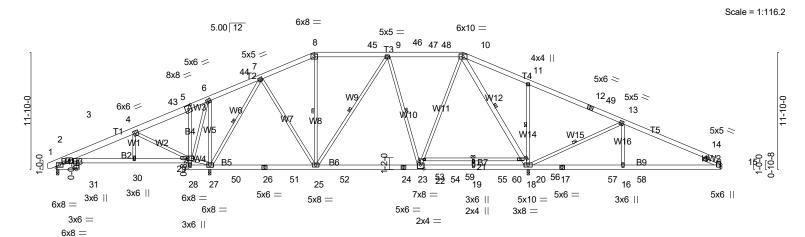
- 6) WARNING: This long span truss requires extreme care and experience for proper and safe handling and erection. For general handling and erection guidance, see Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses ("BCSI"), jointly produced by SBCA and TPI. The building owner or the owner's authorized agent shall contract with a qualified registered design professional for the design and inspection of the temporary installation restraint/bracing and the permanent individual truss member restraint/bracing. MiTek assumes no responsibility for truss manufacture, handling, erection, or bracing.
- 7) Provide adequate drainage to prevent water ponding.
- 8) All plates are 5x6 MT20 unless otherwise indicated.
- 9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 10) * This truss has been designed for a live load of 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.
- 11) Refer to girder(s) for truss to truss connections.
- 12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 102 lb uplift at joint 2, 229 lb uplift at joint 26, 146 lb uplift at joint 17 and 126 lb uplift at joint 14.
- 13) Graphical bracing representation does not depict the size, type or the orientation of the brace on the member. Symbol only indicates that the member must be braced.
- 14) Bearing symbols are only graphical representations of a possible bearing condition. Bearing symbols are not considered in the structural design of the truss to support the loads indicated
- 15) Web bracing shown is for lateral support of individual web members only. Refer to BCSI Guide to Good Practice for Handling, Installing, Restraining & Bracing of Metal Plate Connected Wood Trusses for additional bracing guidelines, including diagonal bracing.

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

LOAD CASE(S) Standard







2-3-8 7-10-4 2-3-8 5-6-12	13-4-0 15-5-12 26-0-0 5-5-13 2-1-12 10-6-4	36-6-12 10-6-12	+ 42-0-12 5-6-0 + 47-6 5-6	67-0-0 9-10-6
Plate Offsets (X,Y) [5:0-4	4-0,0-4-8], [23:0-4-0,0-4-8], [29:0-2-8,	0-3-0], [31:0-3-0,0-2-0]		
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 0.69 BC 0.67 WB 0.94 Matrix-MSH	DEFL. in Vert(LL) -0.31 2 Vert(CT) -0.43 2 Horz(CT) 0.04	PLATES GRIP MT20 244/190 Weight: 567 lb FT = 20%

BRACING-

WFBS

TOP CHORD

BOT CHORD

LUMBER-TOP CHORD 2x6 SP No.2 *Except*

T1: 2x8 SP No.2

BOT CHORD 2x6 SP No.2 *Except*

B1: 2x8 SP No.2, B7: 2x6 SP DSS, B8,B3,B4: 2x4 SP No.2

WEBS 2x4 SP No.3 *Except*

W12: 2x6 SP No.2

Right 2x4 SP No.3 -° 1-11-0 SLIDER

REACTIONS. All bearings 0-3-8 except (jt=length) 15=Mechanical.

(lb) - Max Horz 2=172(LC 14)

Max Uplift All uplift 100 lb or less at joint(s) 2 except 27=-324(LC 14), 18=-145(LC 15), 15=-129(LC 15)

Max Grav All reactions 250 lb or less at joint(s) except 2=455(LC 41), 27=2616(LC 45), 18=3094(LC 45), 15=655(LC

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

TOP CHORD 3-4=-386/95, 4-43=-135/381, 5-43=-118/477, 5-6=-86/520, 6-44=-73/468, 7-44=-56/634,

7-8=-1053/286, 8-45=-950/296, 45-46=-950/296, 9-46=-950/296, 9-47=-1128/274, 47-48=-1128/274, 10-48=-1128/274, 10-11=-14/482, 11-12=0/510, 12-49=0/290,

13-14=-843/210, 14-15=-394/0

27-50=0/549, 26-50=0/549, 26-51=0/549, 25-51=0/549, 25-52=0/1250, 24-52=0/1250, **BOT CHORD**

24-53=0/1250, 23-53=0/1250, 23-54=0/803, 19-54=0/803, 19-55=0/803, 55-56=0/803, 18-56=0/803. 17-18=-106/713. 17-57=-106/713. 16-57=-106/713. 16-58=-106/713.

15-58=-106/713, 28-29=-292/0, 3-30=-76/340, 29-30=-76/340 4-30=0/294, 4-29=-800/212, 7-27=-1703/256, 7-25=0/899, 9-25=-476/64, 9-23=-492/183, **WEBS**

22-23=-40/1095, 10-22=-14/1211, 10-20=-1790/142, 18-20=-1881/117, 11-18=-865/263, 13-18=-1117/286, 13-16=0/281, 19-21=-359/0, 6-27=-728/222, 27-29=-448/190,

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; Gables Roof; Hip Truss; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-8-4 to 6-0-3, Interior(1) 6-0-3 to 19-3-10, Exterior(2R) 19-3-10 to 32-8-6, Interior(1) 32-8-6 to 34-3-10, Exterior(2R) 34-3-10 to 47-6-12, Interior(1) 47-6-12 to 60-6 in the control of th 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.

A. MORRE

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

MiTek recommends that Stabilizers and required cross bracing

be installed during truss erection, in accordance with Stabilizer

7-27, 8-25, 9-25, 9-23, 10-20, 11-18, 13-18

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

6-0-0 oc bracing: 20-22

1 Row at midpt

Job	Truss	Truss Type	Qty	Ply	LOT 16 PROVIDENCE CREEK 234 DAV	/INHALL DRIVE FUQUAY-VARINA, N
24-0136-R01	R02A	Piggyback Base	6	1	Job Reference (optional)	# 44030
					8.430 s Feb 12 2021 MiTek Industries, Inc. 2BEyzqFZ-oVFZXIpASf9VAf1F6E_H	

NOTES- (12-15)

- 6) WARNING: This long span truss requires extreme care and experience for proper and safe handling and erection. For general handling and erection guidance, see Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses ("BCSI"), jointly produced by SBCA and TPI. The building owner or the owner's authorized agent shall contract with a qualified registered design professional for the design and inspection of the temporary installation restraint/bracing and the permanent individual truss member restraint/bracing. MiTek assumes no responsibility for truss manufacture, handling, erection, or bracing.
- 7) Provide adequate drainage to prevent water ponding.
- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 9) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 10) Refer to girder(s) for truss to truss connections.
- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2 except (jt=lb) 27=324, 18=145, 15=129.
- 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
- 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
- 14) Web Dracing shown is for lateral support of individual web members only. Need to book a Guide to Good a racing of a Casarag of Bracing of Connected Wood Trusses for additional bracing guidelines, including diagonal bracing.

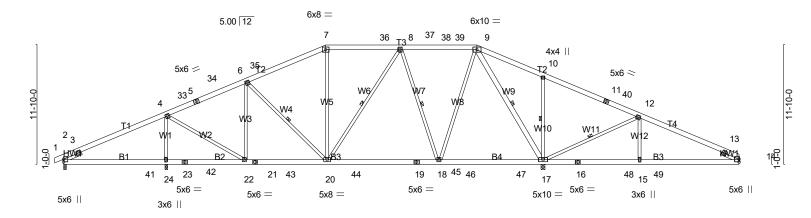
 15) SEE BCSI-B3 SUMMARY SHEET- PERMANENT RESTRAING/BRACING OF CHORDS & WEB MEMBERS FOR RECOMMENDED MINIMUM BRACING REQUIREMENTS OF TOP CHORD, BOTTOM CHORD, AND WEB PLANES. IN ADDITION TO THESE MINIMUM GUIDELINES, ALWAYS CONSULT THE PROJECT ARCHITECT OR ENGINEER FOR ADDITIONAL BRACING CONSIDERATIONS.

LOAD CASE(S) Standard



Job	Truss	Truss Type	Qty	Ply	LOT 16 PROVIDENCE CREEK 2	34 DAVINHALL DRIVE FUQUAY-VARINA, N	С
24-0136-R01	R03	Piggyback Base	1	1	Job Reference (optional)	# 44030	
						ies, Inc. Wed Jan 10 17:16:09 2024 Page 1 (317IqnMX FV?jXbwf4spiNWkutLzwiZK	
-0 _T 1Q-8 10-1-1	2 18-0-14	26-0-0 33-6-0	41-0-0	47-6-1	2 57-1-10	67-0-0	
0-10-8 10-1-1	2 7-11-2	7-11-2 7-6-0	7-6-0	6-6-12	2 9-6-14	9-10-6	

Scale = 1:114.3



	10-1-12	18-0-14	26-0-0	37-2-12	47-6-12	57-1-10	67-0-0
	10-1-12	7-11-2	7-11-2	11-2-12	10-4-0	9-6-14	9-10-6
Snow (Pf) 7 TCDL BCLL	20.0 20.0 10.0 0.0 *	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr Code IRC2021/TP	2-0-0 1.15 1.15 YES I2014	CSI. TC 0.71 BC 0.64 WB 1.00 Matrix-MSH	Vert(LL) 0.13 24-27 >	/defl L/d 904 240 999 180 n/a n/a	PLATES GRIP MT20 244/190 Weight: 512 lb FT = 20%

LUMBER-

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

B4: 2x6 SP DSS

WEBS 2x4 SP No.3 *Except* W9: 2x6 SP No.2

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

TOP CHORD **BOT CHORD** WFBS

Structural wood sheathing directly applied or 5-1-12 oc purlins. Rigid ceiling directly applied or 10-0-0 oc bracing.

6-20, 8-20, 8-18, 9-17, 10-17, 12-17 1 Row at midpt

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

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

(lb) - Max Horz 2=172(LC 14)

Max Uplift All uplift 100 lb or less at joint(s) except 2=-194(LC 10), 24=-187(LC 14), 17=-245(LC 11), 14=-125(LC

Max Grav All reactions 250 lb or less at joint(s) except 2=594(LC 54), 24=2081(LC 45), 17=3134(LC 45), 14=646(LC 43)

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

TOP CHORD 2-3=-356/455, 3-4=-559/466, 4-33=-1719/447, 5-33=-1650/451, 5-34=-1638/456,

6-34=-1526/474, 6-35=-1632/452, 7-35=-1551/480, 7-36=-1433/488, 36-37=-1433/488,

8-37=-1433/488, 8-38=-1161/386, 38-39=-1161/386, 9-39=-1161/386, 9-10=0/576,

10-11=0/576, 11-40=0/384, 12-40=0/327, 12-13=-828/198, 13-14=-438/0

BOT CHORD 2-41=-363/443, 24-41=-363/443, 24-42=-363/443, 23-42=-363/443, 22-23=-363/443,

21-22=-263/1492, 21-43=-263/1492, 20-43=-263/1492, 20-44=-144/1412, 19-44=-144/1412,

19-45=-144/1412, 18-45=-144/1412, 18-46=-20/780, 46-47=-20/780, 17-47=-20/780, 16-17=-96/699, 16-48=-96/699, 15-48=-96/699, 15-49=-96/699, 14-49=-96/699

4-24=-1706/255, 4-22=0/1338, 6-22=-485/72, 6-20=-328/311, 7-20=0/281, 8-20=-80/485,

8-18=-871/258, 9-18=-137/1383, 9-17=-2048/276, 10-17=-865/262, 12-17=-1141/276,

12-15=0/397

NOTES-

WEBS

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

viriu: ASCE /-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=5.0psf; BCDL=5.0psf; h=35ft; Cat. II; Exp B; Enclosed; Gable Roof, Hip Truss; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 5-9-14, Interior(1) 5-9-14 to 19-3-10, Exterior(2R) 19-3-10 to 32-8-6, Interior(1) 32-8-6 to 34-3-10, Exterior(2R) 34-3-10 to 47-6-12, Interior(1) 47-6-12 to 60-3-10. Exterior(2F) 60-3-10 MWFRS for reactions showed that the possed results and right exposed results and right exposed results and right exposed results. 2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph, TCDL=5.0psf; BCDL=5.0psf; h=35ft; Cat. II; Exp B; Enclosed; Gable 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.



Job	Truss	Truss Type	Qty	Ply	LOT 16 PROVIDENCE CREEK 234 DAVINI	HALL DRIVE FUQUAY-VARINA, N
24-0136-R01	R03	Piggyback Base	1	1	Job Reference (optional)	# 44030
					8.430 s Feb 12 2021 MiTek Industries, Inc. WakfxRI2BEyzqFZ-C4wiAKr3IaX317IqnM	

NOTES- (13-16)

- 6) WARNING: This long span truss requires extreme care and experience for proper and safe handling and erection. For general handling and erection guidance, see Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses ("BCSI"), jointly produced by SBCA and TPI. The building owner or the owner's authorized agent shall contract with a qualified registered design professional for the design and inspection of the temporary installation restraint/bracing and the permanent individual truss member restraint/bracing. MiTek assumes no responsibility for truss manufacture, handling, erection, or bracing.
- 7) Provide adequate drainage to prevent water ponding.
- 8) All plates are 5x5 MT20 unless otherwise indicated.
- 9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 10) * This truss has been designed for a live load of 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.
- 11) Refer to girder(s) for truss to truss connections.
- 12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 194 lb uplift at joint 2, 187 lb uplift at joint 24, 245 lb uplift at joint 17 and 125 lb uplift at joint 14.
- 13) Graphical bracing representation does not depict the size, type or the orientation of the brace on the member. Symbol only indicates that the member must be braced.
- 14) Bearing symbols are only graphical representations of a possible bearing condition. Bearing symbols are not considered in the structural design of the truss to support the loads indicated.
- 15) Web bracing shown is for lateral support of individual web members only. Refer to BCSI Guide to Good Practice for Handling, Installing, Restraining & Bracing of Metal Plate Connected Wood Trusses for additional bracing guidelines, including diagonal bracing.

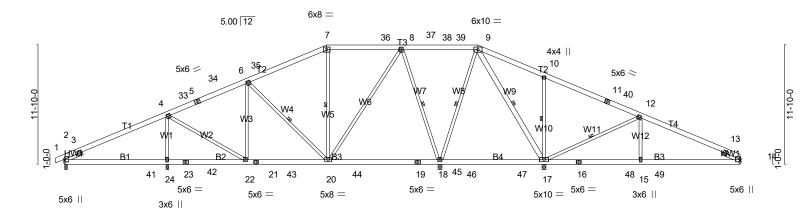
 16) SEE BCSI-B3 SUMMARY SHEET- PERMANENT RESTRAING/BRACING OF CHORDS & WEB MEMBERS FOR RECOMMENDED MINIMUM BRACING REQUIREMENTS
- OF TOP CHORD, BOTTOM CHORD, AND WEB PLANES. IN ADDITION TO THESE MINIMUM GUIDELINES, ALWAYS CONSULT THE PROJECT ARCHITECT OR ENGINEER FOR ADDITIONAL BRACING CONSIDERATIONS.

LOAD CASE(S) Standard



Job	Truss		Truss Type		Qty	Ply	LOT 16 PROVIDENCE CREEK 2	34 DAVINHALL DRIVE FUQUAY-VARINA,	NC
24-0136-R01	R03A		Piggyback Base		1	1	Job Reference (optional)	# 44030	
								ies, Inc. Wed Jan 10 17:16:12 2024 Page [.] IaUPTV5ht7dE3ozfHDz83UzZUgzwiZ	
-0 _⊤ 1Q-8	10-1-12	18-0-14	26-0-0	33-6-0	41-0-0	47-6-12	2 57-1-10	67-0-0	
0-10-8	10-1-12	7-11-2	7-11-2	7-6-0	7-6-0	6-6-12	9-6-14	9-10-6	

Scale = 1:114.3



	10-1-12 10-1-12	18-0-14 7-11-2	26-0-0 7-11-2	37-2-12 11-2-12		47-6-12 10-4-0	-	57-1-10 9-6-14	67-0-0 9-10-6	
LOADING (psf TCLL (roof) Snow (Pf) TCDL BCLL BCDL	20.0 20.0 10.0 0.0 *	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr Code IRC2021/TF	2-0-0 1.15 1.15 YES PI2014	CSI. TC 0.69 BC 0.56 WB 0.98 Matrix-MSH	DEFL. Vert(LL) Vert(CT) Horz(CT)	in (loc) 0.13 24-27 -0.23 18-20 0.02 2	I/defl >903 >999 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 512 lb	GRIP 244/190 FT = 20%

LUMBER-

TOP CHORD 2x6 SP No.2

BOT CHORD 2x6 SP No.2 *Except*

B4: 2x6 SP DSS

WEBS 2x4 SP No.3 *Except* W9: 2x6 SP No 2

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

BRACING-TOP CHORD

Structural wood sheathing directly applied or 5-10-15 oc purlins. BOT CHORD

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

6-0-0 oc bracing: 17-18.

WFBS 6-20, 7-20, 8-18, 9-18, 9-17, 10-17, 12-17 1 Row at midpt

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

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

- Max Horz 2=172(LC 14)

Max Uplift All uplift 100 lb or less at joint(s) except 2=-197(LC 10), 24=-168(LC 14), 18=-162(LC 10), 17=-272(LC

15), 14=-124(LC 15)

Max Grav All reactions 250 lb or less at joint(s) except 2=619(LC 54), 24=1555(LC 45), 18=2078(LC 44),

17=1811(LC 39), 14=676(LC 55)

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

2-3=-373/459, 3-4=-612/475, 4-33=-1279/380, 5-33=-1194/384, 5-34=-1179/388,

6-34=-1042/407, 6-35=-892/352, 7-35=-762/379, 7-36=-701/395, 36-37=-701/395

8-37=-701/395, 8-38=-39/300, 38-39=-39/300, 9-39=-39/300, 9-10=-29/465, 10-11=0/480,

11-40=0/271, 12-13=-896/195, 13-14=-464/0

2-41=-372/491, 24-41=-372/491, 24-42=-372/491, 23-42=-372/491, 22-23=-372/491,

21-22=-201/1067, 21-43=-201/1067, 20-43=-201/1067, 20-44=-8/379, 19-44=-8/379,

19-45=-8/379, 18-45=-8/379, 16-17=-93/761, 16-48=-93/761, 15-48=-93/761,

15-49=-93/761, 14-49=-93/761

WEBS 4-24=-1246/236, 4-22=0/755, 6-20=-576/193, 8-20=-119/1002, 8-18=-1365/330,

9-18=-253/62, 9-17=-319/51, 10-17=-863/262, 12-17=-1138/276, 12-15=0/397

NOTES-

BOT CHORD

Unbalanced roof live loads have been considered for this design.

Roof; Hip Truss; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 5-9-14, Interior(1) 5-9-14 to 19-3-10, Exterior(2R) 32-8-6, Interior(1) 32-8-6 to 34-3-10, Exterior(2R) 34-3-10 to 47-6-12, Interior(1) 47-6-12 to 60-3-10. Exterior(2F) 60-3-10 to 34-3-10 to 34-2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph, TCDL=5.0psf; BCDL=5.0psf; h=35ft; Cat. II; Exp B; Enclosed; Gable 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) WARNING: This long span truss requires extreme care and experience for proper and safe handling and erection. For general handling and erection guidance, see Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses ("BCSI"), jointly produced by SBCA and TPI. The building owner or the owner's authorized agent shall contract with a qualified registered design professional for the design and inspection of the temporary installation restraint/bracing and the permanent individual truss member

SEAL

Job	Truss	Truss Type	Qty	Ply	LOT 16 PROVIDENCE CREEK 234 DAVINHALL DRIVE FUQUAY-VAR	NA, NC
24-0136-R01	R03A	Piggyback Base	1	1	Job Reference (optional) # 44030	

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NOTES-(13-16)

- 7) Provide adequate drainage to prevent water ponding.
- 8) All plates are 5x5 MT20 unless otherwise indicated.
- 9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 10) * This truss has been designed for a live load of 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.
- 11) Refer to girder(s) for truss to truss connections.
- 12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 197 lb uplift at joint 2, 168 lb uplift at joint 24, 162 lb uplift at joint 18, 272 lb uplift at joint 17 and 124 lb uplift at joint 14.
- 13) Graphical bracing representation does not depict the size, type or the orientation of the brace on the member. Symbol only indicates that the member must be braced.
- 14) Bearing symbols are only graphical representations of a possible bearing condition. Bearing symbols are not considered in the structural design of the truss to support the
- 15) Web bracing shown is for lateral support of individual web members only. Refer to BCSI Guide to Good Practice for Handling, Installing, Restraining & Bracing of Metal Plate Connected Wood Trusses for additional bracing guidelines, including diagonal bracing.

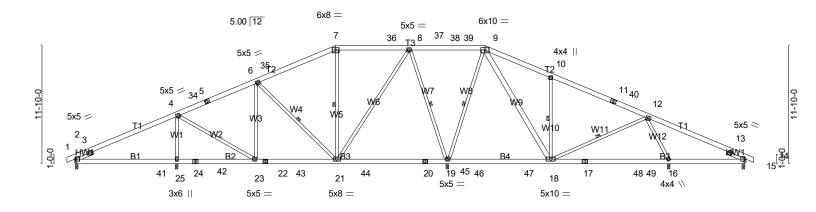
 16) SEE BCSI-B3 SUMMARY SHEET- PERMANENT RESTRAING/BRACING OF CHORDS & WEB MEMBERS FOR RECOMMENDED MINIMUM BRACING REQUIREMENTS
- OF TOP CHORD, BOTTOM CHORD, AND WEB PLANES. IN ADDITION TO THESE MINIMUM GUIDELINES, ALWAYS CONSULT THE PROJECT ARCHITECT OR ENGINEER FOR ADDITIONAL BRACING CONSIDERATIONS.

LOAD CASE(S) Standard



Job	Truss	Truss Type	Qty	Ply LOT	16 PROVIDENCE CREEK 234	DAVINHALL DRIVE	FUQUAY-VARINA, N	С
24-0136-R01	R04	PIGGYBACK BASE	2	1 Job I	Reference (optional)	# 4	14030	
					s Feb 12 2021 MiTek Industries qFZ-1EIzQNwqLQIDI2Dz8d			
-0 ₁ 1Q-8 10-1-	12 18-0-14	26-0-0 33-6-0	41-0-0	47-6-12	57-1-10	67-0-0	67 _г 10-8	
0-10-8 10-1-	12 7-11-2	7-11-2 7-6-0	7-6-0	6-6-12	9-6-14	9-10-6	0-10-8	

Scale = 1:115.3



10-1-12 10-1-12				9-4-4 67-0-0 -9-8 7-7-12
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 0.63 BC 0.56 WB 0.99 Matrix-MSH	DEFL. in (loc) l/defl L/d Vert(LL) 0.13 25-28 >904 240 Vert(CT) -0.23 19-21 >999 180 Horz(CT) 0.03 16 n/a n/a	PLATES GRIP MT20 244/190 Weight: 515 lb FT = 20%

LUMBER-

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

B4: 2x6 SP DSS WFBS 2x4 SP No.3 *Except*

W9: 2x6 SP No 2

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

TOP CHORD **BOT CHORD** WFBS

Structural wood sheathing directly applied or 5-11-14 oc purlins.

Rigid ceiling directly applied or 10-0-0 oc bracing. 6-21, 7-21, 8-19, 9-19, 10-18, 12-18 1 Row at midpt

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

REACTIONS. All bearings 0-3-8.

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

Max Uplift All uplift 100 lb or less at joint(s) except 2=-197(LC 10), 25=-163(LC 14), 19=-246(LC 11), 14=-180(LC

11), 16=-110(LC 15)

Max Grav All reactions 250 lb or less at joint(s) except 2=617(LC 54), 25=1536(LC 45), 19=2712(LC 45), 14=452(LC 55), 16=1234(LC 39)

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

TOP CHORD 2-3=-372/461, 3-4=-608/480, 4-34=-1244/378, 5-34=-1174/383, 5-6=-1030/406,

6-35=-874/346, 7-35=-745/374, 7-36=-686/390, 36-37=-686/390, 8-37=-686/390,

8-38=0/335, 38-39=0/335, 9-39=0/335, 9-10=-941/395, 10-11=-793/283, 11-40=-854/259,

12-40=-933/249, 12-13=-362/352, 13-14=-60/277

BOT CHORD 2-41=-359/487, 25-41=-359/487, 25-42=-359/487, 24-42=-359/487, 23-24=-359/487,

WEBS

NOTES-

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

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

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; Rougl

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 Flate DOL=1.15), ISC. 1.0, I jointly produced by SBCA and TPI. The building owner or the owner's authorized agent shall contract with a qualified registered design professional for the design and inspection of the temporary installation restraint/bracing and the permanent individual truss member esponsibility for truss manufacture, handling, erection, or bracing

Job	Truss	Truss Type	Qty	Ply	LOT 16 PROVIDENCE CREEK 234 DAVINHALL	DRIVE FUQUAY-VARINA, N
24-0136-R01	R04	PIGGYBACK BASE	2	1	Job Reference (optional)	# 44030

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NOTES- (12-15)

- 7) Provide adequate drainage to prevent water ponding.
- 8) All plates are 5x6 MT20 unless otherwise indicated.
- 9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 10) * This truss has been designed for a live load of 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.
- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 197 lb uplift at joint 2, 163 lb uplift at joint 25, 246 lb uplift at joint 19, 180 lb uplift at joint 14 and 110 lb uplift at joint 16.
- 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.

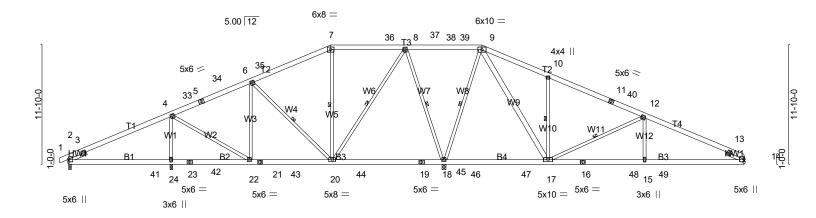
 15) SEE BCSI-B3 SUMMARY SHEET- PERMANENT RESTRAING/BRACING OF CHORDS & WEB MEMBERS FOR RECOMMENDED MINIMUM BRACING REQUIREMENTS
- OF TOP CHORD, BOTTOM CHORD, AND WEB PLANES. IN ADDITION TO THESE MINIMUM GUIDELINES, ALWAYS CONSULT THE PROJECT ARCHITECT OR ENGINEER FOR ADDITIONAL BRACING CONSIDERATIONS.

LOAD CASE(S) Standard



Job	Truss		Truss Type		Qty	Ply LOT	16 PROVIDENCE CREEK 2	234 DAVINHALL DRIVE FUQUAY-VARINA	NC
24-0136-R01	R05		Piggyback Base		7	1 Job I	Reference (optional)	# 44030	
				F				ies, Inc. Wed Jan 10 17:16:19 2024 Page fWINTjKfcQRvdMrQNdAg39QEmzwiZ	
-0 _⊤ 1Q-8	10-1-12	18-0-14	26-0-0	33-6-0	41-0-0	47-6-12	57-1-10	67-0-0	
0-10-8	10-1-12	7-11-2	7-11-2	7-6-0	7-6-0	6-6-12	9-6-14	9-10-6	

Scale = 1:114.3



10-1-12	18-0-14	26-0-0	37-2-12	47-6-12	57-1-10	67-0-0	
10-1-12	7-11-2	7-11-2	11-2-12	10-4-0	9-6-14	9-10-6	
LOADING (psf) TCLL (roof) 20.0 Snow (Pf) 20.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.19 Lumber DOL 1.19 Rep Stress Incr YES Code IRC2021/TPI2014	TC 0.6 BC 0.8 WB 0.9	Vert(C 98 Horz(C	ŕ) -0.23 18-20	l/defl L/d >894 240 >999 180 n/a n/a	PLATES MT20 Weight: 512 lb	GRIP 244/190 FT = 20%

LUMBER-

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

B4: 2x6 SP DSS

WEBS 2x4 SP No 3 *Except*

W7: 2x4 SP No.2, W8: 2x4 SP No.1, W9: 2x6 SP No.2 SLIDER Left 2x4 SP No.3 -° 1-11-0, Right 2x4 SP No.3 -° 1-11-0 BRACING-TOP CHORD BOT CHORD

Structural wood sheathing directly applied or 5-1-9 oc purlins. Rigid ceiling directly applied or 10-0-0 oc bracing, Except:

6-0-0 oc bracing: 18-20,17-18.

WFBS 1 Row at midpt 6-20, 7-20, 8-20, 8-18, 9-18, 10-17, 12-17

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

REACTIONS. All bearings 0-3-8 except (jt=length) 18=0-4-0, 14=Mechanical.

- Max Horz 2=172(LC 14)

Max Uplift All uplift 100 lb or less at joint(s) except 2=-195(LC 10), 24=-164(LC 14), 18=-277(LC 11), 14=-176(LC

Max Grav All reactions 250 lb or less at joint(s) except 2=605(LC 54), 24=1360(LC 35), 18=3525(LC 45), 14=1016(LC 43)

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

2-3=-358/456, 3-4=-580/464, 4-33=-1082/331, 5-33=-1012/335, 5-34=-1003/339,

6-34=-868/358, 6-35=-665/286, 7-35=-517/314, 7-36=-474/334, 36-37=-474/334,

8-37=-474/334, 8-38=0/927, 38-39=0/927, 9-39=0/927, 9-10=-739/334, 10-11=-590/207,

11-40=-649/183, 12-40=-725/174, 12-13=-1664/313, 13-14=-631/0 **BOT CHORD**

2-41=-361/462, 24-41=-361/462, 24-42=-361/462, 23-42=-361/462, 22-23=-361/462, 21-22=-157/899, 21-43=-157/899, 20-43=-157/899, 20-44=-495/256, 19-44=-495/256,

19-45=-495/256, 18-45=-495/256, 18-46=-383/198, 46-47=-383/198, 17-47=-383/198,

16-17=-201/1461, 16-48=-201/1461, 15-48=-201/1461, 15-49=-201/1461, 14-49=-201/1461

4-24=-1052/233, 4-22=0/561, 6-20=-731/202, 7-20=-368/83, 8-20=-165/1324,

8-18=-1531/372, 9-18=-1754/267, 9-17=-321/1759, 10-17=-869/263, 12-17=-1064/265,

12-15=0/382

NOTES-

WEBS

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

vilid: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=5.0psf; BCDL=5.0psf; h=35ft; Cat. II; Exp B; Enclosed; Gable Roof; Hip Truss; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 5-9-14, Interior(1) 5-9-14 to 19-3-10, Exterior(2R) 19-3-10 to 32-8-6, Interior(1) 32-8-6 to 34-3-10, Exterior(2R) 34-3-10 to 47-6-12, Interior(1) 47-6-12 to 60-3-10, Exterior(2E) 60-3-10 MWFRS for reactions shown; Lumber DOI =1 60 -1-1 2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=5.0psf; BCDL=5.0psf; h=35ft; Cat. II; Exp B; Enclosed; Gable

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

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

5) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads



Job	Truss	Truss Type	Qty	Ply	LOT 16 PROVIDENCE CREEK 234 DAVINHALL D	RIVE FUQUAY-VARINA, N
24-0136-R01	R05	Piggyback Base	7	1	Job Reference (optional)	# 44030

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NOTES- (13-16)

- 6) WARNING: This long span truss requires extreme care and experience for proper and safe handling and erection. For general handling and erection guidance, see Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses ("BCSI"), jointly produced by SBCA and TPI. The building owner or the owner's authorized agent shall contract with a qualified registered design professional for the design and inspection of the temporary installation restraint/bracing and the permanent individual truss member restraint/bracing. MiTek assumes no responsibility for truss manufacture, handling, erection, or bracing.
- 7) Provide adequate drainage to prevent water ponding.
- 8) All plates are 5x5 MT20 unless otherwise indicated.
- 9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 10) * This truss has been designed for a live load of 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.
- 11) Refer to girder(s) for truss to truss connections.
- 12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 195 lb uplift at joint 2, 164 lb uplift at joint 24, 277 lb uplift at joint 18 and 176 lb uplift at joint 14.
- 13) Graphical bracing representation does not depict the size, type or the orientation of the brace on the member. Symbol only indicates that the member must be braced.
- 14) Bearing symbols are only graphical representations of a possible bearing condition. Bearing symbols are not considered in the structural design of the truss to support the loads indicated.
- 15) Web bracing shown is for lateral support of individual web members only. Refer to BCSI Guide to Good Practice for Handling, Installing, Restraining & Bracing of Metal Plate
 Connected Wood Trusses for additional bracing guidelines, including diagonal bracing.
 16) SEE BCSI-B3 SUMMARY SHEET- PERMANENT RESTRAING/BRACING OF CHORDS & WEB MEMBERS FOR RECOMMENDED MINIMUM BRACING REQUIREMENTS
- 16) SEE BCSI-B3 SUMMARY SHEET- PERMANENT RESTRAING/BRACING OF CHORDS & WEB MEMBERS FOR RECOMMENDED MINIMUM BRACING REQUIREMENTS OF TOP CHORD, BOTTOM CHORD, AND WEB PLANES. IN ADDITION TO THESE MINIMUM GUIDELINES, ALWAYS CONSULT THE PROJECT ARCHITECT OR ENGINEER FOR ADDITIONAL BRACING CONSIDERATIONS.

LOAD CASE(S) Standard



Job Truss Truss Type LOT 16 PROVIDENCE CREEK | 234 DAVINHALL DRIVE FUQUAY-VARINA, NC 24-0136-R01 R07 Common Supported Gable # 44030 Job Reference (optional) Run: 8.430 s Feb 12 2021 Print: 8.430 s Feb 12 2021 MiTek Industries, Inc. Wed Jan 10 17:16:21 2024 Page 1 ID:2OYuXCSZgcKAUakfxRl2BEyzqFZ-sNfEhR?bwG2NTzg7Uulok1VwcQ9kuUyT8NeXlfzwiZ8 -0-10-8 0-10-8 20-2-0 10-1-0 10-1-0 10-1-0 Scale = 1:43.6 4x4 = 7 6 7.00 12 9 5 26 10 11 3 3x4 || 3x4 || ST2 12 13 XXXXX24 23 22 21 20 19 18 17 16 15 14 5x5 =3x4 II 3x4 || 20-2-0 Plate Offsets (X,Y)-- [18:0-2-8,0-3-0] LOADING (psf) DEFL. **PLATES** GRIP SPACING-2-0-0 CSI. in (loc) I/defl I/d TCLL (roof) 20.0 Plate Grip DOL 1.15 TC 0.12 Vert(LL) -0.0013 n/r 180 MT20 244/190 Snow (Pf) 20.0 Lumber DOL 1.15 вс 0.11 Vert(CT) -0.00 13 n/r 80 TCDL 10.0 WB 0.16 Rep Stress Incr YES Horz(CT) 0.00 14 n/a n/a **BCLL** 0.0 Code IRC2021/TPI2014 Weight: 123 lb FT = 20% Matrix-R **BCDL** 10.0 LUMBER-BRACING-TOP CHORD 2x4 SP No.2 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except BOT CHORD 2x4 SP No.3 end verticals 2x4 SP No 3 BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing WFBS 2x4 SP No 3 OTHERS MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer

Installation guide.

REACTIONS.

All bearings 20-2-0. (lb) - Max Horz 24=-171(LC 12)

Max Uplift All uplift 100 lb or less at joint(s) 24, 14, 20, 21, 22, 23, 18, 17, 16, 15

Max Grav All reactions 250 lb or less at joint(s) 24, 14, 21, 22, 23, 17, 16, 15 except 19=262(LC 27), 20=305(LC 5), 18=302(LC 6)

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=120mph (3-second gust) Vasd=95mph; TCDL=5.0psf; BCDL=5.0psf; h=35ft; Cat. II; Exp B; Enclosed; Gable Roof; Common Truss; MWFRS (envelope) gable end zone and C-C Corner(3E) -0-10-8 to 4-1-0, Exterior(2N) 4-1-0 to 5-3-6, Corner(3R) 5-3-6 to 14-10-10, Exterior(2N) 14-10-10 to 16-1-0, Corner(3E) 16-1-0 to 21-0-8 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.

10) Gable studs spaced at 2-0-0 co.

11) This truss has been designed for a 10.0 psf bottom chord live load inc.

12) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a recurrence 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) 24, 14, 20, 21, 22, 23, 18, 17, 16, 15.

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Job	Truss	Truss Type	Qty	Ply	LOT 16 PROVIDENCE CREEK 234 DAVINHALL	DRIVE FUQUAY-VARINA, N
24-0136-R01	R07	Common Supported Gable	1	1	Job Reference (optional)	# 44030

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

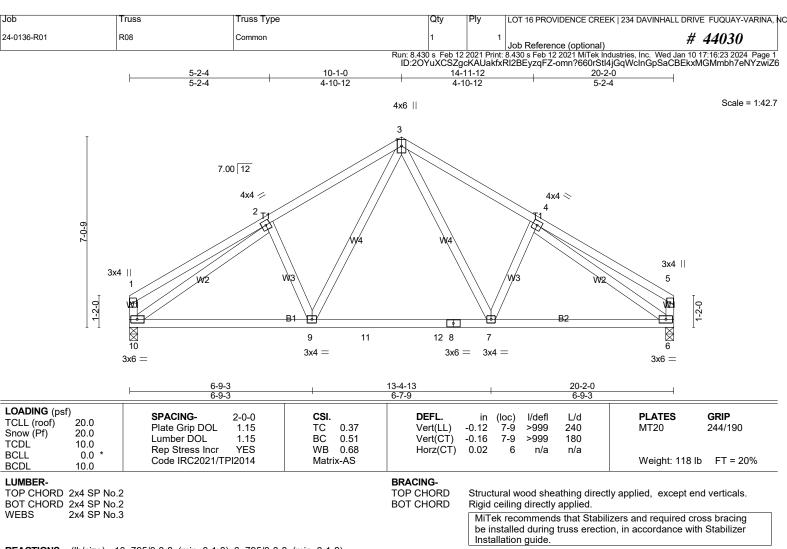
16) Web bracing shown is for lateral support of individual web members only. Refer to BCSI - Guide to Good Practice for Handling, Installing, Restraining & Bracing of Metal Plate Connected Wood Trusses for additional bracing guidelines, including diagonal bracing.

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

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

LOAD CASE(S) Standard





REACTIONS. (lb/size) 10=795/0-3-8 (min. 0-1-8), 6=795/0-3-8 (min. 0-1-8)

Max Horz 10=-158(LC 10)

Max Uplift10=-90(LC 14), 6=-90(LC 15) Max Grav 10=839(LC 20), 6=839(LC 21)

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

1-2=-265/79, 2-3=-1021/178, 3-4=-1021/178, 4-5=-265/79 TOP CHORD

9-10=-128/902, 9-11=-19/647, 11-12=-19/647, 8-12=-19/647, 7-8=-19/647, 6-7=-69/873 **BOT CHORD**

3-7=-92/411, 3-9=-91/411, 2-10=-908/64, 4-6=-908/64 **WEBS**

NOTES-(9-12)

- 1) Unbalanced roof live loads have been considered for this design.
 2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=5.0psf; BCDL=5.0psf; h=35ft; Cat. II; Exp B; Enclosed; Gable Roof; Common Truss; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-1-12 to 5-0-11, Exterior(2R) 5-0-11 to 15-1-5 Exterior(2E) 15-1-5 to 20-0-4 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) 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, with BCDL = 10.0psf

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

7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 10, 6.

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.

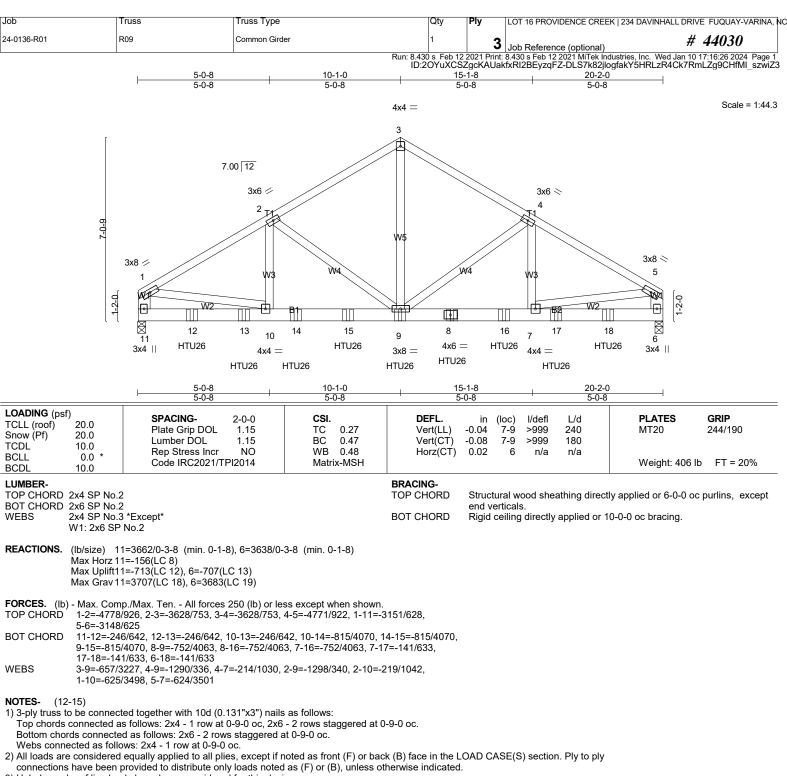
9) Graphical bracing representation does not depict the size, type or the orientation of the brace on the member. Symbol only indicates that the member must be braced.

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



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

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.
8) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 11=Z13, 6=707.
10) Use Simpson Strong-Tie HTU26 (20-10d Girder, 11-10dx1 1/2 Truss, Single Ply Girder) or equivalent spaced at 2-0-0 oc max. starting at 2-0-12 from the left end to 18-0-12 to connect truss(es) R02 (1 ply 2x6 SP), R02 (1 ply 2x6 SP), R02 (1 ply 2x6 SP), R03 (1

11) Fill all nail holes where hanger is in contact with lumber.

Job	Truss	Truss Type	Qty	Ply	LOT 16 PROVIDENCE CREEK 234 DAVINHALL DE	RIVE FUQUAY-VARINA, N	C
24-0136-R01	R09	Common Girder	1	3	Job Reference (optional)	# 44030	

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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: 1-3=-60, 3-5=-60, 6-11=-20

Concentrated Loads (lb)

Vert: 8=-635(F) 9=-635(F) 12=-644(F) 13=-635(F) 14=-635(F) 15=-635(F) 16=-635(F) 17=-644(F) 18=-626(F)



Job Truss Truss Type LOT 16 PROVIDENCE CREEK | 234 DAVINHALL DRIVE FUQUAY-VARINA, NC 24-0136-R01 R10 Common Supported Gable # 44030 Job Reference (optional) Run: 8.430 s Feb 12 2021 Print: 8.430 s Feb 12 2021 MiTek Industries, Inc. Wed Jan 10 17:16:28 2024 Page 1 ID:2OYuXCSZgcKAUakfxRl2BEyzqFZ-9kau9q4_HPwNp2iTPsNRWVl6OFYR1gAVlzrP2lzwiZ1 14-0-0 7-0-0 7-0-0 7-0-0 Scale: 3/8"=1" 4x4 = 5 7.00 12 7 20 19 3x4 || 8 3x4 || 9 1-2-0 1-2-0 $\nabla \nabla \nabla$ 18 16 15 14 13 12 3x4 || 3x4 || 14-0-0 14-0-0 LOADING (psf) GRIP SPACING-CSI. DEFL. PLATES 2-0-0 I/defl L/d in (loc) TCLL (roof) 20.0 244/190 Plate Grip DOL 1.15 TC 0.09Vert(LL) n/a n/a 999 MT20 Snow (Pf) 20.0 Lumber DOL 1.15 BC 0.11 Vert(CT) n/a n/a 999 **TCDL** 10.0 Rep Stress Incr YES WB 0.07 Horz(CT) -0.00 10 n/a n/a 0.0 **BCLL** Weight: 76 lb FT = 20% Code IRC2021/TPI2014 Matrix-R **BCDI** 10.0 BRACING-LUMBER-TOP CHORD 2x4 SP No.2 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except BOT CHORD 2x4 SP No.3 end verticals. WFBS 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. All bearings 14-0-0. (lb) - Max Horz 18=-118(LC 10) Max Uplift All uplift 100 lb or less at joint(s) 18, 10, 15, 16, 17, 13, 12, 11 Max Grav All reactions 250 lb or less at joint(s) 18, 10, 14, 15, 16, 17, 13, 12, 11 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=120mph (3-second gust) Vasd=95mph; TCDL=5.0psf; BCDL=5.0psf; h=35ft; Cat. II; Exp B; Enclosed: Gable Roof; Common Truss; MWFRS (envelope) gable end zone and C-C Corner(3E) 0-1-12 to 5-0-0, Corner(3R) 5-0-0 to 9-0-0, Corner(3E) 9-0-0 to 13-10-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1
- 4) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); 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) All plates are 2x4 MT20 unless otherwise indicated.
- 7) Gable requires continuous bottom chord bearing.
- 8) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- Gable studs spaced at 2-0-0 oc.
- 10) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).

 Gable studs spaced at 2-0-0 oc.

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

 Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 18, 10, 15, 16, 12, 13, 12, 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.

 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.

 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
- 12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 18, 10, 15, 16, 15, 13
- 13) Graphical bracing representation does not depict the size, type or the orientation of the brace on the member. Symbol only indicates
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- 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

Consider A figure.

Consid 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.

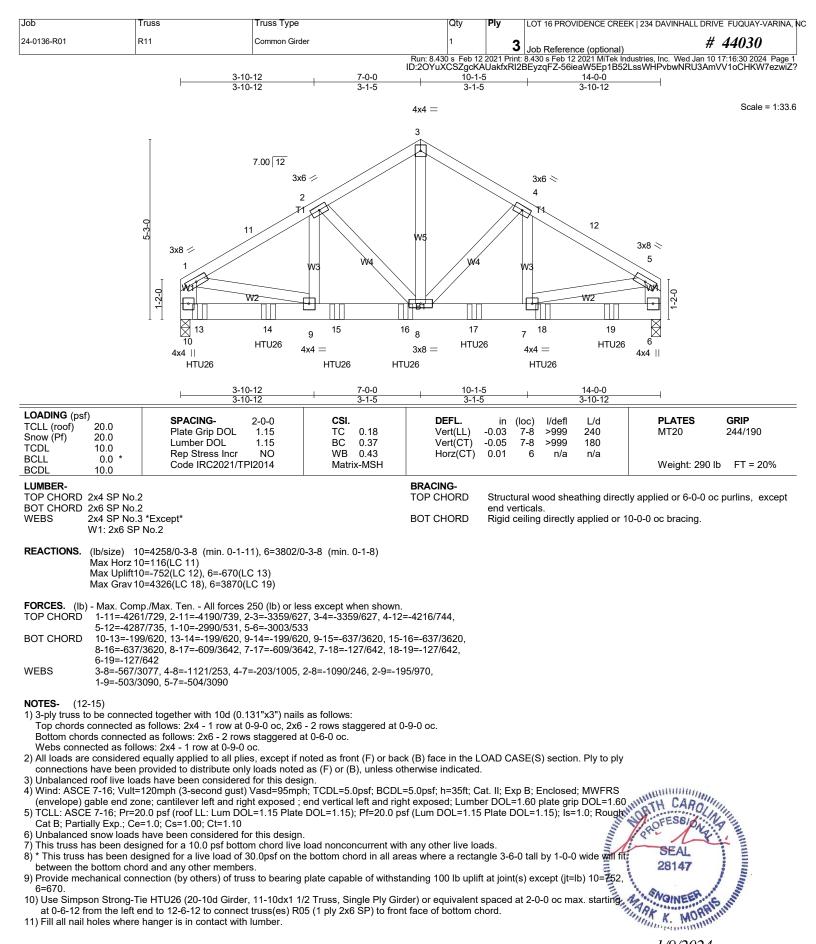
Job	Truss	Truss Type	Qty	Ply	LOT 16 PROVIDENCE CREEK 234 DAVINHALL DRIVE FUQUAY-VARINA,	1C
24-0136-R01	R10	Common Supported Gable	1	1	Job Reference (optional) # 44030	

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LOAD CASE(S) Standard



1/9/2024



Job	Truss	Truss Type	Qty	Ply	LOT 16 PROVIDENCE CREEK 234 DAVINHALL DI	RIVE FUQUAY-VARINA,	1C
24-0136-R01	R11	Common Girder	1	3	Job Reference (optional)	# 44030	

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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: 1-3=-60, 3-5=-60, 6-10=-20

Concentrated Loads (lb)

Vert: 13=-1002(F) 14=-996(F) 15=-996(F) 16=-996(F) 17=-996(F) 18=-996(F) 19=-996(F)



Job Truss Truss Type LOT 16 PROVIDENCE CREEK | 234 DAVINHALL DRIVE FUQUAY-VARINA, NC 24-0136-R01 VT01 Valley # 44030 Job Reference (optional) Run: 8.430 s Feb 12 2021 Print: 8.430 s Feb 12 2021 MiTek Industries, Inc. Wed Jan 10 17:16:32 2024 Page 1 ID:2OYuXCSZgcKAUakfxRl2BEyzqFZ-1VpO?B7ULeRplf0FehSNhLSkRsszzUk4gbpcAWzwiYz 17-10-9 8-11-5 8-11-5 Scale = 1:33.1 4x4 = 3 7.00 12 2x4 || 2x4 || 41 11 10 5 3x4 > 3x4 / 6 9 12 8 7 13 2x4 || 2x4 || 2x4 || 3x6 = 17-10-9 17-10-9 LOADING (psf) GRIP SPACING-CSI. DEFL. PLATES 2-0-0 I/defl L/d in (loc) TCLL (roof) 20.0 Plate Grip DOL 1.15 TC 0.34 Vert(LL) n/a n/a 999 MT20 244/190 Snow (Pf) 20.0 Lumber DOL 1.15 BC 0.26 Vert(CT) n/a n/a 999 TCDL 10.0 Rep Stress Incr YES WB 0.09 Horz(CT) 0.00 5 n/a n/a 0.0 **BCLL** Code IRC2021/TPI2014 Weight: 69 lb FT = 20% Matrix-S BCDL 10.0 BRACING-LUMBER-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. All bearings 17-10-9 REACTIONS. (lb) - Max Horz 1=-108(LC 10) Max Uplift All uplift 100 lb or less at joint(s) 1, 5 except 9=-136(LC 14), 6=-136(LC 15) Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 8=372(LC 5), 9=514(LC 20), 6=514(LC 21) FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. WEBS 2-9=-410/177, 4-6=-410/177 NOTES-1) Unbalanced roof live loads have been considered for this design. 2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=5.0psf; BCDL=5.0psf; h=35ft; Cat. II; Exp B; Enclosed: Gable Roof; Common Truss; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-6-8 to 5-4-1, Exterior(2R) 5-4-1 to 12-6-8, Exterior(2E) 12-6-8 to 17-4-2 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); 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, with BCDL = 10.0psf. 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 5 except (jt=lb) 9=136, 6=136.

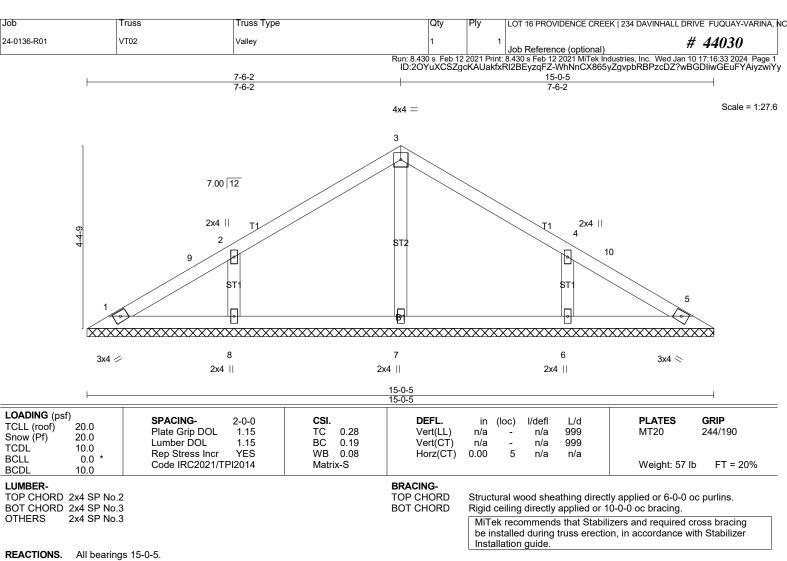
9) Graphical bracing representation does not depict the size, type or the orientation of the brace on the member. Symbol only indicates that the member must be braced.

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



(lb) - Max Horz 1=90(LC 11)

Max Uplift All uplift 100 lb or less at joint(s) 1 except 8=-113(LC 14), 6=-113(LC 15)

Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 7=286(LC 20), 8=444(LC 20), 6=444(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. WEBS 2-8=-367/149, 4-6=-367/149

NOTES-

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

- 2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=5.0psf; BCDL=5.0psf; h=35ft; Cat. II; Exp B; Enclosed: Gable Roof; Common Truss; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-6-8 to 5-4-1, Exterior(2R) 5-4-1 to 9-8-3, Exterior(2E) 9-8-3 to 14-5-13 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 except (jt=lb) 8=113,

- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1 except (jt=lb) 8=113, 6=113.

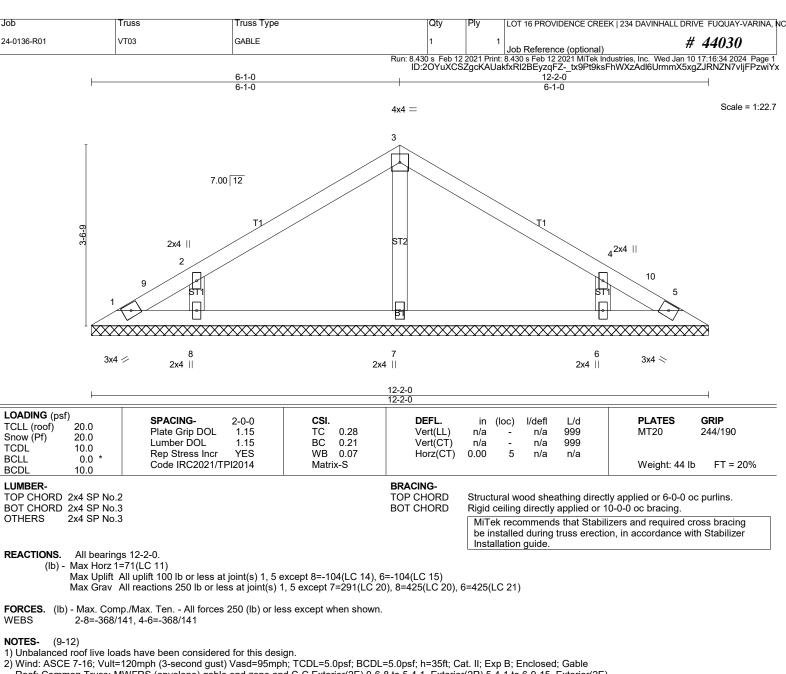
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 11) Web bracing shown is for lateral support of individual web members only. Refer to BCSI Guide to Good Practice for Handling, Installing, Restraining & Bracing of Metal Plate Connected Wood Trusses for additional bracing guidelines, including diagonal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



NOTES-

- Roof; Common Truss; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-6-8 to 5-4-1, Exterior(2R) 5-4-1 to 6-9-15, Exterior(2E) 6-9-15 to 11-7-8 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) 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, 5 except (jt=lb)

- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 5 except (jt=lb) 8=104, 6=104.

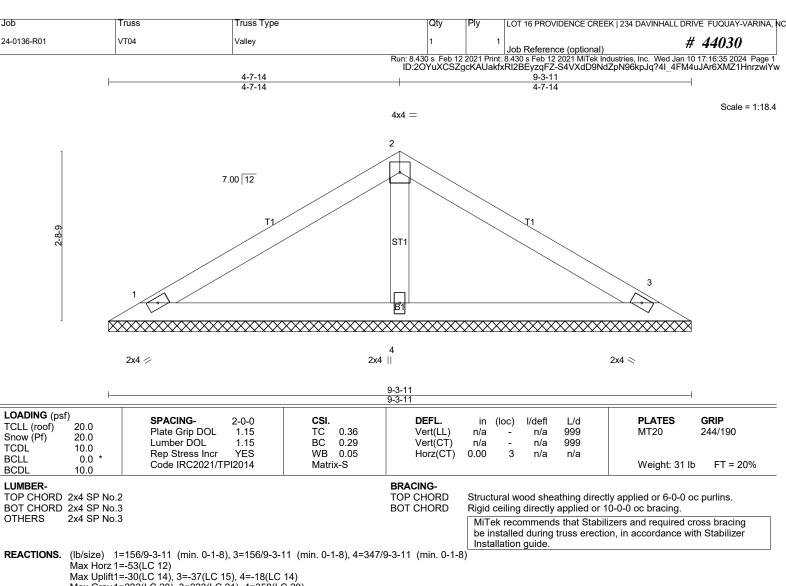
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 10) Bearing symbols are only graphical representations of a possible bearing condition. Bearing symbols are not considered in the structural design of the truss to support the loads indicated.

 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



Max Grav 1=223(LC 20), 3=223(LC 21), 4=358(LC 20)

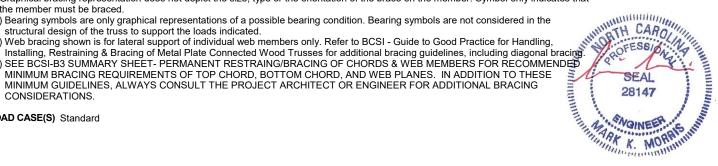
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

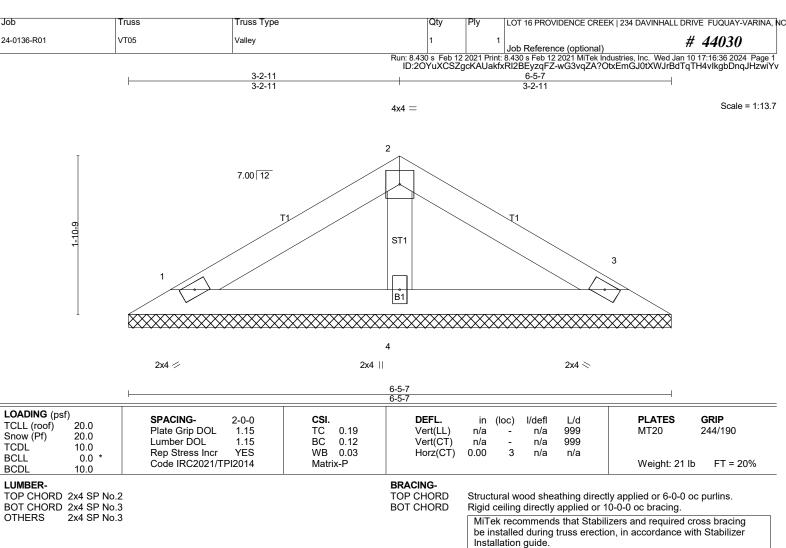
NOTES-(9-12)

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

- 2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=5.0psf; BCDL=5.0psf; h=35ft; Cat. II; Exp B; Enclosed; Gable Roof; Common Truss; MWFRS (envelope) gable end zone and C-C Exterior(2E) zone; 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
- 12) SEE BČŠI-B3 SUMMĀRY SHĒET- PERMANENT RESTRAING/BRACING OF CHORDS & WĒB MEMBERS FOR ŘECŎMMENDED

LOAD CASE(S) Standard





REACTIONS. (lb/size) 1=112/6-5-7 (min. 0-1-8), 3=112/6-5-7 (min. 0-1-8), 4=206/6-5-7 (min. 0-1-8) Max Horz 1=35(LC 11)

Max Uplift1=-24(LC 14), 3=-29(LC 15), 4=-2(LC 14)

Max Grav 1=148(LC 20), 3=148(LC 21), 4=206(LC 1)

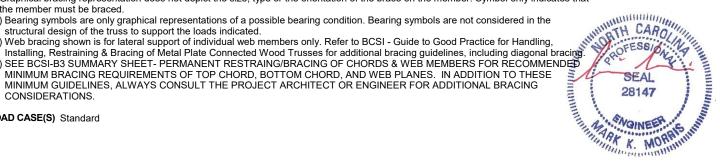
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

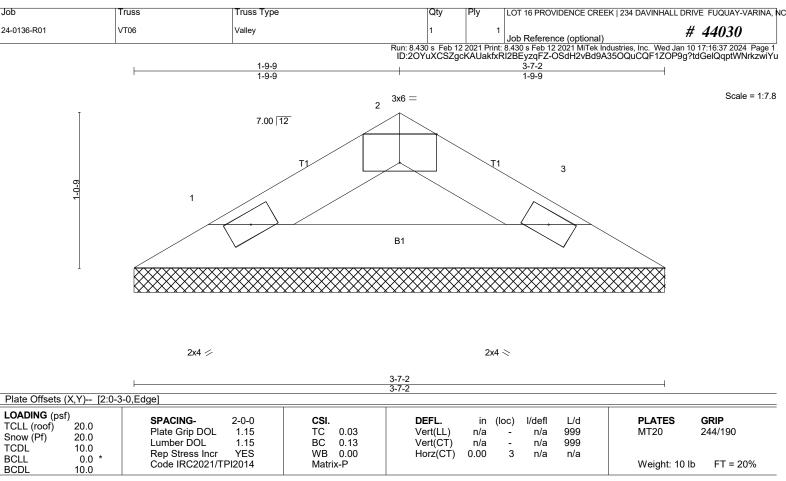
NOTES-(9-12)

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; Gable Roof; Common Truss; 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.
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- 12) SEE BČŠI-B3 SUMMĀRY SHĒET- PERMANENT RESTRAING/BRACING OF CHORDS & WĒB MEMBERS FOR ŘECŎMMENDED

LOAD CASE(S) Standard





LUMBER-

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

BRACING-

TOP CHORD BOT CHORD Structural wood sheathing directly applied or 3-7-2 oc purlins. Rigid ceiling directly applied or 10-0-0 oc bracing.

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

REACTIONS. (lb/size) 1=101/3-7-2 (min. 0-1-8), 3=101/3-7-2 (min. 0-1-8)

Max Horz 1=-16(LC 12) Max Uplift1=-12(LC 14), 3=-12(LC 15) Max Grav 1=109(LC 20), 3=109(LC 21)

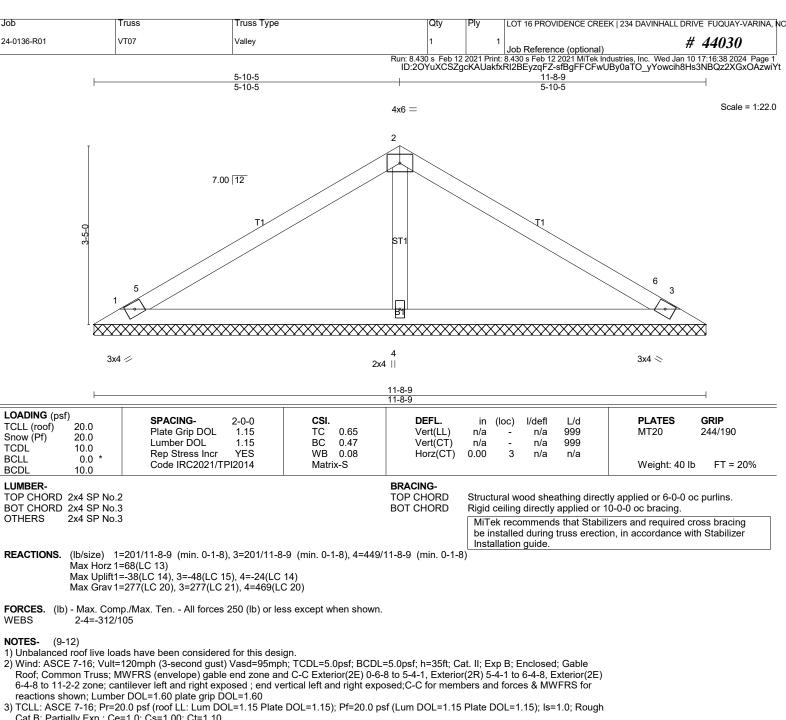
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

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

- 2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=5.0psf; BCDL=5.0psf; h=35ft; Cat. II; Exp B; Enclosed: Gable Roof; Common Truss; MWFRS (envelope) gable end zone and C-C Exterior(2E) zone; 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. 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 RECOMMEND 🖹 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.

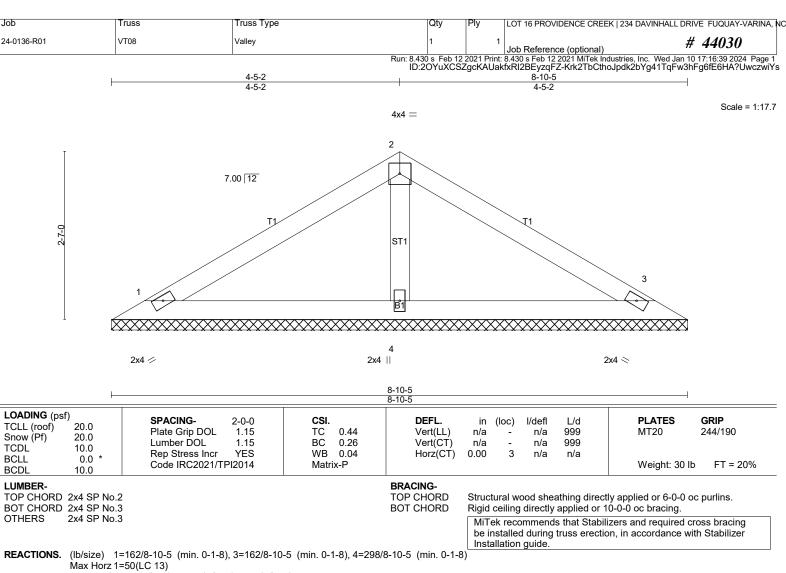
LOAD CASE(S) Standard

SEAL 28147



- 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, 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 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

LOAD CASE(S) Standard



Max Uplift1=-35(LC 14), 3=-42(LC 15), 4=-3(LC 14) Max Grav 1=225(LC 20), 3=225(LC 21), 4=305(LC 21)

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

NOTES-(9-12)

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

- 2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=5.0psf; BCDL=5.0psf; h=35ft; Cat. II; Exp B; Enclosed; Gable Roof; Common Truss; MWFRS (envelope) gable end zone and C-C Exterior(2E) zone; 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
- 12) SEE BČŠI-B3 SUMMĀRY SHĒET- PERMANENT RESTRAING/BRACING OF CHORDS & WĒB MEMBERS FOR ŘECŎMMENDED

LOAD CASE(S) Standard

LL ASCE 7-16; PT=ZU.D...

I.B; Partially Exp.; Ce=1.0; Cs=1.00; Cu=...

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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.

SEE BCSI-B3 SUMMARY SHEET- PERMANENT RESTRAING/BRACING OF CHORDS & WEB MEMBERS FOR RECOMMENDED AND MEB PLANES. IN ADDITION TO THESE

SEAL SHAPP OF THE PROJECT ARCHITECT OR ENGINEER FOR ADDITIONAL BRACING

**INIMUM BRACING REQUIREMENTS OF TOP CHORD, BOTTOM CHORD, AND WEB PLANES. IN ADDITION TO THESE

SEAL SHAPP OF THE PROJECT ARCHITECT OR ENGINEER FOR ADDITIONAL BRACING

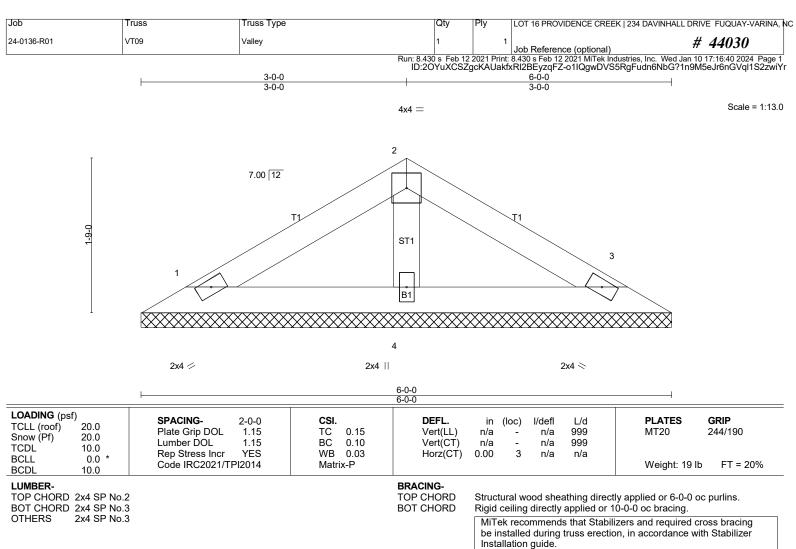
**INIMUM BRACING REQUIREMENTS OF TOP CHORD, BOTTOM CHORD, AND WEB PLANES. IN ADDITIONAL BRACING

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**INIMUM BRACING REQUIREMENTS OF TOP CHORD, BOTTOM CHORD, AND WEB PLANES. IN ADDITIONAL BRACING

**INIMUM BRA



REACTIONS. (lb/size) 1=103/6-0-0 (min. 0-1-8), 3=103/6-0-0 (min. 0-1-8), 4=188/6-0-0 (min. 0-1-8)

Max Horz 1=32(LC 11)

Max Uplift1=-22(LC 14), 3=-27(LC 15), 4=-2(LC 14) Max Grav 1=134(LC 20), 3=134(LC 21), 4=188(LC 1)

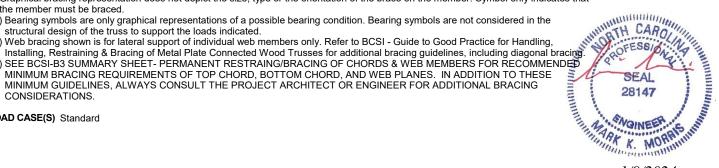
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

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; Gable Roof; Common Truss; 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.
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- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
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LOAD CASE(S) Standard



Truss Type LOT 16 PROVIDENCE CREEK | 234 DAVINHALL DRIVE FUQUAY-VARINA, NC .lob Truss VT10 24-0136-R01 Valley # 44030 Job Reference (optional) Run: 8.430 s Feb 12 2021 Print: 8.430 s Feb 12 2021 MiTek Industries, Inc. Wed Jan 10 17:16:41 2024 Page 1 ID:2OYuXCSZgcKAUakfxRl2BEyzqFZ-HEsotGE7DPZXt1Czf46VYFKM9U_taZPPkUUb?VzwiYq 1-6-14 3-1-11 1-6-14 1-6-14 Scale = 1:7.2 3x6 = 2 7.00 12 3 В1 2x4 / 2x4 > 3-1-11 3-1-11 Plate Offsets (X,Y)-- [2:0-3-0,Edge] 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 0.02 Vert(LL) n/a n/a 999 MT20 244/190 Snow (Pf) 20.0 Lumber DOL 1.15 вс 0.08 Vert(CT) n/a n/a 999 TCDL 10.0 WB 0.00 Rep Stress Incr YES Horz(CT) 0.00 n/a n/a **BCLL** 0.0 Code IRC2021/TPI2014 Weight: 8 lb FT = 20% Matrix-P **BCDL** 10.0

LUMBER-

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

BRACING-

TOP CHORD BOT CHORD Structural wood sheathing directly applied or 3-1-11 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=83/3-1-11 (min. 0-1-8), 3=83/3-1-11 (min. 0-1-8)

Max Horz 1=13(LC 13)

Max Uplift1=-10(LC 14), 3=-10(LC 15) Max Grav 1=88(LC 20), 3=88(LC 21)

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=120mph (3-second gust) Vasd=95mph; TCDL=5.0psf; BCDL=5.0psf; h=35ft; Cat. II; Exp B; Enclosed: Gable Roof; Common Truss; MWFRS (envelope) gable end zone and C-C Exterior(2E) zone; 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
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LOAD CASE(S) Standard

SEAL 28147